Parts Catalog

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Replacement Parts for

John Deere®, Cummins® (Mid - Range), Perkins®, Caterpillar®, Yanmar® & International Harvester® / Navistar® Diesel Engines

East Coast Distribution Center

10900 NW 30th Street
Doral, Florida 33172

Midwest Distribution Center

6780 Hawthorn Park Drive
Indianapolis, IN 46220

West Coast Distribution Center

12150 Bloomfield Ave Unit Q
Santa Fe Springs, California 90670

Tel: (305) 592-7027 / Fax: (305) 592-0244
Toll Free Number: (800) 414-2095
E-mail: sales@maxiforce.com
Visit our Web site: www.maxiforce.com

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Index

Maxiforce Parts Catalog: UG-014JDCUPKCAYA-2017

Introduction to the Maxiforce Catalog ..... a
Warranty and Policies ..... b
Abbreviations c

John Deere®

Introduction IT01
Engine and Equipment Application Chart IT02-IT17
Engine Overhaul Kits & Components T01-T94
Miscellaneous Parts also Available with Maxiforce T95
Water Pump Repair Kit Components and Identification Chart IT18-IT20
Torque Information IT21

Cummins® B & C (Mid-Range)

Introduction IC01
Engine, CPL and Equipment Application Chart IC02-IC07
Engine Overhaul Kits & Components C01-C31
Miscellaneous Parts also Available with Maxiforce C32
Torque Information IC08

Perkins®

Introduction IP01
Engine Identification Guide IP02
Engine and Equipment Application Chart IP03-IP24
Engine Overhaul Kits & Components P01-P104
Miscellaneous Parts also Available with Maxiforce P105
Torque Information IP25

Caterpillar®

Engine and Equipment Application Chart IB01-IB08
Engine Overhaul Kits & Components B01-B37
Miscellaneous Parts also Available with Maxiforce B38

Yanmar®

Engine and Equipment Application Chart IY01-IY06
Engine Overhaul Kits & Components Y01-Y22

International Harvester®

Engine and Equipment Application Chart IN01-IN02
Engine Overhaul Kits & Components N01-N05

Pagina en Español ..... d

Introduction to Catalog UG-014JDCUPKCAYA-2017

Maxiforce, Inc. is a company devoted to the manufacture and distribution of replacement parts for diesel engines. We are very proud and satisfied to have grown steadily for more than a decade, while maintaining a loyal customer base.

Maxiforce, Inc., has very well defined goals:

- To provide top quality replacement parts, at competitive prices, for **John Deere®** diesel engines, **Cummins®- Consolidated Diesel (Mid-Range)** engines, **Perkins®** diesel and gasoline engines, **Caterpillar®** engines, **Yanmar®** engines, and **International Harvester®/ Navistar®** engines.

- To make these parts immediately available from stock by maintaining a complete inventory.

- To provide technical expertise and advice through a knowledgeable and highly experienced customer service department.

- To offer the most user friendly, yet detailed catalog in the industry. Thus:

We proudly present our **CATALOG UG-014JDCUPKCAYA-2017**, which incorporates five color coded sections for John Deere® (Green), Cummins®-CDC - Midrange - (Red), Perkins® (Blue), Caterpillar® (Yellow), Yanmar® (Orange), and International Harvester® (Dark Red). At the beginning of each section you will find an introductory page to address the specifics of the engine brands covered by this catalog.

This catalog is designed to provide a practical and simple way to determine the correct parts required to repair these engines. Any comments or suggestions regarding the content of this catalog will be greatly appreciated.

Please read this catalog very carefully. Although Maxiforce has gone to great lengths to provide for the accuracy of all printed material, we do not take responsibility for incorrect information. You must always read your OE engine Technical Manual for proper installation and use of product. In case of doubt call our technical support Hot Line: 800-414-2095, our technicians will be very pleased to provide the necessary help.

Parts and prices are subject to change without notice

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Warranty and Policies

*All **Maxiforce** replacement parts are warranted to be free from defects in material and workmanship under normal operating conditions.*

*Warranty coverage will extend for one year from the date of invoice, without regard to hours of operation. **Maxiforce** will pay for all labor and parts needed to repair the warrantable failure, within the parameters stated below.*

CONDITIONS AND LIMITATIONS:

***Maxiforce** must be notified by the customer before filing a warranty claim, or before any work has been performed. All claims must be submitted in writing and **Maxiforce** reserves the right to examine all elements involved in the claim.*

*Price of parts will be based on **Maxiforce's** current price list and cost of labor will be a reasonable flat hourly rate. Overtime and holiday rates are not accepted.*

*This warranty is extended exclusively to direct customers of **Maxiforce** and not to any other party. All other warranties, expressed or implied, including warranties of merchantability and/or fitness for a particular purpose are excluded.*

*This warranty will not apply to any **Maxiforce** part altered from its original specifications or which has been misused, exposed to deteriorating conditions, negligence or accidental damage.*

CLAIMS & RETURNS

***Maxiforce** should be advised of all claims within five days of receipt of merchandise, either by fax, telephone, e-mail or mail.*

***Maxiforce** will not accept returned products without prior written authorization from **Maxiforce.** All return requests must be submitted in advance for approval. A Return Goods Authorization **(RMA)** number must be obtained from **Maxiforce** for all returned parts. All parts should be returned by prepaid freight unless otherwise stated. If sent collect, freight amount will be charged to customer. Products returned that are dirty, in un-saleable condition or that were ordered in error by our customer, will be subject to a 15% restocking fee. Any parts that are returned in a used or damaged condition, will not be considered for credit. All **RMA's** must be received within 30 days of issued. **RMA's** not received will be voided. Customers claiming under-shipment on orders shipped outside of the continental United States may be issued a credit.*
*Credits require **30 days** to process from date of receipt of merchandise. Customers must keep all information on return, including RMA number and tracking number.*

Maxiforce claims no obligation to issue credit on obsolete products.

Products will not be considered for credit after 1 year from invoice date.

Gasket sets that have been opened or re-taped will not be considered for credit.

BACKORDER POLICY

Backorders will be cancelled unless otherwise stated.

CREDIT POLICY

All products must be paid before shipment. Major credit cards are accepted over the phone and online. Information for the bank wire transfers can be obtained from our Customer Service department. Customers have 30 Days to choose which invoice to apply the Credit after 30 Days Maxiforce will apply the credit to the oldest invoice available.

For customers with approved credit:

- *All invoices will be **due 30 days from invoice date** if your payment term is (Net 30).*
- *Accounts that are 60 days past due will be placed on Credit Card terms.*
- *A 1.5% monthly interest fee will be charged to all accounts 30 days past due.*

FREIGHT POLICY

*Within the Continental U.S.A., **Maxiforce** will prepay freight on all shipments over $2000.00 or those consisting of 4 or more overhaul engine kits. All prices are **F.O.B** our warehouses .*

MINIMUM PURCHASE ORDER POLICY

Due to high order-processing costs, a $10.00 handling surcharge will be added to all orders under $50.00.

Abbreviations used throughout this catalog:

A	Turbo Aftercooled
A/C	Air Conditioned
AG	Agricultural
BLK	Engine Block
CDC	Consolidated Diesel
CPL	Control Part List
C/H	Cylinder Head
C/R	Connecting Rod
C/S	Crankshaft
D	Diesel, Naturally Aspirated
ESN	Engine Serial No
I/E	Intake/Exhaust
I/F	In Frame
IK	In Frame Kit
(m)	Marked
MF	Massey Ferguson
N/A	Not Available
O/H	Overhaul
OK	Overhaul Kit
O/S	Oversize
P.T.	PowerTech
Q	Quantity
SBS	Short Block Serial Number.
STD	Standard
T	Turbocharged
TS	Tractor Serial Number.
U/S	Undersize

(1) **Please refer to RED Numbered Cells in each page. They are the source of important information.**

Serial Number References:

> 154,165	Denotes: from 1 up to 154,165
215,000 - 335,845	Denotes: in between the two serial numbers
335,846 >	Denotes: from 335,846 up

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Introduction to John Deere® Section

Diesel Engine models covered by this User's Guide

300 Series (OEM): *US and EUROPEAN Versions. Naturally Aspirated & Turbo Charged*

NUMBER OF CYLINDERS	BORE-3.86"/ 98 mm STROKE-4.33"/ 110 mm	BORE-4.02"/ 102 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-5.00"/ 127 mm
3 cyl	3.152	3.164	3.179 / 3029*	
4 cyl	4.202	4.219	4.239 / 4039*	4.276 / 4045*
6 cyl	6.303	6.329	6.359 / 6059*	6.414 / 6068*

400 Series: *Naturally Aspirated & Turbo Charged*

NUMBER OF CYLINDERS	BORE-4.25"/ 108 mm STROKE-4.75"/ 121 mm	BORE-4.56"/ 116 mm STROKE-4.75"/ 121 mm
4 cyl	4.270	
6 cyl	6.404	6.466 / 6076*

500 Series: *Naturally Aspirated & Turbo Charged*

NUMBER OF CYLINDERS	BORE-4.75"/ 121 mm STROKE-5.00"/ 127 mm	BORE-5.12"/ 130 mm STROKE-5.00"/ 127 mm
6 cyl	6.531	6.619 / 6101*

PowerTech Series: *Naturally Aspirated & Turbo Charged*

NUMBER OF CYLINDERS	BORE-4.19"/ 106.5 mm STROKE-4.33"/ 110 mm	BORE-4.19"/ 106.5 mm STROKE-5.00"/ 127 mm	BORE-4.56"/ 116 mm STROKE-5.06"/ 129 mm	BORE-4.664"/ 118.35 mm STROKE-5.40"/ 136 mm
3 cyl	3029 (2.9L)			
4 cyl		4045 (4.5L)		
6 cyl		6068 (6.8L)	6081 (8.1L)	6090 (9.0L)

**** Liter designated engines.***

John Deere Data Plate Information

In as much as possible please provide your John Deere data information to your Maxiforce Sales representative.

The John Deere Data Plate is divided into the ESN (Engine Serial Number) and the Engine Application Data. Below are examples:

1) ***Engine Serial Number:*** TO 4045T 123456
1 2 3

1- Factory Origin
2- Engine Model
3- Sequential Serial Number

2) ***Engine Application Data:*** TO 4045T F150. This information is used to identify the OEM relationship or equipment application. Very Important!

Maxiforce Engine Kit Composition for John Deere® Applications

Engine Overhaul Kits Include: Piston-Liner Kits or Piston Kits, Main Bearings, Connecting Rod Bearings, Thrust Bearings, Front Crankshaft Seals, Rear Crankshaft Seals, Overhaul Gasket Set, Cam or Balance Shaft Bushings, Connecting Rod Bushings, Injector Grommets, and Connecting Rod Bolts.

Engine In Frame Kits Include: Piston-liner kits or Piston Kits, Main Bearings, Connecting Rod Bearings, Thrust Bearings, Head Gasket Set, Oil Pan Gasket Set and Connecting Rod Bolts.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

Engine & Equipment Application Chart

300 Series (OEM)

MODEL	COMMENTS	PAGE
3.152	O'rings on liner	T01
3.152	O'rings on block	T02
3.164	Small pin, O'rings on liner	T03
3.164	Small pin, O'rings on block	T04
3.164	Large pin, O'rings on block	T05
3.179D		T06
3029D	Liter designated	T07
3.179T		T08
3029T	Liter designated	T09
4.202	O'rings on liner	T10
4.202	O'rings on block	T11
4.219	Small pin, O'rings on liner	T12
4.219	Small pin, O'rings on block	T13
4.219	Large pin, O'rings on block	T14
4.239D		T15
4039D	Liter designated	T16
4.239T	See Con.Rod (m)	T17
4039T	Liter designated	T18
4.276D	Small pin	T19
4.276D	Large pin	T20
4045D	Liter designated	T21
4.276T		T22
4045T	Liter designated	T23
6.303	O'rings on liner	T24
6.303	O'rings on block	T25
6.329	Small pin, O'rings on liner	T26
6.329	Small pin, O'rings on block	T27
6.329	Large pin, O'rings on block	T28
6.359D		T29
6059D	Liter designated	T30
6.359T		T31
6059T	Liter designated	T32
6.414D	Large pin	T33
6068D	Liter designated, Large pin	T34
6.414T		T35
6068T	Liter designated	T36

400 Series

MODEL	COMMENTS	PAGE
4.270	See block (m)	T37
4.270	See block (m)	T38
4.270	Early power booster	T39
4.270	See block (m)	T40
6.404D	See block (m)	T41
6.404D	See block (m)	T42
6.404D	Early power booster	T43
6.404D	See block (m)	T44
6.404D	See block (m)	T45
6.404T/A	To 335,845	T46
6.404T/A	From 335,846	T47
6.466D	See Con.Rod (m)	T48
6.466A/T	See Con.Rod (m)	T49
6.466A/T	See Con.Rod (m)	T50
6.466A	See Con.Rod (m)	T51
6076T/A/H	Low Ring Piston	T52
6076T/A/H	High Ring Piston	T53

500 Series

MODEL	COMMENTS	PAGE
6.531D	See Con.Rod (m)	T54
6.531T	See Con.Rod (m)	T55
6.531A	See Con.Rod (m)	T56
6.619A/T	Early	T57
6.619A/T	Mid	T58
6.619A/T	Late	T59
6.101A/T	To 499,999	T60

John Deere® / Yanmar®

MODEL	COMMENTS	PAGE
3TNE84	84mm Bore Non Turbo	T61
4TNE84	84mm Bore Non Turbo	T62
3TNE88	88mm Bore Non Turbo	T63
4TNE88	88mm Bore Non Turbo	T64
3TNV84	84mm Bore Non Turbo & Turbo	T65
4TNV84	84mm Bore Non Turbo	T66
4TNV84T	84mm Bore Turbo	T67
3TNV88	88mm Bore Non Turbo	T68
4TNV88	88mm Bore Non Turbo	T69

PowerTech

MODEL	COMMENTS	PAGE
3029 (2.9D)	Piston (m) RE61467	T70
3029D/T	Piston (m) RE520573	T71
3029 (2.9T)	Piston (m) RE61270	T72
3029 (2.9T)	Piston (m) RE500211	T73
4045D (4.5D)	Piston (m) RE59279/RE505101	T74
4045T (4.5T)	Piston (m) RE59277/RE505100	T75
4045 (4.5T/H)	Piston (m) RE55512/RE505102	T76
4045 (4.5T/H)	Piston (m) RE527039	T77
4045 (4.5T/H)	Piston (m) RE521616	T78
4045 (4.5T/H)	Piston (m) RE521616	T79
4045 (4.5T/H)	Piston (m) RE521616	T80
4045 (4.5T/H)	Piston (m) RE521616	T81
6068D (6.8D)	Piston (m) RE59279/RE505101	T82
6068T (6.8T)	Piston (m) RE59277/RE505100	T83
6068 (6.8T/H)	Piston (m) RE55512/RE505102	T84
6068 (6.8T/H)	Piston (m) RE527039	T85
6068 (6.8T/H)	Piston (m) RE521616	T86
6068 (6.8T/H)	Piston (m) RE521616	T87
6068 (6.8T/H)	Piston (m) RE521616	T88
6068 (6.8T/H)	Piston (m) RE521616	T89
6081 (8.1L)	High Compression Piston	T90
6081 (8.1L)	Low Compression Piston	T91
6081 (8.1L)	High Compression Piston	T92
6081 (8.1L)	Low Compression Piston	T93
6090 (9.0L)	Tier 2 and Tier 3	T94

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
250D	Bell Dump Trucks		T94
300D	Bell Dump Trucks		T94
380GLC	Excavator	*	T94
350DLC	Excavator	*	T94
350GLC	Excavator	*	T94
499	Cotton Picker	4,219 Eng	T13
499	Cotton Picker	4,219 Eng	T14
499	Cotton Picker	6,329 Eng	T27
499	Cotton Picker	6,329 Eng	T28
699	Cotton Picker		T26
699	Cotton Picker		T27
699	Cotton Picker	*	T44
699	Cotton Picker	*	T45
703JH	Tracked Harvester	*	T94
724K	Loaders		T94
744K	Loaders		T94
753JH	Tracked Harvester	*	T94
759J	Tracked Harvester	*	T94
759JH	Tracked Harvester	*	T94
770G	Motor Grader	*	T94
770GP	Motor Grader	*	T94
790	Utility Tractor		T61
820	Farm Tractor	*	T01
820	Farm Tractor	*	T02
830	Farm Tractor		T02
850J	Crawlers		T94
870G	Motor Grader	*	T94
870G	Motor Graders	*	T94
872G	Motor Graders	*	T94
872GP	Motor Graders	*	T94
903K	Tracked Feller Buncher	*	T94
903KH	Tracked Harvester	*	T94
909KH	Tracked Harvester	*	T94
940	Combine		T15
942	Combine		T15
945	Combine		T17
950	Combine		T28
952	Combine		T17
953K	Tracked Feller Buncher	*	T94
955	Combine		T29
960	Combine		T28
975	Combine		T29
985	Combine		T29
990	Utility Tractor		T62
990	Utility Tractor		T66
1020	Farm Tractor		T01
1020	Farm Tractor		T02
1030	Farm Tractor	*	T01
1030	Farm Tractor	*	T02
1035	Farm Tractor		T14
1040	Farm Tractor		T06

MODEL	DESCRIPTION	COMMENTS	PAGE
1052	Combine		T17
1055	Combine		T29
1075	Combine		T29
1130	Farm Tractor		T14
1140	Farm Tractor		T06
1155	Combine		T17
1185	Combine		T53
1270D	Harvester		T90
1270D	Wheeled Harvester	*	T94
1270D	Harvester	*	T94
1270D	Harvester	*	T94
1270E	Harvester	*	T94
1270E	Wheeled Harvester	*	T94
1350	Farm Tractor		T06
1420	Farm Tractor		T04
1450CWS	Combine		T85
1450WTS	Combine		T85
1470	Combine		T85
1470D	Harvester		T90
1470D	Wheeled Harvester	*	T94
1470E	Harvester	*	T94
1505	Prof Mower		T69
1515	Prof Mower		T69
1520	Farm Tractor	*	T03
1520	Farm Tractor	*	T04
1530	Farm Tractor		T04
1530	Farm Tractor		T05
1550	Farm Tractor		T06
1550CWS	Combine		T85
1550WTS	Combine		T85
1565	Mower		T63
1565	Front Mower		T68
1600	Mower		T64
1600	Series II Mower		T67
1620	Mower		T64
1630	Farm Tractor		T06
1635	Farm Tractor		T14
1640	Farm Tractor		T15
1654	Tractor		T85
1750	Farm Tractor		T06
1840	Farm Tractor		T15
1850	Farm Tractor		T06
1854	Tractor		T85
1905	Reel Mower		T69
2020	Farm Tractor	*	T10
2020	Farm Tractor	*	T11
2030	Farm Tractor	*	T13
2030	Farm Tractor	*	T14
2035	Farm Tractor		T14
2040	Farm Tractor	*	T05
2040	Farm Tractor	*	T06

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Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
2054	Tractor		**T85**
2066	Combine		**T53**
2120	Farm Tractor	*	**T11**
2120	Farm Tractor	*	**T13**
2120	Farm Tractor	*	**T14**
2130	Farm Tractor		**T15**
2135	Farm Tractor		**T15**
2140	Farm Tractor		**T17**
2150	Farm Tractor		**T06**
2155	Farm Tractor		**T06**
2240	Farm Tractor		**T06**
2250	Farm Tractor		**T15**
2256	Combine		**T90**
2258	Combine		**T90**
2264	Combine	(S.N. 068584-)	**T90**
2266	Combine	(S.N. -068583)	**T90**
2266	Combine		**T91**
2270	Windrower	*	**T13**
2270	Windrower	*	**T14**
2280	Windrower		**T14**
2320	Windrower	*	**T13**
2320	Windrower	*	**T14**
2330	Farm Tractor		**T05**
2350	Farm Tractor		**T15**
2355	Farm Tractor		**T15**
2355CS	Farm Tractor	*	**T15**
2355 NCS	Farm Tractor		**T08**
2355 NTSS	Farm Tractor		**T08**
2360	Windrower		**T15**
2420	Windrower		**T13**
2440	Farm Tractor		**T14**
2450	Farm Tractor		**T15**
2450	Farm Tractor		**T17**
2510	Farm Tractor	*	**T10**
2510	Farm Tractor	*	**T11**
2520	Farm Tractor		**T12**
2530	Farm Tractor		**T14**
2535	Farm Tractor	Mexico	**T15**
2550	Farm Tractor		**T15**
2555	Farm Tractor		**T17**
2555CS	Farm Tractor		**T15**
2555 TSS	Farm Tractor		**T17**
2630	Farm Tractor		**T19**
2640	Farm Tractor		**T19**
2650	Farm Tractor		**T15**
2650	Farm Tractor		**T17**
2720	Utility Tractor		**T69**
2730	Farm Tractor	Argentina	**T15**
2735	Farm Tractor	Mexico	**T15**
2750	Farm Tractor		**T17**
2755	Farm Tractor		**T17**

MODEL	DESCRIPTION	COMMENTS	PAGE
2755 CS	Farm Tractor		**T17**
2755 TSS	Farm Tractor		**T17**
2840	Farm Tractor		**T28**
2850	Farm Tractor		**T17**
2854	Tractor	*	**T94**
2855	Farm Tractor		**T17**
2855N	Farm Tractor		**T17**
2940	Farm Tractor		**T29**
2950	Farm Tractor		**T29**
2954D	Forestry Sw Machine		**T86**
2955	Farm Tractor	*	**T29**
2955	Farm Tractor	*	**T30**
3010	Farm Tractor		**T38**
3010	Farm Tractor		**T39**
3020	Farm Tractor	*	**T37**
3020	Farm Tractor	*	**T38**
3020	Farm Tractor	*	**T39**
3020	Farm Tractor	*	**T40**
3032E	Utility Tractor		**T68**
3036E	Utility Tractor		**T65**
3038E	Utility Tractor		**T65**
3040	Farm Tractor		**T29**
3050	Farm Tractor		**T29**
3100	Farm Tractor		**T70**
3120	Farm Tractor	*	**T26**
3120	Farm Tractor	*	**T27**
3120	Utility Tractor		**T65**
3130	Farm Tractor		**T28**
3140	Farm Tractor	Spain	**T29**
3140C	Farm Tractor	*	**T31**
3140C	Farm Tractor	*	**T32**
3150	Farm Tractor		**T29**
3155	Farm Tractor	*	**T29**
3155	Farm Tractor	*	**T30**
3155TSS	Farm Tractor	*	**T29**
3155TSS	Farm Tractor	*	**T30**
3203	Utility Tractor		**T65**
3225B	Mower		**T61**
3225C	Fairway Mowers		**T65**
3235	Mower		**T61**
3235A	Mower		**T61**
3235B	Mower		**T61**
3235C	Fairway Mowers		**T65**
3245C	Rotary Deck Mower		**T65**
3255	Farm Tractor	*	**T29**
3255	Farm Tractor	*	**T30**
3300	Combine		**T14**
3320	Utility Tractor		**T68**
3330	Farm Tractor	Argentina	**T15**
3350	Farm Tractor		**T29**
3410	Farm Tractor		**T75**

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
3410X	Farm Tractor		T75
3420	Farm Tractor		T25
3430	Windrower	Early	T15
3430	Windrower	Late	T17
3510	Cane Harvester	(NW S.N > 060036)	T91
3510	Cane Harvester	(NW S.N 060037>)	T91
3510	Cane Harvester	SN 070301-070460	T91
3510	Cane Harvester	SN 080401-080626	T91
3520	Utility Tractor		T65
3520	Sugar Cane Harvester	*	T94
3522	Sugar Cane Harvester	*	T94
3530	Farm Tractor		T28
3540	Farm Tractor		T31
3550	Farm Tractor		T31
3640	Farm Tractor	*	T29
3640	Farm Tractor	*	T30
3650	Farm Tractor		T30
3720	Utility Tractor		T65
3754D	Forestry SW machine	*	T94
3830	Windrower		T17
4000	Farm Tractor		T44
4010	Farm Tractor	*	T41
4010	Farm Tractor	*	T42
4010	Farm Tractor	*	T43
4010	Farm Tractor	*	T44
4020	Farm Tractor	*	T41
4020	Farm Tractor	*	T42
4020	Farm Tractor	*	T43
4020	Farm Tractor	*	T44
4030	Farm Tractor	6.329 Eng	T27
4030	Farm Tractor	6.329 Eng	T28
4040	Farm Tractor		T45
4050	Farm Tractor		T31
4050	Farm Tractor		T48
4055	Farm Tractor		T53
4105	Utility Tractor		T65
4230	Farm Tractor		T45
4240	Farm Tractor		T48
4250	Farm Tractor		T50
4255	Farm Tractor		T53
4300	Utility Tractor		T61
4310	Utility Tractor		T61
4320	Combine	*	T46
4320	Combine	*	T47
4400	Combine		T28
4400	Utility Tractor		T63
4405	Utility Tractor		T69
4410	Utility Tractor		T63
4420	Farm Tractor	*	T27
4420	Farm Tractor	*	T29
4425	Farm Tractor		T28

MODEL	DESCRIPTION	COMMENTS	PAGE
4430	Farm Tractor		T47
4440	Farm Tractor	*	T49
4440	Farm Tractor	*	T50
4450	Farm Tractor		T50
4455	Farm Tractor		T53
4475	Skid Steer		T61
4500	Utility Tractor		T62
4510	Utility Tractor		T62
4520	Farm Tractor		T46
4530	Farm Tractor		T29
4555	Farm Tractor		T53
4560	Farm Tractor		T53
4600	Utility Tractor		T62
4610	Utility Tractor		T62
4620	Farm Tractor		T46
4630	Farm Tractor		T47
4640	Farm Tractor	*	T49
4640	Farm Tractor	*	T50
4650	Farm Tractor		T50
4700	Utility Tractor		T64
4700	Sprayer		T84
4710	Utility Tractor		T64
4730	Self Propelled Sprayer		T86
4755	Farm Tractor	*	T53
4760	Farm Tractor	*	T53
4830	Self Propelled Sprayer		T86
4840	Farm Tractor	*	T49
4840	Farm Tractor	*	T51
4850	Farm Tractor		T51
4890	Farm Tractor		T75
4895	Windrower		T75
4920	Sprayer		T91
4930	Self-Propelled Sprayer	*	T94
4940	Self-Propelled Sprayer	*	T94
4955	Farm Tractor		T52
4960	Farm Tractor		T52
5000	Farm Tractor		T06
5020	Farm Tractor		T54
5036C	Farm Tractor		T71
5038D	Farm Tractor		T71
5039C	Farm Tractor		T71
5039D	Farm Tractor		T71
5041C	Farm Tractor		T71
5042C	Farm Tractor		T71
5042D	Farm Tractor		T71
5045D	Farm Tractor		T71
5045E	Farm Tractor		T71
5047D	Farm Tractor		T71
5050D	Farm Tractor		T71
5050E	Farm Tractor		T71
5055E	Farm Tractor		T71

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Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
5060E	Farm Tractor		**T71**
5065E	Farm Tractor		**T71**
5075E	Farm Tractor		**T71**
5075EF	Farm Tractor		**T71**
5075M	Farm Tractor		**T71**
5080R	Tractor		**T77**
5080RN	Tractor		**T77**
5090R	Tractor		**T77**
5090RN	Tractor		**T77**
5100R	Tractor		**T77**
5100RN	Tractor		**T77**
5103	Farm Tractor		**T71**
5105	Farm Tractor		**T70**
5105M	Tractor		**T77**
5105ML	Tractor		**T77**
5200	Farm Tractor		**T07**
5200	Farm Tractor		**T70**
5203	Farm Tractor		**T71**
5205	Farm Tractor		**T70**
5210	Farm Tractor	*	**T70**
5220	Farm Tractor		**T70**
5300	Farm Tractor		**T07**
5300	Farm Tractor		**T70**
5303	Farm Tractor		**T71**
5310	Farm Tractor	*	**T70**
5310	Farm Tractor		**T71**
5310N	Farm Tractor	*	**T70**
5400	Farm Tractor		**T07**
5400	Farm Tractor		**T72**
5400N	Farm Tractor		**T72**
5403	Farm Tractor		**T71**
5410	Farm Tractor		**T71**
5410	Farm Tractor	*	**T74**
5415	Farm Tractor	*	**T74**
5415	Farm Tractor	*	**T75**
5420	Farm Tractor		**T74**
5420N	Farm Tractor		**T74**
5425	Farm Tractor		**T75**
5425N	Farm Tractor		**T75**
5430I	Sprayer		**T86**
5440	Farm Tractor	*	**T46**
5440	Farm Tractor	*	**T47**
5460	Farm Tractor		**T50**
5500	Farm Tractor		**T09**
5500N	Farm Tractor		**T18**
5510	Farm Tractor	*	**T74**
5510	Farm Tractor	*	**T75**
5510N	Farm Tractor		**T75**
5520	Farm Tractor		**T75**
5520N	Farm Tractor		**T75**
5525	Farm Tractor		**T75**

MODEL	DESCRIPTION	COMMENTS	PAGE
5525N	Farm Tractor		**T75**
5575	Skid Steer		**T63**
5600	Farm Tractor		**T16**
5610	Farm Tractor		**T71**
5615	Farm Tractor	*	**T74**
5615	Farm Tractor	*	**T75**
5625	Farm Tractor		**T75**
5625N	Farm Tractor		**T75**
5700	Farm Tractor		**T18**
5715	Farm Tractor	*	**T74**
5715	Farm Tractor	*	**T75**
5720	Forage Harvester	*	**T49**
5720	Forage Harvester	*	**T50**
5720	Forage Harvester	*	**T51**
5725	Farm Tractor	*	**T75**
5730	Forage Harvester	*	**T50**
5730	Forage Harvester	*	**T51**
6010	Farm Tractor	*	**T74**
6010	Farm Tractor	*	**T76**
6030	Farm Tractor	*	**T54**
6030	Farm Tractor	*	**T56**
6100	Farm Tractor		**T21**
6100D	Tractor		**T77**
6110	Farm Tractor		**T74**
6110	Farm Tractor		**T76**
6110D	Tractor		**T77**
6110L	Farm Tractor		**T76**
6115D	Tractor		**T77**
6125D	Tractor		**T77**
6130	Tractor		**T77**
6130D	Tractor		**T77**
6140D	Tractor		**T77**
6200	Farm Tractor		**T18**
6200L	Farm Tractor		**T18**
6205	Farm Tractor	*	**T82**
6210	Farm Tractor	*	**T76**
6210L	Farm Tractor		**T76**
6225	Tractor		**T85**
6230	Tractor		**T77**
6300	Farm Tractor		**T18**
6300L	Farm Tractor		**T18**
6310L	Farm Tractor		**T76**
6310S	Farm Tractor		**T76**
6325	Tractor		**T77**
6330	Tractor		**T77**
6400	Farm Tractor		**T23**
6400L	Farm Tractor		**T23**
6405	Farm Tractor		**T76**
6410	Farm Tractor	*	**T76**
6410L	Farm Tractor	*	**T76**
6410S	Farm Tractor	*	**T76**

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
6425	Tractor		T77
6430	Tractor		T77
6430	Tractor		T78
6500	Farm Tractor		T23
6500L	Farm Tractor		T23
6505	Farm Tractor	*	T82
6506	Farm Tractor		T34
6510	Farm Tractor	*	T82
6510L	Farm Tractor	*	T76
6515	Farm Tractor	*	T82
6520	Farm Tractor	*	T82
6525	Tractor		T85
6530	Tractor		T85
6534	Tractor		T77
6534	Tractor		T78
6600	Farm Tractor	*	T32
6600	Combine		T45
6600	Combine		T47
6602	Combine		T15
6602	Combine		T50
6603	Farm Tractor		T83
6605	Farm Tractor		T76
6605	Farm Tractor		T84
6610	Farm Tractor	*	T74
6610	Farm Tractor	*	T76
6610	Forage Harvester	*	T91
6610S	Farm Tractor	*	T76
6615	Farm Tractor		T84
6620	Combine	*	T48
6620	Combine	*	T49
6620	Combine	*	T50
6622	Farm Tractor	*	T49
6622	Farm Tractor	*	T50
6630	Tractor		T85
6650	Forage Harvester		T91
6675	Skid Steer		T62
6700	Sprayer	*	T23
6700	Sprayer	*	T75
6715	Farm Tractor	*	T84
6800	Farm Tractor		T36
6830	Tractor		T85
6900	Farm Tractor		T36
6930	Tractor		T85
7130	Tractor		T78
7130	Tractor		T85
7180	Self-Propelled Forage Harv	*	T94
7195J	Tractor		T86
7200	Farm Tractor	*	T31
7200	Farm Tractor	*	T32
7200	Forage Harvester	*	T91
7200	SPFH (EUROPE)	*	T94

MODEL	DESCRIPTION	COMMENTS	PAGE
7210	Farm Tractor	*	T84
7210J	Tractor		T86
7225J	Tractor		T86
7230	Tractor		T85
7250	Self-Propelled Forage Harv	*	T94
7330	Tractor		T85
7400	Farm Tractor		T36
7400	Mower		T65
7405	Farm Tractor		T84
7410	Farm Tractor	*	T36
7410	Farm Tractor	*	T84
7430	Tractor		T85
7430E	Tractor		T86
7440	Cotton Picker		T29
7445	Cotton Picker	*	T29
7445	Cotton Picker	*	T31
7445	Cotton Picker	*	T32
7455	Cotton Picker		T83
7460	Cotton Picker		T83
7484	Cotton Picker	*	T31
7484	Cotton Picker	*	T32
7500	Forage Harvester		T36
7500	Mower		T65
7510	Farm Tractor		T84
7520	Farm Tractor		T56
7530	Tractor		T86
7530	Tractor		T87
7600	Farm Tractor		T36
7610	Farm Tractor		T84
7630	Tractor		T86
7660	Cotton Picker	*	T94
7700	Combine	*	T45
7700	Combine	*	T47
7700	Farm Tractor		T53
7700	Mower		T65
7710	Combine		T90
7720	Combine	*	T49
7720	Combine	*	T50
7730	Tractor		T86
7775	Skid Steer		T64
7800	Farm Tractor		T53
7810	Farm Tractor		T90
7820	Farm Tractor		T90
7830	Tractor		T86
7920	Farm Tractor		T90
7930	Tractor		T86
8000	Mower		T65
8030	HDMFWD Tractor Atlas	*	T94
8030	ILS Tractor Atlas	*	T94
8030	Tractor Atlas	*	T94
8100	Farm Tractor		T53

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Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
8100	Farm Tractor		**T90**
8100T	Farm Tractor		**T90**
8110	Farm Tractor		**T90**
8110T	Farm Tractor		**T90**
8120	Farm Tractor		**T90**
8120T	Farm Tractor		**T90**
8130	AT2 ILS Tractor	*	**T94**
8130	AT2 MFWD Tractor	*	**T94**
8130	HDMFWD Tractor	*	**T94**
8130	ILS Tractor	*	**T94**
8130	MFWD Tractor	*	**T94**
8130	Tractor	*	**T94**
8200	Farm Tractor		**T53**
8200	Farm Tractor		**T90**
8200T	Farm Tractor		**T90**
8210	Farm Tractor		**T90**
8210T	Farm Tractor		**T90**
8220	Farm Tractor		**T90**
8220T	Farm Tractor		**T90**
8225R	ILS Tractor	*	**T94**
8225R	MFWD Tractor	*	**T94**
8225R	Tractor	*	**T94**
8230	ILS Tractor	*	**T94**
8230	HDMFWD Tractor	*	**T94**
8230	MFWD Tractor	*	**T94**
8230	ILSMFWD Tractor	*	**T94**
8230T	Tractor	*	**T94**
8235R	Tractor (Worldwide)	*	**T94**
8245R	HDMFWD Tractor	*	**T94**
8245R	Tractor	*	**T94**
8245R	ILS Tractor	*	**T94**
8245R	HDMFWD Tractor	*	**T94**
8260R	Tractor (Worldwide)	*	**T94**
8270R	HDMFWD Tractor	*	**T94**
8270R	ILS Tractor	*	**T94**
8270R	HDMFWD Tractor	*	**T94**
8270R	Tractor	*	**T94**
8285R	Tractor (Worldwide)	*	**T94**
8295R	HDMFWD Tractor	*	**T94**
8295R	ILS Tractor	*	**T94**
8295R	MFWD Tractor	*	**T94**
8295RT	Tractor	*	**T94**
8300	Farm Tractor		**T53**
8300	Farm Tractor		**T90**
8300T	Farm Tractor		**T90**
8310	Farm Tractor		**T90**
8310R	Tractor (Worldwide)	*	**T94**
8310RT	Tractor (Worldwide)	*	**T94**
8310T	Farm Tractor		**T90**
8320	Farm Tractor		**T90**
8320R	MFWD Tractor	*	**T94**

MODEL	DESCRIPTION	COMMENTS	PAGE
8320R	Tractor	*	**T94**
8320RT	Tractor	*	**T94**
8320T	Farm Tractor		**T90**
8330	ILS Tractor	*	**T94**
8330	Tractor	*	**T94**
8330	HD MFWD Tractor	*	**T94**
8330	ILSMFWD Tractor	*	**T94**
8330T	Tractor	*	**T94**
8335R	Tractor (Worldwide)	*	**T94**
8335RT	Tractor (Worldwide)	*	**T94**
8345R	ILS Tractor	*	**T94**
8345R	MFWD Tractor	*	**T94**
8345R	Tractor	*	**T94**
8345RT	Tractor	*	**T94**
8400	Mower		**T65**
8400	Farm Tractor		**T90**
8400	Farm Tractor		**T91**
8400T	Farm Tractor		**T90**
8410	Farm Tractor		**T91**
8410T	Farm Tractor		**T91**
8420	Farm Tractor		**T91**
8420T	Farm Tractor		**T91**
8430	Farm Tractor	*	**T49**
8430	Farm Tractor	*	**T51**
8430	MFWD Tractor	*	**T94**
8430	HDMFWD Tractor	*	**T94**
8430	ILS Tractor	*	**T94**
8430T	Tractor	*	**T94**
8440	Farm Tractor	*	**T49**
8440	Farm Tractor	*	**T51**
8450	Farm Tractor	*	**T49**
8450	Farm Tractor	*	**T51**
8500	Mower		**T65**
8520	Farm Tractor		**T91**
8520T	Farm Tractor		**T91**
8530	MFWD Tractor	*	**T94**
8530	HDMFWD Tractor	*	**T94**
8530	ILS Tractor	*	**T94**
8560	Farm Tractor	*	**T52**
8570	Farm Tractor	*	**T52**
8630	Farm Tractor	ESN > 033814	**T57**
8630	Farm Tractor	ESN 033815-049059	**T58**
8630	Farm Tractor	ESN 049060 >	**T59**
8640	Farm Tractor	ESN 033815-049059	**T58**
8640	Farm Tractor	ESN 049060 >	**T59**
8650	Farm Tractor	ESN 033815-049059	**T58**
8650	Farm Tractor	ESN 049060 >	**T59**
8700	Mower		**T65**
8760	Combine		**T60**
8800	Mower		**T65**
8820	Combine	*	**T49**

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
8820	Combine	*	T51
8870	Farm Tractor		T60
9100	Farm Tractor		T90
9100	Farm Tractor		T91
9120	Farm Tractor		T91
9230	Tractor	*	T94
9400	Combine	*	T31
9400	Combine	*	T32
9400	Combine	*	T36
9410	Combine		T84
9500	Combine		T53
9510	Combine		T90
9510 SH	Combine		T90
9540i WTS	Combine		T86
9550	Combine		T90
9550 SH	Combine		T90
9560 STS	Sf Propelled Combine		T86
9560 STS	Combine		T87
9560 STS	Combine	*	T88
9560 STS	Combine	*	T94
9560i STS	Combine	*	T94
9560i WTS	Combine	(S.N > 080015)	T90
9570 STS	Sf Propelled Combine		T86
9580	Combine	*	T91
9580	Combine		T94
9580 WTS	Combine	(S.N > 080015)	T90
9580 WTS	Combine	(S.N > 080015)	T91
9580i WTS	Combine		T86
9580i WTS	Combine	(S.N > 080015)	T90
9600	Combine		T53
9610	Combine		T91
9640	Combine	*	T85
9640	Combine		T94
9640 WTS	Combine		T90
9640 WTS	Combine		T91
9640i WTS	Combine		T90
9640i WTS	Combine		T91
9650	Combine		T91
9650 CTS	Combine		T91
9650 STS	Combine		T91
9660	Combine		T91
9660	Combine	*	T94
9660 CTS	Combine		T91
9660 STS	Combine		T91
9660 STS	Combine		T94
9660 WTS	Combine		T91
9660i WTS	Combine		T91
9670 STS	Combine		T94
9680	Combine	*	T94
9680 WTS	Combine		T91
9680i WTS	Combine		T91

MODEL	DESCRIPTION	COMMENTS	PAGE
9750 STS	Combine		T91
9760 STS	Combine		T91
9760 STS	Combine		T94
9770 STS	Combine		T94
9780 CTS	Combine	(SN 071443-072697)	T91
9780 CTS	Combine	(S.N 072800 >)	T91
9780i CTS	Combine	(S.N 072800 >)	T91
9850i WTS	Combine	(S.N > 080015)	T91
9900	Cotton Picker	*	T29
9900	Cotton Picker	*	T30
9910	Cotton Picker	*	T29
9910	Cotton Picker	*	T30
9920	Cotton Picker	*	T29
9920	Cotton Picker	*	T30
9930	Cotton Picker	*	T31
9930	Cotton Picker	*	T32
9935	Cotton Picker		T83
9940	Cotton Picker	*	T49
9940	Cotton Picker	*	T50
9940	Cotton Picker	*	T51
9950	Cotton Picker	*	T50
9950	Cotton Picker	*	T51
9960	Cotton Picker		T53
9965	Combine		T53
9970	Cotton Picker		T90
9976	Cotton Picker		T91
9986	Cotton Picker		T91
9996	Cotton Picker		T91
C670	Combine	*	T94
CH3510	Cane Harvester		T91
CTS	Combine		T91
CTS II	Combine		T91
CTS II	Combine	(S.N 675000 >)	T91
S550 STS	Sf Propelled Combine		T86
S560	Combine		T94
S660 STS	Combine		T94
S670 STS	Combine		T94
SE6100	Tractor		T21
SE6200	Tractor		T18
SE6300	Tractor		T18
SE6400	Tractor		T23
SE6510	Tractor		T82
SE6520	Tractor		T82
T550	Combine		T86
T560	Combine		T94
T660	Combine		T94
T670	Combine		T94
W330	Combine		T85
W540	Combine		T86
W650	Combine		T94
W660	Combine		T94

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Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
27D	Compact Excavator		T68
35D	Compact Excavator		T68
35G	Compact Excavator		T68
50D	Compact Excavator		T69
70	Excavator		T15
70D	Excavator	*	T15
70D	Excavator	*	T16
110	Loader Backhoe		T62
110	Loader Backhoe		T69
120	Loader Backhoe		T76
200LC	Excavator		T84
200LL	Excavator		T84
210C	Loader Backhoe		T15
210D	Loader Backhoe		T16
210LE	Loader Backhoe		T74
230LC	Excavator		T84
230LCR	Excavator		T75
240DLC	Excavator		T86
244E	Wheel Loader		T15
250GLC	Excavator		T86
270DLC	Excavator		T86
270LC	Excavator		T84
290D	Excavator	*	T15
290D	Excavator	*	T16
290GLC	Excavator		T86
300	Loader Backhoe	*	T01
300	Loader Backhoe	*	T02
300A	Loader Backhoe	*	T01
300A	Loader Backhoe	*	T02
300B	Loader Backhoe		T02
300D	Loader Backhoe		T18
301	Loader Backhoe		T02
301A	Loader Backhoe	*	T02
301A	Loader Backhoe	*	T05
302	Loader Backhoe	*	T03
302	Loader Backhoe	*	T05
302A	Loader Backhoe	*	T03
302A	Loader Backhoe	*	T05
310	Loader Backhoe		T05
310	Loader Backhoe		T14
310B	Loader Backhoe		T14
310C	Loader Backhoe	*	T15
310C	Loader Backhoe	*	T16
310C	Loader Backhoe	*	T17
310C	Loader Backhoe	*	T18
310D	Loader Backhoe	*	T15
310D	Loader Backhoe	*	T16
310D	Loader Backhoe	*	T17
310E	Loader Backhoe	*	T74
310E	Loader Backhoe	*	T75

MODEL	DESCRIPTION	COMMENTS	PAGE
310G	Loader Backhoe		T75
310SE	Loader Backhoe	*	T75
310SG	Loader Backhoe	*	T75
315C	Loader Backhoe	*	T15
315C	Loader Backhoe	*	T16
315C	Loader Backhoe	*	T17
315C	Loader Backhoe	*	T18
315D	Loader Backhoe	*	T16
315D	Loader Backhoe	*	T17
315D	Loader Backhoe	*	T18
315SE	Loader Backhoe		T75
315SG	Loader Backhoe		T75
330 LC	Excavator		T90
330 LCR	Excavator		T90
330C LC	Excavator		T90
335D	Knuckleboom Log Loader		T77
344E	Wheel Loader	*	T20
344E	Wheel Loader	*	T21
344G	Wheel Loader	*	T22
344G	Wheel Loader	*	T23
344H	Wheel Loader		T75
344J	Loader		T77
350A	Crawler Dozer	*	T01
350A	Crawler Dozer	*	T02
350B	Crawler Dozer	*	T01
350B	Crawler Dozer	*	T02
350B	Crawler Dozer	*	T04
350B	Crawler Dozer	*	T05
350C	Crawler Dozer		T05
350D	Crawler Dozer		T05
350D	Crawler Dozer		T06
355D	Crawler Dozer		T06
370	Excavator		T90
370 C	Excavator		T90
400	Loader Backhoe	*	T10
400	Loader Backhoe	*	T11
400G	Crawler Dozer	*	T15
400G	Crawler Dozer	*	T16
401	Loader Backhoe		T13
401A	Loader Backhoe		T13
401B	Loader Backhoe		T14
401C	Loader Backhoe		T14
401D	Loader Backhoe		T14
410	Loader Backhoe		T14
410B	Loader Backhoe		T14
410C	Loader Backhoe	*	T19
410C	Loader Backhoe	*	T20
410C	Loader Backhoe	*	T21
410C	Loader Backhoe	*	T22
410C	Loader Backhoe	*	T23

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
410D	Loader Backhoe	*	T20
410D	Loader Backhoe	*	T21
410D	Loader Backhoe	*	T22
410D	Loader Backhoe	*	T23
410E	Loader Backhoe		T75
410G	Loader Backhoe		T75
410J	Loader Backhoe		T75
415B	Loader Backhoe		T15
415C	Loader Backhoe		T15
437D	Knuckleboom Log Loader		T77
444C	Wheel Loader		T28
444CH	Wheel Loader		T28
444D	Wheel Loader	*	T28
444D	Wheel Loader	*	T29
444D	Wheel Loader		T30
444D	Wheel Loader		T31
444D	Wheel Loader		T32
444E	Wheel Loader	*	T22
444E	Wheel Loader	*	T23
444G	Wheel Loader	*	T22
444G	Wheel Loader	*	T23
444H	Wheel Loader		T76
444HCL	Wheel Loader		T76
450	Crawler Dozer		T10
450A	Crawler Dozer		T13
450B	Crawler Dozer		T13
450C	Crawler Dozer		T14
450D	Crawler Dozer		T14
450E	Crawler Dozer	*	T20
450E	Crawler Dozer	*	T21
450E	Crawler Dozer	*	T22
450E	Crawler Dozer	*	T23
450G	Crawler Dozer	*	T20
450G	Crawler Dozer	*	T21
450G	Crawler Dozer	*	T22
450G	Crawler Dozer	*	T23
450G	Crawler Dozer	*	T76
450H	Crawler Dozer	*	T74
450H	Crawler Dozer	*	T75
455D	Crawler Dozer		T14
455E	Crawler Dozer	*	T20
455E	Crawler Dozer	*	T21
455E	Crawler Dozer	*	T22
455E	Crawler Dozer	*	T23
455G	Crawler Dozer	*	T20
455G	Crawler Dozer	*	T22
455G	Crawler Dozer	*	T23
455G	Crawler Dozer	*	T76
490	Excavator		T15
490D	Excavator	*	T20
490D	Excavator	*	T21
490E	Excavator	*	T22
490E	Excavator	*	T23
493D	Excavator	*	T20
493D	Excavator	*	T21
495D	Excavator	*	T22
495D	Excavator	*	T23
500	Loader Backhoe	*	T37
500	Loader Backhoe	*	T38
500	Loader Backhoe	*	T39
500A	Loader Backhoe	*	T37
500A	Loader Backhoe	*	T38
500A	Loader Backhoe	*	T39
500A	Loader Backhoe	*	T40
500B	Loader Backhoe		T38
500B	Loader Backhoe		T39
500B	Loader Backhoe		T40
500C	Loader Backhoe		T38
500C	Loader Backhoe		T39
500C	Loader Backhoe		T40
510	Loader Backhoe		T38
510	Loader Backhoe		T39
510	Loader Backhoe		T40
510B	Loader Backhoe	*	T20
510B	Loader Backhoe	*	T21
510C	Loader Backhoe	*	T22
510C	Loader Backhoe	*	T23
510D	Loader Backhoe	*	T23
515B	Loader Backhoe	*	T15
515B	Loader Backhoe	*	T16
515B	Loader Backhoe	*	T17
515B	Loader Backhoe	*	T18
530 B	Log Loader		T90
535	Log Loader		T90
544	Wheel Loader	*	T24
544	Wheel Loader	*	T25
544A	Wheel Loader	*	T27
544A	Wheel Loader	*	T28
544B	Wheel Loader	*	T35
544B	Wheel Loader	*	T36
544C	Wheel Loader	*	T33
544C	Wheel Loader	*	T35
544C	Wheel Loader	*	T36
544D	Wheel Loader	*	T35
544D	Wheel Loader	*	T36
544E	Wheel Loader	*	T31
544E	Wheel Loader	*	T32
544EH	Wheel Loader	*	T31
544EH	Wheel Loader	*	T32
544G	Wheel Loader	*	T31

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Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
544G	Wheel Loader	*	T32
544H	Wheel Loader		T84
544HLL	Wheel Loader		T84
550	Crawler Dozer	*	T22
550	Crawler Dozer	*	T23
550A	Crawler Dozer	*	T22
550A	Crawler Dozer	*	T23
550B	Crawler Dozer	*	T22
550B	Crawler Dozer	*	T23
550G	Crawler Dozer	*	T22
550G	Crawler Dozer	*	T23
550G	Crawler Dozer	*	T76
550H	Crawler Dozer	*	T74
550H	Crawler Dozer	*	T75
550H	Crawler Dozer	*	T76
555	Crawler Dozer	*	T22
555	Crawler Dozer	*	T23
555A	Crawler Dozer	*	T22
555A	Crawler Dozer	*	T23
555B	Crawler Dozer	*	T22
555B	Crawler Dozer	*	T23
555G	Crawler Dozer	*	T22
555G	Crawler Dozer	*	T23
555G	Crawler Dozer	*	T76
570A	Motor Grader	*	T27
570A	Motor Grader	*	T28
570B	Motor Grader	*	T29
570B	Motor Grader	*	T30
590D	Excavator	*	T22
590D	Excavator	*	T23
595	Excavator	*	T22
595D	Excavator	*	T22
595D	Excavator	*	T23
600	Loader Backhoe	*	T44
610B	Loader Backhoe	*	T22
610B	Loader Backhoe	*	T23
610C	Loader Backhoe	*	T22
610C	Loader Backhoe	*	T23
624E	Wheel Loader	*	T35
624E	Wheel Loader	*	T36
624EH	Wheel Loader	*	T35
624EH	Wheel Loader	*	T36
624G	Wheel Loader	*	T35
624G	Wheel Loader	*	T36
624H	Wheel Loader		T84
624HLL	Wheel Loader		T84
624K	Loader		T86
624KR	Loader		T86
644	Wheel Loader		T46
644A	Wheel Loader		T46

MODEL	DESCRIPTION	COMMENTS	PAGE
644B	Wheel Loader		T55
644C	Wheel Loader	*	T50
644C	Wheel Loader	*	T51
644D	Wheel Loader		T49
644E	Wheel Loader	*	T53
644ER	Wheel Loader	*	T53
644G	Wheel Loader	*	T53
644 G	Loader		T90
644GH	Wheel Loader	*	T53
644 H	Loader		T90
644J	Loader		T86
644 J	Loader	(S.N. -611231)	T90
644K	Loader		T86
650G	Crawler Dozer	*	T22
650G	Crawler Dozer	*	T23
650G	Crawler Dozer	*	T76
650H	Crawler Dozer	*	T74
650H	Crawler Dozer	*	T75
650J	Crawler		T77
655A	Crawler Dozer	*	T35
655A	Crawler Dozer	*	T36
655B	Crawler Dozer	*	T35
655B	Crawler Dozer	*	T36
670A	Motor Grader	*	T35
670A	Motor Grader	*	T36
670B	Motor Grader	*	T35
670B	Motor Grader	*	T36
670C	Motor Grader	*	T83
670C	Motor Grader	*	T84
670CH	Motor Grader	*	T83
670CH	Motor Grader	*	T84
670G	Motor Grader		T86
670G	Motor Grader	*	T94
670GP	Motor Grader		T86
670GP	Motor Grader	*	T94
670GP	Motor Grader	*	T94
672A	Motor Grader	*	T35
672A	Motor Grader	*	T36
672B	Motor Grader	*	T35
672B	Motor Grader	*	T36
672CH	Motor Grader	*	T83
672CH	Motor Grader	*	T84
672G	Motor Grader		T86
672G	Motor Grader	*	T94
672GP	Motor Grader		T86
672GP	Motor Grader	*	T94
690	Excavator		T46
690A	Excavator		T46
690B	Excavator		T47
690C	Excavator	*	T50

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
690C	Excavator	*	T51
690D	Excavator	*	T35
690D	Excavator	*	T36
690E	Excavator	*	T35
690E	Excavator	*	T36
698G	Excavator		T84
700	Loader Backhoe		T54
700A	Loader Backhoe		T54
700H	Crawler Dozer		T83
700J	Crawler Dozer		T83
710B	Loader Backhoe	*	T28
710B	Loader Backhoe	*	T31
710B	Loader Backhoe	*	T32
710C	Loader Backhoe	*	T31
710C	Loader Backhoe	*	T32
710D	Loader Backhoe		T84
710J	Backhoe Loader		T77
710K	Backhoe Loader		T85
724 J	Loader		T90
744E	Wheel Loader		T59
750	Crawler Dozer	*	T35
750	Crawler Dozer	*	T36
750B	Crawler Dozer	*	T35
750B	Crawler Dozer	*	T36
753 GL	Track Harvester		T90
755	Crawler Dozer	*	T35
755	Crawler Dozer	*	T36
755A	Crawler Dozer	*	T35
755A	Crawler Dozer	*	T36
755B	Crawler Dozer	*	T35
755B	Crawler Dozer	*	T36
755BMIL	Crawler Dozer	*	T35
755BMIL	Crawler Dozer	*	T36
755D	Crawler		T86
760	Scraper		T54
760A	Scraper		T54
762	Scraper	*	T58
762	Scraper	*	T59
762A	Scraper	*	T49
762A	Scraper	*	T50
762A	Scraper	*	T51
762B	Scraper	*	T50
762B	Scraper	*	T51
762 B	Elevating Scraper		T90
764	High Speed Dozer		T86
770	Motor Grader		T55
770A	Motor Grader	*	T50
770A	Motor Grader	*	T51
770A	Motor Grader	*	T55
770B	Motor Grader	*	T50
770B	Motor Grader	*	T51
770B	Motor Grader	*	T53
770BH	Motor Grader		T53
770 C	Motor Grader	(S.N. -582129)	T90
770 C Series II	Motor Grader	(S.N. 582130-)	T90
770 CH	Motor Grader	(S.N. -582129)	T90
770 CH Series II	Motor Grader	(S.N. 582130-)	T90
770 D	Motor Grader		T90
772A	Motor Grader		T55
772B	Motor Grader		T53
772BH	Motor Grader		T53
772 CH	Motor Grader	(S.N. -582129)	T90
772 CH Series II	Motor Grader	(S.N. 582130-)	T90
772 D	Motor Grader		T90
790D	Excavator		T50
790E	Excavator	*	T35
790E	Excavator	*	T36
792D	Excavator		T53
792LC	Excavator		T53
810D	Forwarder		T78
810E	Forwarder		T78
850	Crawler Dozer	*	T58
850	Crawler Dozer	*	T59
850B	Crawler Dozer	*	T50
850B	Crawler Dozer	*	T51
850C	Crawler Dozer		T53
850C	Crawler Dozer	(S.N. -883331)	T90
850C-II	Crawler Dozer	(S.N. 883332 -)	T90
850G	Crawler Dozer		T84
850J	Crawler Dozer		T78
850J	Crawler Dozer		T79
850J	Crawler Dozer		T90
850J	Crawler Dozer		T94
850JR	Crawler Dozer		T94
855	Crawler Dozer	*	T58
855	Crawler Dozer	*	T59
860B	Scraper	*	T58
860B	Scraper	*	T59
862	Scraper	*	T58
862	Scraper	*	T59
870 D	Motor Grader		T90
870G	Motor Grader		T90
870GP	Motor Grader		T90
872 D	Motor Grader		T90
872G	Motor Grader		T90
872GP	Motor Grader		T90
890	Excavator	*	T58
890	Excavator	*	T59
890A	Excavator	*	T58
890A	Excavator	*	T59

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Equipment Application Chart

Construction Equipment

MODEL	DESCRIPTION	COMMENTS	PAGE
892D	Excavator	*	**T50**
892D	Excavator	*	**T51**
892E	Excavator		**T52**
992D	Excavator		**T59**
992E	Excavator		**T59**
1010D	Forwarder		**T78**
1010E	Forwarder		**T78**
1710 D	Forwarder	(S.N. -1000)	**T90**
1270 D	Wheel Harvester	(S.N. 0001-0997)	**T90**
1470 D	Wheel Harvester	(S.N. 0001-0309)	**T90**
ML1335	Telehandler		**T77**
TC444H	Wheel Loader		**T76**

Skidders, Feller Bunchers, Forklifts and Compactors

MODEL	DESCRIPTION	COMMENTS	PAGE
240	Skid Steer		**T07**
240 Series II	Skid Steer		**T07**
250	Skid Steer		**T09**
250 Series II	Skid Steer		**T09**
260	Skid Steer		**T09**
260 Series II	Skid Steer		**T09**
270	Skid Steer		**T21**
270	Skid Steer		**T74**
270 Series II	Skid Steer		**T21**
270 Series II	Skid Steer		**T74**
280	Skid Steer		**T23**
280	Skid Steer		**T75**
280	Skid Steer		**T76**
280	Skid Steer		**T77**
280	Skid Steer		**T78**
280 Series II	Skid Steer		**T23**
280 Series II	Skid Steer		**T75**
280 Series II	Skid Steer		**T76**
280 Series II	Skid Steer		**T77**
280 Series II	Skid Steer		**T78**
340D	Skidder	*	**T20**
340D	Skidder	*	**T21**
340D	Skidder	*	**T22**
340D	Skidder	*	**T23**
380	Forktlift	*	**T01**
380	Forktlift	*	**T02**
440	Skidder	*	**T10**
440	Skidder	*	**T11**
440	Skidder	*	**T13**
440A	Skidder		**T12**
440B	Skidder	*	**T13**
440B	Skidder	*	**T14**
440C	Skidder	*	**T20**
440C	Skidder	*	**T21**
440C	Skidder	*	**T22**
440C	Skidder	*	**T23**
448D	Skidder	*	**T22**
448D	Skidder	*	**T23**
480	Forktlift	*	**T10**
480	Forktlift	*	**T11**
480A	Forktlift		**T13**
480B	Forktlift		**T14**
480C	Forktlift		**T14**
482C	Forktlift		**T16**
485E	Forktlift		**T74**
486E	Forktlift		**T74**
488E	Forktlift		**T74**
540	Skidder		**T25**
540A	Skidder	*	**T26**
540A	Skidder	*	**T27**

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Skidders, Feller Bunchers, Forklifts and Compactors

MODEL	DESCRIPTION	COMMENTS	PAGE
540B	Skidder		T14
540D	Skidder		T22
540D	Skidder		T23
540G	Skidder		T84
540GLL	Skidder		T84
548D	Skidder		T22
548D	Skidder		T23
548G	Skidder		T84
548GII	Skidder		T84
548GIII	Skidder		T84
560 D	Skidder		T90
608 L	Feller Buncher	(S.N. 006020-)	T90
608 S	Feller Buncher	(S.N. 10BA1045-007075)	T90
640	Skidder		T35
640D	Skidder	*	T35
640D	Skidder	*	T36
640G	Skidder		T84
640GII	Skidder		T84
640GIII	Skidder		T84
640GIII	Cable Skidders		T86
643	Feller Buncher	*	T35
643	Feller Buncher	*	T36
643D	Feller Buncher	*	T35
643D	Feller Buncher	*	T36
643G	Feller Buncher		T84
646	Compactor		T46
646B	Compactor	*	T46
646B	Compactor	*	T55
646C	Compactor		T49
648D	Skidder	*	T35
648D	Skidder	*	T36
648E	Skidder		T36
648G	Skidder		T84
648GII	Skidder		T84
648GIII	Skidder		T84
648GIII	Grapple Skidder		T86
648H	Grapple Skidders		T86
648HTJ	Grapple Skidder		T86
653	Feller Buncher		T36
660 D	Skidder		T90
693C	Feller Buncher		T47
693D	Feller Buncher	*	T35
693D	Feller Buncher	*	T36
740	Skidder		T47
740A	Skidder	*	T49
740A	Skidder	*	T51
740E	Skidder	*	T53
740G	Skidder	*	T53
740G	Skidder	(S.N. -565684)	T90
748E	Skidder	*	T53
748G	Skidder	*	T53
748 G	Skidder	(S.N. -565684)	T90
748 G-II	Skidder	(S.N. 565685-576602)	T90
748 G-III	Skidder	(S.N. 576603-)	T90
748H	Grapple Skidders		T86
748HTJ	Grapple Skidders		T86
753 G	Feller Buncher	(S.N. 002001-002063)	T90
753 J	Feller Buncher		T90
753 JH	Feller Buncher		T90
759 G	Feller Buncher		T90
759 J	Feller Buncher		T90
759 JH	Feller Buncher		T90
843G	Feller Buncher		T84
848 G	Skidder		T90
848H	Grapple Skidders		T86
848HTJ	Grapple Skidder		T86
850	Feller Buncher	(S.N. 008019-)	T90
853 G	Feller Buncher	(S.N. 003084-)	T90
853J	Feller Buncher		T93
853JH	Harvester		T93
900	Feller Buncher	(S.N. 001001-)	T90
903 G	Feller Buncher	(S.N. 002001-)	T90
903J	Feller Buncher		T93
903JH	Harvester		T93
909J	Feller Buncher		T93
909JH	Harvester		T93
950	Feller Buncher	(S.N. 009004-)	T90
953 G	Feller Buncher	(S.N. 004005-)	T90
953J	Feller Buncher		T93
959J	Feller Buncher		T93
3554	Logger		T90
3554	Logger		T92
4475	Skid Steer		T61
5575	Skid Steer		T63
6675	Skid Steer		T62
7775	Skid Steer		T64
8875	Skid Steer		T09

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Equipment Application Chart

Generators

MODEL	DESCRIPTION	COMMENTS	PAGE
HJW 85 T6	Hi Power Genset	4045HF285-94	**T77**
HJW 105 T6	Hi Power Genset	4045HF285-118	**T77**
HJW 130 T6	Hi Power Genset	4045HF285-147	**T77**
HJW 155 T6	Hi Power Genset	6068HF285-177	**T85**
HJW 205 T6	Hi Power Genset	6068HF485-235	**T86**
HJW 225 T6	Hi Power Genset	6090HF484-258	**T94**
HJW 275 T6	Hi Power Genset	6090HF484-315	**T94**
HRJW 75 T6	Hi Power Genset	4045HF285-74	**T77**
HRJW 90 T6	Hi Power Genset	4045HF285-94	**T77**
HRJW 115 T6	Hi Power Genset	4045HF285-118	**T77**
HRJW 145 T6	Hi Power Genset	4045HF285-147	**T77**
HRJW 175 T6	Hi Power Genset	6068HF285-177	**T85**
HRJW 250 T6	Hi Power Genset	6090HF484-258	**T94**
HRJW 310 T6	Hi Power Genset	6090HF484-315	**T94**
HRYW 17 T5	Hi Power Genset	4TNV88	**T69**
HRYW 20 T5	Hi Power Genset	4TNV84T	**T67**
HRYW 20 T6	Hi Power Genset	4TNV88	**T69**
HRYW 25 T6	Hi Power Genset	4TNV84T	**T67**
HYW 13 M5	Hi Power Genset	3TNV88	**T68**
HYW 13 T5	Hi Power Genset	3TNV88	**T68**
HYW 14 M6	Hi Power Genset	3TNV88	**T68**
HYW 14 T6	Hi Power Genset	3TNV88	**T68**
HYW 17 T5	Hi Power Genset	4TNV88	**T69**
HYW 20 M5	Hi Power Genset	4TNV88	**T69**
HYW 20 M6	Hi Power Genset	4TNV88	**T69**
HYW 20 T5	Hi Power Genset	4TNV84T	**T67**
HYW 20 T6	Hi Power Genset	4TNV88	**T69**
HYW 20 M5	Hi Power Genset	4TNV84T	**T67**
HYW 25 M6	Hi Power Genset	4TNV84T	**T67**
HYW 25 T6	Hi Power Genset	4TNV84T	**T67**
J20U	SDMO Generator	3029DF120	**T70**
J22	SDMO Generator	3029DF120	**T70**
J30U	SDMO Generator	3029DF120	**T70**
J33	SDMO Generator	3029DF120	**T70**
J40U	SDMO Generator	3029TF120	**T73**
J44K	SDMO Generator	3029TF120	**T73**
J60U	SDMO Generator	4045TF120	**T75**
J66K	SDMO Generator	4045TF120	**T75**
J70U	SDMO Generator	4045TF120	**T75**
J77K	SDMO Generator	4045TF120	**T75**
J80U	SDMO Generator	4045TF220	**T76**
J88K	SDMO Generator	4045TF220	**T76**
J100U	SDMO Generator	4045HF120	**T76**
J110K	SDMO Generator	4045HF120	**T76**
J120U	SDMO Generator	6068TF220	**T84**
J130K	SDMO Generator	6068TF220	**T84**
J150U	SDMO Generator	6068HF120-153	**T84**
J165K	SDMO Generator	6068HF120-153	**T84**
J175U	SDMO Generator	6068HF120-183	**T84**
J200K	SDMO Generator	6068HF120-183	**T84**

MODEL	DESCRIPTION	COMMENTS	PAGE
R45U	SDMO Generator	3029TF120	**T73**
R66RC	SDMO Generator	4045TF120	**T76**
R70U	SDMO Generator	4045TF120	**T76**
R90C3	SDMO Generator	4045HFS86	**T77**
R90RC	SDMO Generator	4045TF220	**T76**
R90U	SDMO Generator	4045TF220	**T76**
R110C3	SDMO Generator	4045HFS87	**T77**
R110RC	SDMO Generator	4045HF120	**T76**
R110U	SDMO Generator	4045HF120	**T76**
R130U	SDMO Generator	6068TF220	**T84**
R135	SDMO Generator	6068TF220	**T84**
R165	SDMO Generator	6068HF120-153	**T84**
R165C3	SDMO Generator	6068HFS85	**T85**
R170U	SDMO Generator	6068HF120-153	**T84**
R200	SDMO Generator	6068HF120-183	**T84**
R200U	SDMO Generator	6068HF120-183	**T84**
R260UC3	SDMO Generator	6090HF485-287	**T94**
R275C3E	SDMO Generator	6090HFS85	**T94**
R275RC	SDMO Generator	6090HFS85	**T94**
R330C3	SDMO Generator	6090HFS86	**T94**
R330C3E	SDMO Generator	6090HFS86	**T94**
R330RC	SDMO Generator	6090HFS86	**T94**

Other OEM Applications

John Deere® engines are used in many OEM applications. This is a list of the most common brands.

Barber Greene	Koering
Blaw Knox	Kohler
Cameco	Lion MFG
Dynapac	Onan Generators
Elgin Street Sweeper	Pavex
FMC Corporation	Powell MFG
Gardner Denver	Rex Works
Ingersoll Rand	Roscoe Brown
Joy Manufacturing	Sullair Corporation

***** Choose proper engine for this application. In doubt call our Technical support line **(800) 414-2095.**

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

300 Series

Engine & Equipment Model

3.152

To 154,765

O'rings on liner

3 Cyl.

Bore: 3.86 in
98 mm
Pin Ø: 1.185 in
30 mm

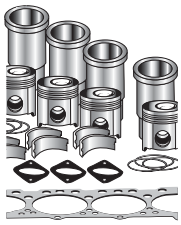
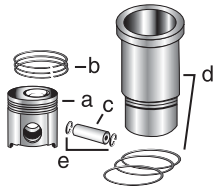
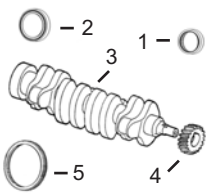
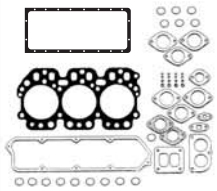
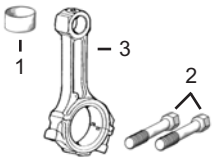
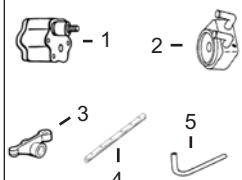
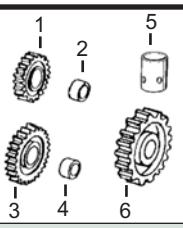
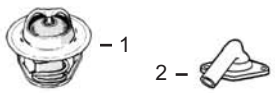
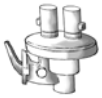
Block (m):
T24963, T26935

Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
820
1020
1030

CONSTRUCTION
300
300A
350A
350B
380

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TPLK481**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK3481	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK3481	a) TT23481	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR70633	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT23482	**Use 3**	**Use 1**	**Use 3**
	d) TAR51902			
	e) TR51112			
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod		
1) TAR67942 2) TRE44574 **(1)** 3) TAT18031 4) TT20094 5) TR114282 (142T)	1) TRE38570 2) TRE38848 3) TR98460 4) TR97341 5) TR75729	1) TT23471 ***x3*** 2) TR74194 ***x6*** **(4)** 3) TAT18005	1) TRE55343 2) TRE31929 **(3)** 3) TRE31973 4) TR54985 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
				
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
1) TRE33705 180° F **(2)** 2) TT23620	TRE42211	TRE19507	TRE62658	TAR89564	TR60746 TR48000

(1) Do not use with Flywheel Housing (m) T20300, T22991.
(2) Do not use with Housing (m) R54096, R70741, R74549.
(3) Conversion Kit TMX386: Available Consists of: TT31306 ***x1*** Nipple TR99802 ***x2*** Hose.
(4) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

3.152

From 154,766

O'rings on Block

3 Cyl

Bore: 3.86 in
98 mm
Pin Ø: 1.185 in
30 mm

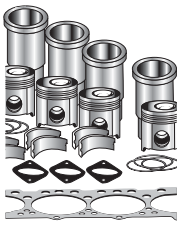
Block (m):
R53240, R55100, R72967, T32339

Con Rod (m):
T20007, R81410

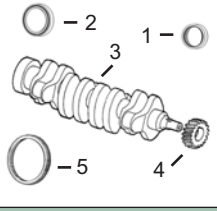
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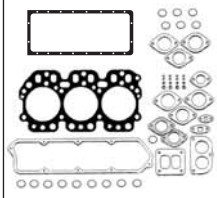
AGRICULTURAL
820
830
1020
1030

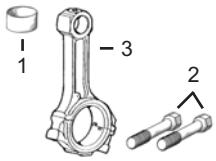
CONSTRUCTION
300
300A
300B
301
301A
350A/B
380

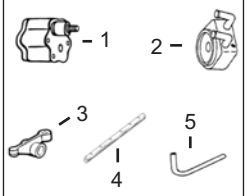


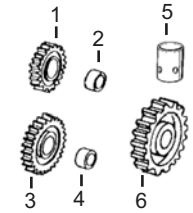
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TAR71591**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK3591	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK3591	a) TT23481	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR70633	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT23482			
	d) TT32340			
	e) TAR71617			
	f) TR51112	**Use 3**	**Use 1**	**Use 3**







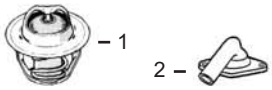


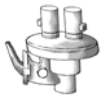


1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod		
1) TAR67942 2) TRE44574 **(1)** 3) TAT18031 4) TT20094 5) TR114282 (142T)	1) TRE38570 2) TRE38848 3) TR98460 4) TR97341 5) TR75729	1) TT23471 ***x3*** 2) TR74194 ***x6*** **(4)** 3) TAT18005	1) TRE55343 2) TRE31929 **(3)** 3) TRE31973 4) TR54985 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070



Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627











1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
1) TRE33705 180° F **(2)** 2) TT23620	TRE42211	TRE19507	TRE62658	TAR89564	TR60746 TR48000

(1) Do not use with Flywheel Housing (m) T20300, T22991.
(2) Do not use with Housing (m) R54096, R70741, R74549.
(3) Conversion Kit TMX386: Available Consists of: TT31306 ***x1*** Nipple TR99802 ***x2*** Hose.
(4) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

3.164

To 179,601

O'rings on Liner
Small Pin

3 Cyl

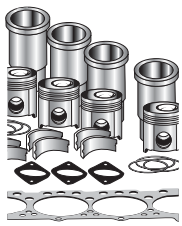
Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

Con Rod (m):
T20007, R81410

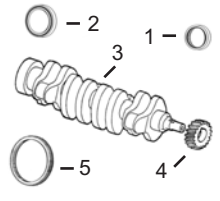
APPLICATIONS:

AGRICULTURAL
1520

CONSTRUCTION
302
302A



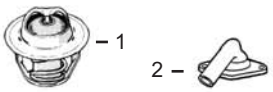
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TPLK310**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK3310	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK3310	a) TAR78310	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR55759	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT26149	**Use 3**	**Use 1**	**Use 3**
	d) TAR51903			
	e) TR51112			

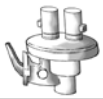


1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18031 4) TT20094 5) TR114282 (142T)	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729	1) TT23471 ***x3*** 2) TR74194 ***x6*** **(3)** 3) TAT18005	1) TRE55343 2) TRE31929 **(2)** 3) TRE31973 4) TR54985 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070



Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

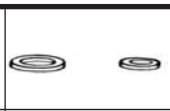












1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F **(1)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAR89564	TR60746 TR48000

(1) Do not use with Housing (m) R54096, R70741, R74549.
(2) Conversion Kit TMX386: Available Consists of: TT31306 ***x1*** Nipple TR99802 ***x2*** Hose.
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

3.164

To 179,601

O'rings on Block

Small Pin

3 Cyl

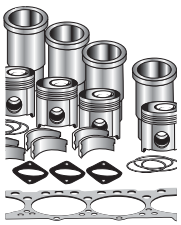
Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
1420
1520
1530

CONSTRUCTION
350B

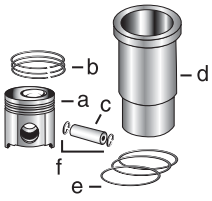


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK3593

2) TIK3593



Piston-Liner Kit

TAR71593

Consists of:

a) TAR78310
b) TAR55759
c) TT26149
d) TR116463
e) TAR71618
f) TR51112



Main Bearing

TRE27352 **Std.**
TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 3



Thrust Bearing

TAT21139 **Std.**
TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

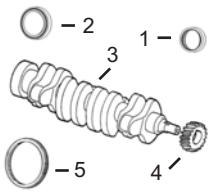
Use 1



Con Rod Bearing

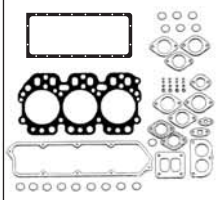
TRE27348 **Std.**
TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

Use 3



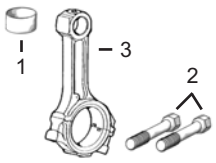
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR67942
2) TRE44574
3) TAT18031
4) TT20094
5) TR114282 (142T)



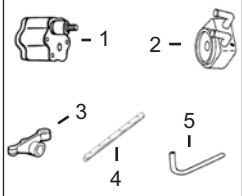
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501578
2) TRE38850
3) TR97356
4) TR97341
5) TR75729



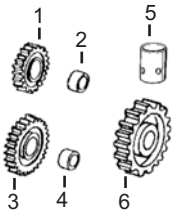
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) TT23471 ***x3***
2) TR74194 ***x6*** **(3)**
3) TAT18005



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube

1) TRE55343
2) TRE31929 **(2)**
3) TRE31973
4) TR54985
5) TR113752



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x6***
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

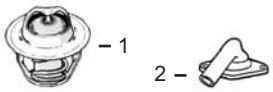
1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TRE33705 180° F **(1)**
2) TT23620



Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

a) TRE19507
b) TRE62658



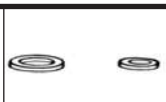
Water Pump

TAT27018 (m) R48997, (m) R51039



Injector, Pencil

TAR89564



Seal, Injector

TR60746
TR48000

(1) Do not use with Housing (m) R54096, R70741, R74549.
(2) Conversion Kit TMX386: Available Consists of: TT31306 ***x1*** Nipple TR99802 ***x2*** Hose.
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

3.164

From 179,602

O'Rings on Block

Large Pin

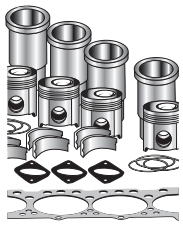
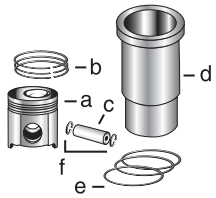
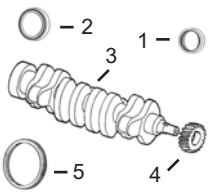
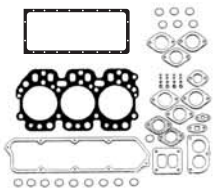
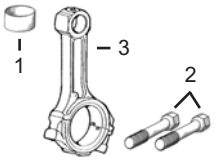
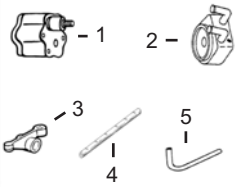
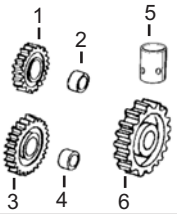
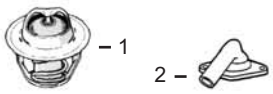
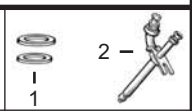
3 Cyl

Bore: 4.02 in
102 mm
Pin Ø: 1.375 in
35 mm

APPLICATIONS:

AGRICULTURAL
1530
2040
2330

CONSTRUCTION
301A
302
302A
310
350B
350C
350D

				
1) Engine O/H Kit **2) Engine I/F Kit** **1) TOK3041** **2) TIK3041**	**Piston-Liner Kit** **TAR78041** Consists of: a) TAR77762 b) TAR55759 c) TR125754 d) TR116463 e) TAR71618 f) TM41029	**Main Bearing** TRE27352 **Std.** TRE27353 **.010** TRE27360 **.020** TRE27368 **.030** **Use 3**	**Thrust Bearing** TAT21139 **Std.** TAT21132 **.010** TAT21134 **.020** TAT21136 **.030** **Use 1**	**Con Rod Bearing** TRE27348 **Std.** TRE27349 **.010** TRE27358 **.020** TRE27364 **.030** **Use 3**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
1) TAR67942 2) TRE44574 3) TAT18031 4) TT20094 5) TR114282 (142T)	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729	1) TR55647 ***x3*** 2) TR74194 ***x6*** 3) TRE16495 **(3)**	1) TRE55343 2) TRE31929 **(2)** 3) TRE31973 4) TR54985 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Transmission Oil Pump	1) Seal, Injector 2) Injector, Pencil
1) TRE33705 180° F **(1)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAL120106 Verify P/N for your application	1) TR60746 TR48000 2) TAR89564

(1) Do not use with Housing (m) R54096, R70741, R74549.
(2) Conversion Kit TMX386 Consists of TT31306 ***x1*** Nipple TR99802 ***x2*** Hose.
(3) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

MAXIFORCE® DIESELENGINEPARTS

300 Series
Engine & Equipment Model

3.179D

3 Cyl

Bore: 4.19 in
106 mm
Pin Ø: 1.375 in
35 mm

APPLICATIONS:

AGRICULTURAL

1040	1850
1140	2040
1350	2150
1550	2155
1630	2240
1750	5000

CONSTRUCTION

350D
355D

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TRE30250**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TRE47653	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK47653	a) TRE19282	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR125754			
	d) TR116281			
	e) TAR65507			
	f) TM41029	**Use 3**	**Use 1**	**Use 3**

1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18031 **(1)** 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729	1) TR55647 ***x3*** 2) TR80033 ***x6*** 3) TRE16495	1) TRE55343 2) TRE31929 **(4)** 3) TRE31973 4) TR54985 5) TR113752 6) TR85363 ***x14*** **(3)**	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070

Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Transmission Oil Pump	1) Seal, Injector 2) Injector, Pencil
1) TRE33705 180° F **(2)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAR97708 (m) R73604 TRE60489 TAR92641	TAL120106 TAL68094 Verify P/N for your application	1) TR60746 TR48000 2) TAR89564

(1) Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use **TRE50979** (60 mm / 2.36" Snout) (m) R91834.
(2) Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.
(3) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(4) Use on engines ESN 794193, after this ESN use TRE61767.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

3029D

Liter Designated

3 Cyl

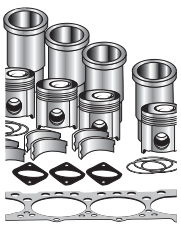
Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Con Rod (m):
R51727, R80034

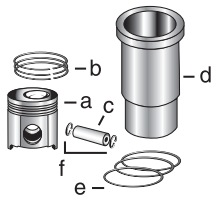
APPLICATIONS:

AGRICULTURAL
5200
5300
5400

SKID STEER
240
240 Series II



1) Engine O/H Kit
2) Engine I/F Kit
1) TRE47653
2) TIK47653



Piston-Liner Kit

TRE30250
Consists of:
a) TRE19282
b) TRE66820
c) TR125754
d) TR116281
e) TAR65507
f) TM41029



Main Bearing

TRE27352	**Std.**
TRE27353	**.010**
TRE27360	**.020**
TRE27368	**.030**

Use 3



Thrust Bearing

TAT21139	**Std.**
TAT21132	**.010**
TAT21134	**.020**
TAT21136	**.030**

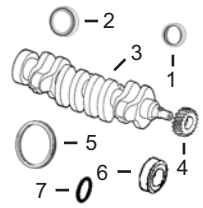
Use 1



Con Rod Bearing

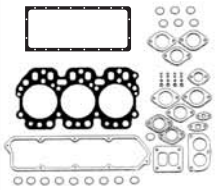
TRE27348	**Std.**
TRE27349	**.010**
TRE27358	**.020**
TRE27364	**.030**

Use 3



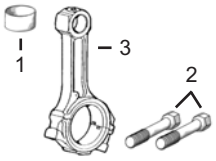
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE521348 **(5)**
4) TT20094 **(3)**
5) TR114282 (142T)
6) TR81989
7) TH35244



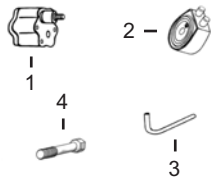
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501578
2) TRE38850
3) TR97356
4) TR97341
5) TR106796 **(1)**
TR75729 **(2)**



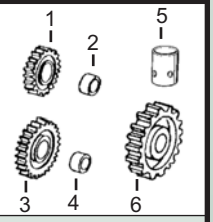
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) TR55647 ***x3***
2) TR80033 ***x6***
3) TRE16495



1) Pump, Oil
2) Oil Cooler
3) Pump, Oil Tube
4) Cyl Hd Cap Screw

1) TRE55343
2) TRE61767
3) TR113752
4) TR85363 ***x14*** **(4)**



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252 **(3)**
2) TT26321
3) TAT18009 **(3)**
4) TT20034
5) TT20073 ***x6***
6) TT20070 **(3)**



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

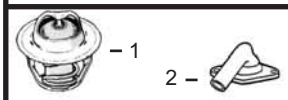
1) TR98063 **Std.**
TR98335 **O/S**
2) TR51734 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

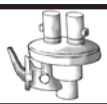
1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



1) Thermostat
2) Thermostat Cover

1) TRE64354 180° F
2) TT23620



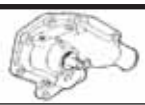
Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

a) TRE19507
b) TRE62658



Water Pump

TAR97708 (m) R73604
TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164
TAR92641 **(6)**



Injector, Pencil

TRE36936



Seal, Injector

TR60746
TR48000

(1) Not included in Gasket Set. Used in Saran Engines (Order Separately).
(2) Reusable.
(3) Helicoidal Gears.
(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) Kit contains **TT20094** helical gear to convert to a TRE50979 Crankshaft.
(6) Check your application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

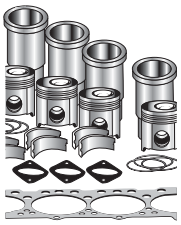
3.179T

3 Cyl

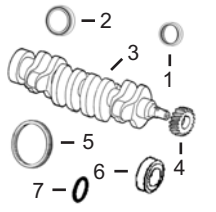
Bore: 4.19 in / 106.5 mm
Pin Ø: 1.625 in / 41 mm

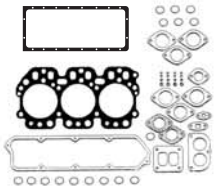
APPLICATIONS:

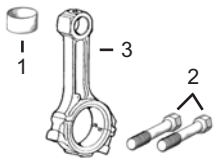
AGRICULTURAL
2355 NCS
2355 NTSS

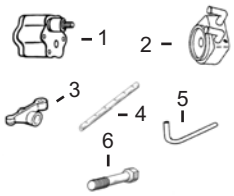


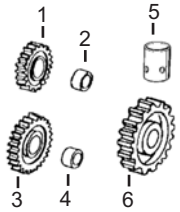
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TRE33115**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK3115	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK3115	a) TRE19278	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR124230	**Use 3**	**Use 1**	**Use 3**
	d) TR116281			
	e) TAR65507			
	f) TR54114			







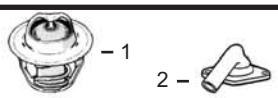


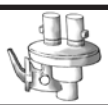


1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18031 **(3)** 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR75729	1) TR57451 ***x3*** 2) TR80033 ***x6*** 3) TRE58347	1) TRE55343 2) TRE31929 **(4)** 3) TRE31973 4) TR54985 5) TR113752 6) TR85363 ***x14*** **(2)**	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x6*** 6) TT20070

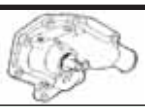


Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR83071 **Std.** TR89223 **.003** TR89224 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

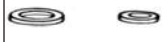












1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F **(1)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164 TAR92641	TRE37503	TR60746 TR48000

(1) Do not use with Housing (m) R54096, R70741, R74549. For Saran Repower Engines use TRE64354.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) T23516 (36 mm / 1.37" Snout.) This engine may use TRE50979 (60 mm / 2.36" Snout) (m) R91834.
(4) Use on engines ESN 794193, after this ESN use TRE61767.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

3029T

Liter Designated

3 Cyl

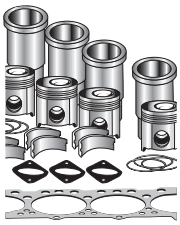
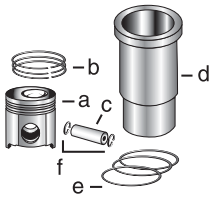
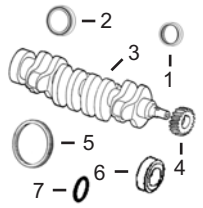
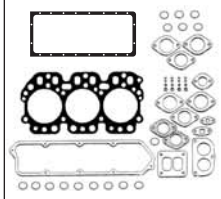
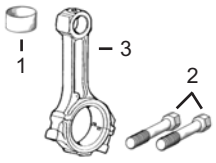
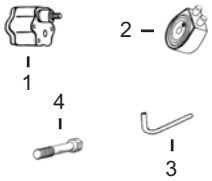
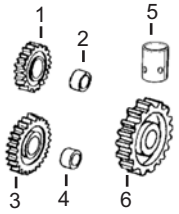
Bore: 4.19 in
106.5 mm
Pin 0 1.625 in
41 mm

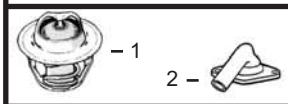
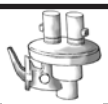
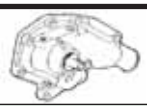
Con Rod (m):
R80032, R58979,
R113612

APPLICATIONS:

AGRICULTURAL
5500

SKID STEER
250
250 Series II
260
260 Series II

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**	
2) Engine I/F Kit	**TRE33115**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**	
1) TOK3115	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**	
2) TIK3115	a) TRE19278	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**	
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**	
	c) TR124230				
	d) TR116281				
	e) TAR65507				
	f) TR54114	**Use 3**	**Use 1**	**Use 3**	
					
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Pump, Oil Tube 4) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
1) TAR67942 2) TRE44574 3) TRE521348 **(5)** 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR106796 **(1)** TR75729 **(2)**	1) TR57451 ***x3*** 2) TR80033 ***x6*** 3) TRE58347	1) TRE55343 2) TRE61767 3) TR113752 4) TR85363 ***x14*** **(4)**	1) TAT24252 **(3)** 2) TT26321 3) TAT18009 **(3)** 4) TT20034 5) TT20073 ***x6*** 6) TT20070 **(3)**	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR51734 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE64354 180° F 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337 (m) R127918, (m) R55164 TAR92641 **(6)**	TRE38087	TR60746 TR48000

(1) Not included in Gasket Set. Used in Saran Engines (Order separately).
(2) Reusable.
(3) Helicoidal Gears.
(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) Kit contains **TT20094** helical gear to convert to a TRE50979 Crankshaft.
(6) Check your application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.202

To 158,257

O'rings on liner

4 Cyl

Bore: 3.86 in (2)
98 mm
Pin Ø: 1.185 in
30 mm

Block (m):
T23406, T24961, T26933

APPLICATIONS:

AGRICULTURAL
2020
2510

CONSTRUCTION
400
440
450
480

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TPLK481**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK4481	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK4481	a) TT23481	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR70633	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT23482	**Use 4**	**Use 1**	**Use 4**
	d) TAR51902			
	e) TR51112			
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal. Shaft**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod		
1) TAR67942 2) TRE44574 (1) 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE38558 2) TRE38847 3) TR98461 4) TR97342 5) TR73521	1) TT23471 ***x4*** 2) TR74194 ***x8*** (3) 3) TR57160 ***x6*** (6) 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 (5) 7) TR88112 8) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x8*** 6) TT20070

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
1) TRE33705 180° F (4) 2) TT23620	TRE42211	TRE19507	TRE62658	TAR89564	TR60746 TR48000

(1) Do not use with Flywheel Housing (m) T20300, T22991.
(2) Always verify Bore diameter, on Block Replacement is 4.016"/102mm.
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(4) Do not use with Housing (m) R54096, R70741, R74549.
(5) Threaded Type.
(6) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.202

From 158,258

O'rings on block

4 Cyl

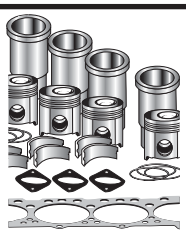
Bore: 3.86 in (2)
98 mm
Pin Ø: 1.185 in
30 mm

Block (m):
R53230, R53250, R55034
R72973, T32342

APPLICATIONS:

AGRICULTURAL
2020
2120
2510

CONSTRUCTION
400
440
480

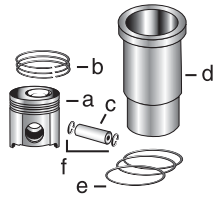


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK4591

2) TIK4591

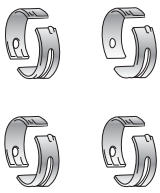


Piston-Liner Kit

TAR71591

Consists of:

a) TT23481
b) TAR70633
c) TT23482
d) TT32340
e) TAR71617
f) TR51112



Main Bearing

TRE27352 **Std.**
TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

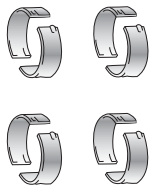
Use 4



Thrust Bearing

TAT21139 **Std.**
TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

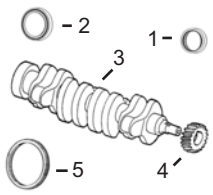
Use 1



Con Rod Bearing

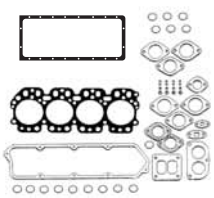
TRE27348 **Std.**
TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

Use 4



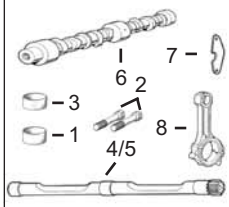
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR67942
2) TRE44574 (1)
3) TAT18030
4) TT20094
5) TR114282 (142T)



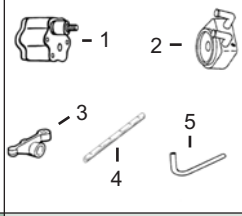
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE38558
2) TRE38847
3) TR98461
4) TR97342
5) TR73521



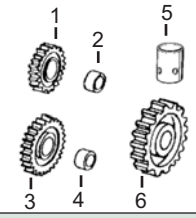
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Bal. Shaft R/H
5) Bal. Shaft L/H
6) Camshaft
7) Bal. Shaft Stop
8) Con Rod

1) TT23471 ***x4***
2) TR74194 ***x8*** (3)
3) TR57160 ***x6*** (6)
4) TRE26282 R/H
5) TRE26283 L/H
6) TR82820 (5)
7) TR88112
8) TAT18005



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube

1) TRE55343
2) TRE31929
3) TRE31973
4) TR54987
5) TR113752



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

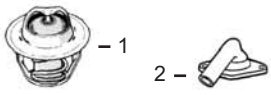
1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TRE33705 180° F (4)
2) TT23620



Fuel Transfer Pump

TRE42211



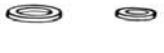
Water Pump Repair Kit

Without Impeller	With Impeller
TRE19507	TRE62658



Injector, Pencil

TAR89564



Seal, Injector

TR60746
TR48000

(1) Do not use with Flywheel Housing (m) T20300, T22991.
(2) Always verify Bore diameter, on Block Replacement is 4.016"/102mm.
(3) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(4) Do not use with Housing (m) R54096, R70741, R74549.
(5) Threaded Type.
(6) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

4.219

To 275,483

O'Rings on liner

Small Pin

4 Cyl

Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

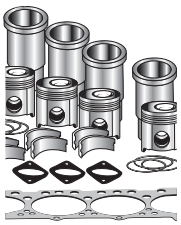
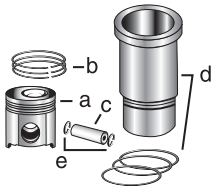
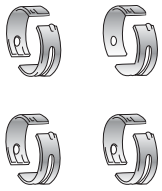
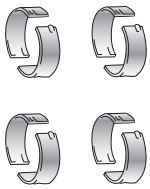
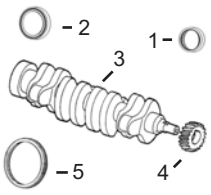
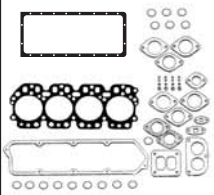
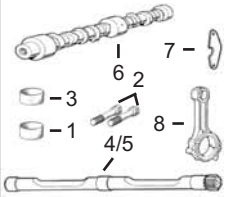
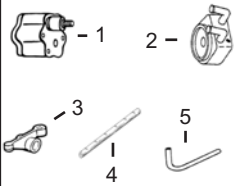
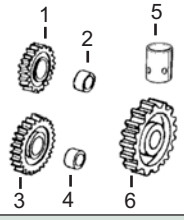
Block (m):
T26933

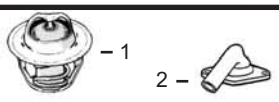
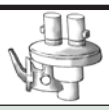
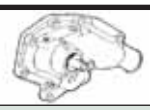
Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
2520

CONSTRUCTION
440A

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**	
2) Engine I/F Kit	**TPLK310**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**	
1) TOK4310	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**	
2) TIK4310	a) TAR78310 b) TAR55759 c) TT26149 d) TAR51903 e) TR51112	TRE27360 **.020** TRE27368 **.030**	TAT21134 **.020** TAT21136 **.030**	TRE27358 **.020** TRE27364 **.030**	
		Use 4	**Use 1**	**Use 4**	
					
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal. Shaft**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod			
1) TAR67942 2) TRE44574 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521	1) TT23471 ***x4*** 2) TR74194 ***x8*** **(1)** 3) TR57160 ***x6*** **(4)** 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 **(3)** 7) TR88112 8) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x8*** 6) TT20070	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F **(2)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R551039	TAR89564	TR60746 TR48000

(1) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(2) Do not use with Housing (m) R54096, R70741, R74549.
(3) Threaded Type.
(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.219

To 275,483

O'Rings on block

Small Pin

4 Cyl

Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

Block (m):
T32342

Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
499
2030
2120
2270
2320
2420

CONSTRUCTION
401
401A
440
440B
450A
450B
480A

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit **1) TOK4593** **2) TIK4593**	**TAR71593** Consists of: a) TAR78310 b) TAR55759 c) TT26149 d) TR116463 e) TAR71618 f) TR51112	TRE27352 **Std.** TRE27353 **.010** TRE27360 **.020** TRE27368 **.030** **Use 4**	TAT21139 **Std.** TAT21132 **.010** TAT21134 **.020** TAT21136 **.030** **Use 1**	TRE27348 **Std.** TRE27349 **.010** TRE27358 **.020** TRE27364 **.030** **Use 4**
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal. Shaft** 4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Bal. Shaft Stop 8) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
1) TAR67942 2) TRE44574 3) TAT18030 4) TT20094 5) TR114282 (142T)	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521	1) TT23471 ***x4*** 2) TR74194 ***x8*** **(1)** 3) TR57160 ***x6*** **(4)** 4) TRE26282 R/H 5) TRE26283 L/H 6) TR82820 **(3)** 7) TR88112 8) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x8*** 6) TT20070

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector
1) TRE33705 180° F **(2)** 2) TT23620	TRE42211	a) TRE19507 b) TRE62658	TAT27018 (m) R48997, (m) R51039	TAR89564	TR60746 TR48000

(1) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(2) Do not use with Housing (m) R54096, R70741, R74549.
(3) Threaded Type.
(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

4.219 (1)

From 275,484

O'Rings on block

Large Pin

4 Cyl

Bore: 4.02 in
102 mm
Pin Ø: 1.375 in
35 mm

Con Rod (m):
R51727, R80034

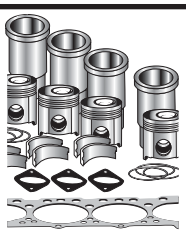
APPLICATIONS:

AGRICULTURAL

499	2270
1035	2280
1130	2320
1635	2440
2030	2530
2035	3300
2120	

CONSTRUCTION

310/B	450C/D
401B/C/D	455D
410/B	480B/C
440B	540B

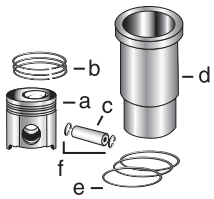


1) Engine O/H Kit

2) Engine I/F Kit

1) TAT86984

2) TIK86984

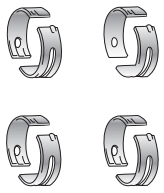


Piston-Liner Kit

TAR78041

Consists of:

a) TAR77762
b) TAR55759
c) TR125754
d) TR116463
e) TAR71618
f) TM41029



Main Bearing

TRE27352	**Std.**
TRE27353	**.010**
TRE27360	**.020**
TRE27368	**.030**

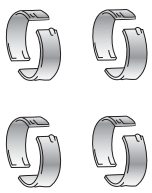
Use 4



Thrust Bearing

TAT21139	**Std.**
TAT21132	**.010**
TAT21134	**.020**
TAT21136	**.030**

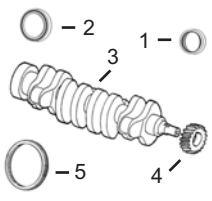
Use 1



Con Rod Bearing

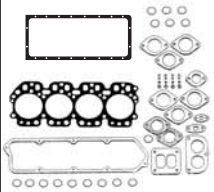
TRE27348	**Std.**
TRE27349	**.010**
TRE27358	**.020**
TRE27364	**.030**

Use 4



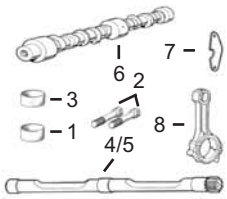
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR67942
2) TRE44574
3) TAT18030
4) TT20094
5) TR114282 (142T)



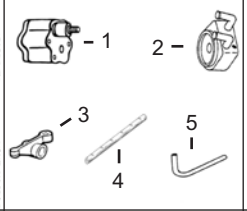
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501579
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



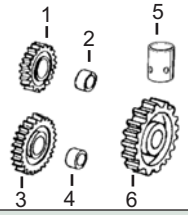
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Bal. Shaft R/H
5) Bal. Shaft L/H
6) Camshaft
7) Bal. Shaft Stop
8) Con Rod

1) TR55647 ***x4***
2) TR74194 ***x8*** **(2)**
3) TR57160 ***x6*** **(5)**
4) TRE26282 R/H
5) TRE26283 L/H
6) TR82820 **(4)**
7) TR88112
8) TRE16495



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube

1) TRE55343
2) TRE31929
3) TRE31973
4) TR54987
5) TR113752



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

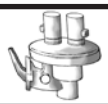
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TRE33705 180° F **(3)**
2) TT23620



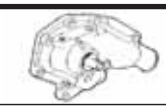
Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

a) TRE19507
b) TRE62658



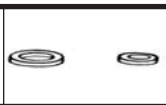
Water Pump

TAT27018 (m) R48997, (m) R51039



Injector, Pencil

TAR89564



Seal, Injector

TR60746
TR48000

(1) Some of these engines maybe turbocharged.
(2) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt R80033.
(3) Do not use with Housing (m) R54096, R70741, R74549.
(4) Threaded Type.
(5) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.239D

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

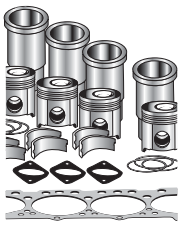
APPLICATIONS:

AGRICULTURAL

940	2450
942	2535
1640	2550
1840	2555CS
2130	2650
2135	2730
2250	2735
2350	3330
2355	3430
2355CS	6602
2360	

CONSTRUCTION

70	400G
70D	415B
210C	415C
244E	490
290D	515B
310C/D	
315C	

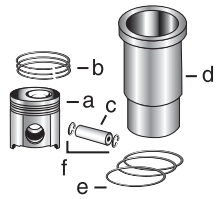


1) Engine O/H Kit

2) Engine I/F Kit

1) TAT86992

2) TIK86992

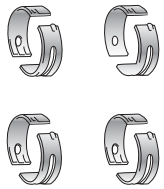


Piston-Liner Kit

TRE30250

Consists of:

a) TRE19282
b) TRE66820
c) TR125754
d) TR116281
e) TAR65507
f) TM41029



Main Bearing

TRE27352	**Std.**
TRE27353	**.010**
TRE27360	**.020**
TRE27368	**.030**

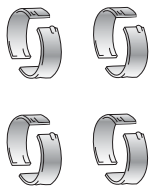
Use 4



Thrust Bearing

TAT21139	**Std.**
TAT21132	**.010**
TAT21134	**.020**
TAT21136	**.030**

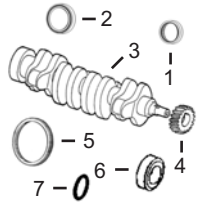
Use 1



Con Rod Bearing

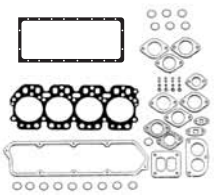
TRE27348	**Std.**
TRE27349	**.010**
TRE27358	**.020**
TRE27364	**.030**

Use 4



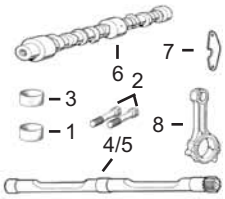
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TAT18030 **(1)**
TRE20585 **(2)**
4) TT20094
5) TR114282 (142T)
6) TR81989
7) TH35244



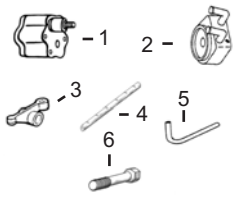
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501579
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



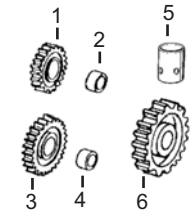
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Bal. Shaft R/H
5) Bal. Shaft L/H
6) Camshaft
7) Bal. Shaft Stop
8) Con Rod

1) TR55647 ***x4***
2) TR80033 ***x8*** **(3)**
3) TR57160 ***x6*** **(5)**
4) TRE26282 R/H **(*)**
5) TRE26283 L/H **(*)**
6) TR82820 **(4)**
7) TR88112
8) TRE16495



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube
6) Cyl Hd Cap Screw

1) TRE55343
2) TRE31929
3) TRE31973
4) TR54987
5) TR113752
6) TR85363 ***x18*** **(6)**



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR79623	**Std.**
TR79628	**.003**
TR79629	**.015**

Valve, Exhaust

TR79624	**Std.**
TR79625	**.003**
TR79626	**.015**

Insert, Valve
1) Intake
2) Exhaust

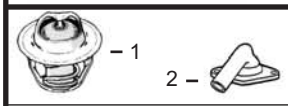
1) TR73064	**Std.**
2) TR51734	**Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

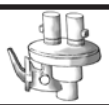
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TRE33705 180° F
2) TT23620



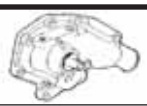
Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

a) TRE19507
b) TRE62658



Water Pump

TAR97708
(m) R73604

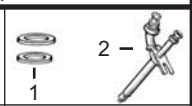
TAR92641



Transmission Oil Pump

TAL120106	TAL68094

Verify P/N for your application



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TAR89564

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.
(1) TAT18030 Crankshaft 36mm (short) snout, (m) T23517.
(2) TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.
(3) For Connecting Rod (m) R58979, use TR74194 Connecting Rod Bolt available upon request.
(4) Threaded Type.
(5) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.
(6) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4039D

Liter Designated

4 Cyl

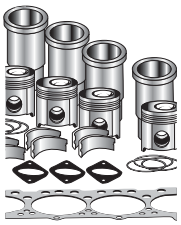
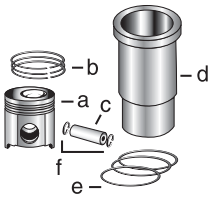
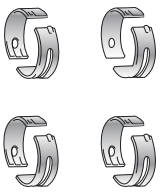
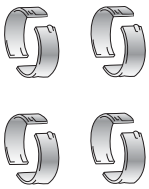
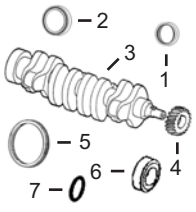
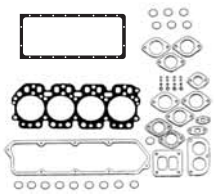
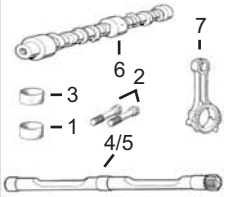
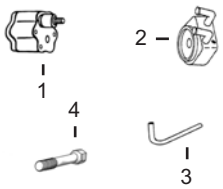
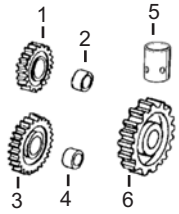
Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

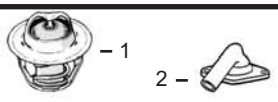
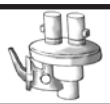
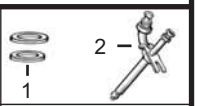
APPLICATIONS:

AGRICULTURAL
5600
(Mercosur)

CONSTRUCTION

70D	315C/D
210D	400G
290D	482C
310C/D	515B

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE30250**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TAT86992	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK86992	a) TRE19282	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR125754			
	d) TR116281			
	e) TAR65507			
	f) TM41029	**Use 4**	**Use 1**	**Use 4**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal. Shaft**	1) Pump, Oil 2) Oil Cooler 3) Pump, Oil Tube 4) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Bal. Shaft R/H 5) Bal. Shaft L/H 6) Camshaft 7) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18030 TRE20585 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521 TR106796 **(3)**	1) TR55647 ***x4*** 2) TR80033 ***x8*** 3) TR57160 ***x6*** **(4)** 4) TRE26282 R/H **(*)** 5) TRE26283 L/H **(*)** 6) TR82820 **(8)** 7) TRE16495	1) TRE55343 **(2)** 2) TRE31929 3) TR113752 4) TR85363 ***x18*** **(1)**	1) TAT24252 **(6)** 2) TT26321 3) TAT18009 **(6)** 4) TT20034 5) TT20073 ***x8*** 6) TT20070 **(6)**
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S.** 2) TR85687 **Std.** TR93910 **O/S.**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Water Pump	1) Seal, Injector 2) Injector, Pencil
1) TAR48675 180° F **(5)** 2) TT23620	TRE42211 TRE38009 **(7)**	a) TRE19507 b) TRE62658	TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164 TAR92641 **(9)**	TRE16666 **(9)**	1) TR60746 TR48000 2) TRE36936

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.
(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2) May use High cap. Pump, Oil TRE65580.
(3) O'ring not included in Gasket Set. Used in Saran Engines. Order separately.
(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.
(5) Saran engines may use TRE64354.
(6) Helicoidal Gears.
(7) Saran Engines.
(8) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, and Tappets) is available.
(9) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.239T

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.625 in
41 mm

Con Rod (m):
R80032, R113612,
R122191

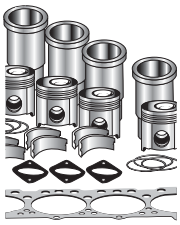
APPLICATIONS:

AGRICULTURAL

945	2750
952	2755
1052	2755 CS/TSS
1155	2850
2140	2855
2450	2855N
2555	3430
2555 TSS	3830
2650	

CONSTRUCTION

310 C/D (Turbo)
315 C/D (Turbo)
515B

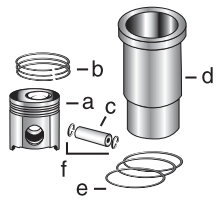


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE54709

2) TIK54709

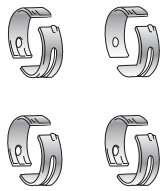


Piston-Liner Kit

TRE33115

Consists of:

a) TRE19278
b) TRE66820
c) TR124230
d) TR116281
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 4

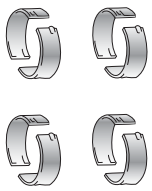


Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

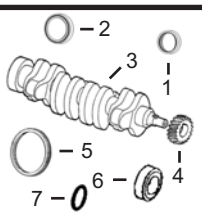


Con Rod Bearing

TRE27348 **Std.**

TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

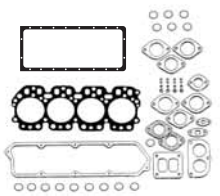
Use 4



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

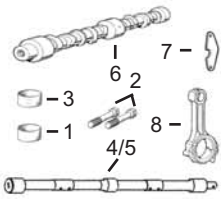
1) TAR67942
2) TRE44574
3) TAT18030 **(1)**
TRE20585 **(4)**
4) TT20094
5) TR114282 (142T)
6) TR81989
7) TH35244



1) O/H Gasket Set

2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

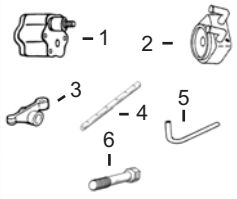
1) TRE501579
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft

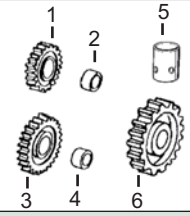
4) Bal. Shaft R/H
5) Bal. Shaft L/H
6) Camshaft
7) Bal. Shaft Stop
8) Con Rod

1) TR57451 ***x4***
2) TR80033 ***x8***
3) TR57160 ***x6*** **(3)**
4) TRE26282 R/H **(*)**
5) TRE26283 L/H **(*)**
6) TR82820 **(5)**
7) TR88112
8) TRE58347



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube
6) Cyl Hd Cap Screw

1) TRE55343 **(2)**
2) TRE31929
3) TRE31973
4) TR54987
5) TR113752
6) TR85363 ***x18*** **(6)**



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR83071 **Std.**
TR89223 **.003**
TR89224 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

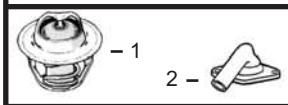
1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

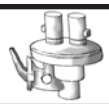
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TAR48675 180° F
2) TT23620



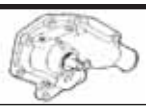
Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

TAR97708
(m) R73604

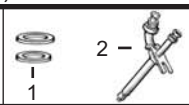
TAR92641



Transmission Oil Pump

TAL120106 | TAL68094

Verify P/N for your application



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TRE37503

(*) If these engines use bolt on weights shafts use TAR69710 RH and TAR69711 LH.
(1) TAT18030 Crankshaft 36mm (short) snout, (m) T23517.
(2) May use High Capacity Pump, Oil TRE65580.
(3) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.
(4) TRE20585 Crankshaft 60mm (long) snout, (m) R81959 or R121018.
(5) Threaded Type.
(6) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.

300 Series

Engine & Equipment Model

4039T

Liter Designated

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.625 in
41 mm

Con Rod (m):
R80032,R122191,
R113612

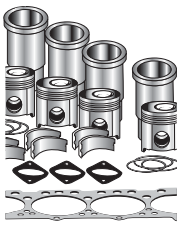
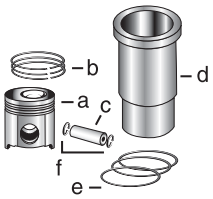
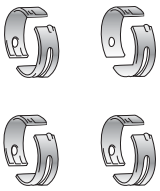
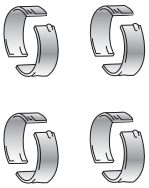
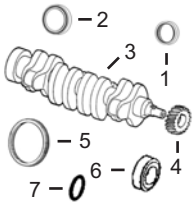
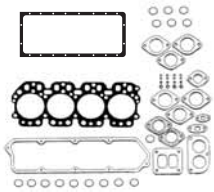
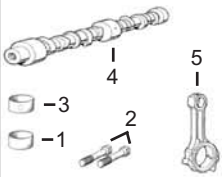
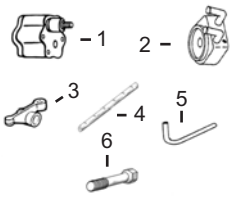
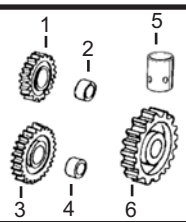
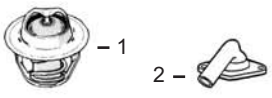
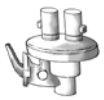
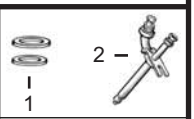
APPLICATIONS:

AGRICULTURAL

5500N	6300
5700	6300L
6200	SE6200
6200L	SE6300

CONSTRUCTION

300D	(Turbo)
310C	(Turbo)
315C/D	(Turbo)
515B	

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE33115**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TRE54709	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK54709	a) TRE19278	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR124230	**Use 4**	**Use 1**	**Use 4**
	d) TR116281			
	e) TAR65507			
	f) TR54114			
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal. Shaft**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	4) Camshaft 5) Con Rod		
1) TAR67942 2) TRE44574 3) TAT18030 TRE20585 4) TT20094 5) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501579 2) TRE38851 3) TR125863 4) TR97342 5) TR73521 TR106796 **(2)**	1) TR57451 ***x4*** 2) TR80033 ***x8*** 3) TR57160 ***x6*** **(4)** 4) TR82820 **(8)** 5) TRE58347	1) TRE55343 **(3)** 2) TRE31929 3) TRE31973 4) TR54987 5) TR113752 6) TR85363 ***x18*** **(1)**	1) TAT24252 **(6)** 2) TT26321 3) TAT18009 4) TT20034 **(6)** 5) TT20073 ***x8*** 6) TT20070 **(6)**
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR85687 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005
					
1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Water Pump	1) Seal, Injector 2) Injector, Pencil
1) TAR48675 180° F **(5)** 2) TT23620	TRE42211 TRE38009 **(7)**	See Chart on Page IT18	TAR97708 (m) R73604 TRE60489 TRE16666 TAR92641	TRE41157	1) TR60746 TR48000 2) TRE38087

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2) Saran engines, O'ring not included in Gasket Set. Order separately.
(3) May use High Capacity Pump, Oil TRE65580.
(4) TR91708 (Outer Diam. 2.00 mm / 0.078 in) Larger and TR57160R (Inner Diam 0.5 mm / 0.020 in) Smaller, are also available.
(5) Saran Engines may use TRE64354.
(6) Helicoidal Gears.
(7) Saran Engines.
(8) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, and TR119874 Bushing) is available.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4.276D

Small Pin

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

APPLICATIONS:

AGRICULTURAL
2630
2640

CONSTRUCTION
410C

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TRE19831**	TRE27352 **Std.**	TAT21139 **Std.**	TAR97517 **Std.**
1) TAT86990	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TAR97653 **.010**
2) TIK86990	a) TAR63342	TRE27360 **.020**	TAT21134 **.020**	TAR97654 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TAR97655 **.030**
	c) TR125754			
	d) TR80500			
	e) TAR65507			
	f) TM41029	**Use 4**	**Use 1**	**Use 4**
1) Front Seal	**1) O/H Gasket Set**	**1) Bush, Con Rod**	1) Pump, Oil	1) Lower Gear
2) Rear Seal		**2) Bolt, Con Rod**	2) Rocker Arm	2) Lower Bushing
		3) Bush, Bal. Shaft	3) Rocker Shaft	3) Upper Gear
3) Crankshaft	2) Head Gasket Set	4) Bal. Shaft R/H	4) Cyl Hd Cap Screw	4) Upper Bushing
4) Crankshaft, Gear	3) Head Gasket	5) Bal. Shaft L/H		5) Cam. Follower
5) Ring Gear	4) Oil Pan Gasket	6) Camshaft		6) Cam. Gear
6) Sleeve, Front	5) Rocker Cover Gsk			
7) Packing, Sleeve				
1) TAR67942	1) TRE501568	1) TR57450 ***x4***	1) TRE65580 **(1)**	1) TAT24252
2) TRE44574	2) TRE38851	2) TR74195 ***x8*** **(4)**	2) TRE31973	2) TT26321
3) TRE56792	3) TR125863	3) TR57160 ***x6***	3) TR54987	3) TAT18009
4) TT20094	4) TR97342	4) TAR69710 R/H	4) TR85363 ***x18*** **(3)**	4) TT20034
5) TR28811 (129T)	5) TR73521	5) TAR69711 L/H		5) TT20073 ***x8***
TR114282 (142T)		6) TR82820 **(2)**		6) TT20070
6) TR81989				
7) TH35244				

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Repair Kit	Injector, Pencil	Seal, Injector
1) TAR48675 180°F 2) TT23620	TRE42211	Without Impeller: TRE19507 / With Impeller: TRE62658	TRE37503	TR60746 TR48000

(1) This engine may use standard flow Pump, Oil TRE55343.
(2) Threaded Type.
(3) From ESN 137128 Replace all R78558 Cap Screws withFlanged Head Cap Screw TR85363.
(4) When used on connecting rods marked R54617, torque bolts to 95 ft.lbs. Only.

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

4.276D

Large Pin

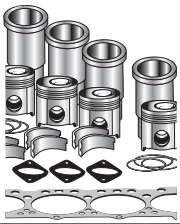
4 Cyl

Bore: 4.19 in / 106.5 mm
Pin Ø: 1.625 in / 41 mm

APPLICATIONS:

CONSTRUCTION

340D, 344E, 410C/D, 440C, 450E/G, 455E/G, 490D, 493D, 510B

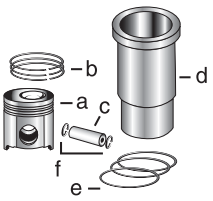


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE63694

2) TIK63694

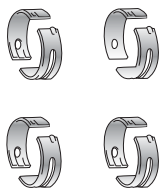


Piston-Liner Kit

TRE28966

Consists of:

a) TRE28919
b) TRE66820
c) TR124230
d) TR80500
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**
TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

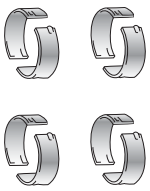
Use 4



Thrust Bearing

TAT21139 **Std.**
TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

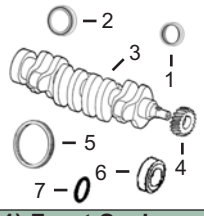
Use 1



Con Rod Bearing

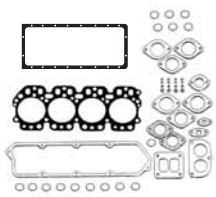
TAR97517 **Std.**
TAR97653 **.010**
TAR97654 **.020**
TAR97655 **.030**

Use 4



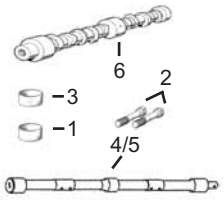
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE56792
4) TT20094
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



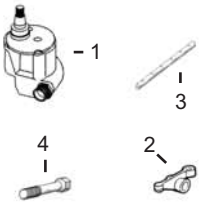
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501568
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



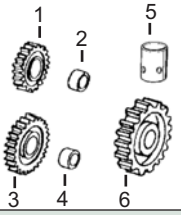
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Bal. Shaft R/H
5) Bal. Shaft L/H
6) Camshaft

1) TR57451 ***x4***
2) TR74195 ***x8*** **(4)**
3) TR57160 ***x6***
4) TAR69710 R/H
5) TAR69711 L/H
6) TR82820 **(2)**



1) Pump, Oil
2) Rocker Arm
3) Rocker Shaft
4) Cyl Hd Cap Screw

1) TRE65580 **(1)**
2) TRE31973
3) TR54987
4) TR85363 ***x18*** **(3)**



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

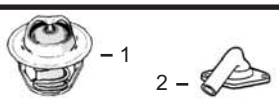
1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

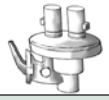
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



1) Thermostat
2) Thermostat Cover

1) TAR48675 180° F
2) TT23620



Fuel Transfer Pump

TRE42211



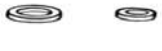
Water Pump Repair Kit

Without Impeller	With Impeller
TRE19507	TRE62658



Injector, Pencil

TRE37503



Seal, Injector

TR60746
TR48000

(1) This engine may use standard flow Pump, Oil TRE55343.
(2) Threaded Type.
(3) From ESN 137128 Replace all R78558 Cap Screws withFlanged Head Cap Screw TR85363.
(4) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4045D

Liter Designated

4 Cyl

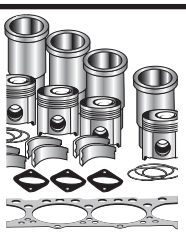
Bore: 4.19 in
106.5 mm
Pin Ø: 1.625 in
41 mm

APPLICATIONS:

AGRICULTURAL
6100
SE6100

CONSTRUCTION
340D 455E
344E 490D
410C/D 493D
440C 510B
450E/G

SKID STEER
270
270 Series II

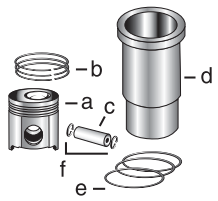


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE63694

2) TIK63694

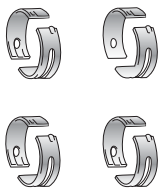


Piston-Liner Kit

TRE28966

Consists of:

a) TRE28919
b) TRE66820
c) TR124230
d) TR80500
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 4

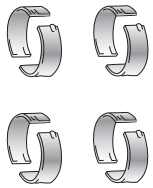


Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

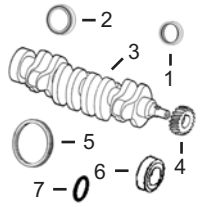


Con Rod Bearing

TAR97517 **Std.**

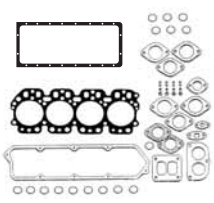
TAR97653 **.010**
TAR97654 **.020**
TAR97655 **.030**

Use 4



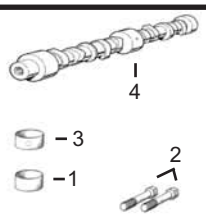
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE56792 (*)
4) TT20094
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



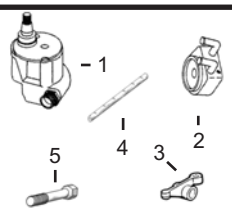
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501568
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



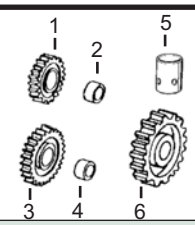
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Camshaft

1) TR57451 *x4*
2) TR74195 *x8* (7)
3) TR57160 *x6*
4) TR82820 (4)



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Cyl Hd Cap Screw

1) TRE65580 (1)
2) TRE31929 (6)
3) TRE31973
4) TR54987
5) TR85363 *x18* (5)



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 *x8*
6) TT20070



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

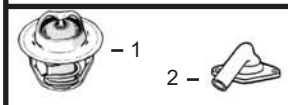
1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



1) Thermostat
2) Thermostat Cover

1) TAR48675 180° F (2)
2) TT23620



Fuel Transfer Pump

TRE42211
TRE38009 (3)



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



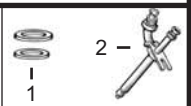
Water Pump

TAR97708 (m) R73604
TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164
TRE16666



Water Pump

TRE41157



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TRE38087

(*) Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.
(1) Saran engines use TRE55343 Standard flow.
(2) Saran engines may use TRE64354.
(3) Saran Engines.
(4) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, Tappets and TR119874 Bushing) is available.
(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(6) Always verify Oil Cooler Type.
(7) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

300 Series

Engine & Equipment Model

4.276T

4 Cyl

Bore: 4.19 in / 106.5 mm
Pin Ø: 1.625 in / 41 mm

APPLICATIONS:

CONSTRUCTION

340D	510C
344G	540D
410C/D (T)	548D
440C	550/A/B/G
444E/G	555/A/B/G
448D	590D
450E/G	595
455E/G	595D
490E	610B/C
495D	650G

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TRE53073**	TRE27352 **Std.**	TAT21139 **Std.**	TAR97517 **Std.**
1) TRE61612	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TAR97653 **.010**
2) TIK61612	a) TRE48469	TRE27360 **.020**	TAT21134 **.020**	TAR97654 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TAR97655 **.030**
	c) TR124230			
	d) TR80500			
	e) TAR65507			
	f) TR54114	**Use 4**	**Use 1**	**Use 4**
1) Front Seal	**1) O/H Gasket Set**	**1) Bush, Con Rod**	1) Pump, Oil	1) Lower Gear
2) Rear Seal		**2) Bolt, Con Rod**	2) Rocker Arm	2) Lower Bushing
3) Crankshaft	2) Head Gasket Set	**3) Bush, Bal. Shaft**	3) Rocker Shaft	3) Upper Gear
4) Crankshaft, Gear	3) Head Gasket	4) Bal. Shaft R/H	4) Cyl Hd Cap Screw	4) Upper Bushing
5) Ring Gear	4) Oil Pan Gasket	5) Bal. Shaft L/H	5) Tensioner, Belt	5) Cam. Follower
6) Sleeve, Front	5) Rocker Cover Gsk	6) Camshaft		6) Cam. Gear
7) Packing, Sleeve				
1) TAR67942	1) TRE501568	1) TR57451 ***x4***	1) TRE65580 (1)	1) TAT24252
2) TRE44574	2) TRE38851	2) TR74195 ***x8*** (5)	2) TRE31973	2) TT26321
3) TRE56792	3) TR125863	3) TR57160 ***x6***	3) TR54987	3) TAT18009
4) TT20094	4) TR97342	4) TAR69710 R/H	4) TR85363 ***x18*** (4)	4) TT20034
5) TR28811 (129T)	5) TR73521	5) TAR69711 L/H	5) TAL110621	5) TT20073 ***x8***
TR114282 (142T)		6) TR82820 (3)		6) TT20070
6) TR81989				
7) TH35244				

Valve, Intake	Valve, Exhaust (2)	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR83071 **Std.** TR89223 **.003** TR89224 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
1) TAR48675 180° F 2) TT23620	TRE42211	TRE19510	TRE11348	TRE37503	TR60746 TR48000

(1) This engine may use Standard Flow Pump, Oil TRE55343.
(2) Do not use 45° Valves with RE56545 Head.
(3) Threaded Type.
(4) From ESN 137128 Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

4045T

Liter Designated

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.625 in
41 mm

APPLICATIONS:

AGRICULTURAL

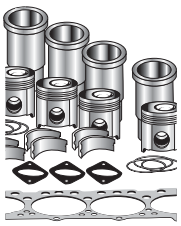
6400 6500L
6400L 6700
6500 SE6400

CONSTRUCTION

340D 510C
344G 510D
410C/D (T) 540D
440C 548D
444E/G 550/A/B/G
448D 555/A/B/G
450E/G 590D
455E/G 595D
490E 610B/C
495D 650G

SKID STEER

280
280 Series II

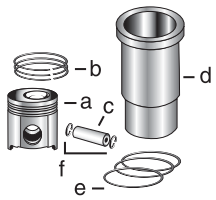


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE61612

2) TIK61612

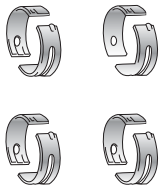


Piston-Liner Kit

TRE53073

Consists of:

a) TRE48469
b) TRE66820
c) TR124230
d) TR80500
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**
TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

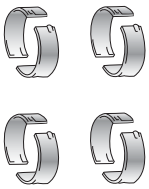
Use 4



Thrust Bearing

TAT21139 **Std.**
TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

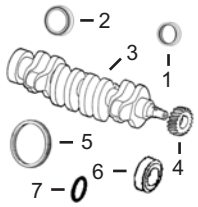
Use 1



Con Rod Bearing

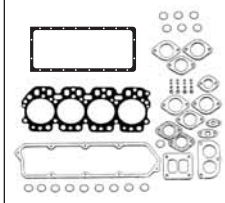
TAR97517 **Std.**
TAR97653 **.010**
TAR97654 **.020**
TAR97655 **.030**

Use 4



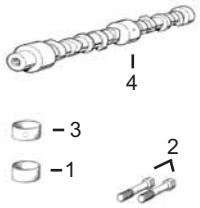
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE56792 (*)
4) TT20094
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



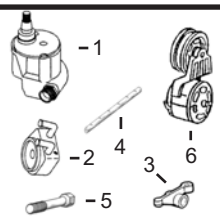
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501568
2) TRE38851
3) TR125863
4) TR97342
5) TR73521



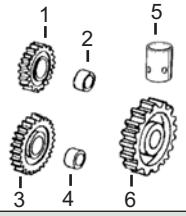
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal. Shaft
4) Camshaft

1) TR57451 ***x4***
2) TR74195 ***x8*** **(7)**
3) TR57160 ***x6***
4) TR82820 **(4)**



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Cyl Hd Cap Screw
6) Tensioner, Belt

1) TRE65580 **(1)**
2) TRE31929 **(6)**
3) TRE31973
4) TR54987
5) TR85363 ***x18*** **(5)**
6) TAL110621



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x8***
6) TT20070



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

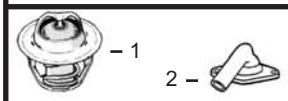
1) TR98063 **Std.**
TR98335 **O/S.**
2) TR85687 **Std.**
TR93910 **O/S.**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



1) Thermostat
2) Thermostat Cover

1) TAR48675 180° F **(2)**
2) TT23260



Fuel Transfer Pump

TRE42211
TRE38009 **(3)**



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



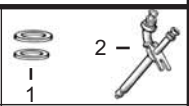
Water Pump

TAR97708 (m) R73604
TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164
TRE16666



Water Pump

TRE41157



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TRE38087

(*) Crankshaft (m) R54501. This Engines model may also use crankshaft TRE54883 60mm Snout; (m) R90825, R120009. PLEASE VERIFY.
(1) Saran engines use TRE55343 Standard flow.
(2) Saran engines may use TRE64354.
(3) Saran Engines.
(4) Threaded Type. For Late 4039 models TRE55901 Kit (Camshaft, Tappets and TR119874 Bushing) is available.
(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(6) Always verify Oil Cooler Type.
(7) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs.

300 Series

Engine & Equipment Model

6.303

To 158,975

O'rings on Liner

6 Cyl

Bore: 3.86 in
98 mm
Pin Ø: 1.185 in
30 mm

Block (m):
T24967, T24968

Con Rod (m):
T20007, R81410

APPLICATIONS:

CONSTRUCTION
544

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit **1) TOK6481** **2) TIK6481**	**TPLK481** Consists of: a) TT23481 b) TAR70633 c) TT23482 d) TAR51902 e) TR51112	TRE27352 **Std.** TRE27353 **.010** TRE27360 **.020** TRE27368 **.030** **Use 6**	TAT21139 **Std.** TAT21132 **.010** TAT21134 **.020** TAT21136 **.030** **Use 1**	TRE27348 **Std.** TRE27349 **.010** TRE27358 **.020** TRE27364 **.030** **Use 6**
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Camshaft 4) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
1) TAR67942 2) TRE44574 **(1)** 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE38568 2) TRE38571 3) TR98462 4) TR97344 5) TR75728	1) TT23471 ***x6*** 2) TR74194 ***x12*** **(2)** 3) TR82821 **(3)** 4) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TAR70601 180° F (*) TAR77411 195° F (*)	TRE42211	TRE19510	TMX132	TAR89564	TR60746 TR48000

(*) Verify JD parts manual.
(1) Do not use with flywheel housing (m) T20300,T22991.
(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(3) Threaded Type.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.303

From 158,976

O'rings on Block

6 Cyl

Bore: 3.86 in
98 mm
Pin Ø: 1.185 in
30 mm

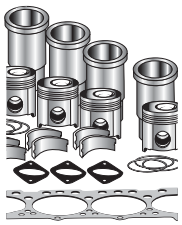
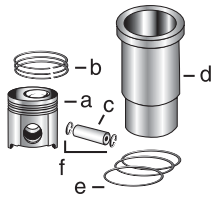
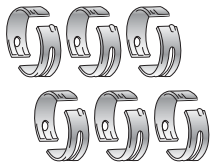
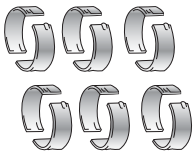
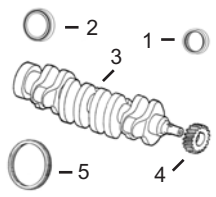
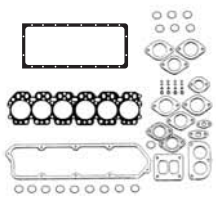
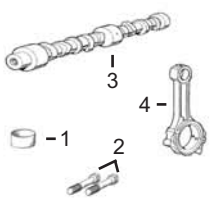
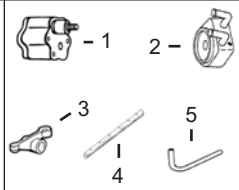
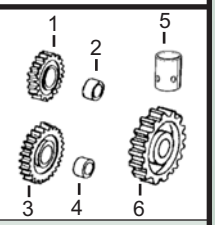
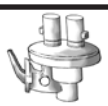
Block (m):
R53260, R55035, R55351 R72970, R79280, T32346

Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
3420

CONSTRUCTION
540
544

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TAR71591**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK6591	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK6591	a) TT23481	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR70633	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT23482			
	d) TT32340			
	e) TAR71617			
	f) TR51112	**Use 6**	**Use 1**	**Use 6**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
1) TAR67942 2) TRE44574 **(1)** 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE38568 2) TRE38571 3) TR98462 4) TR97344 5) TR75728	1) TT23471 ***x6*** 2) TR74194 ***x12*** **(2)** 3) TR82821 **(3)** 4) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
				
Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TAR70601 180°F **(*)** TAR77411 195°F **(*)**	TRE42211	TRE19510	TMX132	TAR89564	TR60746 TR48000

(*) Verify JD parts manual.
(1) Do not use with fly wheel housing (m) T20300, T22991.
(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(3) Threaded Type.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

6.329

To 277,548

O'rings on liner

Small Pin

6 Cyl

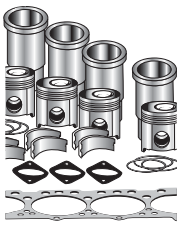
Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

Con Rod (m):
T20007, R81410

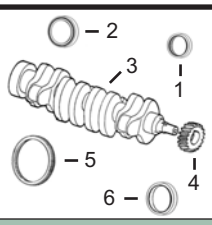
APPLICATIONS:

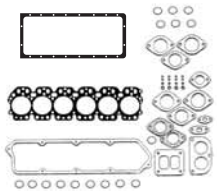
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699
3120

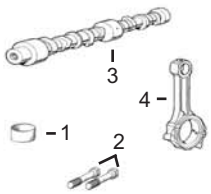
CONSTRUCTION
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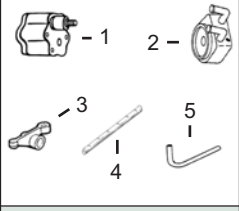


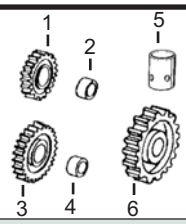
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TPLK310**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK6310	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK6310	a) TAR78310	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR55759	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TT26149	**Use 6**	**Use 1**	**Use 6**
	d) TAR51903			
	e) TR51112			









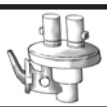


1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR114282 (142T) 6) TR81989	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TT23471 ***x6*** 2) TR74194 ***x12*** **(1)** 3) TR82821 **(2)** 4) TAT18005	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070



Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627











Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TAR70601 180°F **(*)** TAR77411 195°F **(*)**	TRE42211	TMX9398	TMX131	TAR89564	TR60746 TR48000

(*) Verify JD parts manual.
(1) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(2) Threaded Type.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.329

To 277,548

O'rings on block

Small Pin

6 Cyl

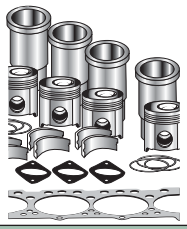
Bore: 4.02 in
102 mm
Pin Ø: 1.185 in
30 mm

Con Rod (m):
T20007, R81410

APPLICATIONS:

AGRICULTURAL
499
699
3120
4030
4420

CONSTRUCTION
540A
544A
570A

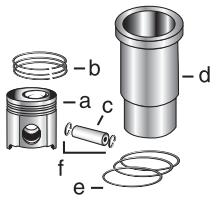


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK6593

2) TIK6593

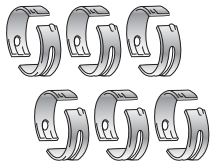


Piston-Liner Kit

TAR71593

Consists of:

a) TAR78310
b) TAR55759
c) TT26149
d) TR116463
e) TAR71618
f) TR51112



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 6



Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

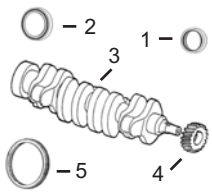


Con Rod Bearing

TRE27348 **Std.**

TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

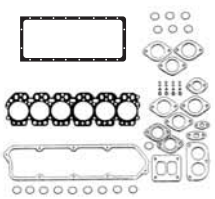
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

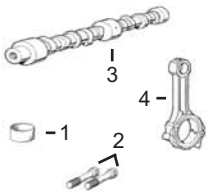
1) TAR67942
2) TRE44574
3) TAT22562
4) TT20094
5) TR114282 (142T)



1) O/H Gasket Set

2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

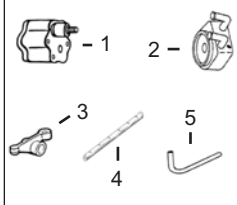
1) TRE501580
2) TRE38852
3) TR114157
4) TR97344 **(1)**
5) TR75728



1) Bush, Con Rod
2) Bolt, Con Rod

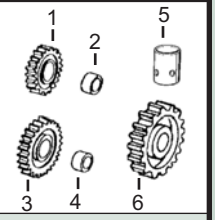
3) Camshaft
4) Con Rod

1) TT23471 ***x6***
2) TR74194 ***x12*** **(2)**
3) TR82821 **(3)**
4) TAT18005



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube

1) TRE55343
2) TRE31929
3) TRE31973
4) TR54986
5) TR113752



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 ***x12***
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

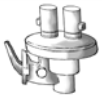
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostats

TAR70601 180°F **(*)**
TAR77411 195°F **(*)**



Fuel Transfer Pump

TRE42211



Water Pump Repair Kit

Without Impeller	With Impeller
TMX9398	TMX131



Injector, Pencil

TAR89564



Seal, Injector

TR60746
TR48000

(*) Verify JD parts manual.
(1) For Tractor Model 4030 order TR97345.
(2) Use TR74194 with C.Rod (m) T20007; use TR80033 with C.Rod (m) R81410.
(3) Threaded Type.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

6.329

From 277,549

O'rings on block

Large Pin

6 Cyl

Bore: 4.02 in
102 mm
Pin Ø: 1.375 in
35 mm

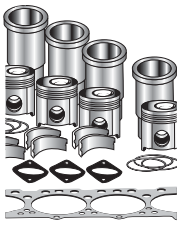
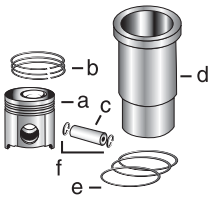
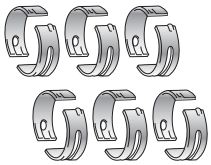
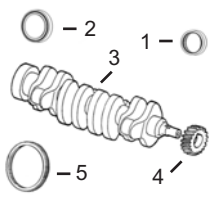
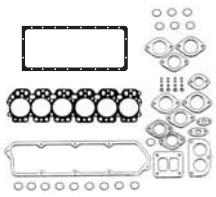
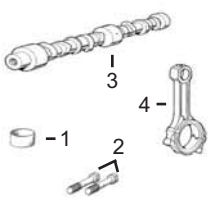
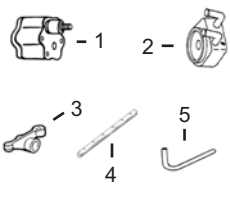
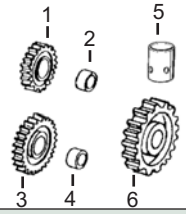
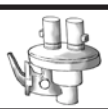
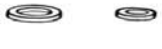
APPLICATIONS:

AGRICULTURAL

499 3530
950 4030
960 4400
2840 4425
3130

CONSTRUCTION

444
444C
444D
444CH
544A
570A
710B

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TAR78041**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TAT86986	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK86986	a) TAR77762	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TAR55759	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR125754			
	d) TR116463	**Use 6**	**Use 1**	**Use 6**
	e) TAR71618			
	f) TM41029			
				
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Camshaft 4) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR114282 (142T)	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 **(1)** 5) TR75728	1) TR55647 ***x6*** 2) TR74194 ***x12*** 3) TR82821 **(2)** 4) TRE16495 **(3)**	1) TRE55343 2) TRE31929 3) TRE31973 4) TR54986 5) TR113752	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
				
Thermostats	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TAR70601 180 °F **(*)** TAR77411 195 °F **(*)** TRE33705 180 °F **(*)**	TRE42211	TMX9398	TMX131	TAR89564	TR60746 TR48000

(*) Verify JD manual.
(1) For Tractor Model 4030 order TR97345.
(2) Threaded Type.
(3) For Connecting Rods RE16495 and RE21076 Use Connecting Rod Bolt TR80033.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.359D

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

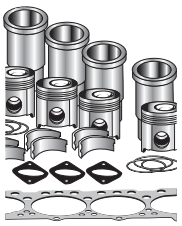
APPLICATIONS:

AGRICULTURAL

955	3040	3640
975	3050	4420
985	3140	4530
1055	3150	7440
1075	3155	7445
2940	3155TSS	9900
2950	3255	9910
2955	3350	9920

CONSTRUCTION

444D
570B

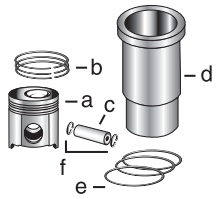


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE50784

2) TIK50784

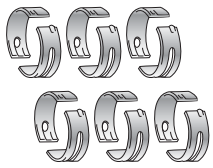


Piston-Liner Kit

TRE30250

Consists of:

a) TRE19282
b) TR66820
c) TR125754
d) TR116281
e) TAR65507
f) TM41029



Main Bearing

TRE27352	**Std.**
TRE27353	**.010**
TRE27360	**.020**
TRE27368	**.030**

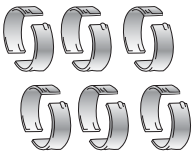
Use 6



Thrust Bearing

TAT21139	**Std.**
TAT21132	**.010**
TAT21134	**.020**
TAT21136	**.030**

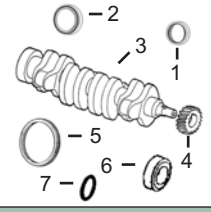
Use 1



Con Rod Bearing

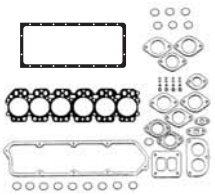
TRE27348	**Std.**
TRE27349	**.010**
TRE27358	**.020**
TRE27364	**.030**

Use 6



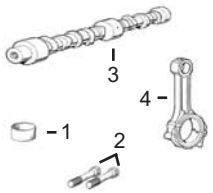
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TAT22562
4) TT20094
5) TR28811 (129T)
6) TR81989
7) TH35244



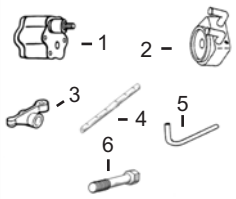
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501580
2) TRE38852
3) TR114157
4) TR97344
5) TR75728



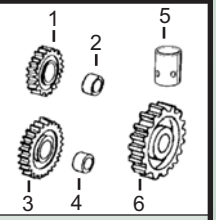
1) Bush, Con Rod
2) Bolt, Con Rod
3) Camshaft
4) Con Rod

1) TR55647 *x6*
2) TR80033 *x12*
3) TR82821 (3)
4) TRE16495



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm
4) Rocker Shaft
5) Pump, Oil Tube
6) Cyl Hd Cap Screw

1) TRE55343 (2)
2) TRE31929
3) TRE31973
4) TR54986
5) TR113752
6) TR85363 *x26* (4)



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252
2) TT26321
3) TAT18009
4) TT20034
5) TT20073 *x12*
6) TT20070



Valve, Intake

TR79623 **Std.**
TR79628 **.003**
TR79629 **.015**

Valve, Exhaust

TR79624 **Std.**
TR79625 **.003**
TR79626 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR73064 **Std.**
2) TR51734 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

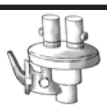
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostat

TAR48675 180° F (1)



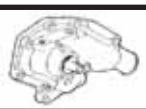
Fuel Transfer Pump

TRE42211



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

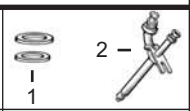
TRE31600 (5)



Transmission Oil Pump

TAL120106 | TAL68094

Verify P/N for your application



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TAR89564

(1) Saran engines may use TRE64354.
(2) Some Engines Models may use High Capacity Pump, Oil TRE65580.
(3) Threaded Type.
(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) Check application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

6059D

Liter Designated

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

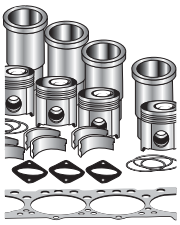
APPLICATIONS:

AGRICULTURAL

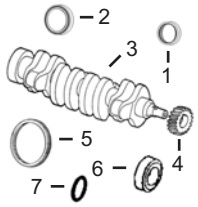
2955	3650
3155	9900
3155TSS	9910
3255	9920
3640	

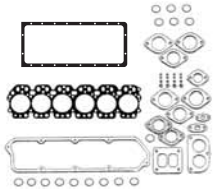
CONSTRUCTION

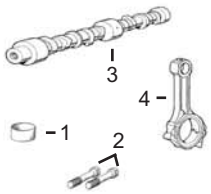
444D
570B

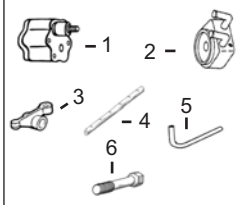


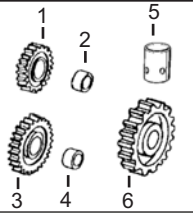
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit	**TRE30250**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TRE50784	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TRE27349 **.010**
2) TIK50784	a) TRE19282	TRE27360 **.020**	TAT21134 **.020**	TRE27358 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TRE27364 **.030**
	c) TR125754	**Use 6**	**Use 1**	**Use 6**
	d) TR116281			
	e) TAR65507			
	f) TM41029			







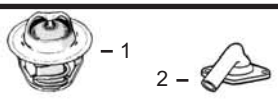


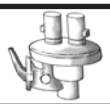


1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft 4) Con Rod		
1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR55647 ***x6*** 2) TR80033 ***x12*** 3) TR82821 **(7)** 4) TRE16495	1) TRE55343 **(2)** 2) TRE31929 3) TRE31973 **(5)** 4) TR54986 5) TR113752 6) TR85363 ***x26*** **(1)**	1) TAT24252 **(4)** 2) TT26321 3) TAT18009 **(4)** 4) TT20034 5) TT20073 ***x12*** 6) TT20070 **(4)**

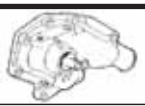


Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR85687 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

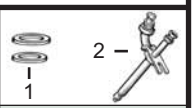












1) Thermostat 2) Thermostat Cover	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Transmission Oil Pump		1) Seal, Injector 2) Injector, Pencil
			TAR97708 (m) R73604	TAL120106	TAL68094	
TAR48675 180° F **(3)**	TRE42211 TRE38009 **(6)**	See Chart on Page IT18	TRE16666 **(8)** TAR92641 **(8)** TRE31600 **(8)**	Verify P/N for your application		1) TR60746 TR48000 2) TRE36936

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2) Some of these engine models may use High Capacity Pump, Oil TRE65580.
(3) Saran engines may use TRE64354.
(4) Helicoidal Gears.
(5) To ESN 379968.
(6) Saran Engines.
(7) Threaded Type.
(8) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.359T

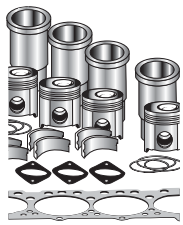
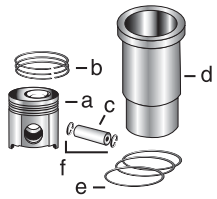
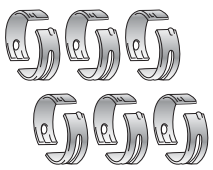
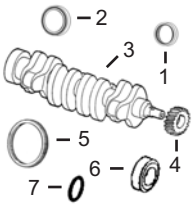
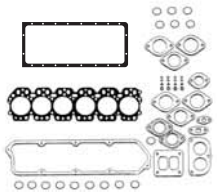
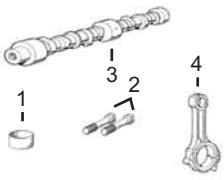
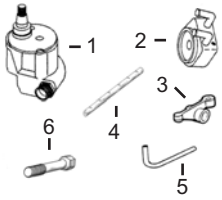
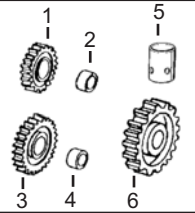
6 Cyl

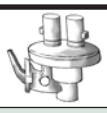
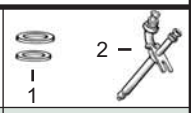
Bore: 4.19 in / 106.5 mm
Pin Ø: 1.62 in / 41 mm

APPLICATIONS:

AGRICULTURAL
3140C 7445
3540 7484
3550 9400
4050 9930
7200

CONSTRUCTION
444D
544E/EH/G
570B
710B/C

	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
1) Engine O/H Kit **2) Engine I/F Kit** **1) TRE50783** **2) TIK50783**	**TRE33115** Consists of: a) TRE19278 b) TRE66820 c) TR124230 d) TR116281 e) TAR65507 f) TR54114	TRE27352 **Std.** TRE27353 **.010** TRE27360 **.020** TRE27368 **.030** **Use 6**	TAT21139 **Std.** TAT21132 **.010** TAT21134 **.020** TAT21136 **.030** **Use 1**	TRE27348 **Std.** TRE27349 **.010** TRE27358 **.020** TRE27364 **.030** **Use 6**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Camshaft 4) Con Rod	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm 4) Rocker Shaft 5) Pump, Oil Tube 6) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
1) TAR67942 2) TRE44574 3) TAT22562 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 ***x6*** 2) TR80033 ***x12*** 3) TR82821 **(6)** 4) TRE58347	1) TRE65580 **(3)** 2) TRE31929 3) TRE31973 **(5)** 4) TR54986 5) TR113752 6) TR85363 ***x26*** **(1)**	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070
	Valve, Intake	Valve, Exhaust **(4)**	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR83071 **Std.** TR89223 **.003** TR89224 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Transmission Oil Pump	1) Seal, Injector 2) Injector, Pencil
TAR48675 180° F **(2)**	TRE42211	Without Impeller / With Impeller See Chart on Page IT18	TAL120106 Verify P/N for your application	1) TR60746 TR48000 2) TRE37503

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2) Saran engines may use TRE64354.
(3) Some Engine Models may use Standard Capacity Pump, Oil TRE55343.
(4) Do not use 45° Valves with RE56545 Head.
(5) To ESN 379968.
(6) Threaded Type.

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

6059T

Liter Designated

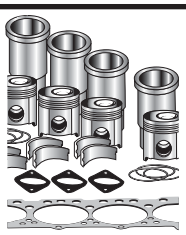
6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

APPLICATIONS:

AGRICULTURAL
3140C
6600
7200
7445
7484
9400
9930

CONSTRUCTION
444D
544G/E/EH
570B
710B/C

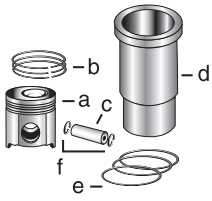


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE50783

2) TIK50783

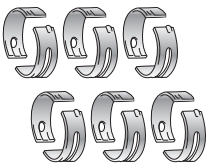


Piston-Liner Kit

TRE33115

Consists of:

a) TRE19278
b) TRE66820
c) TR124230
d) TR116281
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 6



Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

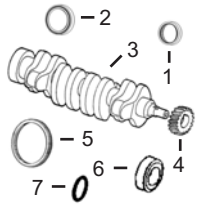


Con Rod Bearing

TRE27348 **Std.**

TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

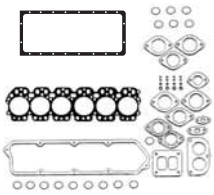
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

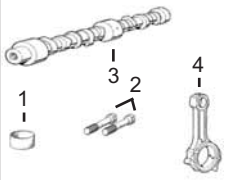
1) TAR67942
2) TRE44574
3) TAT22562
4) TT20094
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



1) O/H Gasket Set

2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

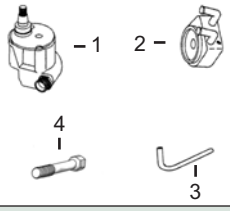
1) TRE501580
2) TRE38852
3) TR114157
4) TR97344
5) TR75728



1) Bush, Con Rod
2) Bolt, Con Rod

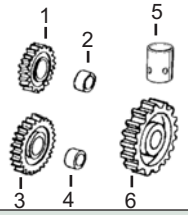
3) Camshaft
4) Con Rod

1) TR57451 ***x6***
2) TR80033 ***x12***
3) TR82821 **(6)**
4) TRE58347



1) Pump, Oil
2) Oil Cooler
3) Pump, Oil Tube
4) Cyl Hd Cap Screw

1) TRE65580 **(3)**
2) TRE31929
3) TR113752
4) TR85363 ***x26*** **(1)**



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam. Gear

1) TAT24252 **(4)**
2) TT26321
3) TAT18009 **(4)**
4) TT20034
5) TT20073 ***x12***
6) TT20070 **(4)**



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

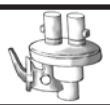
1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TAR48675 180° F **(2)**



Fuel Transfer Pump

TRE42211
TRE38009 **(5)**



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

TAR97708
(m) R73604
TRE16666 **(7)**
TAR92641 **(7)**



Water Pump

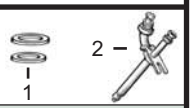
TRE41157



Transmission Oil Pump

TAL120106

Verify P/N for your application



1) Seal, Injector
2) Injector, Pencil

1) TR60746
TR48000
2) TRE38087

(1) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(2) Saran engines may use TRE64354.
(3) Some Engine Models may use Standard Capacity Pump, Oil TRE55343.
(4) Helicoidal Gears.
(5) Saran Engines.
(6) Threaded Type.
(7) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.414D

Large Pin

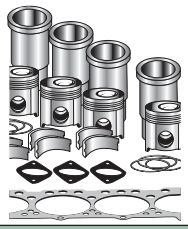
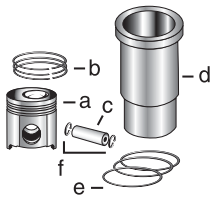
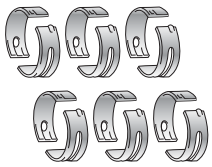
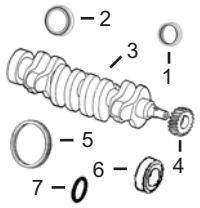
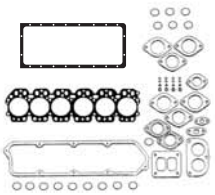
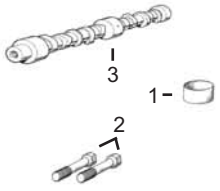
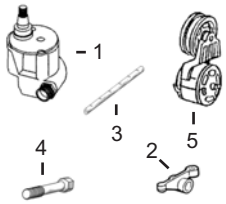
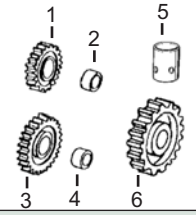
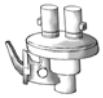
6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

APPLICATIONS:

OEM
Marine
Ag

CONSTRUCTION
544C

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**	
2) Engine I/F Kit **1) TOK3694** **2) TIK3694**	**TRE28966** Consists of: a) TRE28919 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114	TRE27352 **Std.** TRE27353 **.010** TRE27360 **.020** TRE27368 **.030** **Use 6**	TAT21139 **Std.** TAT21132 **.010** TAT21134 **.020** TAT21136 **.030** **Use 1**	TAR97517 **Std.** TAR97653 **.010** TAR97654 **.020** TAR97655 **.030** **Use 6**	
					
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw 5) Tensioner, Belt	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft			
1) TAR67942 2) TRE44574 3) TRE45517 **(1)** 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 ***x6*** 2) TR74195 ***x12*** **(4)** 3) TR82821 **(2)**	1) TRE65580 2) TRE31973 3) TR54986 4) TR85363 ***x26*** **(3)** 5) TAL110621	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR79623 **Std.** TR79628 **.003** TR79629 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627
					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Injector, Pencil	Seal, Injector
		Without Impeller	With Impeller		
TAR48675 180° F	TRE42211	TRE19510	TRE11348	TRE37503	TR60746 TR48000

(1) Crankshaft (m) R104523.
(2) Threaded Type.
(3) From ESN 137165 The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.
(4) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

300 Series

Engine & Equipment Model

6068D

Liter Designated Large Pin

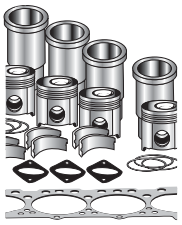
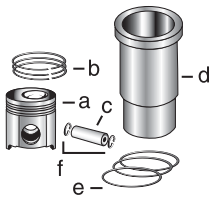
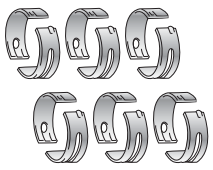
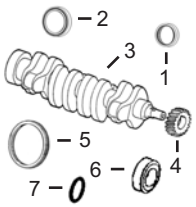
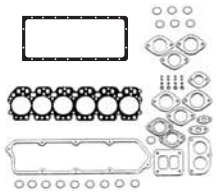
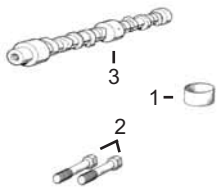
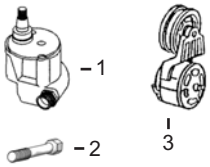
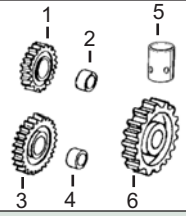
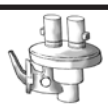
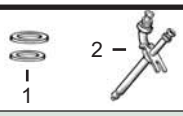
6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

APPLICATIONS:

AGRICULTURAL
6506

OEM
Marine
Ag
Construction

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE28966**	TRE27352 **Std.**	TAT21139 **Std.**	TAR97517 **Std.**
1) TOK3694	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TAR97653 **.010**
2) TIK3694	a) TRE28919	TRE27360 **.020**	TAT21134 **.020**	TAR97654 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TAR97655 **.030**
	c) TR124230			
	d) TR80500			
	e) TAR65507			
	f) TR54114	**Use 6**	**Use 1**	**Use 6**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Cyl Hd Cap Screw 3) Tensioner, Belt	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft		
1) TAR67942 2) TRE44574 3) TRE45517 **(3)** 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 ***x6*** 2) TR74195 ***x12*** **(5)** 3) TR82821 **(2)**	1) TRE65580 2) TR85363 ***x26*** **(4)** 3) TAL110621	1) TAT24252 **(1)** 2) TT26321 3) TAT18009 **(1)** 4) TT20034 5) TT20073 ***x12*** 6) TT20070 **(1)**
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR85687 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005
				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		Water Pump	1) Seal, Injector 2) Injector, Pencil
TRE64354 180° F	TRE42211	Without Impeller TRE19510	With Impeller TRE11348	TRE41157 TRE16666 **(6)**	1) TR60746 TR48000 2) TRE38087

(1) Helicoidal Gears.
(2) Threaded Type.
(3) Crankshaft (m) R104523.
(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.
(6) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6.414T

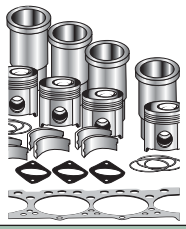
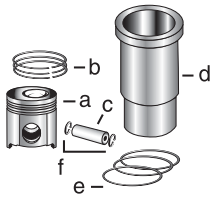
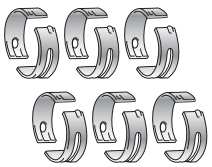
6 Cyl

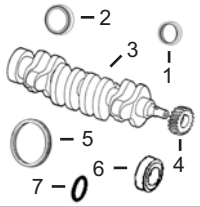
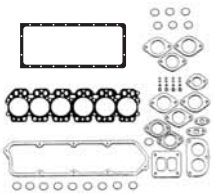
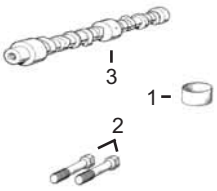
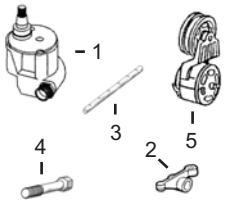
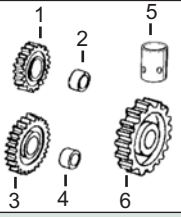
Bore: 4.19 in / 106.5 mm
Pin Ø: 1.62 in / 41 mm

APPLICATIONS:

CONSTRUCTION

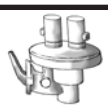
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1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE53073**	TRE27352 **Std.**	TAT21139 **Std.**	TAR97517 **Std.**
1) TOK61614	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TAR97653 **.010**
2) TIK61614	a) TRE48469	TRE27360 **.020**	TAT21134 **.020**	TAR97654 **.020**
	b) TRE66820	TRE27368 **.030**	TAT21136 **.030**	TAR97655 **.030**
	c) TR124230			
	d) TR80500			
	e) TAR65507			
	f) TR54114	**Use 6**	**Use 1**	**Use 6**

				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Rocker Arm 3) Rocker Shaft 4) Cyl Hd Cap Screw 5) Tensioner, Belt	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft		
1) TAR67942 2) TRE44574 3) TRE45517 **(3)** 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 ***x6*** 2) TR74195 ***x12*** **(5)** 3) TR82821 **(2)**	1) TRE65580 2) TRE31973 3) TR54986 4) TR85363 ***x26*** **(4)** 5) TAL110621	1) TAT24252 2) TT26321 3) TAT18009 4) TT20034 5) TT20073 ***x12*** 6) TT20070



Valve, Intake	Valve, Exhaust **(1)**	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR83071 **Std.** TR89223 **.003** TR89224 **.015**	TR79624 **Std.** TR79625 **.003** TR79626 **.015**	1) TR73064 **Std.** 2) TR51734 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Injector, Pencil	Seal, Injector
		Without Impeller / With Impeller		
TAR48675 180° F	TRE42211	See Chart on Page IT18	TRE37503	TR60746 TR48000

(1) Do not use 45° Valves with RE56545 Head.
(2) Threaded Type.
(3) Crankshaft (m) R104523.
(4) From ESN 137165 The Cylinder Head Cap Screw is 4.5 in (114 mm) in Length.
(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.

For Additional JOHN DEERE® Products Refer to Page T95

300 Series

Engine & Equipment Model

6068T

Liter Designated

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

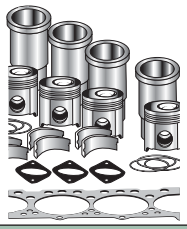
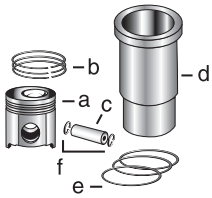
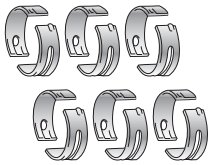
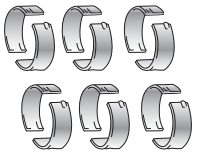
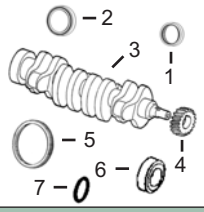
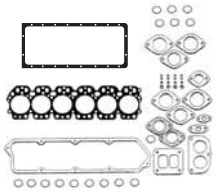
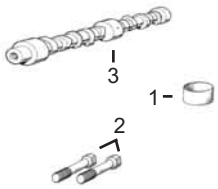
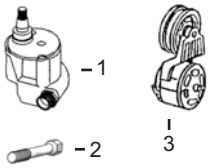
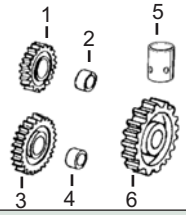
APPLICATIONS:

AGRICULTURAL

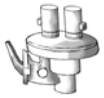
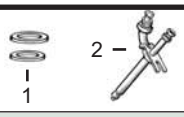
6800 7500
6900 7600
7400 9400
7410

CONSTRUCTION

544B/C/D 672A/B
624E/EH/G 690D/E
640D 693D
643/D 750/B
648D 755
648E 755A/B
653 755BMIL
655A/B 790E
670A/B

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE53073**	TRE27352 **Std.**	TAT21139 **Std.**	TAR97517 **Std.**
1) TOK61614	Consists of:	TRE27353 **.010**	TAT21132 **.010**	TAR97653 **.010**
2) TIK61614	a) TRE48469 b) TRE66820 c) TR124230 d) TR80500 e) TAR65507 f) TR54114	TRE27360 **.020** TRE27368 **.030**	TAT21134 **.020** TAT21136 **.030**	TAR97654 **.020** TAR97655 **.030**
		Use 6	**Use 1**	**Use 6**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Cyl Hd Cap Screw 3) Tensioner, Belt	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam. Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	3) Camshaft		
1) TAR67942 2) TRE44574 3) TRE45517 **(3)** 4) TT20094 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501580 2) TRE38852 3) TR114157 4) TR97344 5) TR75728	1) TR57451 ***x6*** 2) TR74195 ***x12*** **(5)** 3) TR82821 **(2)**	1) TRE65580 2) TR85363 ***x26*** **(4)** 3) TAL110621	1) TAT24252 **(1)** 2) TT26321 3) TAT18009 **(1)** 4) TT20034 5) TT20073 ***x12*** 6) TT20070 **(1)**

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR85687 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Water Pump	1) Seal, Injector 2) Injector, Pencil
TRE33705 180° F	TRE42211	Without Impeller / With Impeller See Chart on Page IT18	TRE41157 TRE16666 **(6)**	1) TR60746 TR48000 2) TRE38087

(1) Helicoidal Gears.
(2) Threaded Type.
(3) Crankshaft (m) R104523.
(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) When used on connecting rods marked R56187, torque bolts to 95 ft.lbs. Only.
(6) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

4.270

To 280,000

4 Cyl

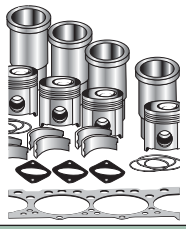
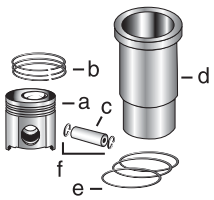
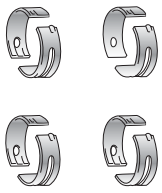
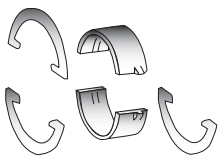
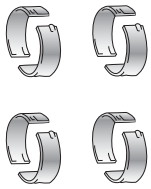
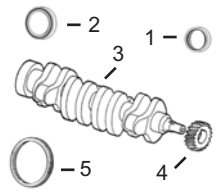
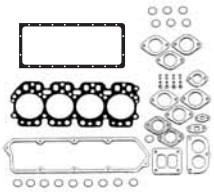
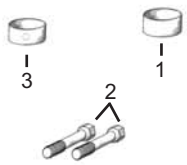
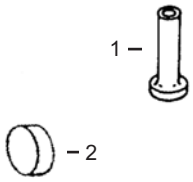
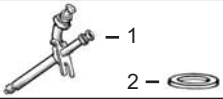
Bore: 4.25 in
108 mm
Pin Ø: 1.50 in
38 mm

Block (m):
R46350, R46430, R40910

APPLICATIONS:

AGRICULTURAL
3020

CONSTRUCTION
500
500A

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE23170**	TAR74814 **Std.**	TAR77748 **Std.**	TAR45723 **Std.**
1) TRG17898	Consists of:	TAR74816 **.010**	TAR77750 **.010**	TAR46396 **.010**
2) TIK17898	a) TRE23172	TAR74817 **.020**	TAR77751 **.020**	TAR46397 **.020**
	b) TAR55630	TAR74818 **.030**	TAR77752 **.030**	TAR46398 **.030**
	c) TR44161	**Use 4**	**Use 1**	**Use 4**
	d) TR40615		**Thrust Washer**	
	e) TAR65507		TAR77747 **Std.**	
	f) TH80753		TAR77753 **.007**	
			Use 3, Order Qty 1	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Cam Follower 2) Plug, Camshaft	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE520036 3) TAR40485 **(1)** c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 ***x4*** 2) TR66452 ***x8*** 3) TR46903 ***x3***	1) TR52773 ***x8*** 2) TR26115	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 **Std.** **To ESN 157,001** TR44174 **Std.** **ESN 157,002-280,000**	TR26123 **Std.** **To ESN 157,001** TR44175 **Std.** **ESN 157,002-280,000**	1) TR43680 **Std.** 2) TR43681 **Std.**	1) TB367R ***x16***	1) TR26125 2) TR28654 3) TR87627
				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	1) Injector, Pencil 2) Seal, Injector	Water Pump
		Without Impeller / With Impeller		
TR36846 180° F	TAR53567	See Chart on Page IT18	1) TAR50781 2) TR60746 TR48000	TAR45332

(1) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**.

400 Series

Engine & Equipment Model

4.270

To 280,000

4 Cyl

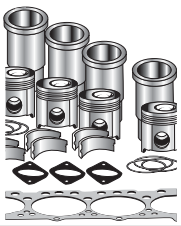
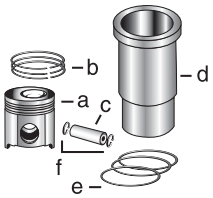
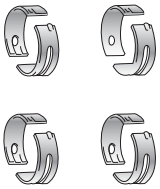
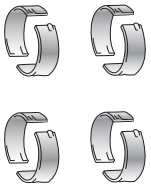
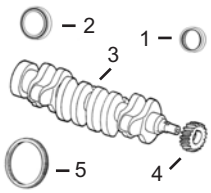
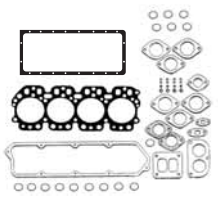
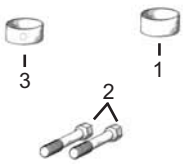
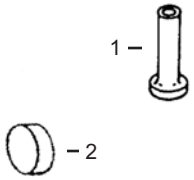
Bore: 4.25 in / 108 mm
Pin Ø: 1.50 in / 38 mm

Block (m):
R26160, R32020, R40850

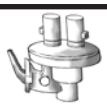
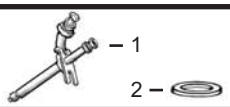
APPLICATIONS:

AGRICULTURAL
3010
3020

CONSTRUCTION
500
500A
500B
500C
510

	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
1) Eng O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Eng I/F Kit	**TRE23173** **TRE23173HC**	TAR49243 **Std.**	TAR49242 **Std.**	TAR45723 **Std.**
1) TRG17899 **TRG17899HC**	Consists of:	TAR49245 **.010** TAR49246 **.020** TAR49247 **.030**	TAR49238 **.010** TAR49239 **.020** TAR49240 **.030**	TAR46396 **.010** TAR46397 **.020** TAR46398 **.030**
2) TIK17899 **TIK17899HC**	a) TRE23172 TRE23172HC **(2)** b) TAR55630 TAR65502 **(3)** c) TR44161 d) TR32050 e) TAR40155 f) TH80753	**Use 4**	**Use 1**	**Use 4**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Cam Follower 2) Plug, Camshaft	
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE520036 3) TAR40485 **(1)** c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 ***x4*** 2) TR66452 ***x8*** 3) TR46903 ***x3***	1) TR26342 ***x8*** 2) TR26115	

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 **Std.** **To ESN 157,001** TR44174 **Std.** **ESN 157,002-280,000**	TR26123 **Std.** **To ESN 157,001** TR44175 **Std.** **ESN 157,002-280,000**	1) TR43680 **Std.** 2) TR43681 **Std.**	1) TB367R ***x16***	1) TR26125 2) TR28654 3) TR87627

				
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	1) Injector, Pencil 2) Seal, Injector	Water Pump
TR36846 180° F	TAR53567 TRE42211	Without Impeller / With Impeller See Chart on Page IT18	1) TAR50781 2) TR60746 TR48000	TAR45332

(1) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**.
(2) This piston uses ring set **TAR65502**.
(3) Used with **TRE23172HC** Piston.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

4.270

To 280,000

Early Power Booster

4 Cyl

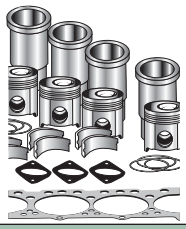
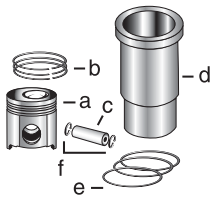
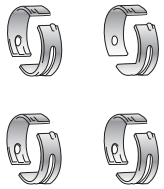
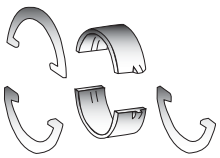
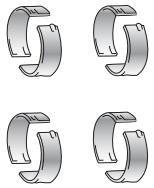
Bore: 4.25 in
108 mm
Pin Ø: 1.50 in
38 mm

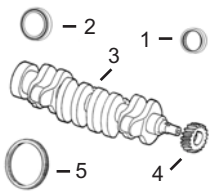
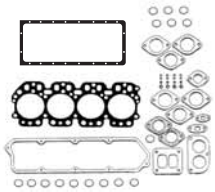
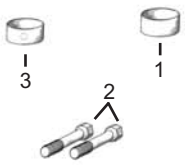
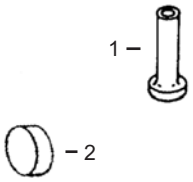
Block (m):
R26160, R32020, R40850

APPLICATIONS:

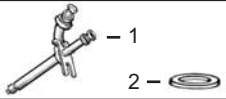
AGRICULTURAL
3010
3020

CONSTRUCTION
500
500A
500B
500C
510

	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
1) Engine O/H Kit				
2) Engine I/F Kit	**TPLK163**	TAR49243 **Std.**	TAR49242 **Std.**	TAR45723 **Std.**
1) TOK4163	Consists of:	TAR49245 **.010**	TAR49238 **.010**	TAR46396 **.010**
2) TIK4163	a) TRE23163 b) TAR65502 c) TR44161 d) TR32050 e) TAR40155 f) TH80753	TAR49246 **.020** TAR49247 **.030**	TAR49239 **.020** TAR49240 **.030**	TAR46397 **.020** TAR46398 **.030**
		Use 4	**Use 1**	**Use 4**

				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Cam Follower 2) Plug, Camshaft	1) Head Bolt Kit
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE520036 3) TAR40485 **(1)** c/s (m) R40570 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53033 2) TAR53032 3) TR45616 4) TR71917	1) TR30939 ***x4*** 2) TR66452 ***x8*** 3) TR46903 ***x3***	1) TR26342 ***x8*** 2) TR26115	1) TMX364 **(2)**

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 **Std.** **To ESN 157,001** TR44174 **Std.** **ESN 157,002-280,000**	TR26123 **Std.** **To ESN 157,001** TR44175 **Std.** **ESN 157,002-280,000**	1) TR43680 **Std.** 2) TR43681 **Std.**	1) TB367R ***x16***	1) TR26125 2) TR28654 3) TR87627

					
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit		1) Injector, Pencil 2) Seal, Injector	Water Pump
		Without Impeller	With Impeller		
TR36846 180° F	TAR53567 TRE42211	See Chart on Page IT18		1) TAR50781 2) TR60746 TR48000	TAR45332

(1) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**.
(2) TMX364 Consists of: TR88042 ***x4***, TR88043 ***x3***, TR88044 ***x6***, TR88045 ***x5***.

MAXIFORCE® DIESELENGINEPARTS

400 Series

Engine & Equipment Model

4.270

From 280,001

4 Cyl

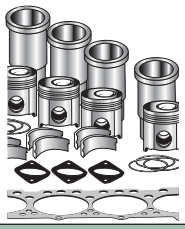
Bore: 4.25 in
108 mm
Pin Ø: 1.50 in
38 mm

Block (m):
R40700, R47520, R48430, R50610, R72127

APPLICATIONS:

AGRICULTURAL
3020

CONSTRUCTION
500A
500B
500C
510

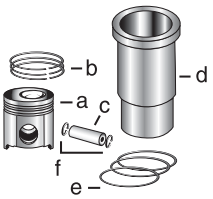


1) Eng O/H Kit

2) Eng I/F Kit

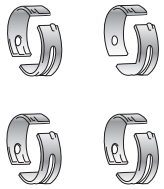
1) TRG17900
TRG17900HC

2) TIK17900
TIK17900HC



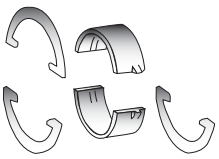
Piston-Liner Kit

TRE23165
TRE23165HC
Consists of:
a) TRE23168
TRE23163HC (2)
b) TAR55630
TAR65502 (3)
c) TR44161
d) TR40615
e) TAR65507
f) TH80753



Main Bearing

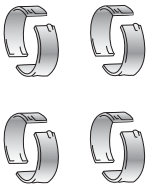
TAR74814 **Std.**
TAR74816 **.010**
TAR74817 **.020**
TAR74818 **.030**
Use 4



Thrust Bearing

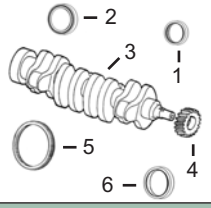
TAR77748 **Std.**
TAR77750 **.010**
TAR77751 **.020**
TAR77752 **.030**
Use 1

Thrust Washer
TAR77747 **Std.**
TAR77753 **.007**
Use 3, Order Qty 1



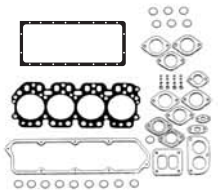
Con Rod Bearing

TAR45723 **Std.**
TAR46396 **.010**
TAR46397 **.020**
TAR46398 **.030**
Use 4



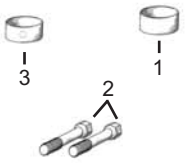
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TAR40485
c/s (m) R40570
4) TR26049 (23T)
5) TR28811 (129T)
6) TR63326



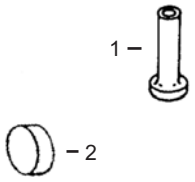
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR53035
2) TAR53034
3) TR48292
4) TR71917



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR30939 ***x4***
2) TR66452 ***x8***
3) TR46903 ***x3***



1) Cam Follower
2) Plug, Camshaft

1) TR52773 ***x8***
2) TR26115



1) Head Bolt Kit

1) TMX364 (1)



Valve, Intake

TR43883 **Std.**
TR45003 **.003**
TR45004 **.015**

Valve, Exhaust

TR43679 **Std.**
TR43787 **.003**
TR43788 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR43680 **Std.**
2) TR43681 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

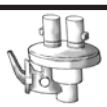
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostat

TR36846 180 °F



Fuel Transfer Pump

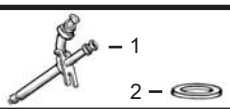
TRE42211



Water Pump Repair Kit

Without Impeller | With Impeller

See Chart on Page IT18



1) Injector, Pencil
2) Seal, Injector

1) TAR50781
2) TR60746
TR48000



Water Pump

TAR45332

(1) TMX364 Consists of: TR88042 ***x4***, TR88043 ***x3***, TR88044 ***x6***, TR88045 ***x5***.
(2) This piston uses ring set **TAR65502**.
(3) Used with **TRE23163HC** Piston.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.404D

To 214, 999

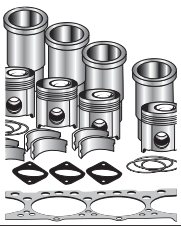
6 Cyl

Bore: 4.25 in
108 mm
Pin Ø: 1.50 in
38 mm

Block (m): (1)
R26070, R33180, R34340, R40890, R40900

APPLICATIONS:

AGRICULTURAL
4010
4020

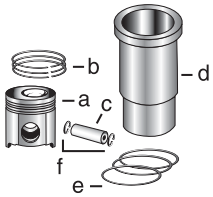


1) Eng O/H Kit

2) Eng I/F Kit

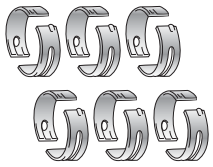
1) TRG17901
TRG17901HC

2) TIK17901
TIK17901HC



Piston-Liner Kit

TRE23173
TRE23173HC
Consists of:
a) TRE23172
TRE23172HC (6)
b) TAR55630
TAR65502
c) TR44161
d) TR32050
e) TAR40155
f) TH80753



Main Bearing

TAR49243	**Std.**
TAR49245	**.010**
TAR49246	**.020**
TAR49247	**.030**

Use 6



Thrust Bearing

TAR49242	**Std.**
TAR49238	**.010**
TAR49239	**.020**
TAR49240	**.030**

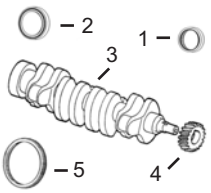
Use 1



Con Rod Bearing

TAR45723	**Std.**
TAR46396	**.010**
TAR46397	**.020**
TAR46398	**.030**

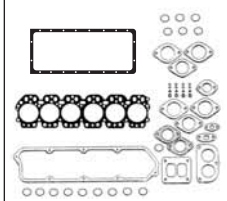
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

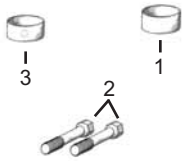
1) TAR49025
2) TRE520036
3) TRE53422 (5)
4) TR26049 (23T)
5) TR28811 (129T)



1) O/H Gasket Set

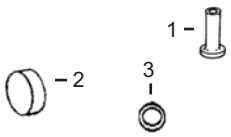
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR53626
2) TAR53625
3) TR45615
4) TR71918



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR30939 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***



1) Cam Follower
2) Plug, Camshaft
3) O'ring, Oil Cooler

1) TR26342 ***x12***
2) TR26115
3) TR47153



Thermostat

TR36846 180° F



Valve, Intake

TR26124 **Std.**
To ESN 82,801
TR44174 **Std.**
ESN 82,802-214,999

Valve, Exhaust

TR26123 **Std.**
To ESN 82,801
TR44175 **Std.**
ESN 82,802-214,999

Insert, Valve
1) Intake
2) Exhaust

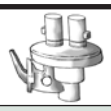
1) TR43680 **Std.**
2) TR43681 **Std.**

1) Lock Valve

1) TB367R ***x24***

1) Spring, Valve
2) Guide, Valve
3) O'ring, Valve

1) TR26125
2) TR28654
3) TR87627



Fuel Transfer Pump

TAR53567 (2)
TRE42211 (3)
TAR49771 (4)



Water Pump

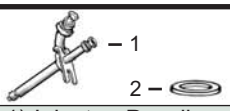
TAR45332



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



1) Injector, Pencil
2) Seal, Injector

1) TAR50781
2) TR60746
TR48000



Pump, Oil, Quad Transmission

TAR41949
For Tractors
4010,4020

(1) Original Block.
(2) To ESN 82,801.
(3) ESN 82,802-422,365.
(4) From ESN 422,366.

(5) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**. Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key **TR116311** for the front damper.
(6) This piston uses ring set **TAR65502**.

400 Series

Engine & Equipment Model

6.404D

To 214,999

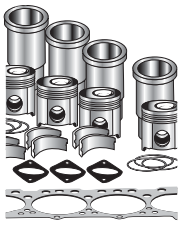
6 Cyl

Bore: 4.25 in / 108 mm
Pin Ø: 1.50 in / 38 mm

Block (m): (1)
R40930

APPLICATIONS:

AGRICULTURAL
4010
4020

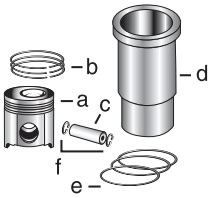


1) Engine O/H Kit

2) Engine I/F Kit

1) TRG17902

2) TIK17902

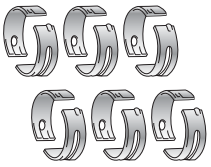


Piston-Liner Kit

TRE23170

Consists of:

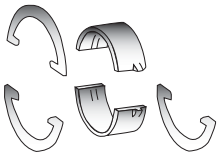
a) TRE23172
b) TAR55630
c) TR44161
d) TR40615
e) TAR65507
f) TH80753



Main Bearing

TAR74814 **Std.**
TAR74816 **.010**
TAR74817 **.020**
TAR74818 **.030**

Use 6



Thrust Bearing

TAR77748 **Std.**
TAR77750 **.010**
TAR77751 **.020**
TAR77752 **.030**

Use 1

Thrust Washer

TAR77747 **Std.**
TAR77753 **.007**

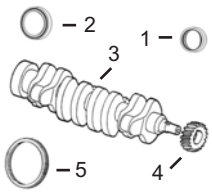
Use 3, Order Qty 1



Con Rod Bearing

TAR45723 **Std.**
TAR46396 **.010**
TAR46397 **.020**
TAR46398 **.030**

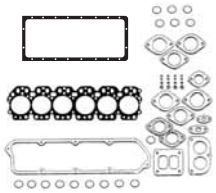
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

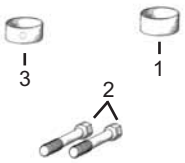
1) TAR49025
2) TRE520036
3) TRE53422 (5)
4) TR26049 (23T)
5) TR28811 (129T)



1) O/H Gasket Set

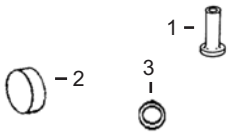
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR53626
2) TAR53625
3) TR45615
4) TR71918



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR30939 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***



1) Cam Follower
2) Plug, Camshaft
3) O'ring, Oil Cooler

1) TR52773 ***x12***
2) TR26115
3) TR47153



Thermostat

TR36846 180° F



Valve, Intake

TR26124 **Std.**
To ESN 157,001
TR44174 **Std.**
ESN 157,002-280,000

Valve, Exhaust

TR26123 **Std.**
To ESN 82,801
TR44175 **Std.**
ESN 82,802-214,999

Insert, Valve
1) Intake
2) Exhaust

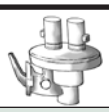
1) TR43680 **Std.**
2) TR43681 **Std.**

1) Lock Valve

1) TB367R ***x24***

1) Spring, Valve
2) Guide, Valve
3) O'ring, Valve

1) TR26125
2) TR28654
3) TR87627



Fuel Transfer Pump

TAR53567 (2)
TRE42211 (3)
TAR49771 (4)



Water Pump

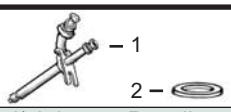
TAR45332



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



1) Injector, Pencil
2) Seal, Injector

1) TAR50781
2) TR60746
TR48000



Pump, Oil, Quad Transmission

TAR41949
For Tractors 4010,4020

(1) Original Block.
(2) To ESN 82,801.
(3) ESN 82,802-422,365.
(4) From ESN 422,366.

(5) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**. Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key **TR116311** for the front damper.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.404D

To 214,999

Early Power Booster

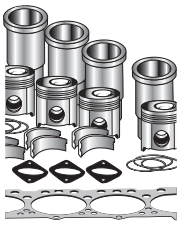
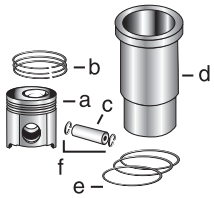
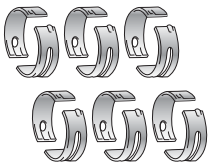
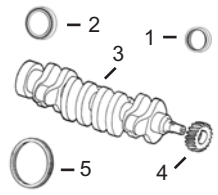
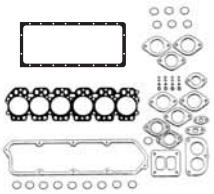
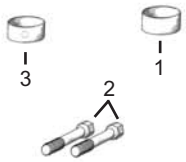
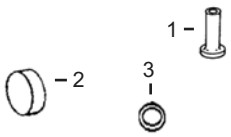
6 Cyl

Bore: 4.25 in / 108 mm
Pin Ø: 1.50 in / 38 mm

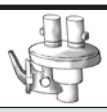
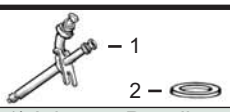
Block (m):
R26070, R33180, R34340, R40890, 40900

APPLICATIONS:

AGRICULTURAL
4010
4020

				
1) Engine O/H Kit **2) Engine I/F Kit** **1) TOK6163** **2) TIK6163**	**Piston-Liner Kit** **TPLK163** Consists of: a) TRE23163 b) TAR65502 c) TR44161 d) TR32050 e) TAR40155 f) TH80753	**Main Bearing** TAR49243 **Std.** TAR49245 **.010** TAR49246 **.020** TAR49247 **.030** **Use 6**	**Thrust Bearing** TAR49242 **Std.** TAR49238 **.010** TAR49239 **.020** TAR49240 **.030** **Use 1**	**Con Rod Bearing** TAR45723 **Std.** TAR46396 **.010** TAR46397 **.020** TAR46398 **.030** **Use 6**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Cam Follower 2) Plug, Camshaft 3) O'ring,Oil Cooler	Thermostat
1) TAR49025 2) TRE520036 3) TRE53422 **(4)** 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53626 2) TAR53625 3) TR45615 4) TR71918	1) TR30939 ***x6*** 2) TR66452 ***x12*** 3) TR46903 ***x4***	1) TR26342 ***x12*** 2) TR26115 3) TR47153	TR36846 180° F

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock Valve	1) Spring, Valve 2) Guide, Valve 3) O'ring, Valve
	TR26124 **Std.** **To ESN 82,801** TR44174 **Std.** **ESN 82,802-214,999**	TR26123 **Std.** **To ESN 82,801** TR44175 **Std.** **ESN 82,802-214,999**	1) TR43680 **Std.** 2) TR43681 **Std.**	1) TB367R ***x24***	1) TR26125 2) TR28654 3) TR87627

				
Fuel Transfer Pump	Water Pump	Water Pump Repair Kit	1) Injector, Pencil 2) Seal, Injector	Pump, Oil, Quad Transmission
TAR53567 **(1)** TRE42211 **(2)** TAR49771 **(3)**	TAR45332	Without Impeller / With Impeller See Chart on Page IT18	1) TAR50781 2) TR60746 TR48000	TAR41949 For Tractors 4010,4020

(1) To ESN 82,801.
(2) ESN 82,802-422,365.
(3) From ESN 422,366.

(4) New style crankshaft. To adapt to old style, the center hole in the flywheel needs to be enlarged to **2.835 in. (72.0009 mm)**. Extra bolt holes in the rear palm of the crankshaft need to be plugge with allen head screws and tread sealer / locker. TRE53422 will require front key **TR116311** for the front damper.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

400 Series

Engine & Equipment Model

6.404D

215,000-335,845

6 Cyl

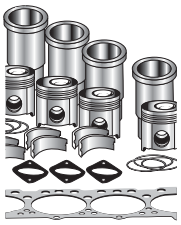
Bore: 4.25 in / 108 mm
Pin Ø: 1.50 in / 38 mm

Block (m):
R40610, R40620, R45950, R47170, R48440

APPLICATIONS:

AGRICULTURAL
699
4000
4010
4020

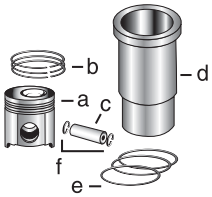
CONSTRUCTION
600



1) Eng O/H Kit
2) Eng I/F Kit

1) TRG17903
TRG17903HC

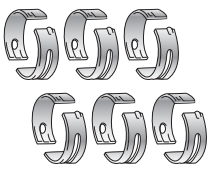
2) TIK17903
TIK17903HC



Piston-Liner Kit

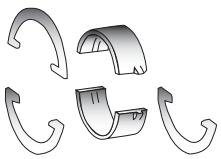
TRE23165
TRE23165HC

Consists of:
a) TRE23168
TRE23163HC (6)
b) TAR55630
TAR65502 (7)
c) TR44161
d) TR40615
e) TAR65507
f) TH80753



Main Bearing

TAR74814 **Std.**
TAR74816 **.010**
TAR74817 **.020**
TAR74818 **.030**
Use 6



Thrust Bearing

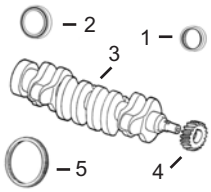
TAR77748 **Std.**
TAR77750 **.010**
TAR77751 **.020**
TAR77752 **.030**
Use 1

Thrust Washer
TAR77747 **Std.**
TAR77753 **.007**
Use 3, Order Qty 1



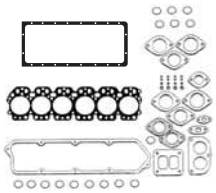
Con Rod Bearing

TAR45723 **Std.**
TAR46396 **.010**
TAR46397 **.020**
TAR46398 **.030**
Use 6



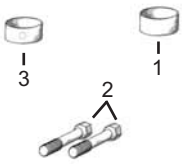
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR49025
2) TRE520036
3) TRE53422 (5)
4) TR26049 (23T)
5) TR28811 (129T)



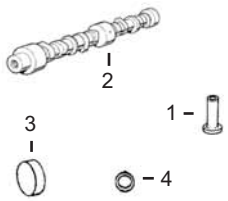
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR53631
2) TAR53630
3) TR48291
4) TR71918



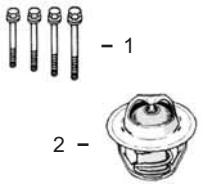
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR30939 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***



1) Cam Follower
2) Camshaft Kit
3) Plug, Camshaft
4) O'ring, Oil Cooler

1) TR52773 ***x12***
2) TAR100386
3) TR26115
4) TR47153



1) Head Bolt Kit
2) Thermostat

1) TMX365 (1)
2) TR36846 180° F



Valve, Intake

TR43883 **Std.**
TR45003 **.003**
TR45004 **.015**

Valve, Exhaust

TR43679 **Std.**
TR43787 **.003**
TR43788 **.015**

Insert, Valve
1) Intake
2) Exhaust

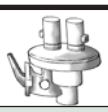
1) TR43680 **Std.**
2) TR43681 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Fuel Transfer Pump

TAR53567 (2)
TRE42211 (3)
TAR49771 (4)



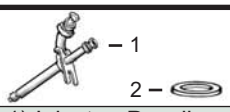
Water Pump

TAR45332



Water Pump Repair Kit

Without Impeller	With Impeller
See Chart on Page IT18	



1) Injector, Pencil
2) Seal, Injector

1) TAR50781
2) TR60746
TR48000



Pump, Oil, Quad Transmission

TAR41949
For Tractors 4000,4020

(1) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***.
(2) To ESN 82,801.
(3) ESN 82,802-422,365.
(4) From ESN 422,366.
(5) TRE53422 will require front key **TR116311** for the front damper.
(6) This piston uses ring set **TAR65502**.
(7) Used with **TRE23163HC** Piston.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.404D

From 335,846

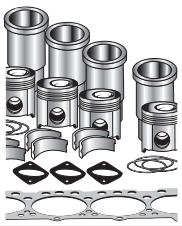
6 Cyl

Bore: 4.25 in
108 mm
Pin Ø: 1.50 in
38 mm

Block (m):
R49470, R49650, R59850, R72128, R87558

APPLICATIONS:

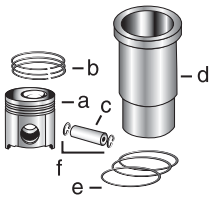
AGRICULTURAL
699
4040
4230
6600
7700



1) Eng O/H Kit
2) Eng I/F Kit

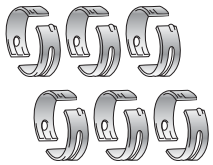
1) TRG17897
TRG17897HC

2) TIK17897
TIK17897HC



Piston-Liner Kit

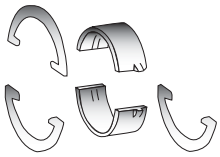
TRE23160
TRE23160HC
Consists of:
a) TRE23163
TRE23163HC
b) TAR65502
c) TR44161
d) TR40615
e) TAR65507
f) TH80753



Main Bearing

TAR74814	Std.
TAR74816	.010
TAR74817	.020
TAR74818	.030

Use 6



Thrust Bearing

TAR77748	Std.
TAR77750	.010
TAR77751	.020
TAR77752	.030

Use 1

Thrust Washer

TAR77747	Std.
TAR77753	.007

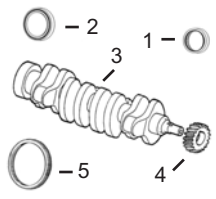
Use 3, Order Qty 1



Con Rod Bearing

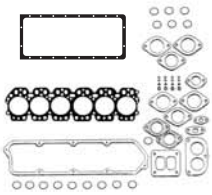
TAR45723	Std.
TAR46396	.010
TAR46397	.020
TAR46398	.030

Use 6



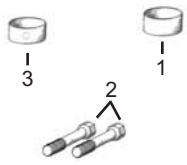
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(5)**
4) TR26049 (23T)
5) TR28811 (129T)



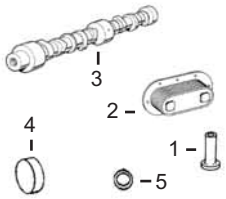
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR63938
2) TAR63940
3) TR48291
4) TR71918



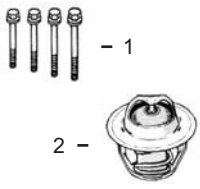
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR30939 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler

1) TR52773 ***x12***
2) TAR55394
3) TAR100386
4) TR26115
5) TR47153

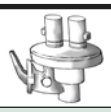


1) Head Bolt Kit
2) Thermostat

1) TMX365 **(1)**
2) TR36846 180° F



Valve, Intake		Valve, Exhaust		Insert, Valve 1) Intake 2) Exhaust		1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
TR43883	Std.	TR43679	Std.	1) TR43680	Std.	1) TT20129	1) TR26125
TR45003	.003	TR43787	.003	2) TR43681	Std.	2) TT20077	2) TRE11410
TR45004	.015	TR43788	.015				3) TR87627



Fuel Transfer Pump

TAR53567 **(2)**
TRE42211 **(3)**
TAR49771 **(4)**



Water Pump

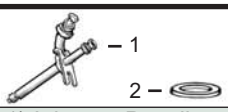
TAR45332



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



1) Injector, Pencil
2) Seal, Injector

1) TAR50781
2) TR60746
TR48000



Pump, Oil, Quad Transmission

TRE20918
For Tractors 4230,4040

(1) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***.
(2) To ESN 82,801.
(3) ESN 82,802-422,365.
(4) From ESN 422,366.
(5) TRE53422 will require front key **TR116311** for the front damper.

400 Series

Engine & Equipment Model

6.404T/A

To 335,845

6 Cyl

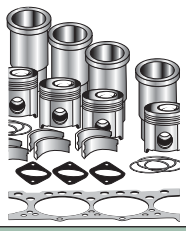
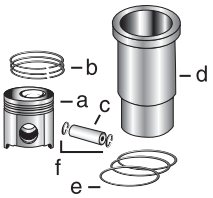
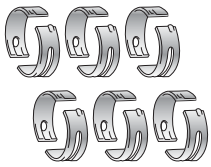
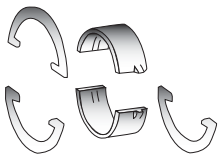
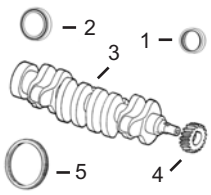
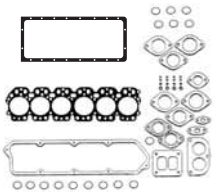
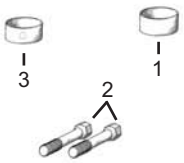
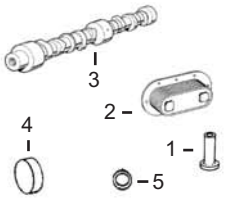
Bore: 4.25 in
108 mm
Pin Ø: 1.61 in
41 mm

Block (m):
R43310, R45980, R47020
R47110

APPLICATIONS:

AGRICULTURAL
4320
4520
4620
5440

CONSTRUCTION
644
644A
646
646B
690
690A

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TAR51798**	TAR74814 **Std.**	TAR77748 **Std.**	TAR45723 **Std.**
1) TRG21340	Consists of:	TAR74816 **.010**	TAR77750 **.010**	TAR46396 **.010**
2) TIK21340	a) TAR50624	TAR74817 **.020**	TAR77751 **.020**	TAR46397 **.020**
	b) TAR51741	TAR74818 **.030**	TAR77752 **.030**	TAR46398 **.030**
	c) TR41425	**Use 6**	**Use 1**	**Use 6**
	d) TR40615		**Thrust Washer**	
	e) TAR65507		TAR77747 **Std.**	
	f) TR54114		TAR77753 **.007**	
			Use 3, Order Qty 1	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Cam Follower 2) Oil Cooler 3) Camshaft Kit 4) Plug, Camshaft 5) O'ring, Oil Cooler	1) Head Bolt Kit
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE520036 3) TRE53422 **(3)** 4) TR26049 (23T) 5) TR28811 (129T)	1) TAR53094 2) TAR63270 3) TR48291 4) TR71918	1) TR42173 ***x6*** 2) TR66452 ***x12*** 3) TR46903 ***x4***	1) TR52773 ***x12*** 2) TAR55394 For **T** Engines TAT25038 For **A** Engines 3) TAR100385 4) TR26115 5) TR47153	1) TMX365 **(1)**

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve 3) O'ring, Valve
	TR43883 **Std.** **(2)** TR45003 **.003** TR45004 **.015**	TR43679 **Std.** TR43787 **.003** TR43788 **.015**	1) TR43680 **Std.** 2) TR43681 **Std.**	1) TT20129 2) TT20077	1) TR26125 2) TRE11410 3) TR87627

			
Thermostat	Fuel Transfer Pump	Water Pump Repair Kit	Pump, Oil, Quad Transmission
		Without Impeller / With Impeller	
TR36846 180°F	TAR49771	See Chart on Page IT18	TRE20918 For Tractors 4320,4520, 4620

(1) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***.
(2) Use TR43914 Std (30° Angle) on ESN 245,547-335,845.
(3) TRE53422 will require front key **TR116311** for the front damper.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.404T/A

From 335,846

6 Cyl

Bore: 4.25 in
108 mm
Pin Ø: 1.61 in
41 mm

Block (m):
R49470, R49650, R59850, R72128, R87558

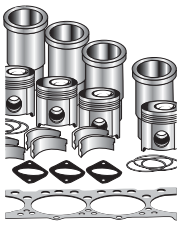
APPLICATIONS:

AGRICULTURAL

4320	5440
4430	6600
4630	7700

CONSTRUCTION

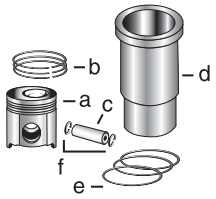
690B
693C
740



1) Eng O/H Kit
2) Eng I/F Kit

1) TRG17892
TRG17892HC

2) TIK17892
TIK17892HC

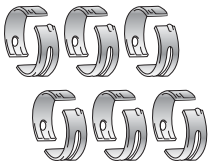


Piston-Liner Kit

TAR63272
TAR63272HC

Consists of:

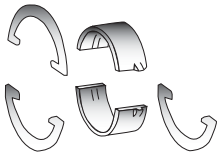
a) TAR54552
TAR54552HC
b) TAR51741
c) TR41425
d) TR40615
e) TAR65507
f) TR54114



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

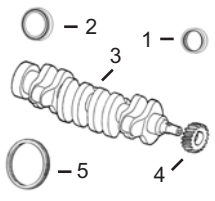
Use 3, Order Qty 1



Con Rod Bearing

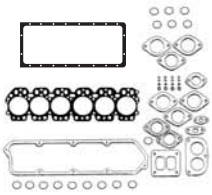
TAR45723	**Std.**
TAR46396	**.010**
TAR46397	**.020**
TAR46398	**.030**

Use 6



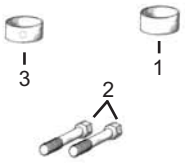
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(2)**
4) TR26049 (23T)
5) TR28811 (129T)



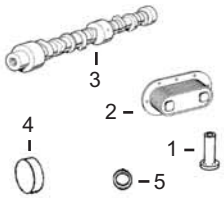
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR63269
2) TAR63270
3) TR48291
4) TR71918



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR42173 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler

1) TR52773 ***x12***
2) TAR55394
For **T** Engines
TAT25038
For **A** Engines
3) TAR100385
4) TR26115
5) TR47153



1) Head Bolt Kit

1) TMX365 **(1)**

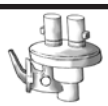


Valve, Intake		Valve, Exhaust		Insert, Valve		1) Cap, Valve	1) Spring, Valve
				1) Intake		2) Lock, Valve	2) Rotator, Valve
				2) Exhaust			3) O'ring, Valve
TR50358	**Std.**	TR50357	**Std.**	1) TR78702	**Std.**	1) TT20129	1) TR26125
TR55055	**.003**	TR55056	**.003**	2) TR50356	**Std.**	2) TT20077	2) TRE11410
TR55057	**.015**	TR55058	**.015**				3) TR87627



Thermostat

TAR48675 180° F



Fuel Transfer Pump

TAR57264



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



Pump, Oil, Quad Transmission

TRE20918
For Tractors
4430,4630, 5440

(1) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***.
(2) TRE53422 will require front key **TR116311** for the front damper.

400 Series

Engine & Equipment Model

6.466D

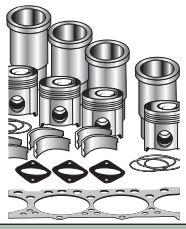
6 Cyl

Bore: 4.56 in
116 mm
Pin Ø: 1.61 in
41 mm

Con Rod (m):
R66922, R58882, R41423

APPLICATIONS:

AGRICULTURAL
4050
4240
6620

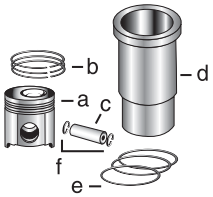


1) Engine O/H Kit

2) Engine I/F Kit

1) TRG18846

2) TIK18846

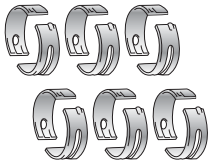


Piston-Liner Kit

TAR83610

Consists of:

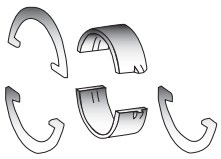
a) TAR100442
b) TAR87753
c) TR41425
d) TAR63060
e) TAR98850
f) TR54114



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

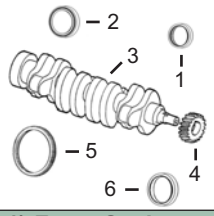
Use 3, Order Qty 1



Con Rod Bearing

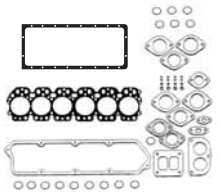
TAR45723	**Std.**
TAR46396	**.010**
TAR46397	**.020**
TAR46398	**.030**

Use 6



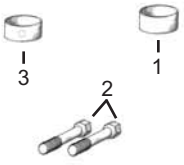
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(4)**
4) TR26049 (23T)
5) TR28811 (129T)
6) TR63326



1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

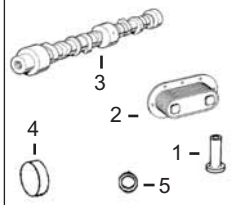
1) TAR100638
2) TAR100632
3) TRE47336
4) TR71918



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR42173 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***

(1)



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler

1) TR52773 ***x12***
2) TAR55394
3) TAR100386
4) TR26115
5) TR47153



1) Head Bolt Kit

1) TMX365 **(2)***
TMX366 **(3)****



Valve, Intake

TR43883	**Std.**
TR45003	**.003**
TR45004	**.015**

Valve, Exhaust

TR43679	**Std.**
TR43787	**.003**
TR43788	**.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR43680	**Std.**
2) TR43681	**Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

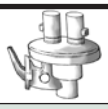
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostat

TR48675 180° F



Fuel Transfer Pump

TAR57264
TRE38009



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

TRE55985 (m) R71224, (m) R83561 **(5)**
TRE55986 (m) R71224, (m) R83561 **(5)**



Pump, Oil, Quad Transmission

TRE20918
For Tractors 4240,4050

(1) Shape, Conrod Bushing.
(2) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***. * With To ESN 318403.
(3) TMX366 Consists of: TR88043 ***x11***, TR88044 ***x8***, TR88045 ***x7***. ** With From ESN 318404.
(4) TRE53422 will require front key **TR116311** for the front damper.
(5) Must check proper application.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.466T

To 253,372

6.466A

To 233,592

6 Cyl

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
R57303, R67320

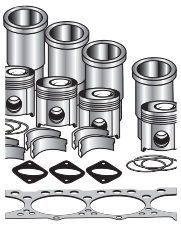
APPLICATIONS:

AGRICULTURAL

4440	7720
4640	8430
4840	8440
5720	8450
6620	8820
6622	9940

CONSTRUCTION

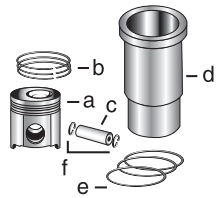
644D
646C
740A
762A



1) Eng O/H Kit
2) Eng I/F Kit

1) TRG18845
TRG18845HC

2) TIK18845
TIK18845HC

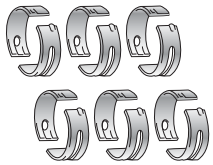


Piston-Liner Kit

TAR72079
TAR72079HC

Consists of:

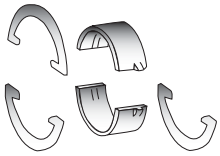
a) TAR93629
TAR93629HC
b) TRE48380
c) TR57771
d) TAR63060
e) TAR98850
f) TE1343FN



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

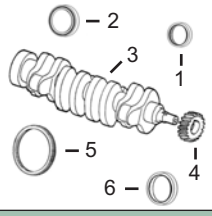
Use 3, Order Qty 1



Con Rod Bearing

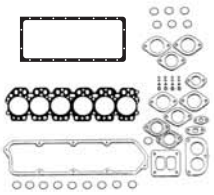
TAR73277	**Std.**
TAR73279	**.010**
TAR73280	**.020**
TAR73281	**.030**

Use 6



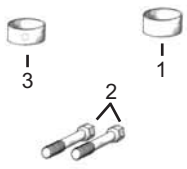
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(4)**
4) TR26049 (23T)
5) TR28811 (129T)
6) TR63326



1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

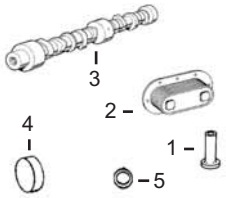
1) TAR98845
2) TAR98851
3) TRE47336
4) TR71918



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR60724 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***

(1)



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler



1) Head Bolt Kit

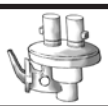


Valve, Intake		Valve, Exhaust		Insert, Valve		1) Cap, Valve	1) Spring, Valve
				1) Intake		2) Lock, Valve	2) Rotator, Valve
				2) Exhaust			3) O'ring, Valve
TR50358	**Std.**	TR50357	**Std.**	1) TR78702	**Std.**	1) TT20129	1) TR26125
TR55055	**.003**	TR55056	**.003**	2) TR50356	**Std.**	2) TT20077	2) TRE11410
TR55057	**.015**	TR55058	**.015**				3) TR87627



Thermostat

TAR48675 180° F



Fuel Transfer Pump

Not Used



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

1) TRE55985 (m) R71224, (m) R83561 **(5)**
TRE55986 (m) R71224, (m) R83561 **(5)**
2) TRE20022 (OEM From ESN 067685)



Pump, Oil, Quad Transmission

TRE20918
For Tractors
4440,4640, 4840

(1) Shape, Conrod Bushing.
(2) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***.
(3) Some applications use **TAR55394**.
(4) TRE53422 will require front key **TR116311** for the front damper.
(5) Must check proper application.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

400 Series

Engine & Equipment Model

6.466T

From 253,373

6.466A

From 317,859

6 Cyl

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
R71074 (P/N AR93341)

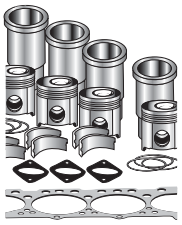
APPLICATIONS:

AGRICULTURAL

4250	5730
4440	6602
4450	6620
4640	6622
4650	7720
5460	9940
5720	9950

CONSTRUCTION

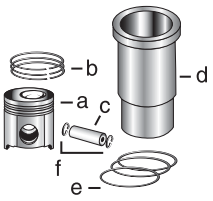
644C	790D
690C	850B
762A/B	892D
770A/B	



1) Eng O/H Kit
2) Eng I/F Kit

1) TRG18847
TRG18847HC

2) TIK18847
TIK18847HC

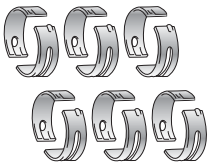


Piston-Liner Kit

TAR100646
TAR100646HC

Consists of:

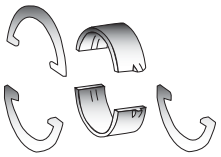
a) TAR100616
TAR100616HC
b) TRE48380
c) TR57771
d) TAR63060
e) TAR98850
f) TE1343FN



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

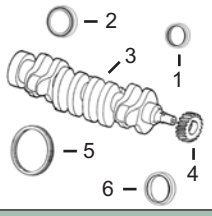
Use 3, Order Qty 1



Con Rod Bearing

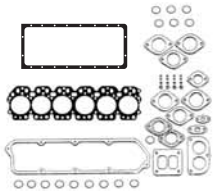
TAR73277	**Std.**
TAR73279	**.010**
TAR73280	**.020**
TAR73281	**.030**

Use 6



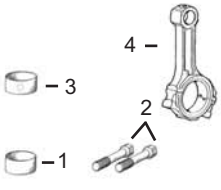
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(5)**
4) TR26049 (23T)
5) TR28811 (129T)
6) TR63326



1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR98845
2) TAR98851
3) TRE47336
4) TR71918

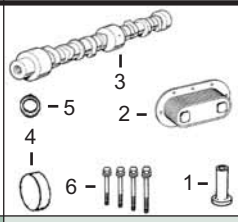


1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Con Rod

1) TR74008 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***
4) TAR93341 ***x1***

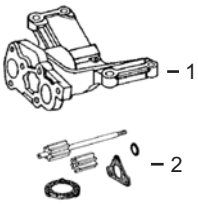


(1)



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler
6) Head Bolt Kit

1) TR52773 ***x12***
2) TAT25038 **(4)**
3) TAR100385
4) TR26115
5) TR47153
6) TMX365 **(2)***
TMX366 **(3)****



1) Pump, Oil
2) Repair Kit

1) TRE60622
2) N/A



Valve, Intake

TR50358 **Std.**
TR55055 **.003**
TR55057 **.015**

Valve, Exhaust

TR50357 **Std.**
TR55056 **.003**
TR55058 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR78702 **Std.**
2) TR50356 **Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

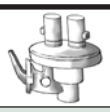
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostat

TAR48675 180° F



Fuel Transfer Pump

Not Used



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

1) TRE55985 (m) R71224, (m) R83561 **(6)**
TRE55986 (m) R71224, (m) R83561 **(6)**
2) TRE20022 (OEM ESN 067685 >)



Pump, Oil, Quad Transmission

TRE20918
For Tractors
4250, 4040, 4450, 4640, 4650

(1) Shape, Conrod Bushing.
(2) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***. * With ESN To 317676.
(3) TMX366 Consists of: TR88043 ***x11***, TR88044 ***x8***, TR88045 ***x7***. ** With ESN From 317677.
(4) Some applications use **TAR55394**.
(5) TRE53422 will require front key **TR116311** for the front damper.
(6) Must check proper application.

For Additional JOHN DEERE® Products Refer to Page T95

400 Series

Engine & Equipment Model

6.466A

233,593-317,858

6 Cyl

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
R71074 (P/N AR93341)

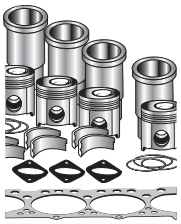
APPLICATIONS:

AGRICULTURAL

4840	8440
4850	8450
5720	8820
5730	9940
8430	9950

CONSTRUCTION

644C	770A/B
690C	850B
740A	892D
762A/B	

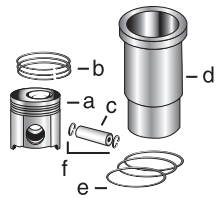


1) Engine O/H Kit

2) Engine I/F Kit

1) TRG20142

2) TIK20142

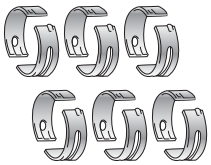


Piston-Liner Kit

TAR100960

Consists of:

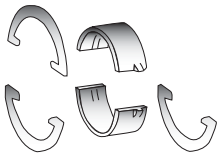
a) TAR100673
b) TRE48380
c) TR57771
d) TAR63060
e) TAR98850
f) TE1343FN



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

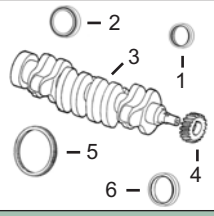
Use 3, Order Qty 1



Con Rod Bearing

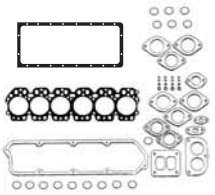
TAR73277	**Std.**
TAR73279	**.010**
TAR73280	**.020**
TAR73281	**.030**

Use 6



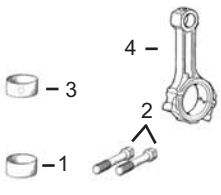
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRE53422 **(5)**
4) TR26049 (23T)
5) TR28811 (129T)
6) TR63326



1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TAR98845
2) TAR98851
3) TRE47336
4) TR71918

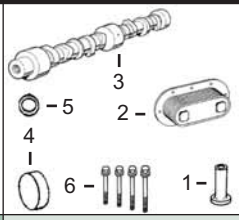


1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Con Rod

1) TR74008 ***x6***
2) TR66452 ***x12***
3) TR46903 ***x4***
4) TAR93341 ***x1***

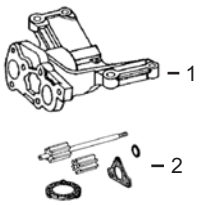


(1)



1) Cam Follower
2) Oil Cooler
3) Camshaft Kit
4) Plug, Camshaft
5) O'ring, Oil Cooler
6) Head Bolt, Kit

1) TR52773 ***x12***
2) TAT25038 **(4)**
3) TAR100385
4) TR26115
5) TR47153
6) TMX365 **(2)***
TMX366 **(3)****



1) Pump, Oil
2) Repair Kit

1) TRE60622
2) N/A



Valve, Intake

TR50358	**Std.**
TR55055	**.003**
TR55057	**.015**

Valve, Exhaust

TR50357	**Std.**
TR55056	**.003**
TR55058	**.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR78702	**Std.**
2) TR50356	**Std.**

1) Cap, Valve
2) Lock, Valve

1) TT20129
2) TT20077

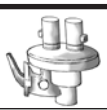
1) Spring, Valve
2) Rotator, Valve
3) O'ring, Valve

1) TR26125
2) TRE11410
3) TR87627



Thermostat

TAR48675 180° F



Fuel Transfer Pump

Not Used



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



Water Pump

1) TRE55985 (m) R71224, (m) R83561 **(6)**
TRE55986 (m) R71224, (m) R83561 **(6)**
2) TRE20022 (OEM ESN 067685 >)

(1) Shape, Conrod Bushing.
(2) TMX365 Consists of: TR88042 ***x6***, TR88043 ***x5***, TR88044 ***x8***, TR88045 ***x7***. * With ESN To 317676.
(3) TMX366 Consists of: TR88043 ***x11***, TR88044 ***x8***, TR88045 ***x7***. ** With ESN From 317677.
(4) Some applications use **TAR55394**.
(5) TRE53422 will require front key **TR116311** for the front damper.
(6) Must check proper application.

400 Series

Engine & Equipment Model

6076T/A/H

Low Ring Piston

6 Cyl

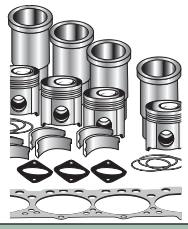
Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
R71074 (P/N AR93341)

APPLICATIONS:

AGRICULTURAL
4955 8560
4960 8570

CONSTRUCTION
892E (1)

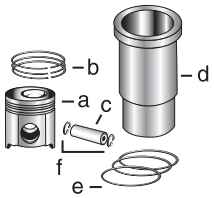


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE60299

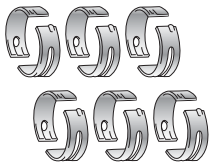
2) TIK60299



Piston-Liner Kit

TRE60297
Consists of:

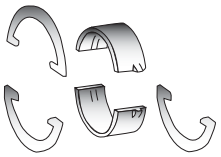
a) TRE57731 (1)
b) TRE48380
c) TR57771
d) TAR63060
e) TAR98850
f) TE1343FN



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

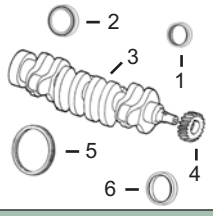
Use 3, Order Qty 1



Con Rod Bearing

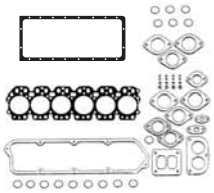
TAR73277	**Std.**
TAR73279	**.010**
TAR73280	**.020**
TAR73281	**.030**

Use 6



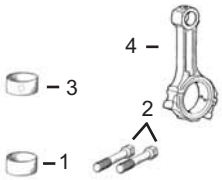
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRE53201 (2)(5)
TRE53422 (3)(5)
4) TR105488 (4)
5) TR28811 (129T)
6) TR63326



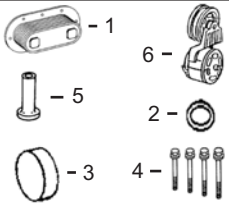
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TRE35647
2) TRE29859
3) TRE47336
4) TR71918



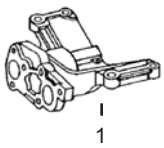
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Con Rod

1) TR74008 ***x6***
2) TR66452 ***x12***
3) TR87561 ***x4***
4) TAR93341 ***x1***



1) Oil Cooler
2) O'ring, Oil Cooler
3) Plug, Camshaft
4) Head Bolt Kit
5) Tappet
6) Tensioner, Belt

1) TAR55394 (7)
2) TR47153
3) TR82007
4) TMX366 (6)
5) TR110126 ***x12*** (8)
6) TRE57498 (9)
TRE68715 (9)



1) Pump, Oil

1) TRE60622
TRE507074 (10)



Valve, Intake

TR84618 **Std.**
TR93308 **.003**
TR93312 **.015**

Valve, Exhaust

TR84619 **Std.**
TR93311 **.003**
TR93313 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR84977 **Std.**
2) TR84976 **Std.**

1) Cap, Valve
2) Lock, Valve
3) Shield, Valve

1) TT20129
2) TT20077
3) TR102882

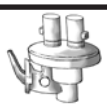
1) Spring, Valve
2) Rotator, Valve

1) TR91822
2) TRE11410



Thermostat

TAR48675 180° F



Fuel Transfer Pump

N/A



Water Pump Repair Kit

Without Impeller	With Impeller

See Chart on Page IT18



Water Pump

TRE55985 (m) R71224, (m) R83561 (9)
TRE55986 (m) R71224, (m) R83561 (9)
TRE68230 (HIGH FLOW)

(1) Low Ring Piston.
(2) Long snout (3.4in.) C/S (m) R87544, RE53201.
(3) Short snout (3in) C/S (m) RE53203, R63451, R104855.
(4) TRE53422 Use Helicoidal front gear.
(5) Require front key **TR116311** for the front damper.
(6) Use with blocks marked R109806 and below.
(7) ESN To 100664 Use: TAT25038. Not for use with ESN From 500,000.
(8) ESN From 192401.
(9) Check application for proper usage.
(10) For engines with ESN 500 000 and above, and housing is marked (m) R124746 or R504071.

400 Series

Engine & Equipment Model

6076T/A/H

High Ring Piston

6 Cyl

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
R71074 (P/N AR93341)

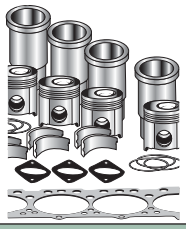
APPLICATIONS:

AGRICULTURAL

1185	7700
2066	7800
4055	8100
4255	8200
4455	8300
4555	9500
4560	9600
4755	9960
4760	9965

CONSTRUCTION

644E/ER	772B/BH
644G/GH	792D/LC
740E/G	850C
748E/G	
770B/BH	

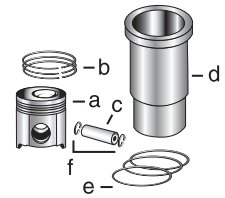


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE64212

2) TIK64212

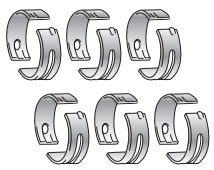


Piston-Liner Kit

TRE60294

Consists of:

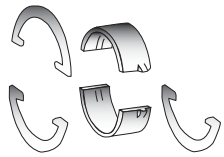
a) TRE57512
b) TRE57517
c) TR57771
d) TAR63060
e) TAR98850
f) TE1343FN



Main Bearing

TAR74814	**Std.**
TAR74816	**.010**
TAR74817	**.020**
TAR74818	**.030**

Use 6



Thrust Bearing

TAR77748	**Std.**
TAR77750	**.010**
TAR77751	**.020**
TAR77752	**.030**

Use 1

Thrust Washer

TAR77747	**Std.**
TAR77753	**.007**

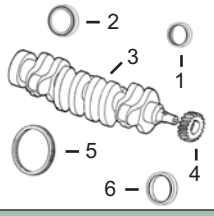
Use 3, Order Qty 1



Con Rod Bearing

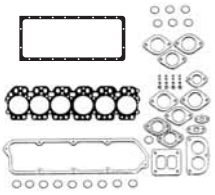
TAR73277	**Std.**
TAR73279	**.010**
TAR73280	**.020**
TAR73281	**.030**

Use 6



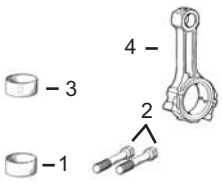
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Rear Gear

1) TAR49025
2) TRE520036
3) TRG23551 **(1)**
4) TR104587
5) TR28811 (129T)
6) TR63326



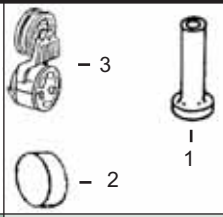
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TRE35647
2) TRE29859
3) TRE47336
4) TR71918



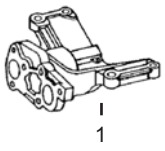
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Con Rod

1) TR74008 ***x6***
2) TR66452 ***x12***
3) TR87561 ***x4***
4) TAR93341 ***x1***



1) Tappet
2) Plug, Camshaft
3) Tensioner, Belt

1) TR110126 ***x12***
2) TR82007
3) TRE57498 **(3)**
TRE68715 **(3)**



1) Pump, Oil

1) TRE60622
TRE507074 **(2)**



Valve, Intake

TR84618	**Std.**
TR93308	**.003**
TR93312	**.015**

Valve, Exhaust

TR84619	**Std.**
TR93311	**.003**
TR93313	**.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR84977 **Std.**
2) TR84976 **Std.**

1) Cap, Valve
2) Lock, Valve
3) Shield, Valve

1) TT20129
2) TT20077
3) TR102882

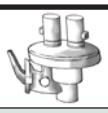
1) Spring, Valve
2) Rotator, Valve

1) TR91822
2) TRE11410



Thermostat

TAR48675 180° F



Fuel Transfer Pump

N/A



Water Pump Repair Kit

Without Impeller	With Impeller
See Chart on Page IT18	



Water Pump

TRE55985 (m) R71224, (m) R83561 **(3)**
TRE55986 (m) R71224, (m) R83561 **(3)**
TRE68230 (HIGH FLOW)

(1) C/S (m) RE53199, with straight front gear TR104587. Helical gear should be discarded. TRG23551 will require front key **TR116311** for the front damper.

(2) For engines with ESN 500 000 and above, and housing is marked (m) R124746 or R504071.

(3) Check application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

500 Series

Engine & Equipment Model

6.531D

(Do Not Use this Kit for Early Engines with Block Casting No: R35130.)

6 Cyl

Bore: 4.75 in
121 mm
Pin Ø: 1.75 in
44.4 mm

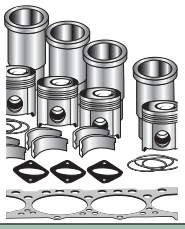
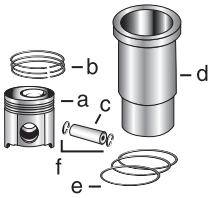
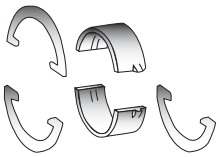
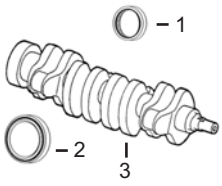
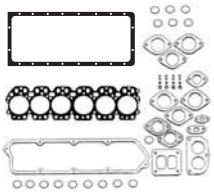
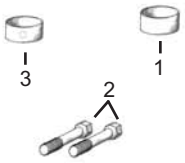
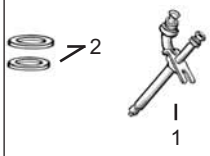
Con Rod (m):
R35048, R58881, R40238
R66927, R53286

Block (m):
R40270, R42370, R45300
R47510

APPLICATIONS:

AGRICULTURAL
5020
6030

CONSTRUCTION
700 760
700A 760A

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TPLK549**	TAR101266 **Std.** TAR104568 **.010** TAR104569 **.020** TAR104570 **.030**	TAR101267 **Std.** TAR104564 **.010** TAR104565 **.020** TAR104566 **.030**	TAR53020 **Std.** TAR57208 **.010** TAR57209 **.020** TAR57210 **.030**
1) TOK6549	Consists of:	**Use 6**	**Use 1**	**Use 6**
2) TIK6549	a) TRE16548 b) TAR41295 c) TR35053 d) TR42366 e) TAR55951 f) TD2824R		**Thrust Washer** TAR89622 **Std.** TAR89971 **.007** **Use 3, Order Qty 1**	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	Thermostat	1) Injector, Pencil 2) Seal
3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE13310 3) TAR92533	1) TAR53614 2) TAR53613 3) TR78513 4) TR71919	1) TR36328 ***x6*** 2) TR66453 ***x12*** 3) TR46903 ***x4***	TR36846 180° F	1) TAR50782 2) TR60746 TR48000
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve
	TR42182	TR45823	1) TR41868 2) TR41869	1) TR53192 2) TR35431 3) TR40366	N/A

500 Series

Engine & Equipment Model

6.531T

6 Cyl

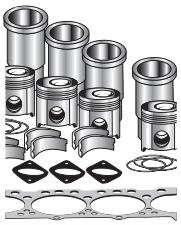
Bore: 4.75 in
121 mm
Pin Ø: 1.875 in
47.6 mm

Con Rod (m):
R48315, R53287, R58883, R66926

Bock (m):
R48260, R72129, R80401

APPLICATIONS:

CONSTRUCTION
644B
646B
770
770A
772A

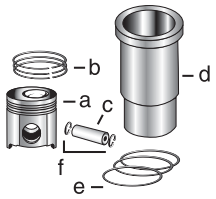


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK6512

2) TIK6512

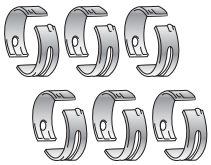


Piston-Liner Kit

TPLK512

Consists of:

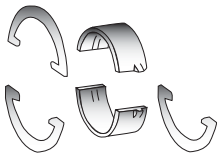
a) TAR67512
b) TAR53226
c) TR49418
d) TR48350
e) TR49423
f) TE1343FN



Main Bearing

TAR101266 **Std.**
TAR104568 **.010**
TAR104569 **.020**
TAR104570 **.030**

Use 6



Thrust Bearing

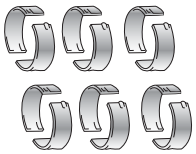
TAR101267 **Std.**
TAR104564 **.010**
TAR104565 **.020**
TAR104566 **.030**

Use 1

Thrust Washer

TAR89622 **Std.**
TAR89971 **.007**

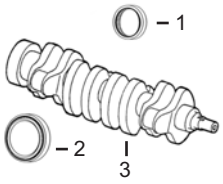
Use 3, Order Qty 1



Con Rod Bearing

TAR53020 **Std.**
TAR57208 **.010**
TAR57209 **.020**
TAR57210 **.030**

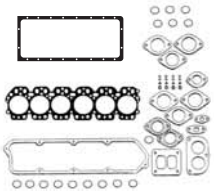
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft

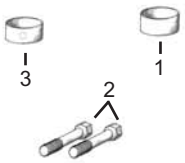
1) TAR49025
2) TRE13310
3) TAR92533



1) O/H Gasket Set

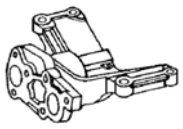
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TRE17050
2) TAR67510
3) TR78513
4) TR71919



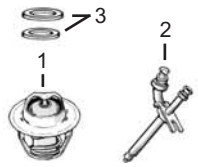
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR76783 ***x6***
2) TR66453 ***x12***
3) TR46903 ***x4***



Pump, Oil

TRE60622 **(1)**



1) Thermostat
2) Injector, Pencil
3) Seal

1) TAR48675 180°F
2) TAR50782
3) TR60746
TR48000



Valve, Intake

TR90602 **Std.**

Valve, Exhaust

TR90601 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TR41868
2) TR41869

1) Guide, Valve
2) Lock, Valve
3) Cap, Valve

1) TR53192
2) TR35431
3) TR40366

Spring, Valve
1) Outer
2) Inner
3) Rotator, Valve

1) TR49571
2) TR49569
3) TR81086

(1) Crank Driven Pump.

500 Series

Engine & Equipment Model

6.531A

6 Cyl

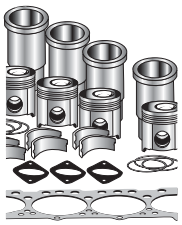
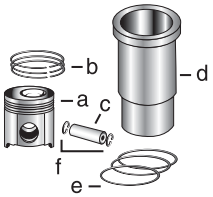
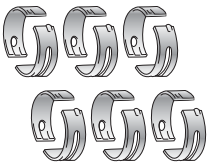
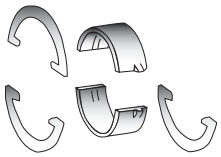
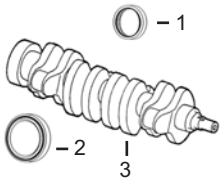
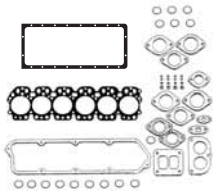
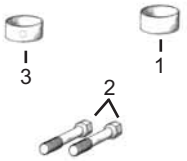
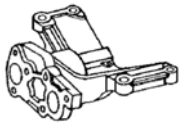
Bore: 4.75 in
121 mm
Pin Ø: 1.875 in
47.6 mm

Con Rod (m):
R48315, R53287, R58883, R66926

Block (m):
R48260, R72129, R80401

APPLICATIONS:

AGRICULTURAL
6030
7520

					
	1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
	2) Engine I/F Kit **1) TOK6225** **2) TIK6225**	**TPLK225** Consists of: a) TAR53227 b) TAR53226 c) TR49418 d) TR48350 e) TR49423 f) TE1343FN	TAR101266 **Std.** TAR104568 **.010** TAR104569 **.020** TAR104570 **.030** **Use 6**	TAR101267 **Std.** TAR104564 **.010** TAR104565 **.020** TAR104566 **.030** **Use 1** **Thrust Washer** TAR89622 **Std.** TAR89971 **.007** **Use 3, Order Qty 1**	TAR53020 **Std.** TAR57208 **.010** TAR57209 **.020** TAR57210 **.030** **Use 6**
					
	1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	Pump, Oil	Thermostat
	3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
	1) TAR49025 2) TRE13310 3) TAR92533	1) TRE17046 2) TAR56154 3) TR78513 4) TR71919	1) TR76783 ***x6*** 2) TR66453 ***x12*** 3) TR46903 ***x4***	TRE60622 **(1)**	TAR48675 180° F
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve
	TR90602 **Std.**	TR90601 **Std.**	N/A	1) TR53192 2) TR35431 3) TR40366	1) TR49571 2) TR49569 3) TR81086

(1) Crank Driven Pump.

500 Series

Engine & Equipment Model

6.619A/T

To 033814

6 Cyl **Early**

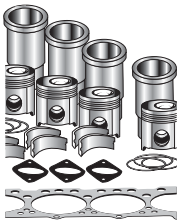
Bore: 5.125 in
130 mm
Pin Ø: 2.00 in
50.8 mm

Con Rod (m):
R66925, R57484

Block (m):
R57424

APPLICATIONS:

AGRICULTURAL
8630

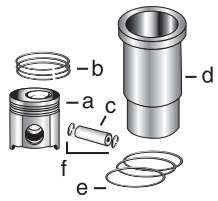


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK84089

2) TIK84089

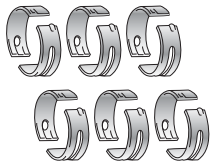


Piston-Liner Kit

TAR84089

Consists of:

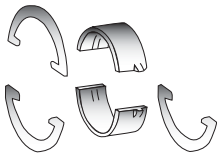
a) TAR69038
b) TAR82355
c) TR64451
d) TR65629
e) TAR72351
f) TN51168



Main Bearing

TAR101268 **Std.**
TAR104122 **.010**
TAR104123 **.020**
TAR104124 **.030**

Use 6



Thrust Bearing

TAR101269 **Std.**
TAR104126 **.010**
TAR104127 **.020**
TAR104128 **.030**

Use 1

Thrust Washer

TAR89622 **Std.**
TAR89971 **.007**

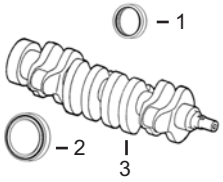
Use 3, Order Qty 1



Con Rod Bearing

TAR101271 **Std.**
TAR104130 **.010**
TAR104131 **.020**
TAR104132 **.030**

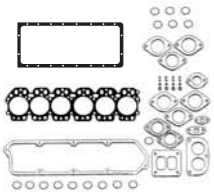
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft

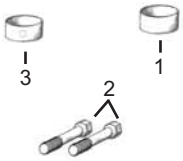
1) TAR49025
2) TRE13310
3) TAR92533



1) O/H Gasket Set

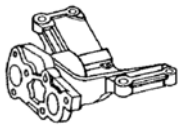
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TRE37416
2) TRE37417
3) TRE34009
4) TR71919



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR60197 ***x6***
2) TR66453 ***x12***
3) TR46903 ***x4***



Pump, Oil

TRE60622 **(1)**



Thermostat

TAR48675 180° F



Valve, Intake

TR75690 **Std.**

Valve, Exhaust

TR63982 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TR59894 **Std.**
2) TR60537 **Std.**

1) Guide, Valve
2) Lock, Valve
3) Cap, Valve

1) TR53192
2) TR35431
3) TR40366

Spring, Valve
1) Outer
2) Inner
3) Rotator, Valve

1) TR49571
2) TR49569
3) TR81086

(1) Crank Driven Pump.

500 Series

Engine & Equipment Model

6.619A/T

033815 - 049059

6 Cyl Mid

Bore: 5.125 in
130 mm
Pin Ø: 2.00 in
50.8 mm

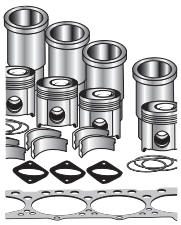
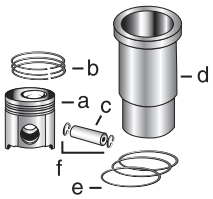
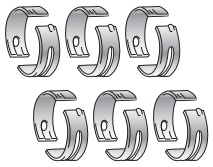
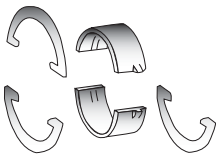
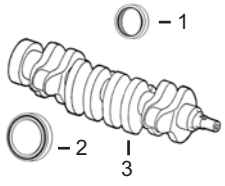
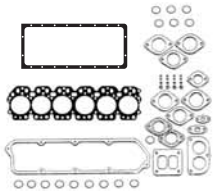
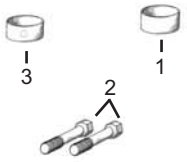
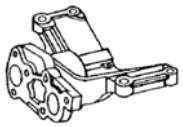
Con Rod (m):
R63959

Block (m):
R74123, R72130

APPLICATIONS:

AGRICULTURAL
8630
8640
8650

CONSTRUCTION
762 862
850 890
855 890A
860B

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE20291**	TAR101268 **Std.** TAR104122 **.010** TAR104123 **.020** TAR104124 **.030**	TAR101269 **Std.** TAR104126 **.010** TAR104127 **.020** TAR104128 **.030**	TAR101271 **Std.** TAR104130 **.010** TAR104131 **.020** TAR104132 **.030**
1) TOK20291	Consists of:	**Use 6**	**Use 1**	**Use 6**
2) TIK20291	a) TRE20275 b) TAR82355 c) TR64451 d) TR65629 e) TAR72351 f) TN51168		**Thrust Washer** TAR89622 **Std.** TAR89971 **.007** **Use 3, Order Qty 1**	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	Pump, Oil	Thermostat
3) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE13310 3) TAR92533	1) TRE37416 2) TRE37417 3) TRE34009 4) TR71919	1) TR69045 ***x6*** 2) TR66453 ***x12*** 3) TR46903 ***x4***	TRE60622 **(1)**	TAR48675 180° F
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Cap, Valve	Spring, Valve 1) Outer 2) Inner 3) Rotator, Valve
	TR75690 **Std.**	TR63982 **Std.**	1) TR59894 **Std.** 2) TR60537 **Std.**	1) TR53192 2) TR35431 3) TR40366	1) TR49571 2) TR49569 3) TR81086

(1) Crank Driven Pump.

500 Series

Engine & Equipment Model

6.619 A/T

From 049060

6 Cyl **Late**

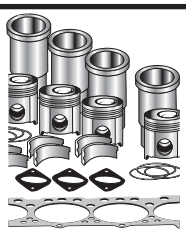
Bore: 5.125 in
130 mm
Pin Ø: 2.00 in
50.8 mm

Con Rod (m):
R63959

APPLICATIONS:

AGRICULTURAL
8630
8640
8650

CONSTRUCTION
744E 862
762 890
850 890A
855 992D/E
860B

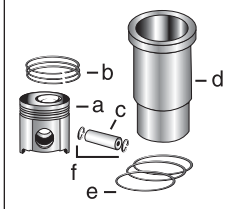


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK40476

2) TIK40476

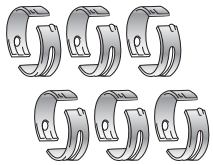


Piston-Liner Kit

TRE40476

Consists of:

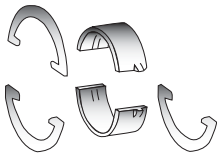
a) TRE20275
b) TAR82355
c) TR64451
d) TR77640
e) TAR72351
f) TN51168



Main Bearing

TAR101268 **Std.**
TAR104122 **.010**
TAR104123 **.020**
TAR104124 **.030**

Use 6



Thrust Bearing

TAR101269 **Std.**
TAR104126 **.010**
TAR104127 **.020**
TAR104128 **.030**

Use 1

Thrust Washer
TAR89622 **Std.**
TAR89971 **.007**

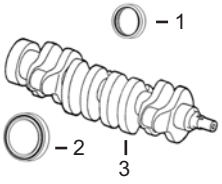
Use 3, Order Qty 1



Con Rod Bearing

TAR101271 **Std.**
TAR104130 **.010**
TAR104131 **.020**
TAR104132 **.030**

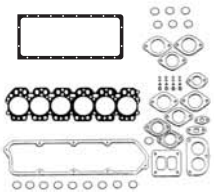
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft

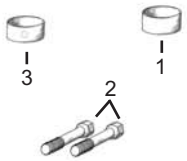
1) TAR49025
2) TRE13310
3) TAR92533



1) O/H Gasket Set

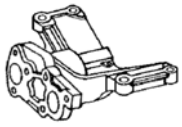
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

1) TRE37416
2) TRE37417
3) TRE34009
4) TR71919



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR69045 ***x6***
2) TR66453 ***x12***
3) TR46903 ***x4***



Pump, Oil

TRE60622 **(1)**



Thermostat

TAR48675 180° F



Valve, Intake

TR75690 **Std.**

Valve, Exhaust

TR63982 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TR59894 **Std.**
2) TR60537 **Std.**

1) Guide, Valve
2) Lock, Valve
3) Cap, Valve

1) TR53192
2) TR35431
3) TR40366

Spring, Valve
1) Outer
2) Inner
3) Rotator, Valve

1) TR49571
2) TR49569
3) TR81086

(1) Crank Driven Pump.

MAXIFORCE® DIESELENGINEPARTS

500 Series

Engine & Equipment Model

6.101A/T

To 499,999

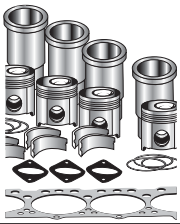
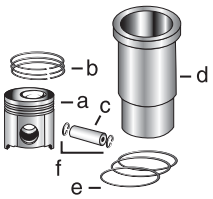
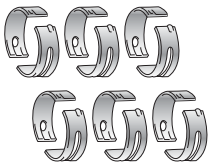
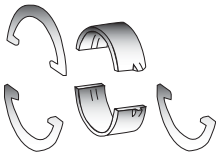
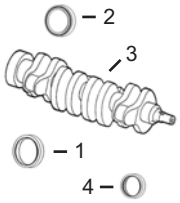
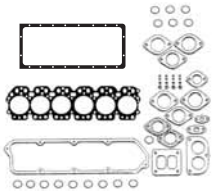
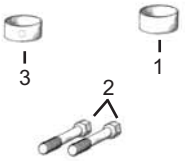
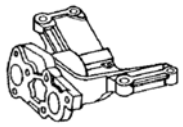
6 Cyl

Bore: 5.125 in
130 mm
Pin Ø: 2.00 in
50.8 mm

Block (m):
R75934, R87552, R88217
R98554

APPLICATIONS:

AGRICULTURAL
8760
8870

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE40476**	TAR101268 **Std.** TAR104122 **.010** TAR104123 **.020** TAR104124 **.030**	TAR101269 **Std.** TAR104126 **.010** TAR104127 **.020** TAR104128 **.030**	TAR101271 **Std.** TAR104130 **.010** TAR104131 **.020** TAR104132 **.030**
1) TOK40476L	Consists of:	**Use 6**	**Use 1**	**Use 6**
2) TIK40476L	a) TRE20275 b) TAR82355 c) TR64451 d) TR77640 e) TAR72351 f) TN51168		**Thrust Washer** TAR89622 **Std.** TAR89971 **.007** **Use 3, Order Qty 1**	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	Pump, Oil	Thermostat
3) Crankshaft 4) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket			
1) TAR49025 2) TRE13310 3) TAR92533 4) TR63326	1) TRE37416 2) TRE37417 3) TRE34009 4) TR71919	1) TR69045 ***x6*** 2) TR66453 ***x12*** 3) TR87561 ***x4***	TRE60622 **(1)**	TAR48675 180° F
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Shield, Valve	1) Spring, Valve 2) Rotator, Valve 3) Cap, Valve
	TR101304	TR101305	N/A	1) TT20077 2) TR102882 ***x6***	1) TR91822 2) TRE11410 3) TT20129

(1) Crank Driven Pump.

John Deere®/Yanmar®
Engine & Equipment
Model

3TNE84

3015

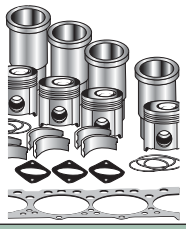
Bore: 3.30 in
84.00 mm

Stroke: 3.54 in
90.00 mm

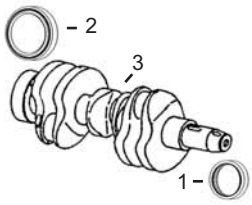
APPLICATIONS:

790 Utility Tractor
3225B Mower
3235 Mower
3235A Mower
3235B Mower
4300 Utility Tractor
4310 Utility Tractor
4475 Skid Steer

OEM Applications
3015



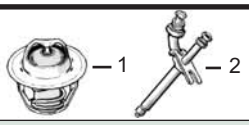
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK3015D **TOK3015D/10**	**a) TAM878606 Std.** **TAM878598 0.010** **Use 3** b) TAM878555 **Std.** TAM878599 **.010** **See note (1) below**	TMIA880554 **Std.** TMIA880550 **.010** **Use 4**	TMIA880563 **Std.** TMIA880568 **.010** **Use 3**	TMIA880555 **Set of 4**



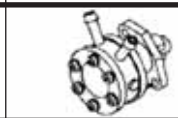
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM880894 **(4)**	1) TMGS3015 2) TM806440 3) TM64850 4) TM801741	1) TM801256 ***x3*** 2) TCH15483 ***x6*** 3) TMIU800573 ***x1***	1) TM801046 ***x6*** 2) TAM876430 **(5)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
TM801220 ***x3***	TMIU800494 ***x3***	1) TM801227 ***x3*** 2) TM801228 ***x3***	1) TAM878862 ***x12*** 2) TCH10450 ***x3*** 3) TT110650 ***x3***	TM801222 ***x6***











1) Thermostat 2) Injector	Oil Pump	Lift Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAT110293 **(2)**	TAM878778	TAM882462	1) TAM882090 **(2)** 2) TAM880905 **(2)** 3) TAM881943 **(2)** 4) TMIA880356 **(3)**	84RS

(1) We will offer current piston kit until stock is depleted. After that use Ring Set part number **TAM878555A Std.** and **TAM878599A 0.25** for Alfin Pistons.
(2) Check your application for proper usage.
(3) Like **TAM882090,** with Inject Pump cooling connections.
(4) Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(5) Gear not included.

For Additional JOHN DEERE® Products Refer to Page T95

John Deere® / Yanmar®

Engine & Equipment Model

4TNE84

4020

Bore: 3.30 in
84.00 mm

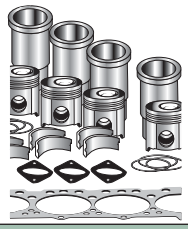
Stroke: 3.54 in
90.00 mm

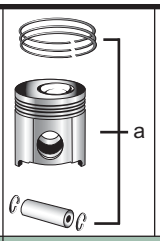
APPLICATIONS:

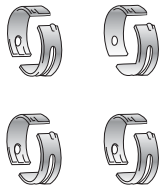
990 Utility Tractor
110 Loader Backhoe
4500 Utility Tractor
4510 Utility Tractor
4600 Utility Tractor
4610 Utility Tractor
6675 Skid Steer

OEM Applications

4020



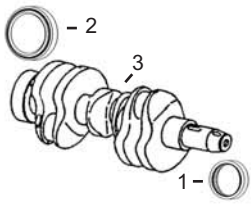


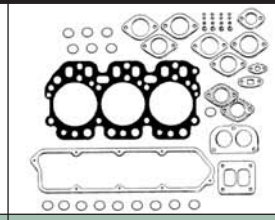


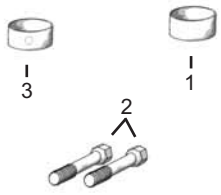


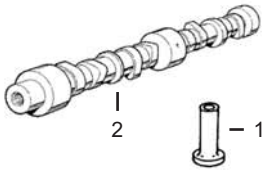


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4020D **TOK4020D/10**	**a) TAM878606 Std.** **TAM878598 0.010** **Use 4** b) TAM878555 **Std.** TAM878599 **.010** **See note (1) below**	TMIA880554 **Std.** TMIA880550 **.010** **Use 5**	TMIA880563 **Std.** TMIA880568 **.010** **Use 4**	TMIA880555 **Set of 4**





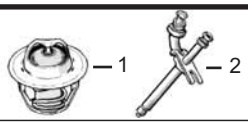




1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM878619 **(4)**	1) TMGS4020 2) TM806505 3) TM64850 4) TM801230	1) TM801256 ***x4*** 2) TCH15483 ***x8*** 3) TMIU800573 ***x1***	1) TM801046 ***x8*** 2) TAM875386 **(5)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
TM801220 ***x4***	TMIU800494 ***x4***	1) TM801227 ***x4*** 2) TM801228 ***x4***	1) TAM878862 ***x16*** 2) TCH10450 ***x4*** 3) TT110650 ***x4***	TM801222 ***x8***











1) Thermostat 2) Injector	Oil Pump	Lift Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAT110293 **(2)**	TAM878778	TAM882462	1) TAM882090 **(2)** 2) TAM880905 **(2)** 3) TAM881943 **(2)** 4) TMIA880356 **(3)**	84RS

(1) We will offer current piston kit until stock is depleted. After that use Ring Set part number **TAM878555A Std.** and **TAM878599A 0.25** for Alfin Pistons.
(2) Check your application for proper usage.
(3) Like **TAM882090,** with Inject Pump cooling connections.
(4) Gear not included. Suitable for 4TNE84/88 and 4TNV84/88.
(5) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

For Additional JOHN DEERE® Products Refer to Page T95

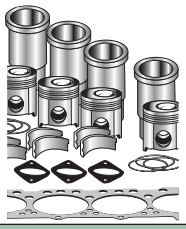
John Deere®/Yanmar®
Engine & Equipment
Model

3TNE88

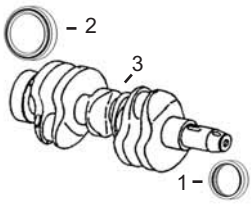
Bore: 3.46 in
88.00 mm

APPLICATIONS:

1565 Mower
4400 Utility Tractor
4410 Utility Tractor
5575 Skid Steer



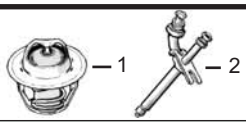
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK3TNE88 **TOK3TNE88/10**	a) **TAM879953** **Std.** **TAM878641** **0.010** **Use 3** b) TAM879901 **Std.** TAM878642 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 4**	TMIA880563 **Std.** TMIA880568 **.010** **Use 3**	TMIA880555 **Set of 4**



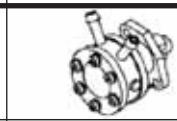
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM880894 **(3)**	1) TMGS3TNE88 2) TM806811 3) TM64850 4) TM801741	1) TM801256 ***x3*** 2) TCH15483 ***x6*** 3) TMIU800573 ***x1***	1) TM801046 ***x6*** 2) TAM876430 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TM801220 ***x3***	TMIU800494 ***x3***	1) TM801227 ***x3*** 2) TM801228 ***x3***	1) TCH10450 ***x3*** 2) TT110650 ***x3***	TM801222 ***x6***









1) Thermostat 2) Injector	Oil Pump	Lift Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAT110293 **(1)**	TAM878778	TAM882462	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	88RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4) Gear not included.

MAXIFORCE® DIESELENGINEPARTS

John Deere® / Yanmar®

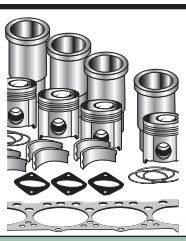
Engine & Equipment Model

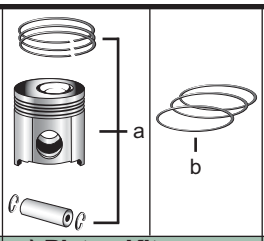
4TNE88

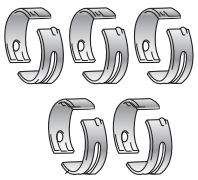
Bore: 3.46 in
88.00 mm

APPLICATIONS:

1600 Mower
1620 Mower
4700 Utility Tractor
4710 Utility Tractor
7775 Skid Steer



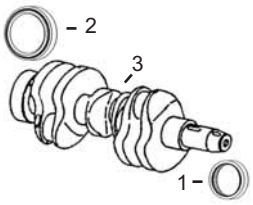


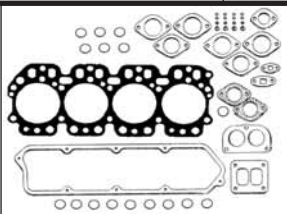


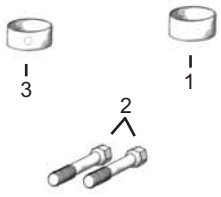


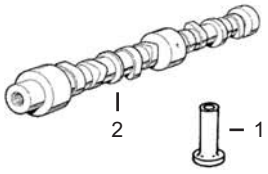


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4TNE88 **TOK4TNE88/10**	**a) TAM879953 Std.** **TAM878641 0.010** **Use 4** b) TAM879901 **Std.** TAM878642 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 5**	TMIA880563 **Std.** TMIA880568 **.010** **Use 4**	TMIA880555 **Set of 4**





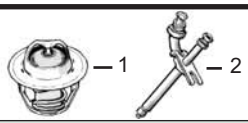




1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM878619 **(3)**	1) TMGS4TNE88 2) TM806518 3) TM64850 4) TM801230	1) TM801256 ***x4*** 2) TCH15483 ***x8*** 3) TMIU800573 ***x1***	1) TM801046 ***x8*** 2) TAM875386 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TM801220 ***x4***	TMIU800494 ***x4***	1) TM801227 ***x4*** 2) TM801228 ***x4***	1) TCH10450 ***x4*** 2) TT110650 ***x4***	TM801222 ***x8***











1) Thermostat 2) Injector	Oil Pump	Lift Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAT110293 **(1)**	TAM878778	TAM882462	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	88RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 4TNE84/88 and 4TNV84/88.
(4) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

For Additional JOHN DEERE® Products Refer to Page T95

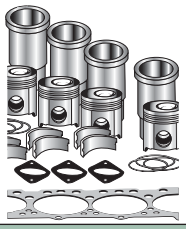
John Deere®/Yanmar®
Engine & Equipment
Model

3TNV84

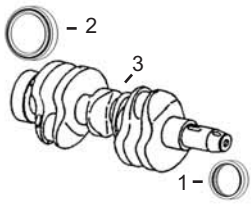
Bore: 3.30 in
84.00 mm

APPLICATIONS:

3036E Utility Tractor
3038E Utility Tractor
3120 Utility Tractor
3203 Utility Tractor
3225C Fairway Mowers
3235C Fairway Mowers
3245C Rotary Deck Mower
3520 Utility Tractor
3720 Utility Tractor
4105 Utility Tractor
7400 Mower
7500 Mower
7700 Mower
8000 Mower
8400 Mower
8500 Mower
8700 Mower
8800 Mower



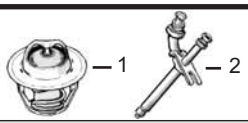
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK3TNV84 **TOK3TNV84/10**	a) **TAM881978** **Std.** **TAM881939** **0.010** **Use 3** b) TAM881938 **Std.** TAM881940 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 4**	TMIA880563 **Std.** TMIA880568 **.010** **Use 3**	TMIA880555 **Set of 4**



1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM880894 **(3)**	1) TMGS3015 2) TM806440 3) TM64850 4) TM811429	1) TM801256 ***x3*** 2) TCH15483 ***x6*** 3) TMIU800573 ***x1***	1) TM801046 ***x6*** 2) TAM876430 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TMIU800446 ***x3***	TMIU800494 ***x3***	1) TM801227 ***x3*** 2) TM801228 ***x3***	1) TCH10450 ***x3*** 2) TT110650 ***x3***	TM801222 ***x6***



1) Thermostat 2) Injector	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAM881953 **(1)**	TAM878778	TAM876266	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	84RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4) Gear not included.

John Deere® / Yanmar®

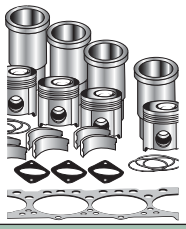
Engine & Equipment Model

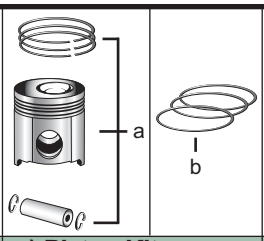
4TNV84

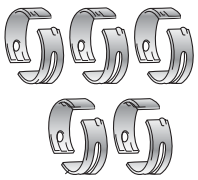
Bore: 3.30 in
84.00 mm

APPLICATIONS:

990 Utility Tractor



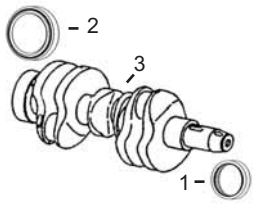


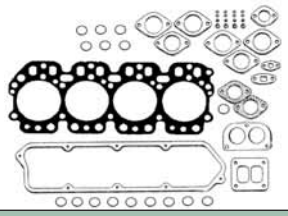


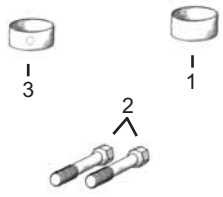


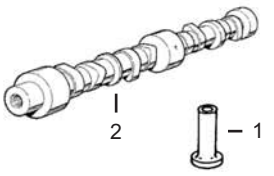


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4TNV84 **TOK4TNV84/10**	**a) TAM881978 Std.** **TAM881939 0.010** **Use 4** b) TAM881938 **Std.** TAM881940 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 5**	TMIA880563 **Std.** TMIA880568 **.010** **Use 4**	TMIA880555 **Set of 4**





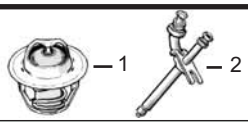




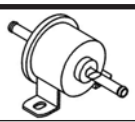
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM878619 **(3)**	1) TMGS4020 2) TM806440 3) TM64850 4) TM811123	1) TM801256 ***x4*** 2) TCH15483 ***x8*** 3) TMIU800573 ***x1***	1) TM801046 ***x8*** 2) TAM875386 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TMIU800446 ***x4***	TMIU800494 ***x4***	1) TM801227 ***x4*** 2) TM801228 ***x4***	1) TCH10450 ***x4*** 2) TT110650 ***x4***	TM801222 ***x8***











1) Thermostat 2) Injector	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAM881953 **(1)**	TAM878778	TAM876266	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	84RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 4TNE84/88 and 4TNV84/88.
(4) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

For Additional JOHN DEERE® Products Refer to Page T95

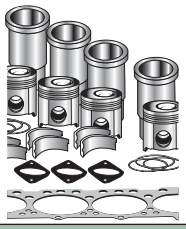
John Deere®/Yanmar®
Engine & Equipment Model

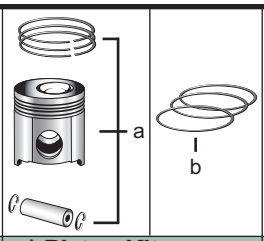
4TNV84T

Bore: 3.30 in
84.00 mm

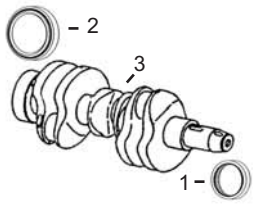
APPLICATIONS:

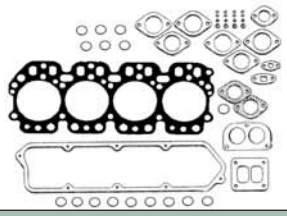
1600 Series II Mower

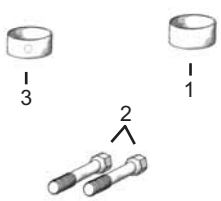


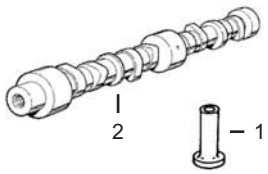


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4TNV84T **TOK4TNV84T/10**	a) **TMIA880354** **Std.** **TMIA880355** **0.010** **Use 4** b) TAM881938 **Std.** TAM881940 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 5**	TMIA880563 **Std.** TMIA880568 **.010** **Use 4**	TMIA880555 **Set of 4**









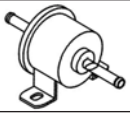
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM878619 **(3)**	1) TMIA880366 2) TMIU800384 3) TM64850 4) TMIU800399	1) TM801256 ***x4*** 2) TCH15483 ***x8*** 3) TMIU800573 ***x1***	1) TM801046 ***x8*** 2) TAM875386 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TMIU800391 ***x8***	TMIU800392 ***x8***	TM811855 ***x16***	1) TM811850 ***x8*** 2) TM811851 ***x8***	TMIU800393 ***x16***











Thermostat	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
TM811034	TAM878778	TAM876266	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	84RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 4TNE84/88 and 4TNV84/88.
(4) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

MAXIFORCE® DIESELENGINEPARTS

John Deere® / Yanmar®

Engine & Equipment Model

3TNV88

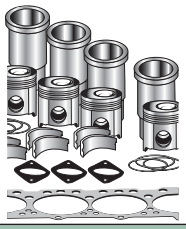
Bore: 3.46 in
88.00 mm

APPLICATIONS:

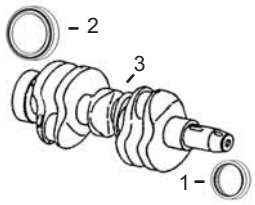
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35D Compact Excavator
35G Compact Excavator
1565 Front Mower
3032E Utility Tractor
3320 Utility Tractor

OEM Applications

3016



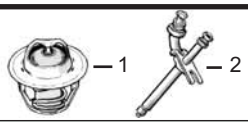
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK3TNV88 **TOK3TNV88/10**	**a) TAM881814 Std.** **TAM881811 0.010** **Use 3** b) TAM881812 **Std.** TAM881810 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 4**	TMIA880563 **Std.** TMIA880568 **.010** **Use 3**	TMIA880555 **Set of 4**



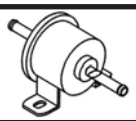
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM880894 **(3)**	1) TMGS3TNE88 2) TM806811 3) TM64850 4) TM811429	1) TM801256 ***x3*** 2) TCH15483 ***x6*** 3) TMIU800573 ***x1***	1) TM801046 ***x6*** 2) TAM876430 **(4)**

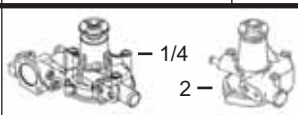


Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TM811557 ***x3***	TMIU800494 ***x3***	1) TM801227 ***x3*** 2) TM801228 ***x3***	1) TCH10450 ***x3*** 2) TT110650 ***x3***	TM801222 ***x6***











1) Thermostat 2) Injector	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAM881953 **(1)**	TAM878778	TAM876266	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	88RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 3TNE84/88 and 3TNV84/88.
(4) Gear not included.

For Additional JOHN DEERE® Products Refer to Page T95

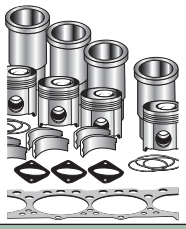
John Deere®/Yanmar®
Engine & Equipment Model

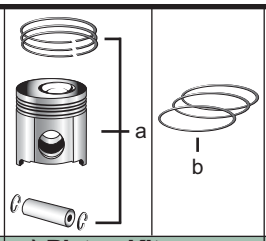
4TNV88

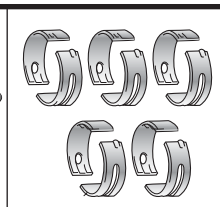
Bore: 3.46 in
88.00 mm

APPLICATIONS:

50D Compact Excavator
110 Loader Backhoe
1505 Prof Lawnmower
1515 Prof Lawnmower
1905 Reel Mower
2720 Utility Tractors
4405 Utility Tractors



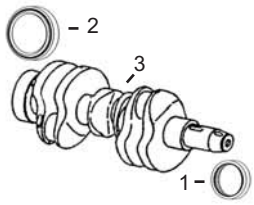


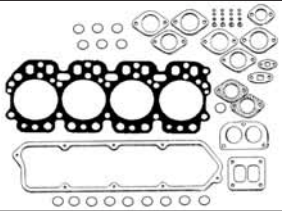


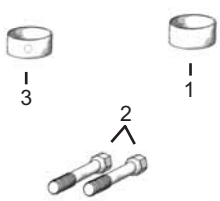


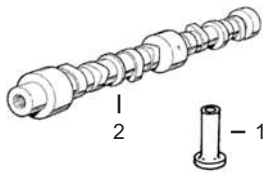


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
TOK4TNV88 **TOK4TNV88/10**	a) **TAM881814** **Std.** **TAM881811** **0.010** **Use 4** b) TAM881812 **Std.** TAM881810 **0.010**	TMIA880554 **Std.** TMIA880550 **.010** **Use 5**	TMIA880563 **Std.** TMIA880568 **.010** **Use 4**	TMIA880555 **Set of 4**





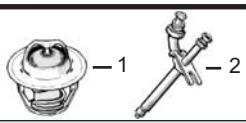




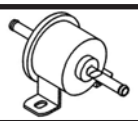
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) TM800988 2) TM805278 3) TAM878619 **(3)**	1) TMGS4TNE88 2) TM806518 3) TM64850 4) TM811123	1) TM801256 ***x4*** 2) TCH15483 ***x8*** 3) TMIU800573 ***x1***	1) TM801046 ***x8*** 2) TAM875386 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
TM811557 ***x4***	TMIU800494 ***x4***	1) TM801227 ***x4*** 2) TM801228 ***x4***	1) TCH10450 ***x4*** 2) TT110650 ***x4***	TM801222 ***x8***











1) Thermostat 2) Injector	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
1) TM811034 2) TAM881953 **(1)**	TAM878778	TAM876266	1) TAM882090 **(1)** 2) TAM880905 **(1)** 3) TAM881943 **(1)** 4) TMIA880356 **(2)**	88RS

(1) Check your application for proper usage.
(2) Like **TAM882090,** with Inject Pump cooling connections.
(3) Gear not included. Suitable for 4TNE84/88 and 4TNV84/88.
(4) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

PowerTech

Engine & Equipment Model

3029

2.9D

From 252,768

CODE 4809

3 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.3 in
32 mm

Piston (m):
RE61467

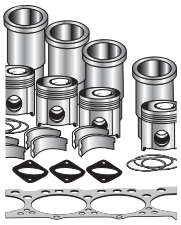
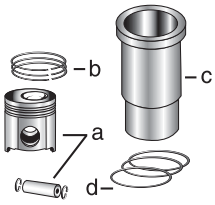
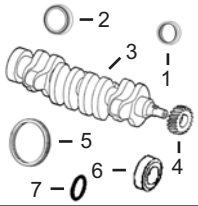
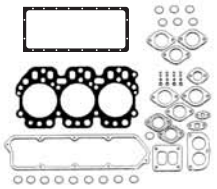
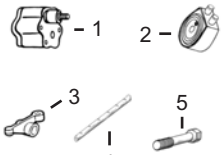
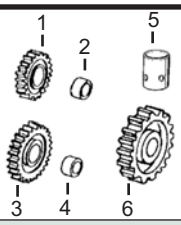
Con Rod (m):
R121092, R501072

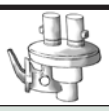
APPLICATIONS:

AGRICULTURAL
240
3100 5210
5105 5220
5200 5300
5205 5310/N

OEM
2.9L

SDMO GENERATOR
J20U J30U
J22 J33

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE66968**	TRE27352 **Std.**	TAT21139 **Std.**	TRE27348 **Std.**
1) TOK2.9D9 **TOK2.9D9A** (6)	Consists of: a) TRE61467 (3) b) TRE66271 c) TR116281 d) TAR65507	TRE27353 **.010** TRE27360 **.020** TRE27368 **.030**	TAT21132 **.010** TAT21134 **.020** TAT21136 **.030**	TRE27349 **.010** TRE27358 **.020** TRE27364 **.030**
2) TIK2.9D9 **TIK2.9D9A** (6)		**Use 3**	**Use 1**	**Use 3**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	1) Pump, Oil 2) Oil Cooler 3) Rocker Arm (Intake/Exhaust) 4) Rock. Arm Shaft 5) Cyl Hd Cap Screw	1) Lower Gear 2) Lower Bushing 3) Upper Gear 4) Upper Bushing 5) Cam. Follower 6) Cam Gear
3) Crankshaft 4) Crankshaft, Gear 5) Ring Gear 6) Sleeve, Front 7) Packing, Sleeve	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk			
1) TAR67942 2) TRE44574 3) TRE521348 (4) 4) TT20094 (2) 5) TR28811 (129T) TR114282 (142T) 6) TR81989 7) TH35244	1) TRE501578 2) TRE38850 3) TR97356 4) TR97341 5) TR106796	1) TR504300 ***x3*** 2) TR80033 ***x6*** (5) TR501124 ***x6*** (5)	1) TRE55343 2) TRE61767 3) TRE31973 4) TR54985 5) TR85363 ***x14*** (2)	1) TAT24252 (1) 2) TT26321 3) TAT18009 (1) 4) TT20034 5) TT20073 ***x6*** 6) TT20070 (1)
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR106831 2) TR106829	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

					
Thermostat	Fuel Transfer Pump	Water Pump Rep Kit a) Without Impeller b) With Impeller	Water Pump	Injector, Pencil	Seal, Injector Kit
TRE64354 180° F	TRE38009	See Chart on Page IT18	TAR97708 (m) R73604 TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164 TRE67185 (7)	TRE36936	TRE65201

(1) Helicoidal Gears.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw **TR85363**.
(3) Piston includes Pin and Retainers.
(4) Kit contains **TT20094** helical gear to convert to a **TRE50979** Crankshaft.
(5) With Machine Split Con Rod use **TR80033** and With Fractured Con Rod use **TR501124**.
(6) For used with Fractured split connecting rod.
(7) Check your application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

3029D/T

2.9D, 2.9T

CODE 4831

3 Cyl

Bore: 4.19 in
106.5 mm

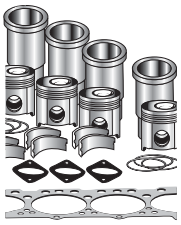
Pin Ø: 1.3 in
32 mm

Piston (m):
RE520573

APPLICATIONS:

AGRICULTURAL

5103	5045D
5203	5045E
5303	5047D
5310	5050D
5403	5050E
5410	5055D
5503	5055E
5610	5060E
5036C	5065E
5038D	5075E
5039C	5075EF
5039D	5075M
5041C	R40
5042C	R40 Plus
5042D	Genset

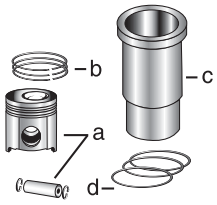


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK2.9D/T

2) TIK2.9D/T



Piston-Liner Kit

TRE520768

Consists of:

a) TRE520573 (2)
b) TRE66271
c) TR116281
d) TAR65507



Main Bearing

TRE27352	**Std.**
TRE27353	**.010**
TRE27360	**.020**
TRE27368	**.030**

Use 3



Thrust Bearing

TAT21139	**Std.**
TAT21132	**.010**
TAT21134	**.020**
TAT21136	**.030**

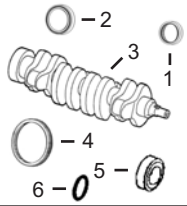
Use 1



Con Rod Bearing

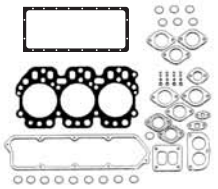
TRE27348	**Std.**
TRE27349	**.010**
TRE27358	**.020**
TRE27364	**.030**

Use 3



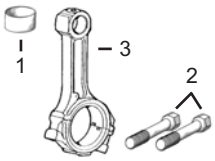
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Ring Gear
5) Sleeve, Front
6) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE521348
4) TR28811 (129T)
TR114282 (142T)
5) TR81989
6) TH35244



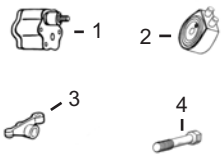
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501578
2) TRE38850
3) TR97356
4) TR97341
5) TR106796



1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) TR504300 ***x3***
2) TR80033 ***x6***
2) TRE507799 (4)



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm (Intake/Exhaust)
4) Cyl Hd Cap Screw

1) TRE55343
2) TRE61767
3) TRE31973
4) TR502511 ***x14*** (1)
TR85363 ***x14*** (1)



1) Lower Bushing
2) Upper Bushing
3) Cam. Follower

1) TT26321
2) TT20034
3) TT20073 ***x6***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

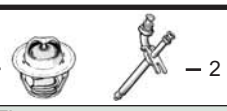
1) TR106831
2) TR106829

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

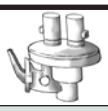
1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



1) Thermostat
2) Injector

1) TRE64354 180° F
2) TRE36936 (3)
TRE48786 (3)
TRE60062 (3)



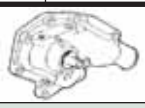
Fuel Transfer Pump

TRE38009 (3)



Water Pump Rep Kit
a) Without Impeller b) With Impeller

a) TRE19507
b) TRE62658



Water Pump

TAR97708

(1) Check application for proper Cap Screw.
(2) Piston includes Pin and Retainers.
(3) Check for proper application.
(4) Machine Split.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

3029

2.9T

From 258847

CODE 4808

3 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

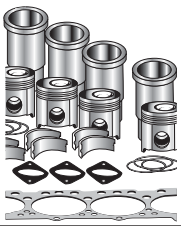
Piston (m):
RE61270

Con Rod (m):
R105011, R501073

APPLICATIONS:

AGRICULTURAL
5400 From 261581
5400N
8875 Skid Steer

OEM
2.9L

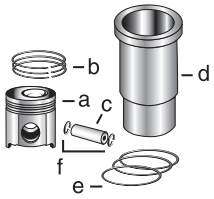


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK2.9T
TOK2.9TA (6)

2) TIK2.9T
TIK2.9TA (6)



Piston-Liner Kit

TRE67426

Consists of:

a) TRE61270
b) TRE66271
c) TMX3915
d) TR116281
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 3



Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

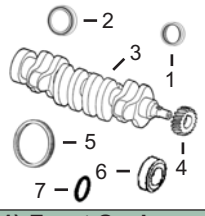


Con Rod Bearing

TRE27348 **Std.**

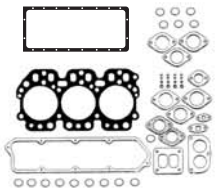
TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

Use 3



1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE521348 (4)
4) TT20094 (1)
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



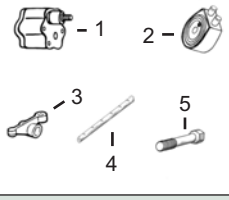
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501578
2) TRE38850
3) TR97356
4) TR97341
5) TR106796



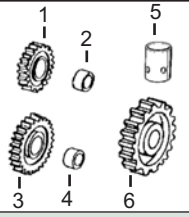
1) Bush, Con Rod
2) Bolt, Con Rod

1) TR57451 ***x3*** (3)
2) TR80033 ***x6*** (5)
TR501124 ***x6*** (5)



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm (Intake/Exhaust)
4) Rocker Arm Shaft
5) Cyl Hd Cap Screw

1) TRE55343
2) TRE61767
3) TRE31973
4) TR54985
5) TR85363 ***x14*** (2)



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam Gear

1) TAT24252 (1)
2) TT26321
3) TAT18009 (1)
4) TT20034
5) TT20073 ***x6***
6) TT20070 (1)



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR106831 **Std.**
2) TR106829 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

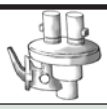
1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TRE64354 180° F



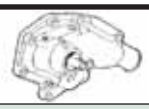
Fuel Transfer Pump

TRE38009



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

TAR97708 (m) R73604
TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164
TRE67185



Injector, Pencil

TRE38087



Seal, Injector Kit

TRE64292

(1) Helicoidal Gears.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw **TR85363**.
(3) After bushing installation, machine bushing to fit the shape of connecting rod before fitting piston pin.
(4) Kit contains **TT20094** helical gear to convert to a TRE50979 Crankshaft.
(5) With Machine Split Con Rod use **TR80033** and With Fractured Con Rod use **TR501124**.
(6) For used with Fractured split connecting rod.

PowerTech

Engine & Equipment Model

3029

2.9T

From 258847

CODE 4808

3 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

Piston (m):
RE500211

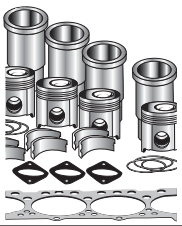
Con Rod (m):
R105011, R501073

APPLICATIONS:

AGRICULTURAL
5400 From 261581
5400N
8875 Skid Steer

OEM
2.9L

SDMO GENERATOR
J44K
J40U
R45U

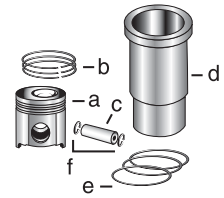


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK2.9T2
TOK2.9T2A (6)

2) TIK2.9T2
TIK2.9T2A (6)



Piston-Liner Kit

TRE500673

Consists of:

a) TRE500211
b) TRE66271
c) TMX3915
d) TR116281
e) TAR65507
f) TR54114



Main Bearing

TRE27352 **Std.**

TRE27353 **.010**
TRE27360 **.020**
TRE27368 **.030**

Use 3



Thrust Bearing

TAT21139 **Std.**

TAT21132 **.010**
TAT21134 **.020**
TAT21136 **.030**

Use 1

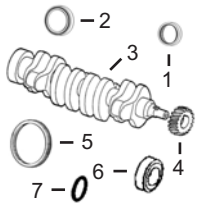


Con Rod Bearing

TRE27348 **Std.**

TRE27349 **.010**
TRE27358 **.020**
TRE27364 **.030**

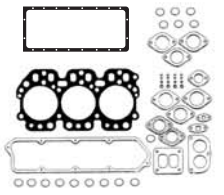
Use 3



1) Front Seal
2) Rear Seal

3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear
6) Sleeve, Front
7) Packing, Sleeve

1) TAR67942
2) TRE44574
3) TRE521348 (4)
4) TT20094 (1)
5) TR28811 (129T)
TR114282 (142T)
6) TR81989
7) TH35244



1) O/H Gasket Set

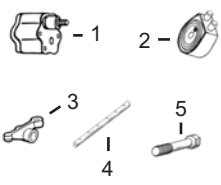
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501578
2) TRE38850
3) TR97356
4) TR97341
5) TR106796



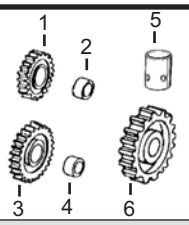
1) Bush, Con Rod
2) Bolt, Con Rod

1) TR57451 ***x3*** (3)
2) TR80033 ***x6*** (5)
TR501124 ***x6*** (5)



1) Pump, Oil
2) Oil Cooler
3) Rocker Arm (Intake/Exhaust)
4) Rocker Arm Shaft
5) Cyl Hd Cap Screw

1) TRE55343
2) TRE61767
3) TRE31973
4) TR54985
5) TR85363 ***x14*** (2)



1) Lower Gear
2) Lower Bushing
3) Upper Gear
4) Upper Bushing
5) Cam. Follower
6) Cam Gear

1) TAT24252 (1)
2) TT26321
3) TAT18009 (1)
4) TT20034
5) TT20073 ***x6***
6) TT20070 (1)



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR106831 **Std.**
2) TR106829 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

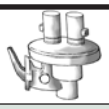
1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TRE64354 180° F



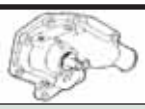
Fuel Transfer Pump

TRE38009



Water Pump Rep Kit
a) Without Impeller
b) With Impeller

See Chart on Page IT18



Water Pump

TAR97708 (m) R73604
TRE60489 (m) R100812, (m) R127337, (m) R127918, (m) R55164
TRE67185



Injector, Pencil

TRE38087



Seal, Injector Kit

TRE64292

(1) Helicoidal Gears.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw **TR85363**.
(3) After bushing installation, machine bushing to fit the shape of connecting rod before fitting piston pin.
(4) Kit contains **TT20094** helical gear to convert to a TRE50979 Crankshaft.
(5) With Machine Split Con Rod use **TR80033** and With Fractured Con Rod use **TR501124**.
(6) For used with Fractured split connecting rod.

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

4045D

4.5D

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Piston (m):
RE59279, RE505101

Con Rod (m):
R123959, R500000

APPLICATIONS:

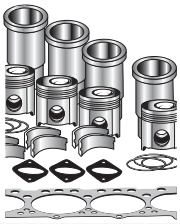
AGRICULTURAL

270	5615
270 Series II	5715
5410	6010
5415	6110
5420/N	6610
5510	

OEM
4.5L

CONSTRUCTION

210LE	486E
310E	488E
450H	550H
485E	650H

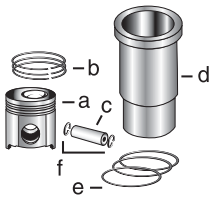


1) Engine O/H Kit

2) Engine I/F Kit

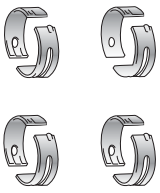
1) TRE66092
TRE66092A (*)
(*) w/C. Rod R500000

2) TIK66092
TIK66092A (*)
(*) w/C. Rod R500000



Piston-Liner Kit

TRE65966
(RE505110)
Consists of:
a) TRE59279
b) TRE66271
c) TR123178
d) TR116383
e) TAR65507
f) TM41029



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(8)**

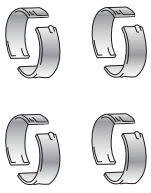
Use 4



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(8)**

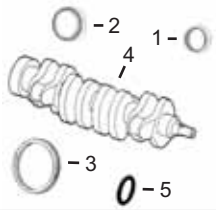
Use 1



Con Rod Bearing

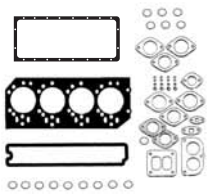
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(8)**

Use 4



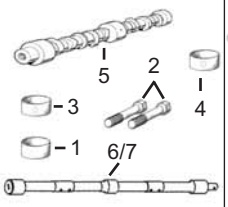
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 **(7)**
2) TRE44574
3) TR28811 (129T)
TR114282 (142T)
4) TRE504638 **(12)**
TRE506195 **(11)**
5) TH35244



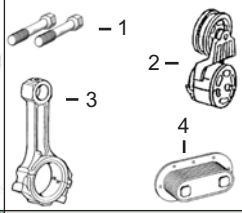
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501455
2) TRE66082
3) TR116515
4) TR123352 **(2)**
TR97342 **(3)**
(R123353)
5) TR123542



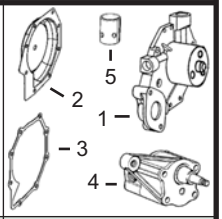
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal.Shaft
4) Bush, Camshaft
5) Camshaft
6) Bal. Shaft R/H
7) Bal. Shaft L/H

1) TR123960 ***x4***
2) TR114083 ***x8*** **(1)**
TR501124 ***x8*** **(1)**
3) TR115299 ***x6***
4) TR119874 ***x1***
5) TRE56375 **(5)**
6) TRE500448
7) TRE500449



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 ***x18*** **(4)**
2) TRE518097 **(9)**
TRE68715 **(9)**
3) TRE500002
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x8***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TRE522076 180° F **(9)**
TRE528652 180° F **(9)**
TRE540550 180° F **(9)**
TRE64354 180° F **(9)**



Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 **(10)**



Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE66153 **(6)**
TRE68345
TRE502513

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
(3) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) (m) R135439, R132324, R134213.
(6) Line Connections are both threaded.
(7) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) Check application for proper usage.
(10) Use with Stanadyne DE10 Injection Pump.
(11) Tapered Nose.
(12) Straight Nose.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

4045T

4.5T

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Piston (m):
RE59277, RE505100 (1)

Con Rod (m):
R123959, R500000

APPLICATIONS:

AGRICULTURAL

3410/X	5510/N	5715
4890	5520/N	5725
4895	5525/N	6700
5415	5615	
5425/N	5625/N	

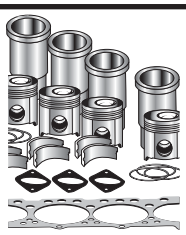
OEM
4.5L

CONSTRUCTION

230 LCR	344H
310E (TURBO)	410E
310G (TURBO)	410G
310SE (TURBO)	410J
310SG (TURBO)	450H
315SE	550H
315SG	650H

SDMO GENERATOR

J60U	J70U
J66K	J77K

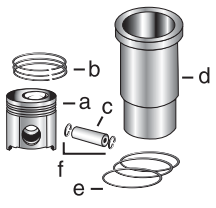


1) Engine O/H Kit

2) Engine I/F Kit

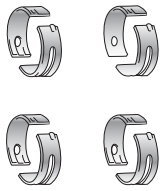
1) TRE66093
TRE66093A (*)
(*) w/C. Rod R500000

2) TIK66093
TIK66093A (*)
(*) w/C. Rod R500000



Piston-Liner Kit

TRE507920
(RE515372)
Consists of:
a) TRE515372
b) TRE66820
c) TR123178
d) TR116383
e) TAR65507
f) TM41029



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(8)**

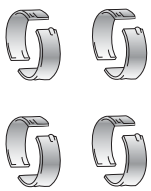
Use 4



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(8)**

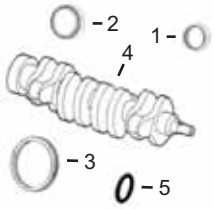
Use 1



Con Rod Bearing

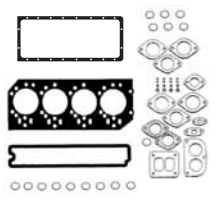
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(8)**

Use 4



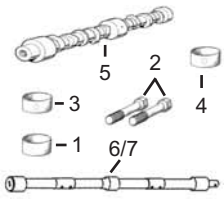
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 **(9)**
2) TRE44574
3) TR28811 (129T)
TR114282 (142T)
4) TRE504638 **(13)**
TRE506195 **(12)**
5) TH35244



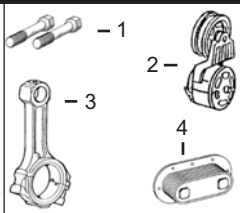
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501455
2) TRE66082
3) TR116515
4) TR123352 **(3)**
TR97342 **(4)**
(R123353)
5) TR123542



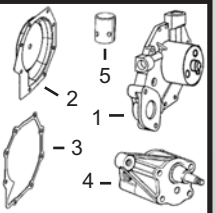
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal.Shaft
4) Bush, Camshaft
5) Camshaft
6) Bal. Shaft R/H
7) Bal. Shaft L/H

1) TR123960 ***x4***
2) TR114083 ***x8*** **(2)**
TR501124 ***x8*** **(2)**
3) TR115299 ***x6***
4) TR119874 ***x1***
5) TRE56375 **(6)**
6) TRE500448
7) TRE500449



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 ***x18*** **(5)**
2) TRE518097 **(10)**
TRE68715 **(10)**
3) TRE500002
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x8***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TRE522076 180° F **(10)**
TRE528652 180° F **(10)**
TRE540550 180° F **(10)**
TRE64354 180° F **(10)**



Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 **(11)**



Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE66153 **(7)**
TRE68345
TRE502513

(1) These marking numbers RE592727, RE505100 require to use Ring Set **TRE66271**.
(2) Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.
(3) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
(4) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(5) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(6) (m) R135439, R132324, R134213.
(7) Line Connections are both threaded.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(10) Check application for proper usage.
(11) Use with Stanadyne DE10 Injection Pump.
(12) Tapered Nose.
(13) Straight Nose.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech

Engine & Equipment Model

4045T/H

4.5T/H

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

Piston (m):
RE55512, RE505102

Con Rod (m):
R114081, R500335

APPLICATIONS:

AGRICULTURAL

6010	6410/L/S
6110/L	6510L
6210/L	6610S
6310/L/S	6605
6405	6610

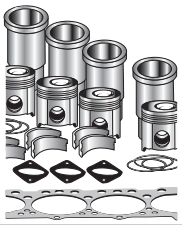
OEM
4.5L

CONSTRUCTION

120	455G
444H/HCL	550H/G
TC444H	555G
450G	650G

SDMO GENERATOR

J80U	J110K	R90U
J88K	R66RC	R90RC
J100U	R70U	R110U

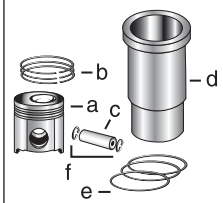


1) Engine O/H Kit

2) Engine I/F Kit

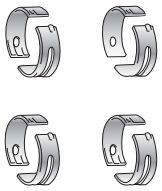
1) TRE66094
TRE66094A (*)
(*) w/C. Rod R500335

2) TIK66094
TIK66094A (*)
(*) w/C. Rod R500335



Piston-Liner Kit

TRE507850
(RE505112)
Consists of:
a) TRE55512
b) TRE66820
c) TR123177
d) TR116383
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(8)**

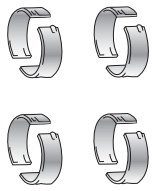
Use 4



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(8)**

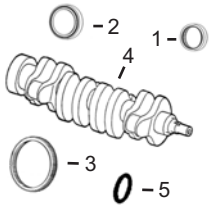
Use 1



Con Rod Bearing

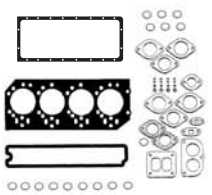
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(8)**

Use 4



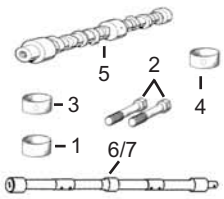
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 **(7)**
2) TRE44574
3) TR28811 (129T)
TR114282 (142T)
4) TRE504638 **(12)**
TRE506195 **(11)**
5) TH35244



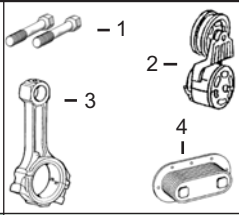
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501455
2) TRE66082
3) TR116515
4) TR123352 **(2)**
TR97342 **(3)**
(R123353)
5) TR123542



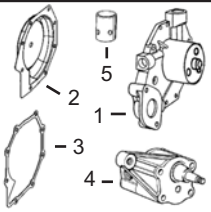
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal.Shaft
4) Bush, Camshaft
5) Camshaft
6) Bal. Shaft R/H
7) Bal. Shaft L/H

1) TR114082 ***x4***
2) TR114083 ***x8*** **(1)**
TR501124 ***x8*** **(1)**
3) TR115299 ***x6***
4) TR119874 ***x1***
5) TRE56375 **(5)**
6) TRE500448
7) TRE500449



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 ***x18*** **(4)**
2) TRE518097 **(9)**
TRE68715 **(9)**
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x8***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005



Thermostat

TRE522076 180° F **(9)**
TRE528652 180° F **(9)**
TRE540550 180° F **(9)**
TRE64354 180° F **(9)**



Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 **(10)**



Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE66153 **(6)**
TRE68345
TRE502513

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
(3) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) (m) R135439, R132324, R134213.
(6) Line Connections are both threaded.
(7) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) Check application for proper usage.
(10) Use with Stanadyne DE10 Injection Pump.
(11) Tapered Nose.
(12) Straight Nose.

PowerTech
Engine & Equipment Model

4045T/H

For Tier 2 & Tier 3 Applications

2 Valve per Cylinder

4 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

Piston (m):
RE527039

Con Rod (m):
R500335

APPLICATIONS:

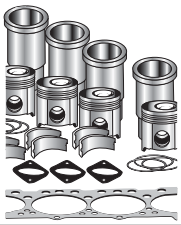
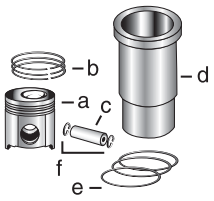
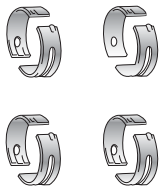
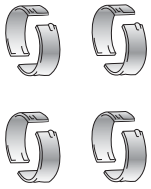
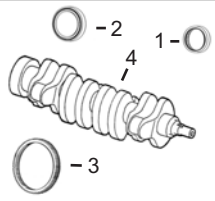
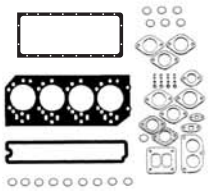
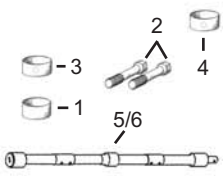
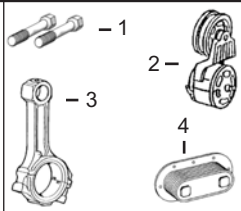
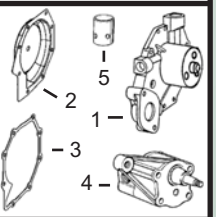
AGRICULTURAL *

5080R/RN	6130D
5090R/RN	6140D
5100R/RN	6230
5105M/ML	6325
6100D	6330
6110D	6425
6115D	6430
6125D	6534
6130	

CONSTRUCTION *

335D 344J 437D
650J 710J ML1335

*** See Index for more Applications**

	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
1) Engine O/H Kit				
2) Engine I/F Kit	**TRE536083**	TRE65165 **Std.**	TRE65168 **Std.**	TRE65908 **Std.**
1) TRE532715	Consists of:	TRE65911 **.010**	TRE65912 **.010**	TRE65909 **.010**
2) TIK532715	a) TRE527039 b) TRE527844 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165B **.020** (2)	TRE65168B **.020** (2)	TRE65908B **.020** (2)
		Use 4	**Use 1**	**Use 4**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal.Shaft** **4) Bush, Camshaft**	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Cam. Follower
3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Bal. Shaft R/H 6) Bal. Shaft L/H		
1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE504638 (4) TRE506195 (3)	1) TRE532713 2) TRE532842 3) TR116515 4) TR521493 (5) TR97342 (5) (R123353) 5) TR123542 (5) TR524468 (5)	1) TR114082 ***x4*** 2) TR501124 ***x8*** 3) TR115299 ***x6*** 4) TR119874 ***x1*** 5) TRE500448 6) TRE500449	1) TR502511 ***x18*** (5) TR85363 ***x18*** (5) 2) TRE518097 (5) TRE68715 (5) 3) TRE500608 4) TRE59296 **(5 Plates)** TRE56690 **(7 Plates)** TRE59298 **(9 Plates)**	1) TRE500734 2) TRE508566 3) TR123417 4) TRE504914 (5) 5) TR123565 ***x8***
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR106831 **Std.** 2) TR106829 **Std.**	1) TRE31617 2) TR91889	1) TR26125 (5) 2) TRE60005 (5)

	
Thermostat	Fuel Transfer Pump
TRE522076 180° F (5) TRE528652 180° F (5) TRE540550 180° F (5) TRE64354 180° F (5)	TRE66153 (5) (6) TRE68345 (5) (7) TRE502513 (5) (8)

(4) Straight Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Tapered Nose.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

4045T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

4 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE521616

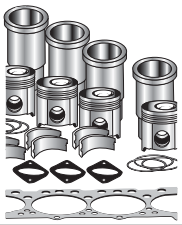
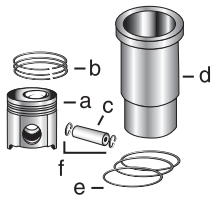
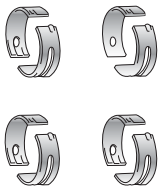
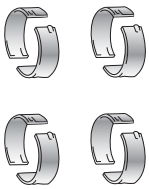
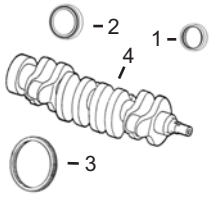
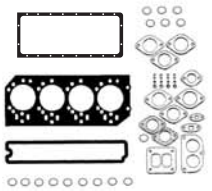
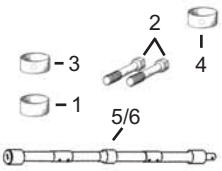
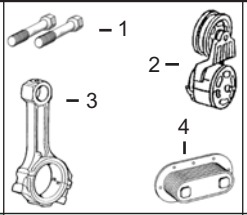
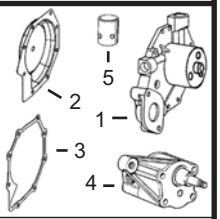
Con Rod (m):
R500335

APPLICATIONS:

AGRICULTURAL *
6430
6534
7130

CONSTRUCTION *
810D
810E
850J
1010D
1010E

*** See Index for more Applications**

	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
1) Engine O/H Kit				
2) Engine I/F Kit	**TRE524450**	TRE65165 **Std.**	TRE65168 **Std.**	TRE65908 **Std.**
1) TRE536969	Consists of:	TRE65911 **.010**	TRE65912 **.010**	TRE65909 **.010**
2) TIK536969	a) TRE521616 b) TRE524453 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165B **.020** (2)	TRE65168B **.020** (2)	TRE65908B **.020** (2)
		Use 4	**Use 1**	**Use 4**
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal.Shaft** **4) Bush, Camshaft**	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Cam. Follower
3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Bal. Shaft R/H 6) Bal. Shaft L/H		
1) TRE505515 (1) 2) TRE44574 3) TR28811 (5) TR114282 (5) 4) TRE504638 (4) TRE506195 (3)	1) TRE536962 2) TRE536967 3) TR116515 4) TR521493 (5) TR97342 (5) 5) TR524498 TR524499	1) TR114082 ***x4*** 2) TR501124 ***x8*** 3) TR115299 ***x6*** 4) TR119874 ***x1*** 5) TRE500448 6) TRE500449	1) TR502511 ***x18*** 2) TRE518097 3) TRE500608 4) TRE59296 **(5 Plates)** TRE56690 **(7 Plates)** TRE59298 **(9 Plates)**	1) TRE546918 (5) TRE500734 2) TRE508566 3) TR123417 4) TRE504914 (5) TRE521756 (5) 5) TR123565 ***x8***
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve (5)
	TRE531221 **Std.** (5) TRE518080 **Std.** (5)	TRE518081 **Std.**	1) TRE518082 **Std.** 2) TRE518083 **Std.**	1) TRE526519 ***x16*** (5) TRE519115 ***x16*** (5) 2) TR502371 ***x32*** (5)	1) TR518872 ***x16*** TRE516486 ***x16***

	
Thermostat	Fuel Transfer Pump
TRE522076 180° F (5)	TRE66153 (5) (6)
TRE538289 180° F (5)	TRE68345 (5) (7)
TRE64354 180° F (5)	TRE502513 (5) (8)
	TRE517230 (5)

(4) Straight Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Tapered Nose.

PowerTech
Engine & Equipment Model

4045T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

4 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE515037

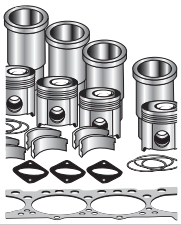
Con Rod (m):
R500335

APPLICATIONS:

AGRICULTURAL *
6430
6534
7130

CONSTRUCTION *
810D
810E
850J
1010D
1010E

*** See Index for more Applications**

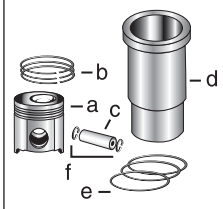


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE526972

2) TIK526972

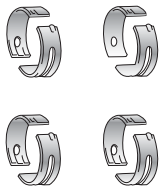


Piston-Liner Kit

TRE516227

Consists of:

a) TRE515037
b) TRE66820
c) TR502755
d) TR116383
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(2)**

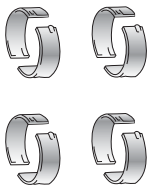
Use 4



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(2)**

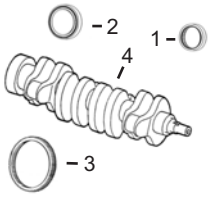
Use 1



Con Rod Bearing

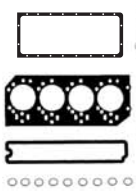
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(2)**

Use 4



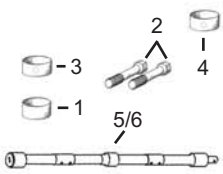
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 **(1)**
2) TRE44574
3) TR28811 **(5)**
TR114282 **(5)**
4) TRE504638 **(4)**
TRE506195 **(3)**



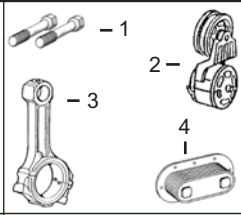
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE536962
2) TRE536967
3) TR116515
4) TR521493 **(5)**
TR97342 **(5)**
5) TR524498
TR524499



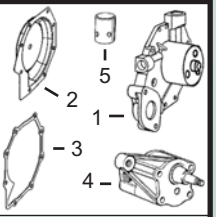
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bush, Bal.Shaft
4) Bush, Camshaft
5) Bal. Shaft R/H
6) Bal. Shaft L/H

1) TR114082 ***x4***
2) TR501124 ***x8***
3) TR115299 ***x6***
4) TR119874 ***x1***
5) TRE500448
6) TRE500449



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x18***
2) TRE518097
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE546918 **(5)**
TRE500734
2) TRE508566
3) TR123417
4) TRE504914 **(5)**
TRE521756 **(5)**
5) TR123565 ***x8***



Valve, Intake

TRE531221 **Std.** **(5)**
TRE518080 **Std.** **(5)**

Valve, Exhaust

TRE518081 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TRE518082 **Std.**
2) TRE518083 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE526519 ***x16*** **(5)**
TRE519115 ***x16*** **(5)**
2) TR502371 ***x32*** **(5)**

1) Spring, Valve **(5)**

1) TR518872 ***x16***
TRE516486 ***x16***



Thermostat

TRE522076	180° F	**(5)**
TRE538289	180° F	**(5)**
TRE64354	180° F	**(5)**



Fuel Transfer Pump

TRE66153	**(5)** **(6)**
TRE68345	**(5)** **(7)**
TRE502513	**(5)** **(8)**
TRE517230	**(5)**

(4) Straight Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Tapered Nose.

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

4045T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

4 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE507758

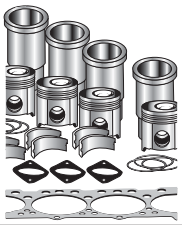
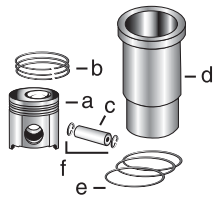
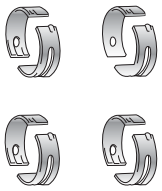
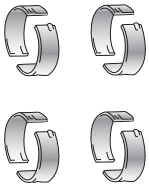
Con Rod (m):
R500335

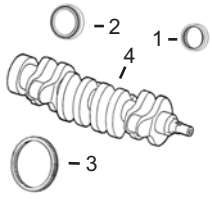
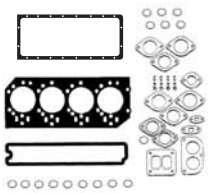
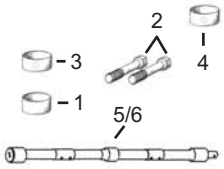
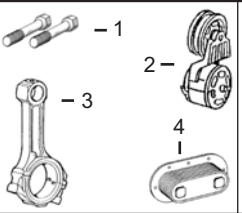
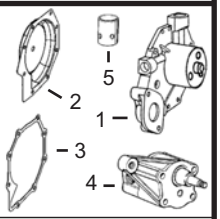
APPLICATIONS:

AGRICULTURAL *
6430
6534
7130

CONSTRUCTION *
810D
810E
850J
1010D
1010E

*** See Index for more Applications**

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE516228**	TRE65165 **Std.**	TRE65168 **Std.**	TRE65908 **Std.**
1) TRE526973	Consists of:	TRE65911 **.010**	TRE65912 **.010**	TRE65909 **.010**
2) TIK526973	a) TRE507758 b) TRE516268 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165B **.020** **(2)**	TRE65168B **.020** **(2)**	TRE65908B **.020** **(2)**
		Use 4	**Use 1**	**Use 4**

				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal.Shaft** **4) Bush, Camshaft**	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Cam. Follower
3) Ring Gear 4) Crankshaft	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	5) Bal. Shaft R/H 6) Bal. Shaft L/H		
1) TRE505515 **(1)** 2) TRE44574 3) TR28811 **(5)** TR114282 **(5)** 4) TRE504638 **(4)** TRE506195 **(3)**	1) TRE536962 2) TRE536967 3) TR116515 4) TR521493 **(5)** TR97342 **(5)** 5) TR524498 TR524499	1) TR114082 ***x4*** 2) TR501124 ***x8*** 3) TR115299 ***x6*** 4) TR119874 ***x1*** 5) TRE500448 6) TRE500449	1) TR502511 ***x18*** 2) TRE518097 3) TRE500608 4) TRE59296 **(5 Plates)** TRE56690 **(7 Plates)** TRE59298 **(9 Plates)**	1) TRE546918 **(5)** TRE500734 2) TRE508566 3) TR123417 4) TRE504914 **(5)** TRE521756 **(5)** 5) TR123565 ***x8***

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve **(5)**
	TRE531221 **Std.** **(5)** TRE518080 **Std.** **(5)**	TRE518081 **Std.**	1) TRE518082 **Std.** 2) TRE518083 **Std.**	1) TRE526519 ***x16*** **(5)** TRE519115 ***x16*** **(5)** 2) TR502371 ***x32*** **(5)**	1) TR518872 ***x16*** TRE516486 ***x16***

	Thermostat			Fuel Transfer Pump	
TRE522076	180° F	**(5)**	TRE66153		**(5)** **(6)**
TRE538289	180° F	**(5)**	TRE68345		**(5)** **(7)**
TRE64354	180° F	**(5)**	TRE502513		**(5)** **(8)**
			TRE517230		**(5)**

(4) Straight Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Tapered Nose.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

4045T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

4 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE515037

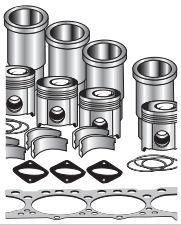
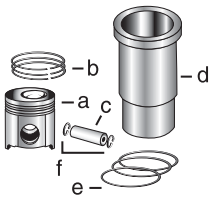
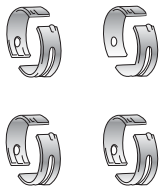
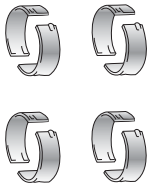
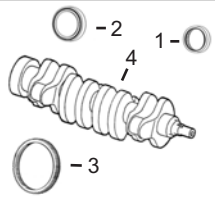
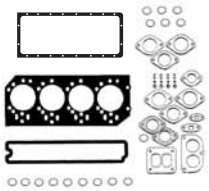
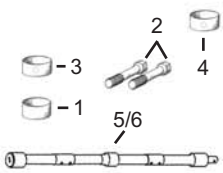
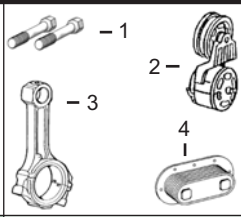
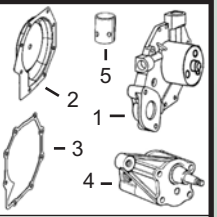
Con Rod (m):
R500335

APPLICATIONS:

AGRICULTURAL *
6430
6534
7130

CONSTRUCTION *
810D
810E
850J
1010D
1010E

*** See Index for more Applications**

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
				
2) Engine I/F Kit **1) TRE546978** **2) TIK546978**	**TRE530616** Consists of: a) TRE515037 b) TRE530613 c) TR502755 d) TR116397 e) TAR65507 f) TR54114	TRE65165 **Std.** TRE65911 **.010** TRE65165B **.020** **(2)** **Use 4**	TRE65168 **Std.** TRE65912 **.010** TRE65168B **.020** **(2)** **Use 1**	TRE65908 **Std.** TRE65909 **.010** TRE65908B **.020** **(2)** **Use 4**
				
1) Front Seal **2) Rear Seal** 3) Ring Gear 4) Crankshaft	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal.Shaft** **4) Bush, Camshaft** 5) Bal. Shaft R/H 6) Bal. Shaft L/H	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Cam. Follower
1) TRE505515 **(1)** 2) TRE44574 3) TR28811 **(5)** TR114282 **(5)** 4) TRE504638 **(4)** TRE506195 **(3)**	1) TRE536962 2) TRE536967 3) TR116515 4) TR521493 **(5)** TR97342 **(5)** 5) TR524498 TR524499	1) TR114082 ***x4*** 2) TR501124 ***x8*** 3) TR115299 ***x6*** 4) TR119874 ***x1*** 5) TRE500448 6) TRE500449	1) TR502511 ***x18*** 2) TRE518097 3) TRE500608 4) TRE59296 **(5 Plates)** TRE56690 **(7 Plates)** TRE59298 **(9 Plates)**	1) TRE546918 **(5)** TRE500734 2) TRE508566 3) TR123417 4) TRE504914 **(5)** TRE521756 **(5)** 5) TR123565 ***x8***
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve **(5)**
	TRE531221 **Std.** **(5)** TRE518080 **Std.** **(5)**	TRE518081 **Std.**	1) TRE518082 **Std.** 2) TRE518083 **Std.**	1) TRE526519 ***x16*** **(5)** TRE519115 ***x16*** **(5)** 2) TR502371 ***x32*** **(5)**	1) TR518872 ***x16*** TRE516486 ***x16***

Thermostat		
TRE522076	180° F	**(5)**
TRE538289	180° F	**(5)**
TRE64354	180° F	**(5)**

Fuel Transfer Pump	
TRE66153	**(5)** **(6)**
TRE68345	**(5)** **(7)**
TRE502513	**(5)** **(8)**
TRE517230	**(5)**

(4) Straight Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Tapered Nose.

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

6068D

6.8D

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Piston (m):
RE59279, RE505101

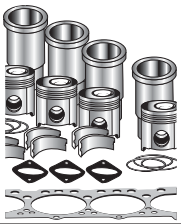
Con Rod (m):
RE123959, R500000

APPLICATIONS:

AGRICULTURAL

6205 6515
6505 6520
6510 SE6520
SE6510

OEM
6.8L

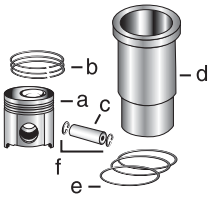


1) Engine O/H Kit

2) Engine I/F Kit

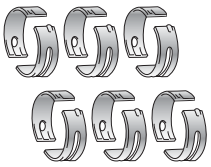
1) TRE66095
TRE66095A (*)
(*) w/C. Rod R500000

2) TIK66095
TIK66095A (*)
(*) w/C. Rod R500000



Piston-Liner Kit

TRE65966
(RE505110)
Consists of:
a) TRE59279
b) TRE66271
c) TR123178
d) TR116383
e) TAR65507
f) TM41029



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(8)**

Use 6



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(8)**

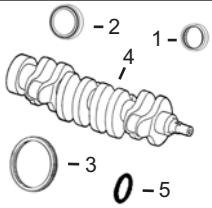
Use 1



Con Rod Bearing

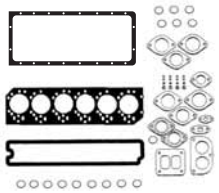
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(8)**

Use 6



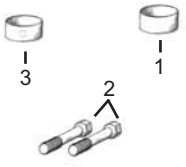
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 **(5)**
2) TRE44574
3) TR28811 (129T)
TR114282 (142T)
4) TRE515785 **(3)**
TRE505921 **(4)**
5) TH35244



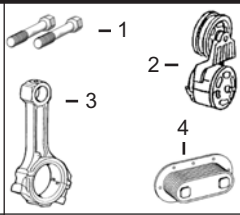
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501456
2) TRE66085
3) TR116516
4) TR123354
5) TR123543



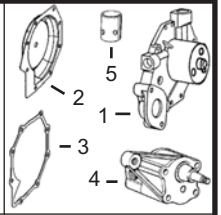
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR123960 ***x6***
2) TR114083 ***x12*** **(1)**
TR501124 ***x12*** **(1)**
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 ***x26*** **(2)**
2) TRE518097 **(7)**
TRE68715 **(7)**
3) TRE500002
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x12***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60062



Thermostat

TRE522076 180° F **(7)**
TRE528652 180° F **(7)**
TRE540550 180° F **(7)**
TRE64354 180° F **(7)**



Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 **(6)**



Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE66153 **(9)**
TRE68345 **(10)**
TRE502513 **(11)**

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) R116076, Straight Nose.
(4) Crankshaft (m) R503470, Tapered Nose.
(5) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(6) Use with Stanadyne DE10 Injection Pump.
(7) Check application for proper usage.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) Line Connections are both threaded.
(10) Line Connections are one hose barb & one threaded.
(11) Line Connections are two hose barbs.

PowerTech
Engine & Equipment
Model

6068T

6.8T

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Piston (m):
RE59277, RE505100 (9)

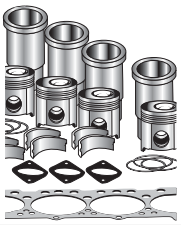
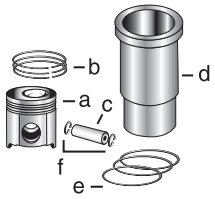
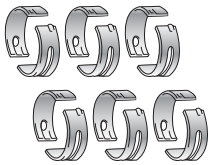
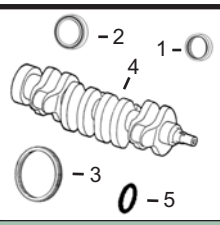
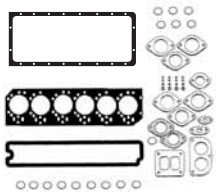
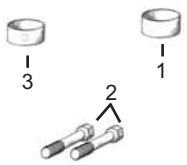
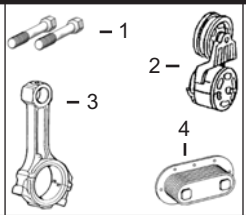
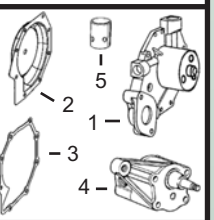
Con Rod (m):
RE123959, R500000

APPLICATIONS:

AGRICULTURAL
6603
7455
7460
9935

OEM
6.8L

CONSTRUCTION
670C/CH
672CH
700H/J

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE507920 (RE515372)**	TRE65165 **Std.**	TRE65168 **Std.**	TRE65908 **Std.**
1) TRE66096	Consists of:	TRE65911 **.010**	TRE65912 **.010**	TRE65909 **.010**
TRE66096A (*)	a) TRE515372	TRE65165B **.020** (8)	TRE65168B **.020** (8)	TRE65908B **.020** (8)
(*) w/C. Rod R500000	b) TRE66820			
2) TIK66096	c) TR123178			
TIK66096A (*)	d) TR116383			
(*) w/C. Rod R500000	e) TAR65507			
	f) TM41029	**Use 6**	**Use 1**	**Use 6**
				
1) Front Seal	**1) O/H Gasket Set**	**1) Bush, Con Rod**	1) Cyl Hd Cap Screw	1) Water Pump
2) Rear Seal		**2) Bolt, Con Rod**	2) Tensioner, Belt	2) Water Pump Cov
		3) Bushing, Cam	3) Con Rod	3) Water Pump Gsk
3) Ring Gear	2) Head Gasket Set		4) Oil Cooler	4) Pump, Oil
4) Crankshaft	3) Head Gasket			5) Cam. Follower
5) Seal	4) Oil Pan Gasket			
	5) Rocker Cover Gsk			
1) TRE505515 (5)	1) TRE501456	1) TR123960 ***x6***	1) TR85363 ***x26*** (2)	1) TRE500734
2) TRE44574	2) TRE66085	2) TR114083 ***x12*** (1)	2) TRE518097 (7)	2) TRE508566
3) TR28811 (129T)	3) TR116516	TR501124 ***x12*** (1)	TRE68715 (7)	3) TR123417
TR114282 (142T)	4) TR123354	3) TR119874 ***x1***	3) TRE500002	4) TRE504914
4) TRE515785 (3)	5) TR123543		4) TRE59296 **(5 Plates)**	5) TR123565 ***x12***
TRE505921 (4)			TRE56690 **(7 Plates)**	
5) TH35244			TRE59298 **(9 Plates)**	
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.**	TR90692 **Std.**	1) TR98063 **Std.**	1) TRE31617	1) TR26125
	TR97490 **.015**	TR97492 **.015**	TR98335 **O/S**	2) TR91889	2) TRE60005
			2) TR85687 **Std.**		
			TR93910 **O/S**		
				
Thermostat	Injector, Pencil	Seal, Injector	Fuel Transfer Pump	
TRE522076 180° F (7)	TRE60062 (Non Turbo)	TR92352	TRE66153 (10)	
TRE528652 180° F (7)	TRE48786 (Turbo)	TR48000	TRE68345 (11)	
TRE540550 180° F (7)	TRE531436 (6)		TRE502513 (12)	
TRE64354 180° F (7)				

(1) Use TR114083 with Machine Split Con Rods, and use TR501124 with Fractured Split Con Rods.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) R116076, Straight Nose.
(4) Crankshaft (m) R503470, Tapered Nose.

(5) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(6) Use with Stanadyne DE10 Injection Pump.
(7) Check application for proper usage.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) These marking numbers RE592727, RE505100 require to use Ring Set **TRE66271**.
(10) Line Connections are both threaded.
(11) Line Connections are one hose barb & one threaded.
(12) Line Connections are two hose barbs.

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

6068T/H

6.8T/H

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.62 in
41 mm

Piston (m):
RE55512, RE505102

Con Rod (m):
R114081, R500335

APPLICATIONS:

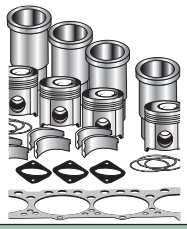
AGRICULTURAL

4700	7210	7610
6605	7405	9410
6615	7410	
6715	7510	

OEM
6.8L

CONSTRUCTION

200LL/LC	640G/II/III
230LC	643G
270LC	648G/II/III
540G/GLL	670C/CH
544H/HLL	672CH
TC544H	698G
548G/II/III	710D
624H/HLL	843G
TC624H	850G

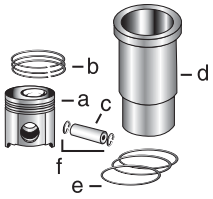


1) Engine O/H Kit

2) Engine I/F Kit

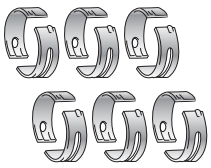
1) TRE66097
TRE66097A (*)
(*) w/C. Rod R500335

2) TIK66097
TIK66097A (*)
(*) w/C. Rod R500335



Piston-Liner Kit

TRE507850
(RE505112)
Consists of:
a) TRE55512
b) TRE66820
c) TR123177
d) TR116383
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(8)**

Use 6



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(8)**

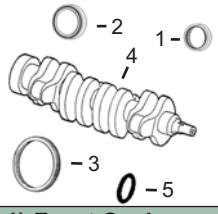
Use 1



Con Rod Bearing

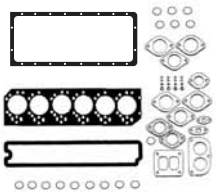
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(8)**

Use 6



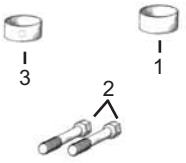
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 **(5)**
2) TRE44574
3) TR28811 (129T)
TR114282 (142T)
4) TRE515785 **(3)**
TRE505921 **(4)**
5) TH35244



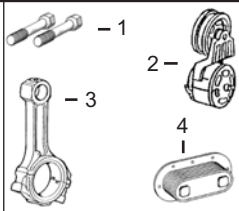
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501456
2) TRE66085
3) TR116516
4) TR123354
5) TR123543



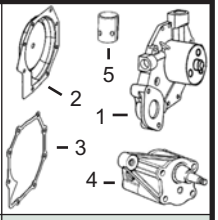
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR114083 ***x12*** **(1)**
TR501124 ***x12*** **(1)**
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 ***x26*** **(2)**
2) TRE518097 **(7)**
TRE68715 **(7)**
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x12***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 **Std.**
TR98335 **O/S**
2) TR85687 **Std.**
TR93910 **O/S**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60062



Thermostat

TRE522076 180° F **(7)**
TRE528652 180° F **(7)**
TRE540550 180° F **(7)**
TRE64354 180° F **(7)**



Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 **(6)**



Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE66153 **(9)**
TRE68345 **(10)**
TRE502513 **(11)**

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) R116076, Straight Nose.
(4) Crankshaft (m) R503470, Tapered Nose.
(5) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(6) Use with Stanadyne DE10 Injection Pump.
(7) Check application for proper usage.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(9) Line Connections are both threaded.
(10) Line Connections are one hose barb & one threaded.
(11) Line Connections are two hose barbs.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

6068T/H

For Tier 2 & Tier 3
2 Valve per Cylinder
6 Cyl

Bore: 4.19 in / 106.5 mm
Pin Ø: 1.62 in / 41 mm

Piston (m):
RE527039

Con Rod (m):
R500335

APPLICATIONS:

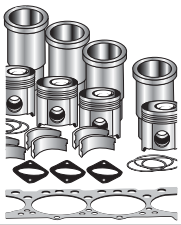
AGRICULTURAL *

1450CWS	6530
1450WTS	6630
1470	6830
1550CWS	6930
1550WTS	7130
1654	7230
1854	7330
2054	7430
6225	W330
6525	

CONSTRUCTION *
710K

SDMO GENERATOR
R165C3

*** See Index for more Applications**

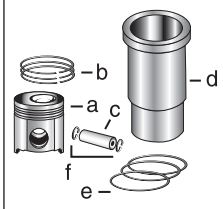


1) Engine O/H Kit

2) Engine I/F Kit

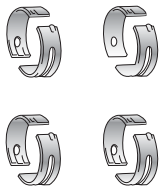
1) TRE532634

2) TIK532634



Piston-Liner Kit

TRE536083
Consists of:
a) TRE527039
b) TRE527844
c) TR502755
d) TR116397
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(2)**

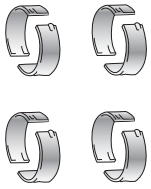
Use 6



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(2)**

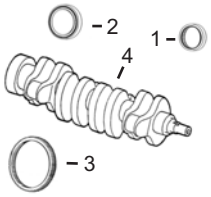
Use 1



Con Rod Bearing

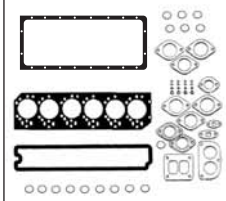
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(2)**

Use 6



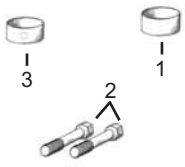
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 **(1)**
2) TRE44574
3) TR28811 **(5)**
TR114282 **(5)**
4) TRE515785 **(3)**
TRE505921 **(4)**



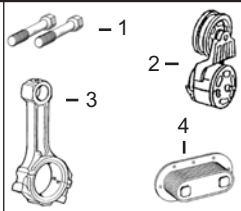
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE532631
2) TRE532841
3) TR116516
4) TR521498 **(5)**
TR123354 **(5)**
5) TR524469



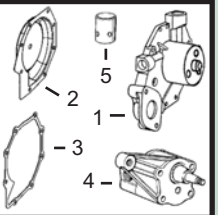
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR501124 ***x12***
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x26*** **(5)**
TR85363 ***x26*** **(5)**
2) TRE518097 **(5)**
TRE68715 **(5)**
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE500734
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 ***x12***



Valve, Intake

TR98062 **Std.**
TR97490 **.015**

Valve, Exhaust

TR90692 **Std.**
TR97492 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR106831 **Std.**
2) TR106829 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125 **(5)**
2) TRE60005 **(5)**



Thermostat

TRE522076	180° F	**(5)**
TRE528652	180° F	**(5)**
TRE540550	180° F	**(5)**
TRE64354	180° F	**(5)**



Fuel Transfer Pump

TRE66153 **(5)** **(6)**
TRE68345 **(5)** **(7)**
TRE502513 **(5)** **(8)**

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Crankshaft (m) R116076, Straight Nose.
(4) Crankshaft (m) R503470, Tapered Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.
(9) Standard Flow. Check application for proper usage.
(10) High Flow. Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech

Engine & Equipment Model

6068T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

6 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE521616

Con Rod (m):
R500335

APPLICATIONS:

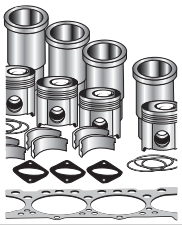
AGRICULTURAL *

640GIII	2954D	7730
640H	4730	7830
648GIII	4830	7930
6830	5430I	9540i WTS
648H	7195J	9560 STS
648HTJ	7210J	9570 STS
748H	7225J	9580i WTS
748HTJ	7430E	S550 STS
848H	7530	T550
848HTJ	7630	W540

CONSTRUCTION *

240DLC	624K/KR	672G
250GLC	644J/K	672GP
270DLC	670G	764
290GLC	670GP	755D

*** See Index for more App**

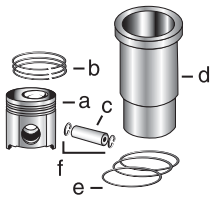


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE527834

2) TIK527834

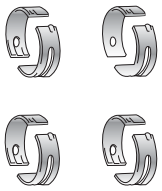


Piston-Liner Kit

TRE524450

Consists of:

a) TRE521616
b) TRE524453
c) TR502755
d) TR116397
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**

TRE65911 **.010**

TRE65165B **.020** **(2)**

Use 6



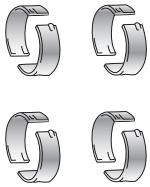
Thrust Bearing

TRE65168 **Std.**

TRE65912 **.010**

TRE65168B **.020** **(2)**

Use 1



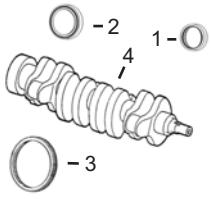
Con Rod Bearing

TRE65908 **Std.**

TRE65909 **.010**

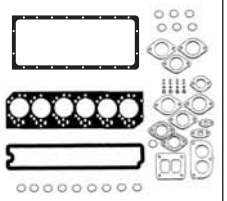
TRE65908B **.020** **(2)**

Use 6



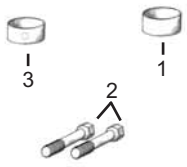
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 **(1)**
2) TRE44574
3) TR28811 **(5)**
TR114282 **(5)**
4) TRE515785 **(3)**
TRE505921 **(4)**



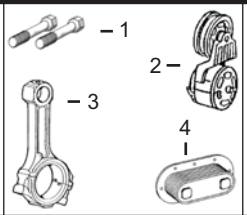
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE527833
2) TRE527832
3) TR116516
4) TRE521498 **(5)**
TR123354 **(5)**
5) TR524496
TR524497



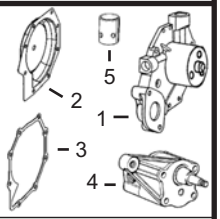
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR501124 ***x12***
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x26***
2) TR518097
3) TR500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE546918 **(5)**
TRE500734
2) TRE508566
3) TR123417
4) TRE504914 **(5)**
TRE521756 **(5)**
5) TR123565 ***x12***



Valve, Intake

TRE531221 **Std.** **(5)**
TRE518080 **Std.** **(5)**

Valve, Exhaust

TRE518081 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TRE518082 **Std.**
2) TRE518083 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE526519 ***x24*** **(5)**
TRE519115 ***x24*** **(5)**
2) TR502371 ***x48*** **(5)**

1) Spring, Valve **(5)**

1) TR518872 ***x24***
TRE516486 ***x24***



Thermostat

TRE522076	180° F	**(5)**
TRE538289	180° F	**(5)**
TRE64354	180° F	**(5)**



Fuel Transfer Pump

TRE66153	**(5)** **(6)**
TRE68345	**(5)** **(7)**
TRE502513	**(5)** **(8)**
TRE517230	**(5)**

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Crankshaft (m) R116076, Straight Nose.
(4) Crankshaft (m) R503470, Tapered Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

6068T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

6 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE515037

Con Rod (m):
R500335

APPLICATIONS:

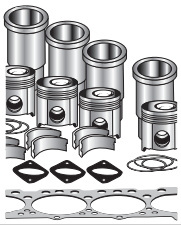
AGRICULTURAL *

640GIII	2954D	7730
640H	4730	7830
648GIII	4830	7930
6830	5430I	9540i WTS
648H	7195J	9560 STS
648HTJ	7210J	9570 STS
748H	7225J	9580i WTS
748HTJ	7430E	S550 STS
848H	7530	T550
848HTJ	7630	W540

CONSTRUCTION *

240DLC	624K/KR	672G
250GLC	644J/K	672GP
270DLC	670G	764
290GLC	670GP	755D

*** See Index for more App**

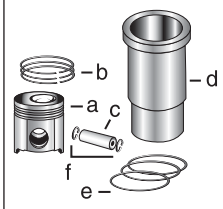


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE526974

2) TIK526974

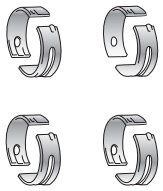


Piston-Liner Kit

TRE516227

Consists of:

a) TRE515037
b) TRE66820
c) TR502755
d) TR116383
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**

TRE65911 **.010**

TRE65165B **.020** (2)

Use 6



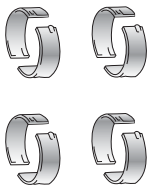
Thrust Bearing

TRE65168 **Std.**

TRE65912 **.010**

TRE65168B **.020** (2)

Use 1



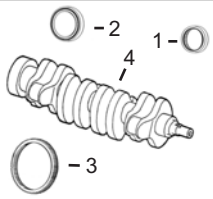
Con Rod Bearing

TRE65908 **Std.**

TRE65909 **.010**

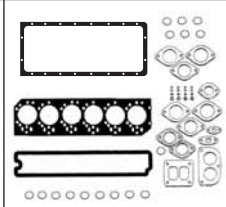
TRE65908B **.020** (2)

Use 6



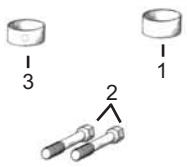
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 (1)
2) TRE44574
3) TR28811 (5)
TR114282 (5)
4) TRE515785 (3)
TRE505921 (4)



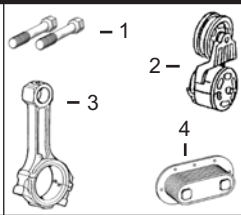
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE527833
2) TRE527832
3) TR116516
4) TR521498 (5)
TR123354 (5)
5) TR524496
TR524497



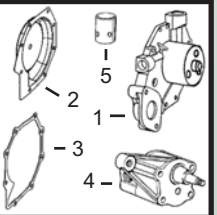
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR501124 ***x12***
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x26***
2) TRE518097
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE546918 (5)
TRE500734
2) TRE508566
3) TR123417
4) TRE504914 (5)
TRE521756 (5)
5) TR123565 ***x12***



Valve, Intake

TRE531221 **Std.** (5)
TRE518080 **Std.** (5)

Valve, Exhaust

TRE518081 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TRE518082 **Std.**
2) TRE518083 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE526519 ***x24*** (5)
TRE519115 ***x24*** (5)
2) TR502371 ***x48*** (5)

1) Spring, Valve (5)

1) TR518872 ***x24***
TRE516486 ***x24***



Thermostat

TRE522076	180° F	(5)
TRE538289	180° F	(5)
TRE64354	180° F	(5)



Fuel Transfer Pump

TRE66153	(5) (6)
TRE68345	(5) (7)
TRE502513	(5) (8)
TRE517230	(5)

(4) Crankshaft (m) R503470, Tapered Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Crankshaft (m) R116076, Straight Nose.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech

Engine & Equipment Model

6068T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

6 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE507758

Con Rod (m):
R500335

APPLICATIONS:

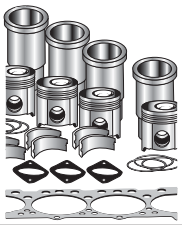
AGRICULTURAL *

640GIII	2954D	7730
640H	4730	7830
648GIII	4830	7930
6830	5430I	9540i WTS
648H	7195J	9560 STS
648HTJ	7210J	9570 STS
748H	7225J	9580i WTS
748HTJ	7430E	S550 STS
848H	7530	T550
848HTJ	7630	W540

CONSTRUCTION *

240DLC	624K/KR	672G
250GLC	644J/K	672GP
270DLC	670G	764
290GLC	670GP	755D

*** See Index for more App**

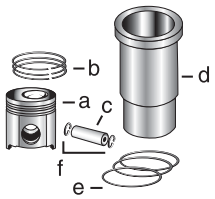


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE526975

2) TIK526975

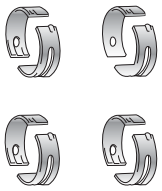


Piston-Liner Kit

TRE516228

Consists of:

a) TRE507758
b) TRE516268
c) TR502755
d) TR116397
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**

TRE65911 **.010**

TRE65165B **.020** **(2)**

Use 6



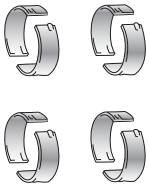
Thrust Bearing

TRE65168 **Std.**

TRE65912 **.010**

TRE65168B **.020** **(2)**

Use 1



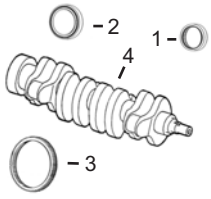
Con Rod Bearing

TRE65908 **Std.**

TRE65909 **.010**

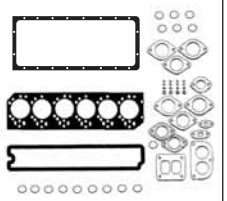
TRE65908B **.020** **(2)**

Use 6



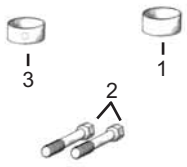
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 **(1)**
2) TRE44574
3) TR28811 **(5)**
TR114282 **(5)**
4) TRE515785 **(3)**
TRE505921 **(4)**



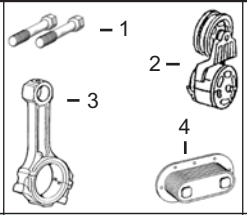
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE527833
2) TRE527832
3) TR116516
4) TR521498 **(5)**
TR123354 **(5)**
5) TR524496
TR524497



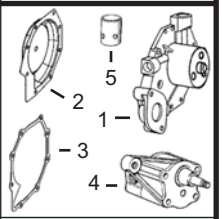
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR501124 ***x12***
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x26***
2) TRE518097
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE546918 **(5)**
TRE500734
2) TRE508566
3) TR123417
4) TRE504914 **(5)**
TRE521756 **(5)**
5) TR123565 ***x12***



Valve, Intake

TRE531221 **Std.** **(5)**
TRE518080 **Std.** **(5)**

Valve, Exhaust

TRE518081 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TRE518082 **Std.**
2) TRE518083 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE526519 ***x24*** **(5)**
TRE519115 ***x24*** **(5)**
2) TR502371 ***x48*** **(5)**

1) Spring, Valve **(5)**

1) TR518872 ***x24***
TRE516486 ***x24***



Thermostat

TRE522076	180° F	**(5)**
TRE538289	180° F	**(5)**
TRE64354	180° F	**(5)**



Fuel Transfer Pump

TRE66153	**(5)** **(6)**
TRE68345	**(5)** **(7)**
TRE502513	**(5)** **(8)**
TRE517230	**(5)**

(4) Crankshaft (m) R503470, Tapered Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Crankshaft (m) R116076, Straight Nose.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech
Engine & Equipment Model

6068T/H

For Tier 2 & Tier 3 Applications

4 Valve per Cylinder

6 Cyl

Bore: 4.19 in
106.5 mm

Pin Ø: 1.62 in
41 mm

Piston (m):
RE515037

Con Rod (m):
R500335

APPLICATIONS:

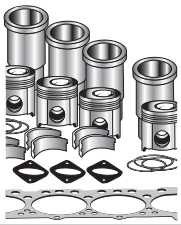
AGRICULTURAL *

640GIII	2954D	7730
640H	4730	7830
648GIII	4830	7930
6830	5430I	9540i WTS
648H	7195J	9560 STS
648HTJ	7210J	9570 STS
748H	7225J	9580i WTS
748HTJ	7430E	S550 STS
848H	7530	T550
848HTJ	7630	W540

CONSTRUCTION *

240DLC	624K/KR	672G
250GLC	644J/K	672GP
270DLC	670G	764
290GLC	670GP	755D

*** See Index for more App**

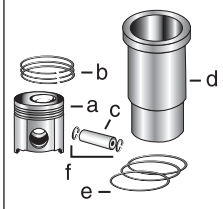


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE540226

2) TIK540226

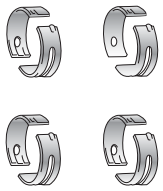


Piston-Liner Kit

TRE530616

Consists of:

a) TRE515037
b) TRE530613
c) TR502755
d) TR116397
e) TAR65507
f) TR54114



Main Bearing

TRE65165 **Std.**
TRE65911 **.010**
TRE65165B **.020** **(2)**

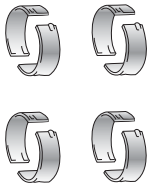
Use 6



Thrust Bearing

TRE65168 **Std.**
TRE65912 **.010**
TRE65168B **.020** **(2)**

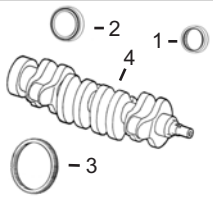
Use 1



Con Rod Bearing

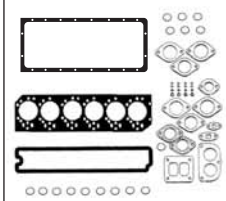
TRE65908 **Std.**
TRE65909 **.010**
TRE65908B **.020** **(2)**

Use 6



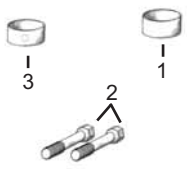
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft

1) TRE505515 **(1)**
2) TRE44574
3) TR28811 **(5)**
TR114282 **(5)**
4) TRE515785 **(3)**
TRE505921 **(4)**



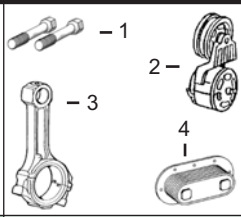
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE527833
2) TRE527832
3) TR116516
4) TR521498 **(5)**
TR123354 **(5)**
5) TR524496
TR524497



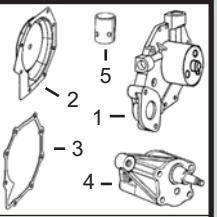
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR114082 ***x6***
2) TR501124 ***x12***
3) TR119874 ***x1***



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR502511 ***x26***
2) TRE518097
3) TRE500608
4) TRE59296 **(5 Plates)**
TRE56690 **(7 Plates)**
TRE59298 **(9 Plates)**



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Cam. Follower

1) TRE546918 **(5)**
TRE500734
2) TRE508566
3) TR123417
4) TRE504914 **(5)**
TRE521756 **(5)**
5) TR123565 ***x12***



Valve, Intake

TRE531221 **Std.** **(5)**
TRE518080 **Std.** **(5)**

Valve, Exhaust

TRE518081 **Std.**

Insert, Valve
1) Intake
2) Exhaust

1) TRE518082 **Std.**
2) TRE518083 **Std.**

1) Seal, Valve
2) Lock, Valve

1) TRE526519 ***x24*** **(5)**
TRE519115 ***x24*** **(5)**
2) TR502371 ***x48*** **(5)**

1) Spring, Valve **(5)**

1) TR518872 ***x24***
TRE516486 ***x24***



Thermostat

TRE522076	180° F	**(5)**
TRE538289	180° F	**(5)**
TRE64354	180° F	**(5)**



Fuel Transfer Pump

TRE66153	**(5)** **(6)**
TRE68345	**(5)** **(7)**
TRE502513	**(5)** **(8)**
TRE517230	**(5)**

(4) Crankshaft (m) R503470, Tapered Nose.
(5) Check application for proper usage.
(6) Line Connections are both threaded.
(7) Line Connections are one hose barb & one threaded.
(8) Line Connections are two hose barbs.

(1) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(2) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(3) Crankshaft (m) R116076, Straight Nose.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

6081

High Comp. Piston

4801 4803

8.1L

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

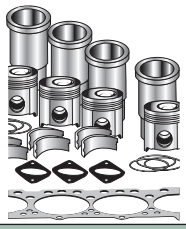
Con Rod (m):
R116340 (ESN To 86,536)
R501034 (ESN From 86,537)

APPLICATIONS:

AGRICULTURAL *

1270D	8300/T
1470D	8310/T
2256	8320/T
2258	8400/T
2264	9100
7710	9510/SH
7810	9550/SH
7820	9560i WTS
7920	9580 WTS
8100/T	9580i WTS
8110/T	9640 WTS
8120/T	9640i WTS
8200/T	9970
8210/T	
8220/T	

*** See Index for more Applications**

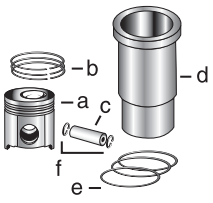


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK504201
TOK504201A

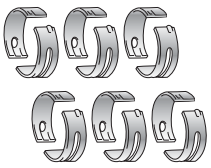
2) TIK504201
TIK504201A



Piston-Liner Kit

TRE64509
(RE53000)

Consists of:
a) TRE70688
b) TRE503528
c) TR57771
d) TR116236
e) TAR98850
f) TE1343FN



Main Bearing

TRE504195 **Std.**
TRE504196 **.0115**

Use 6



Thrust Bearing

TRE504198 **Std.**
TRE504199 **.0115**

Use 1

Thrust Washer
TRE61253 **Std.**

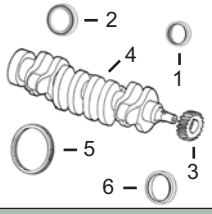
Use 3, Order Qty 1



Con Rod Bearing

TR116081 **Std.**
TRE57167 **.0115**

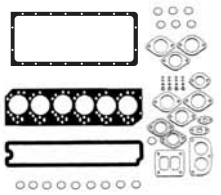
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft Gear
4) Crankshaft
5) Ring Gear
6) Rear Gear

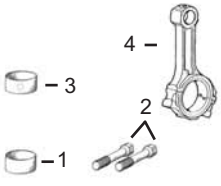
1) TAR49025
2) TRE520036
3) TR104587
4) TRE535300 **(1)**
TRE534314 **(2)**
5) TR28811
6) TR63326



1) O/H Gasket Set

2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

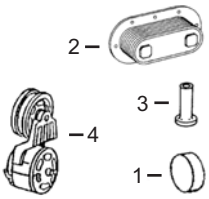
1) TRE506220
2) TRE506222
3) TRE55475
4) TR71918 **(3)**



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

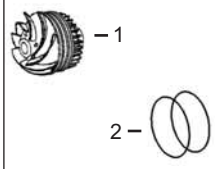
4) Con, Rod

1) TR74008 ***x6***
2) TR66452 ***x12*** **(4)**
TR501035 ***x12*** **(4)**
3) TR87561 ***x4***
4) TRE53154 **(10)**
TRE535555 **(11)**



1) Plug Camshaft
2) Oil Cooler
3) Tappet
4) Tensioner, Belt

1) TR82007
2) TAR55394
3) TR110126 ***x12***
4) TRE518097 **(9)**
TRE68715 **(9)**
TRE57498 **(9)**



1) Pump, Water
2) O'ring Mount Kit

1) TRE521502
TRE521503 **(12)**
2) TRE509463



Valve, Intake

TR84618 **Std.**
TR93308 **.003**
TR93312 **.015**

Valve, Exhaust

TR84619 **Std.**
TR93311 **.003**
TR93313 **.015**

Insert, Valve
1) Intake
2) Exhaust

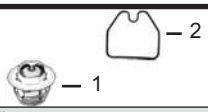
1) TR121193
2) TR119132

1) Cap, Valve
2) Lock, Valve
3) Shield, Valve

1) TT20129
2) TT20077
3) TR102882 ***x6*** **(5)**
TR501640 ***x6*** **(6)**

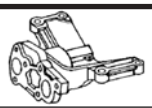
1) Spring, Valve

1) TR91822 **(7)**
TR502187 **(8)**



1) Thermostat
2) Thermostat Housing Gsk

1) TAR48675 180° F
2) TR136063



Pump, Oil

TRE60622

(1) With helical oil pump drive gear. Do not use with HPCR fuel system.
(2) With straight oil pump drive gear.
(3) With Aluminum Oil Pan use **TR49377** (RE504822).
(4) Use **TR66452** Rod Bolts with Machine Split Connecting Rods, and use **TR501035** Rod Bolts with Fractured Split Connecting Rods.
(5) For engine ESN 199,999 and below. For Exaust Valves only.
(6) For engine ESN 200,000 and above. For Exaust Valves only.
(7) For engine ESN 199,999 and below.
(8) For engine ESN 200,000 and above.
(9) Check application for proper usage.
(10) Machine split connecting rod. Uses Rod Bolt **TR66452**.
(11) Fractured split connecting rod. Uses Rod Bolt **TR501035**.
(12) High Flow.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech

Engine & Equipment Model

6081

Low Comp. Piston

4802 4806

8.1L

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):

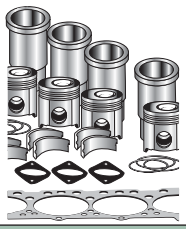
R116340 (ESN To 86,536)
R501034 (ESN From 86,537)

APPLICATIONS:

AGRICULTURAL *

2266	9650/CTS
3510	9660/CTS
4920	9660 WTS
6610	9660i WTS
6650	9680 WTS
7200	9680i WTS
8400	9750 STS
8410/T	9760 STS
8420/T	9780 CTS
8520/T	9850i WTS
9100	9976
9120	9986
9560/STS	9996
9580/WTS	CH3510
9610	CTS
9640 WTS	CTS II
9640i WTS	CTS III

*** See Index for more Applications**

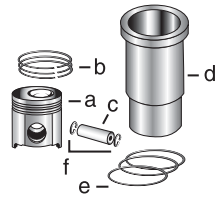


1) Engine O/H Kit

2) Engine I/F Kit

1) TOK504202
TOK504202A

2) TIK504202
TIK504202A

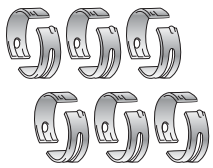


Piston-Liner Kit

TRE508156

Consists of:

a) TRE70689
b) TRE503528
c) TR57771
d) TR116236
e) TAR98850
f) TE1343FN



Main Bearing

TRE504195 **Std.**
TRE504196 **.0115**

Use 6



Thrust Bearing

TRE504198 **Std.**
TRE504199 **.0115**

Use 1

Thrust Washer
TRE61253 **Std.**

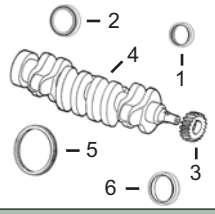
Use 3, Order Qty 1



Con Rod Bearing

TR116081 **Std.**
TRE57167 **.0115**

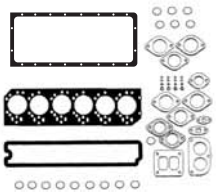
Use 6



1) Front Seal
2) Rear Seal

3) Crankshaft Gear
4) Crankshaft
5) Ring Gear
6) Rear Gear

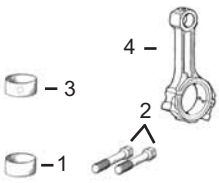
1) TAR49025
2) TRE520036
3) TR104587
4) TRE535300 **(1)**
TRE534314 **(2)**
5) TR28811
6) TR63326



1) O/H Gasket Set

2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket

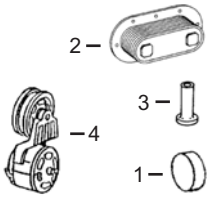
1) TRE506220
2) TRE506222
3) TRE55475
4) TR71918 **(3)**



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

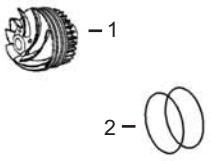
4) Con, Rod

1) TR74008 ***x6***
2) TR66452 ***x12*** **(4)**
TR501035 ***x12*** **(4)**
3) TR87561 ***x4***
4) TRE53154 **(10)**
TRE535555 **(11)**



1) Plug Camshaft
2) Oil Cooler
3) Tappet
4) Tensioner, Belt

1) TR82007
2) TAR55394
3) TR110126 ***x12***
4) TRE518097 **(9)**
TRE68715 **(9)**
TRE57498 **(9)**



1) Pump, Water
2) O'ring Mount Kit

1) TRE521502
TRE521503 **(12)**
2) TRE509463



Valve, Intake

TR84618 **Std.**
TR93308 **.003**
TR93312 **.015**

Valve, Exhaust

TR84619 **Std.**
TR93311 **.003**
TR93313 **.015**

Insert, Valve
1) Intake
2) Exhaust

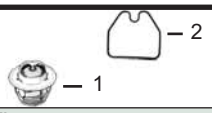
1) TR121193
2) TR119132

1) Cap, Valve
2) Lock, Valve
3) Shield, Valve

1) TT20129
2) TT20077
3) TR102882 ***x6*** **(5)**
TR501640 ***x6*** **(6)**

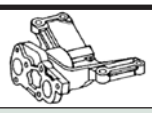
1) Spring, Valve

1) TR91822 **(7)**
TR502187 **(8)**



1) Thermostat
2) Thermostat Housing Gsk

1) TAR48675 180° F
2) TR136063



Pump, Oil

TRE60622

(1) With helical oil pump drive gear. Do not use with HPCR fuel system.
(2) With straight oil pump drive gear.
(3) With Aluminum Oil Pan use **TR49377** (RE504822).
(4) Use **TR66452** Rod Bolts with Machine Split Connecting Rods, and use **TR501035** Rod Bolts with Fractured Split Connecting Rods.
(5) For engine ESN 199,999 and below. For Exaust Valves only.
(6) For engine ESN 200,000 and above. For Exaust Valves only.
(7) For engine ESN 199,999 and below.
(8) For engine ESN 200,000 and above.
(9) Check application for proper usage.
(10) Machine split connecting rod. Uses Rod Bolt **TR66452**.
(11) Fractured split connecting rod. Uses Rod Bolt **TR501035**.
(12) High Flow.

For Additional JOHN DEERE® Products Refer to Page T95

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

6081

High Comp. Piston

4801 4803

8.1L Tier 2 & Tier 3

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

Con Rod (m):
RE535955

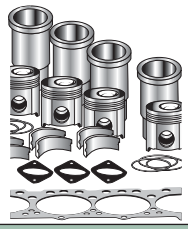
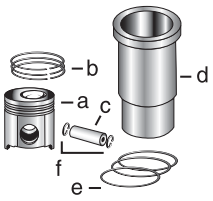
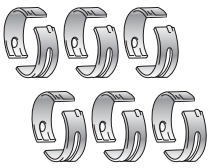
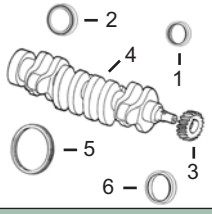
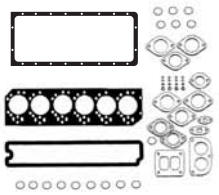
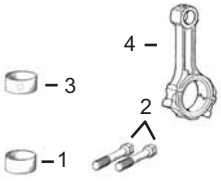
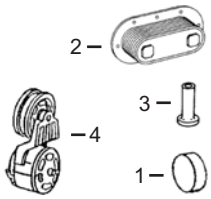
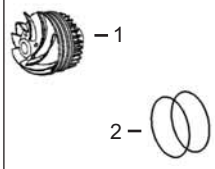
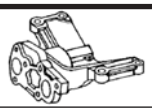
APPLICATIONS:

AGRICULTURAL

7710 Tractor
7810 Tractor
7820 Tractor
7920 Tractor
8120/T Tractor
8220/T Tractor
8320/T Tractor
8420/T Tractor
8520/T Tractor

INDUSTRIAL

330CLC Excavator
370C Excavator
608B Feller Buncher
608S/L Feller Buncher
703G Feller Buncher
753G/GL Feller Buncher
753J/JH Feller Buncher
759G Feller Buncher
759J/JH Feller Buncher
770D Motor Grader
772D Motor Grader
870D Motor Grader
872D Motor Grader
3554 Logger

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing**	**Thrust Bearing**	**Con Rod Bearing**
2) Engine I/F Kit	**TRE64509**	TRE504195 **Std.** TRE504196 **.0115**	TRE504198 **Std.** TRE504199 **.0115**	TR116081 **Std.** TRE57167 **.0115**
1) TRE526727	Consists of:	**Use 6**	**Use 1**	**Use 6**
2) TIK526727	a) TRE70688 b) TRE503528 c) TR57771 d) TR116236 e) TAR98850 f) TE1343FN		**Thrust Washer** TRE61253 **Std.** **Use 3, Order Qty 1**	
				
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Plug Camshaft 2) Oil Cooler 3) Tappet 4) Tensioner, Belt	1) Pump, Water 2) O'ring Mount Kit
3) Crankshaft Gear 4) Crankshaft 5) Ring Gear 6) Rear Gear	2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Seal	4) Con, Rod		
1) TAR49025 **(5)** TRE543639 **(5)** 2) TRE520036 3) TR104587 4) TRE535300 **(1)** TRE534314 **(2)** 5) TR28811 6) TR63326	1) TRE527551 2) TRE527552 3) TRE55475 4) TR532464 **(3)** TR520844 **(4)** 5) TR502598 TR502719	1) TR74008 ***x6*** 2) TR501035 ***x12*** 3) TR87561 ***x4*** 4) TRE535555	1) TR82007 2) TAR55394 3) TR110126 ***x12*** 4) TRE518097 **(6)** TRE68715 **(6)** TRE57498 **(6)**	1) TRE521502 2) TRE509463
	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Cap, Valve 2) Lock, Valve 3) Shield, Valve	1) Spring, Valve
	TR84618 **Std.** TR93308 **.003** TR93312 **.015**	TR84619 **Std.** TR93311 **.003** TR93313 **.015**	1) TR121193 2) TR119132	1) TT20129 2) TT20077 3) TR501640 ***x6***	1) TR91822 TR502187
					
1) Thermostat 2) Thermostat Housing Gsk	Pump, Oil				
1) TAR48675 180° F 2) TR136063	TRE60622				

(1) With helical oil pump drive gear. Do not use with HPCR fuel system.
(2) With straight oil pump drive gear.
(3) Paper Gasket.
(4) Metal/Rubber Gasket.
(5) Both Front Seal are included in the Kit.
(6) Check application for proper usage.

For Additional JOHN DEERE® Products Refer to Page T95

PowerTech

Engine & Equipment Model

6081

Low Comp. Piston

4802 4806

8.1L Tier 2 & Tier 3

Bore: 4.56 in
116 mm
Pin Ø: 1.85 in
47 mm

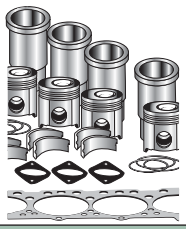
APPLICATIONS:

AGRICULTURAL

8120/T Tractor
8220/T Tractor
8320/T Tractor
8420/T Tractor
8520/T Tractor

INDUSTRIAL

853J Feller Buncher
853JH Tracked Harvester
903J Feller Buncher
903JH Tracked Harvester
909J Feller Buncher
909JH Tracked Harvester
953J Feller Buncher
959J Feller Buncher
4920 Sprayer
9560 STS Combine

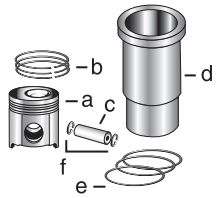


1) Engine O/H Kit

2) Engine I/F Kit

1) TRE526726

2) TIK526726

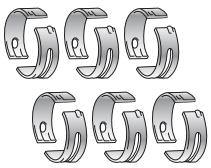


Piston-Liner Kit

TRE508156

Consists of:

a) TRE70689
b) TRE503528
c) TR57771
d) TR116236
e) TAR98850
f) TE1343FN



Main Bearing

TRE504195 **Std.**
TRE504196 **.0115**

Use 6



Thrust Bearing

TRE504198 **Std.**
TRE504199 **.0115**

Use 1

Thrust Washer
TRE61253 **Std.**

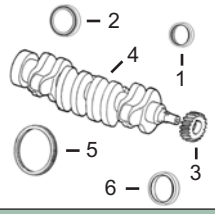
Use 3, Order Qty 1



Con Rod Bearing

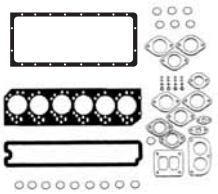
TR116081 **Std.**
TRE57167 **.0115**

Use 6



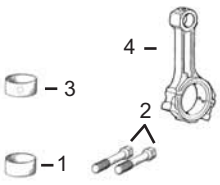
1) Front Seal
2) Rear Seal
3) Crankshaft Gear
4) Crankshaft
5) Ring Gear
6) Rear Gear

1) TAR49025 **(5)**
TRE543639 **(5)**
2) TRE520036
3) TR104587
4) TRE535300 **(1)**
TRE534314 **(2)**
5) TR28811
6) TR63326



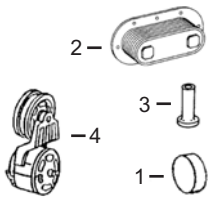
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Seal

1) TRE527551
2) TRE527552
3) TRE55475
4) TR532464 **(3)**
TR520844 **(4)**
5) TR502598
TR502719



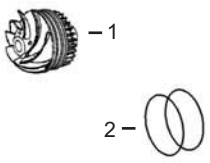
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Con, Rod

1) TR74008 ***x6***
2) TR501035 ***x12***
3) TR87561 ***x4***
4) TRE535555



1) Plug Camshaft
2) Oil Cooler
3) Tappet
4) Tensioner, Belt

1) TR82007
2) TAR55394
3) TR110126 ***x12***
4) TRE518097 **(6)**
TRE68715 **(6)**
TRE57498 **(6)**



1) Pump, Water
2) O'ring Mount Kit

1) TRE521502
2) TRE509463



Valve, Intake

TR84618 **Std.**
TR93308 **.003**
TR93312 **.015**

Valve, Exhaust

TR84619 **Std.**
TR93311 **.003**
TR93313 **.015**

Insert, Valve
1) Intake
2) Exhaust

1) TR121193
2) TR119132

1) Cap, Valve
2) Lock, Valve
3) Shield, Valve

1) TT20129
2) TT20077
3) TR501640 ***x6***

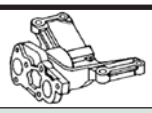
1) Spring, Valve

1) TR91822
TR502187



1) Thermostat
2) Thermostat Housing Gsk

1) TAR48675 180° F
2) TR136063



Pump, Oil

TRE60622

(1) With helical oil pump drive gear. Do not use with HPCR fuel system.
(2) With straight oil pump drive gear.
(3) Paper Gasket.
(4) Metal/Rubber Gasket.
(5) Both Front Seal are included in the Kit.
(6) Check application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

PowerTech

Engine & Equipment Model

6090

For Tier 2 & Tier 3 Applications

9.0L

Bore: 4.664 in
118.35 mm

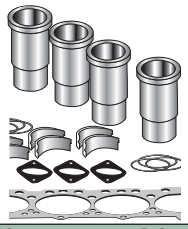
Stroke: 5.400 in
136 mm

APPLICATIONS:

AGRICULTURAL *

2854	1270D/E	8230
3520/22	1470D/E	8235R
4930	1710D	8245R
4940	1711D	8260R
7180	1910E	8270R
7200	250D	8285R
7250	300D	8295R
7660	350DLC	8310R
8030	350GLC	8320R
8130	3754D	8335R
8230	380GLC	8345R
8330	670/72G	8430
8430	703JH	850J
8530	724K	870G
9230	744K	903K
9580	753J/JH	953K
9660	759J/JH	9660
9680	770G/GP	C670

*** See Index for more Applications**

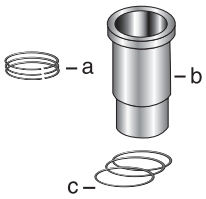


1) Engine O/H Kit Without Pistons

1) TOK6090

2) Engine I/F Kit Without Pistons

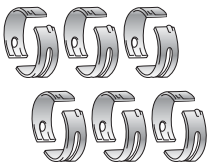
2) TIK6090



a) Ring Set
b) Cyl Liner
c) Kit O'ring

a) TRE539642
b) TR529710 (*)
c) TAR98850

Use 6



Main Bearing

TRE529319 **Std.**
TRE529319A **.0115**

Use 6



Thrust Bearing

TRE529320 **Std.**
TRE529320A **.0115**

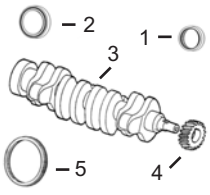
Use 1



Con Rod Bearing

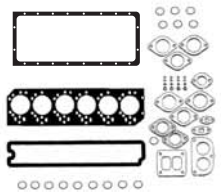
TRE529318 **Std.**
TRE529318A **.0115**

Use 6



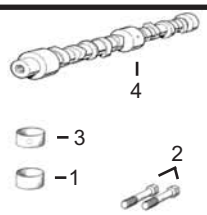
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft, Gear
5) Ring Gear

1) TRE543639
2) TRE520036
TRE530121 (6)
3) TRE540429
4) TR104587
5) TR28811



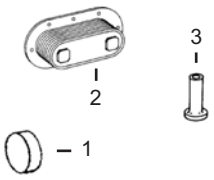
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Intake Manifold Gsk

1) TRE528400
2) TRE528402
3) TR525541
4) TR532464 (1)
TR520844 (2)
5) TR527884 (4)
TR526607 (5)
6) TR518260



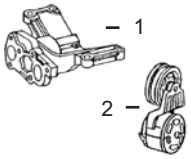
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam
4) Camshaft

1) TR74008 ***x6***
2) TR501035 ***x12***
3) TR527877 ***x6***
4) TR522884



1) Plug Camshaft
2) Oil Cooler
3) Tappet

1) TR82007
2) TAR55394
3) TRE540586 ***x12***



1) Pump, Oil
2) Tensioner, Belt

1) TRE543187
2) TRE518097 (3)
TRE68715 (3)
TRE57498 (3)



Valve, Intake

TR520223 **Std.**

Valve, Exhaust

TR520224 **Std.**

Insert, Valve

TR527285

1) Guide, Valve
2) Lock, Valve

1) TR527286
2) TR520798

1) Spring, Valve
2) Seal, Valve Stm

1) TR504235
2) TRE529187



Thermostat

TRE528652 180° F (3)
TRE540550 180° F (3)



Water Pump

TRE530194

(*) With Shim.
(1) Paper Gasket.
(2) Metal / Rubber Gasket.
(3) Check application for proper usage.
(4) Use with RE529972 Valve Cover.
(5) Use with RE536705 Valve Cover.
(6) Flanged Seal.

For Additional JOHN DEERE® Products Refer to Page T95

Miscellaneous Parts Available from Maxiforce

Part Number	Description	Part Number	Description
TAH12305	Clutch Plate	TR50410	Gasket, Water Pump
TAL38235	Disk	TR50655	Collar Shift
TAL38238	Disk	TR51936	Grommet
TAL55075	Clutch	TR51937	Nut
TAL38238	Disk	TR53081	Gasket, Intake
TAL65872	Disk, Brake	TR54641	Gasket, Thermostat
TAR87999	Disk Kit	TR55405	Gasket, Water Pump
TAR94517	Disk	TR56548	Plate Clutch
TAR108105	Disk	TR56809	Gasket, Water Pump
TAR101236	Seal, Teflon	TR59690	Plate Clutch
TAR101238	Seal, Teflon	TR61437	Gasket, Water Pump
TAR108105	Disk	TR61871	Gasket, Pump, Oil
TAT22034	Disk, Brake	TR62686	Disk
TAZ27951	Pump, Fuel	TR64197	Plate Clutch
TH35244	O'ring, Sleeve C/S	TR66164	Washer, Thrust
TL29226	Shaft	TR68381	Filter
TL33125	Clutch Plate	TR68384	Control Valve
TL33163	Clutch Plate	TR77663	Clutch Plate
TL33910	Disk, Brake Actuating	TR78202	Seat
TL55004	Break Actuator	TR79605	Grommet, Injector
TL78682	Disk	TR79606	Tee, Fitting (Thread)
TMX504	Kit, Grommet	TR90648	Gasket, Cover
TMX506	Kit, Grommet	TR90658	Gasket, Exhaust
TR106796	O'ring, Rocker Cover	TR95211	Plate
TR107264	Clutch Plate	TR95313	Clutch Plate
TR114215	Clutch Plate	TR95378	Clutch Plate
TR114282	Ring Gear (142 Teeth)	TR96791	Clutch Plate
TR116894	Clutch Plate	TR96830	Clutch Plate
TR135537	Brake Disk	TR97351	Gasket, Flyweel House
TR26058	Gasket, Rear Cover	TR97454	Gasket, Timing Gear
TR26341	Gasket, Water Pump	TR97455	Gasket, Water Pump
TR26343	Gasket, Water Pump	TRE28790	Seal, Hyd Pump
TR26632	Bushing	TRE29103	Kit, Hyd Pump
TR26767	Brake Disk	TRE29104	Kit, Hyd Pump
TR27285	Gasket, Fuel Pump	TRE29107	Kit, Hyd Pump
TR27727	Plate	TRE29109	Kit, Hyd Pump
TR28794	Dust Bowl, Plastic	TRE29815	Disk
TR28795	Dust Bowl, Plastic	TRE29816	Disk
TR28811	Ring Gear (129 Teeth)	TRE35517	Disk
TR34764	Washer, Injector	TRE37011	Disk
TR39259	Clutch Plate	TRE37104	Disk
TR39319	Shaft	TRE53823	Disk
TR39325	Clutch Plate	TRE65324	Disk
TR42406	Gasket, Water Pump	TT14339	Disk
TR42694	Gasket, Thermostat	TT20075	Gasket, Rocker Cover
TR43117	Gasket, Water Pump	TT20215	Gasket, Thermostat
TR43751	Gasket, Turbo	TT20219	Gasket, Thermostat House
TR45822	Bushing	TT20242	Gasket, Water Pump
TR46417	Disk, Brake	TT20243	Gasket, Water Pump
TR46984	Gasket, Gear House	TT20268	Gasket, Water Pump
TR47047	Gasket, Timing Gear	TT20467	Gasket, Rocker Cover
TR49865	Gasket, Rocker Cover	TT21315	Disk
TR49866	Gasket, Rocker Cover	TT24932	Gasket, Thermostat
TR500374	Gasket, Filter Base	TT25485	Gasket, Water Pump
TR50397	Gasket, Intake	TT28664	Clutch Disk

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MAXIFORCE® DIESELENGINEPARTS

John Deere Water Pump Repair Kit Identification Chart

300 Series Engines

HOUSING MARKED	KIT WITHOUT IMPELLER	KIT WITH IMPELLER
T23630	TRE19507	TRE62658
T23632	TRE19507	TRE62658
T29521	TRE19507	TRE62658
T29701	TMX9398	TMX131
R48992	TRE19507	TRE62658
R48994	TMX9398	TMX131
R48997	TRE19507	TRE62658
R51039 (A)	TRE19507	TRE62658
R51039 (B)	TMX9448	TRE11347
R51961	TRE19510	TMX132
R52009	TMX381	TMX382
R54051 (A)	TRE19507	TRE62658
R55130 (A)	TRE19507	TRE62658
R55130 (B)	TMX9448	TRE11347
R55164 (A)	TRE19507	TRE62658
R55164 (B)	TMX9448	TRE11347
R55758 (A)	TRE19507	TRE62658
R55758 (B)	TMX9448	TRE11347
R55971	TRE19510	TRE11348
R56787	TRE19507	TMX133
R56813	TRE19510	TRE11348
R59049	TRE19507	TRE62658
R62902	TRE19507	TMX133
R65880 (A)	TRE19507	TRE62658
R65880 (B)	TMX9448	TRE11347
R66420	TMX285	N/A
R67188 (A)	TRE19507	TRE62658
R67188 (B)	TMX9448	TRE11347
R67741	TRE19511	N/A
R68733	TMX285	N/A
R70437 (A)	TRE19507	TRE62658
R70437 (B)	TMX9448	TRE11347
R70612	TRE19510	TRE11348
R73604 (A)	TRE19507	TRE62658
R73604 (B)	TMX9448	TRE11347
R73606	TRE19510	TMX132
R73724	TRE19510	TMX132
R73801 (A)	TRE19507	TRE62658
R73801 (B)	TMX9448	TRE11347
R77012 (A)	TRE19507	TRE62658
R77012 (B)	TMX9448	TRE11347
R78286 (A)	TRE19507	TRE62658
R78286 (B)	TMX9448	TRE11347
R78287	TRE19510	TRE11348
R79171	TRE19510	TMX132
R79172 (A)	TRE19507	TRE62658
R79172 (B)	TMX9448	TRE11347
R80168	TRE19511	N/A
R82787	TRE19511	N/A
R90783	TRE19510	TRE11348
R90784	TRE19510	TRE11348
R91724	TRE19507	TRE62658
R97564	TRE19510	TRE11348
R99665	TRE19510	TRE11348
R100871 (A)	TRE19507	TRE62658
R100871 (B)	TMX9448	TRE11347
R104648	TRE19510	TRE11348
R111028 (A)	TRE19507	TRE62658
R111028 (B)	TMX9448	TRE11347
R111084	TRE19507	TRE62658
R127918		TRE62662
R100812		TRE62662

(A) Pulley is made of stamped steel
(B) Pulley is made of cast iron.

400 Series Engines

HOUSING MARKED	KIT WITHOUT IMPELLER	KIT WITH IMPELLER
R26337	TMX9212	TAR55617
R27547	TMX9212	TAR55617
R34964	TMX9257	TAR9834
R34974	TMX9257	TAR9834
R34977	TMX9212	TAR55617
R34982	TMX9212	TAR55617
R41315	TMX9355	TAR55619
R41316	TMX9257	TAR9834
R41318	TMX9355	TAR55619
R43114	TMX404	N/A
R44122	TMX9355	TAR55619
R46561	TMX404	N/A
R50408	TMX404	TMX137
R50409	TMX404	TMX135
R51683	TMX404	TMX135
R54955	TMX139	TMX140
R58713	TMX404	N/A
R61439	TMX150	TRE10967

John Deere 300 Series Water Pump Repair Kit Components

KITS WITHOUT IMPELLERS

KIT REF.	*COMPONENTS*	
TRE19507	TJD9257	BEARING
	TAR101549	SEAL KIT
	TT20242	GASKET
	TT20243	GASKET
	TT20268	GASKET
	TR25485	GASKET
	TR55405	GASKET
	TR97455	GASKET
TRE19510	TJD8643	BEARING
	TAR101549	SEAL KIT
	TT25485	GASKET
	TR56809	GASKET
	TT20243	GASKET
TRE19511	TJD7686	BEARING
	TAR101549	SEAL KIT
	TRE20767	SEAL
	TRE20768	SEAL
	TR82052	SHAFT
	TT20243	GASKET
	TR56809	GASKET
TMX9398	TJD9398	BEARING
	TAR101549	SEAL KIT
	TT20243	GASKET
	TT25485	GASKET
TMX9448	TJD9448	BEARING
	TAR101549	SEAL KIT
	TT20243	GASKET
	TR55405	GASKET
TMX285	TJD9257	BEARING
	TAR101549	SEAL KIT
	TT20243	GASKET
TMX381	TJD9448	BEARING
	TAR101549	SEAL KIT
	TR25485	GASKET
	TT20243	GASKET

KITS WITH IMPELLERS

KIT REF.	*COMPONENTS*	
TRE62658	TRE19507	KIT
	TT30897	IMPELLER
TRE11348	TRE19510	KIT
	TR56812	IMPELLER
TMX132	TRE19510	KIT
	TR40979	IMPELLER
TRE62662	TJD9448	BEARING
	TAR101549	SEAL KIT
	TR104583	GASKET
	TR40979	IMPELLER
	TT20243	GASKET
TMX131	TMX9398	KIT
	TR40979	IMPELLER
TRE11347	TMX9448	KIT
	TT30897	IMPELLER
TMX133	TMX285	KIT
	TR40979	IMPELLER
TMX382	TMX381	KIT
	TR40979	IMPELLER

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MAXIFORCE® DIESELENGINEPARTS

John Deere 400 Series Water Pump Repair Kit Components

KITS WITHOUT IMPELLERS

KIT REF.	*COMPONENTS*	
TMX9257	TJD9257	BEARING
	TAR62933	SEAL KIT
	TT13119	O'RING
	TR26341	GASKET
	TR26343	GASKET
TMX9212	TJD9212	BEARING
	TAR62933	SEAL KIT
	TR26341	GASKET
	TR26343	GASKET
TMX9355	TJD9355	BEARING
	TAR62933	SEAL KIT
	TR26341	GASKET
	TR26343	GASKET
TMX404	TJD9257	BEARING
	TAR101549	SEAL KIT
	TR42406	GASKET
	TR43117	GASKET
	TR50410	GASKET
	TR61437	GASKET
TMX139	TJD9355	BEARING
	TAR62933	SEAL KIT
	TR42406	GASKET
	TR50410	GASKET
TMX150	TJD9257	BEARING
	TAR101549	SEAL KIT
	TR42406	GASKET
	TR61437	GASKET

KITS WITH IMPELLERS

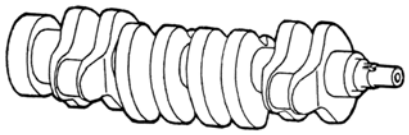
KIT REF.	*COMPONENTS*	
TAR9834	TMX9257	KIT
	TR40979	IMPELLER
TAR55617	TMX9212	KIT
	TR40979	IMPELLER
TAR55619	TMX9355	KIT
	TR40979	IMPELLER
TMX135	TMX404	KIT
	TR51682	IMPELLER
TMX137	TMX404	KIT
	TR50411	IMPELLER
TMX140	TMX139	KIT
	TR50411	IMPELLER
TRE10967	TMX150	KIT
	TR77388	IMPELLER

500 SERIES WATER PUMP KITS ARE NOT AVAILABLE

Individual Water Pump Components Available from Maxiforce (Other than Gaskets)

TAR101549	SEAL KIT (WITH FITTING TOOL)	TR40979	IMPELLER
TAR62933	SEAL KIT	TR47191	IMPELLER
TJD7686	BEARING	TR50411	IMPELLER
TJD8643	BEARING	TR51682	IMPELLER
TJD9212	BEARING	TR56812	IMPELLER
TJD9257	BEARING	TR77388	IMPELLER
TJD9355	BEARING	TR94419	IMPELLER (PLASTIC)
TJD9398	BEARING	TT30897	IMPELLER (CAST)
TJD9448	BEARING		

Engine Torque Specifications

			
ENGINE MODEL	**CRANKSHAFT MAIN BEARING CAP BOLTS**	**CONROD BOLTS**	**CYLINDER HEAD BOLTS**
3152, 3164, 3179, 4202, 4219, 4239, 6303, 6329, 6359	85 Lb.-ft.	55 Lb.-ft.	See John Deere service manual for your application
4276, 6414	85 Lb.-ft.	95 Lb.-ft.	See John Deere service manual for your application
3029, 4039, 6059	Dubuque (T0) built engines serial # up to 419999 / 85 Lb.-ft. serial # 420000 and after / 110 Lb.-ft Saran (CD) built engines serial # up to 135640 / 85 Lb.-ft. serial # 135641 and after / 110 Lb.-ft	40 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 miniutes. step 4 - turn an additional 60°.
4045, 6068	Dubuque (T0) built engines serial # up to 419999 / 85 Lb.-ft. serial # 420000 and after / 110 Lb.-ft Saran (CD) built engines serial # up to 135640 / 85 Lb.-ft. serial # 135641 and after / 110 Lb.-ft	50 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 miniutes step 4 - turn an additional 60°
4270, 6404, 6466, 6076	150 Lb.-ft.	55 Lb.-ft. plus an additional 90°	See John Deere service manual for your application
6531	210 Lb.-ft.	55 Lb.-ft. plus an additional 90°	185 Lb.-ft.
6619, 6101	210 Lb.-ft.	55 Lb.-ft. plus an additional 90°	150 Lb.-ft. plus an additional 90°
Power Tech 3029	100 Lb.-ft.	40 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 miniutes step 4 - turn an additional 60°
Power Tech 4045, 6068	100 Lb.-ft.	43 Lb.-ft. plus an additional 90°	step 1 - 75 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - verify 110 Lb.-ft. after 5 miniutes step 4 - turn an additional 60°
Power Tech 6081	170 Lb.-ft.	Tongue and Groove Style Connecting Rods 55 Lb.-ft. plus an additional 90° --- Fractured Split Style Connecting Rods 71 Lb.-ft. plus an additional 90°	See John Deere service manual for your application

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Introduction to Cummins® Section

Cummins® B and C (Mid-Range) / CDC Family I *and Family* II

Diesel Engine Models covered by this catalog

ENGINE MODEL	CDC MODEL	NUMBER OF CYLINDERS	BORE DIAMETER mm / In
4B 3.9	4.390 Family I	4	102 / 4.016
4BT 3.9	4.390 Family I	4	102 / 4.016
4BTA 3.9	4.390 Family I	4	102 / 4.016
4BT 3.9 QSB		4	102 / 4.02
4BT 4.5 QSB		4	107 / 4.21
6B 5.9	6.590 Family I	6	102 / 4.016
6BT 5.9	6.590 Family I	6	102 / 4.016
6BTA 5.9	6.590 Family I	6	102 / 4.016
6BTA 5.9 ISB	6.590 Family I	6	102 / 4.02
6BT 5.9 QSB		6	102 / 4.02
6BT 6.7 QSB		6	107 / 4.21
6CT 8.3	6.830 Family II	6	114 / 4.484
6CTA 8.3	6.830 Family II	6	114 / 4.484

Maxiforce Engine Kit Composition for Cummins® (B & C) Engine Applications

B Series (Family I*) - 4 & 6 Cyl*

Piston Kits Include: Piston, Piston Pin, Piston Rings and Retainers

COK: Engine Overhaul Kits Include: Piston Kits, Main and Con Rod Bearings, Crankshaft Seals, Top and Bottom Gasket Sets, Piston and Camshaft Bushings. You may order std or oversize pistons.

i.e: **COK ____/ 4** (Kit No / No of Cyl) or **COK ____/ 4** (Kit No / No of Cyl)

CIK: Engine In-Frame Kits Include: Piston Kits, Main and Con Rod Bearings, Top Gasket Set and Oil Pan Gasket.

C Series (Family II*) - 6 Cyl*

COK: Engine Overhaul Kits Include: Cylinder Kits, Main and Con Rod Bearings, Front and Rear Crankshaft Seals, Top and Bottom Gasket Sets, Piston and Cam bushing.

CIK: Engine In-Frame Kits Include: Cylinder Kits, Main and Con Rod Bearings, Top Gasket Set and Oil Pan Gasket.

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MAXIFORCE® DIESELENGINEPARTS

Engine Models Cover by this Catalog

ENGINE MODEL	COMMENTS	PAGE
4BT 3.9	8 Valves Piston 7163 Grade A	C01
4BTA 3.9	8 Valves Piston 7156 Grade A	C02
4B 3.9	8 Valves Piston 6223 Grade A	C03
4BT 3.9	8 Valves Piston 6632 Grade A	C04
4BTA 3.9	8 Valves Piston 9041 Grade A	C05
4BTA 3.9	8 Valves Piston 8673 Grade A	C06
4BT 3.9	8 Valves Piston 0187 Grade A	C07
6BT 5.9	12 Valves Piston 7163 Grade A	C08
6BTA 5.9	12 Valves Piston 7156 Grade A	C09
6B 5.9	12 Valves Piston 6223 Grade A	C10
6BT 5.9	12 Valves Piston 1400 Grade A	C11
6BT 5.9	12 Valves Piston 6632 Grade A	C12
6BTA 5.9	12 Valves Piston 2571 Grade A	C13
6BTA 5.9	12 Valves Piston 7619 Grade A	C14
6BTA 5.9	12 Valves Piston 9041 Grade A	C15
6BTA 5.9	12 Valves Piston 8673 Grade A	C16

ENGINE MODEL	COMMENTS	PAGE
6BTA 5.9	12 Valves Piston 0187 Grade A	C17
6BTA 5.9 ISB	24 Valves Piston 6153 Grade A	C18
6BTA 5.9 ISB	24 Valves Piston 6050 Grade A	C19
4BT 3.9 QSB	8 Valves Piston 7416 Grade A	C20
4BT 4.5 QSB	16 Valves Piston 4860 Grade A	C21
6BT 5.9 QSB	12 Valves Piston 7416 Grade A	C22
6BT 6.7 QSB	24 Valves Piston 4860 Grade A	C23
6CT 8.3	12 Valves Piston Grade A	C24
6CTA 8.3	12 Valves Piston Grade A	C25
6CT 8.3	12 Valves Piston Grade A	C26
6CT 8.3	12 Valves Piston 7707 Grade A	C27
6CT 8.3	12 Valves Piston 9566 Grade A	C28
6CTA 8.3	12 Valves Piston 9161 Grade A	C29
6CTA 8.3	12 Valves Piston 9247 Grade A	C30
6CTA 8.3	12 Valves Piston 5878 Grade A	C31

Engine Application Chart by CPL (Control Parts List)

**** Use CPL Application Chart for quick Reference Only, MUST CONFIRM all parts by Engine Serial Number ****

This chart offers CPL's (Control Parts List) for Cummins branded engines and for CDC branded engines used by Case industrial equipment and Case-IH agricultural equipment.

The charts gives the listing of CPL numbers available with Maxiforce and will indicate the page number to the corresponding engine. When using the chart for Case and Case-IH (CDC engines) the reader will refer to the equipment models available and the corresponding page will be indicated.

CPL	ENGINE MODEL	PAGE
426	6BT 6.7 QSB	C23
427	6BT 6.7 QSB	C23
591 Marine	4B 3.9 (4.390)	C03
594	4BTA 3.9 (4.390)	C02
595	4BTA 3.9 (4.390)	C02
596	6B 5.9 (6.590)	C10
597	6BT 5.9 (6.590)	C08
599	6BTA 5.9 (6.590)	C09
600	6BTA 5.9 (6.590)	C09
602	6CT 8.3 (6.830)	C24
603	6CT 8.3 (6.830)	C24
604	6CTA 8.3 (6.830)	C25
656	6BT 6.7 QSB	C23
681	4B 3.9 (4.390)	C03
690	4BT 3.9 (4.390)	C01
691	6B 5.9 (6.590)	C10

CPL	ENGINE MODEL	PAGE
692	6BT 5.9 (6.590)	C08
696	4BTA 3.9 (4.390)	C02
698	6BTA 5.9 (6.590)	C09
710	4BTA 3.9 (4.390)	C02
711	4BTA 3.9 (4.390)	C02
712	6BTA 5.9 (6.590)	C09
714 Marine	6B 5.9 (6.590)	C10
715	6BTA 5.9 (6.590)	C09
716	6BT 5.9 (6.590)	C08
721 Marine	4B 3.9 (4.390)	C03
725	4B 3.9 (4.390)	C03
727	4BT 3.9 (4.390)	C01
729	6BT 5.9 (6.590)	C08
730	4BT 3.9 (4.390)	C01
741 Marine	4BTA 3.9 (4.390)	C02
742 Marine	6BTA 5.9 (6.590)	C09

CPL	ENGINE MODEL	PAGE
753	6CT 8.3 (6.830)	C24
754	6CTA 8.3 (6.830)	C25
755	6CTA 8.3 (6.830)	C25
761	6BT 5.9 (6.590)	C08
762	4BT 3.9 (4.390)	C01
763	4BT 3.9 (4.390)	C01
791	4B 3.9 (4.390)	C03
791 Marine	6B 5.9 (6.590)	C10
792	6BTA 5.9 (6.590)	C09
802	6B 5.9 (6.590)	C10
804	6BT 5.9 (6.590)	C08
807	6BT 5.9 (6.590)	C08
817	4BT 3.9 (4.390)	C01
819	6CT 8.3 (6.830)	C24
826	4BTA 3.9 (4.390)	C02
828	6CT 8.3 (6.830)	C24

Engine Application Chart by CPL (Control Parts List)

CPL	ENGINE MODEL	PAGE
830	6CTA 8.3 (6.830)	C25
834	6BTA 5.9 (6.590)	C09
843	4B 3.9 (4.390)	C03
845	6B 5.9 (6.590)	C10
856	6BT 5.9 (6.590)	C08
857	4BT 3.9 (4.390)	C01
858	4BT 3.9 (4.390)	C01
893	6CTA 8.3 (6.830)	C25
895	4B 3.9 (4.390)	C03
912	6BTA 5.9 (6.590)	C09
937	4BTA 3.9 (4.390)	C02
938	6BT 5.9 (6.590)	C08
940	6BTA 5.9 (6.590)	C09
943	6BT 5.9 (6.590)	C08
947	6BT 5.9 (6.590)	C08
948	6BT 5.9 (6.590)	C08
949	6BT 5.9 (6.590)	C08
950	6BT 5.9 (6.590)	C08
953 Marine	6BT 5.9 (6.590)	C11
954	6CT 8.3 (6.830)	C26
955	6CT 8.3 (6.830)	C24
959	6CTA 8.3 (6.830)	C25
960	6B 5.9 (6.590)	C10
961	4BTA 3.9 (4.390)	C02
961	6BTA 5.9 (6.590)	C09
962	6BTA 5.9 (6.590)	C09
970 Marine	6BT 5.9 (6.590)	C11
971	4BT 3.9 (4.390)	C01
981	4B 3.9 (4.390)	C03
983	6BTA 5.9 (6.590)	C09
984	6CTA 8.3 (6.830)	C25
985	6CT 8.3 (6.830)	C24
986	4BTA 3.9 (4.390)	C05
987	6BTA 5.9 (6.590)	C14
994	6BT 5.9 (6.590)	C08
998	6BTA 5.9 (6.590)	C09
999	6B 5.9 (6.590)	C10
1160	6BT 5.9 (6.590)	C08
1163	6BT 5.9 (6.590)	C08
1165	6BT 5.9 (6.590)	C11
1168	6BT 5.9 (6.590)	C08
1172	4B 3.9 (4.390)	C03
1173	4BTA 3.9 (4.390)	C02
1174	6BTA 5.9 (6.590)	C09
1189	6BT 5.9 (6.590)	C08
1201	4BT 3.9 (4.390)	C01
1202	4BT 3.9 (4.390)	C01
1207	6BT 5.9 (6.590)	C08
1209	6BTA 5.9 (6.590)	C09
1212	6CTA 8.3 (6.830)	C25
1221	6CT 8.3 (6.830)	C28
1222	6CTA 8.3 (6.830)	C25
1245	6BT 5.9 (6.590)	C08
1246	6BT 5.9 (6.590)	C08
1247 Marine	6BT 5.9 (6.590)	C11
1248	6CT 8.3 (6.830)	C24
1259	4B 3.9 (4.390)	C03
1260	4BTA 3.9 (4.390)	C05
1261	6BTA 5.9 (6.590)	C14
1262	6CT 8.3 (6.830)	C27
1263	6CT 8.3 (6.830)	C27
1266	6BT 5.9 (6.590)	C08
1268	4BT 3.9 (4.390)	C01
1270	6CTA 8.3 (6.830)	C25
1273	6CTA 8.3 (6.830)	C25
1274	6CT 8.3 (6.830)	C24
1275	6CT 8.3 (6.830)	C24
1277	4BT 3.9 (4.390)	C01
1278	4BTA 3.9 (4.390)	C02
1279	6BT 5.9 (6.590)	C08
1281	6CT 8.3 (6.830)	C24
1282 Marine	6CT 8.3 (6.830)	C28
1287	4BT 3.9 (4.390)	C01
1288	6BT 5.9 (6.590)	C08
1289 Marine	6BT 5.9 (6.590)	C08
1312	4B 3.9 (4.390)	C03
1313	6BT 5.9 (6.590)	C11
1320	6B 5.9 (6.590)	C10
1321	6CTA 8.3 (6.830)	C25
1322 Marine	6BT 5.9 (6.590)	C11
1351	6BTA 5.9 (6.590)	C15
1366	6CT 8.3 (6.830)	C28
1371	6CTA 8.3 (6.830)	C30
1372	6CTA 8.3 (6.830)	C30
1377	6CTA 8.3 (6.830)	C25
1399	6CT 8.3 (6.830)	C26
1403	6B 5.9 (6.590)	C10
1406	6CT 8.3 (6.830)	C27
1422	6BTA 5.9 (6.590)	C14
1433	6B 5.9 (6.590)	C10
1435	6CT 8.3 (6.830)	C26
1440	6BT 5.9 (6.590)	C08
1508	4BT 3.9 (4.390)	C01
1518	6BTA 5.9 (6.590)	C09
1519	6BTA 5.9 (6.590)	C09
1520	4BTA 3.9 (4.390)	C02
1521	4BTA 3.9 (4.390)	C02
1522	4B 3.9 (4.390)	C03
1523	6BTA 5.9 (6.590)	C09
1524	6BTA 5.9 (6.590)	C09
1525	4BTA 3.9 (4.390)	C02
1526	4BTA 3.9 (4.390)	C02
1527	6BTA 5.9 (6.590)	C14
1539	6CTA 8.3 (6.830)	C25
1547	6CTA 8.3 (6.830)	C25
1549	6BTA 5.9 (6.590)	C13
1550	6BTA 5.9 (6.590)	C13
1551 Auto	6BT 5.9 (6.590)	C12
1552 Auto	6BT 5.9 (6.590)	C12
1553 Auto	6BT 5.9 (6.590)	C12
1563	6CTA 8.3 (6.830)	C31
1569	6CTA 8.3 (6.830)	C31
1570 Marine	6BT 5.9 (6.590)	C11
1579	6BTA 5.9 (6.590)	C15
1581	6BTA 5.9 (6.590)	C09
1584	6BT 6.7 QSB	C23
1603	6CT 8.3 (6.830)	C24
1610	6BT 6.7 QSB	C23
1612	6CTA 8.3 (6.830)	C25
1613 Marine	6BT 5.9 (6.590)	C11
1615	6CT 8.3 (6.830)	C27
1618	6CT 8.3 (6.830)	C27
1627	6BT 5.9 (6.590)	C08
1629	6BT 6.7 QSB	C23
1631	4BT 3.9 (4.390)	C01
1633	6CTA 8.3 (6.830)	C25
1638	6BT 5.9 (6.590)	C11
1659	4BT 3.9 (4.390)	C01
1668	6CT 8.3 (6.830)	C27
1684	6CTA 8.3 (6.830)	C30
1685	6BT 5.9 (6.590)	C08
1700	4BT 4.5 QSB	C21
1701	4BT 4.5 QSB	C21
1804	6CTA 8.3 (6.830)	C25
1815	6BTA 5.9 (6.590)	C13
1816	6BTA 5.9 (6.590)	C13
1826	6CTA 8.3 (6.830)	C25
1839 Auto	4BT 3.9 (4.390)	C04
1845	6CTA 8.3 (6.830)	C29
1846	6CTA 8.3 (6.830)	C29
1863	6BTA 5.9 (6.590)	C13
1888 Auto	6BT 5.9 (6.590)	C12
1889	6BTA 5.9 (6.590)	C17
1895 Auto	6BT 5.9 (6.590)	C12
1901	6BTA 5.9 (6.590)	C13
1902	6BTA 5.9 (6.590)	C16
1903	6CTA 8.3 (6.830)	C25
1914 Auto	6BT 5.9 (6.590)	C12
1915 Auto	6BT 5.9 (6.590)	C12
1916 Auto	6BT 5.9 (6.590)	C12
1917	6CTA 8.3 (6.830)	C31
1920	6CTA 8.3 (6.830)	C31
1923	6CTA 8.3 (6.830)	C31
1928 Marine	6BT 5.9 (6.590)	C11
1929 Marine	6CT 8.3 (6.830)	C28
1932	4B 3.9 (4.390)	C03
1943	6CTA 8.3 (6.830)	C29
1948	6BTA 5.9 (6.590)	C16
1949	6CTA 8.3 (6.830)	C29

MAXIFORCE® DIESELENGINEPARTS

Engine Application Chart by CPL (Control Parts List)

CPL	ENGINE MODEL	PAGE
1959	6BTA 5.9 (6.590)	C13
1961	6BTA 5.9 (6.590)	C16
1962	6BTA 5.9 (6.590)	C16
1963	4B 3.9 (4.390)	C07
1965	4BTA 3.9 (4.390)	C06
1966	4BTA 3.9 (4.390)	C06
1967	4BTA 3.9 (4.390)	C06
1968	6BTA 5.9 (6.590)	C13
1972	6CTA 8.3 (6.830)	C31
2000 Auto	6BT 5.9 (6.590)	C12
2001 Auto	4BT 3.9 (4.390)	C04
2007	6CTA 8.3 (6.830)	C29
2014	6BTA 5.9 (6.590)	C16
2015	6BTA 5.9 (6.590)	C16
2016	6BTA 5.9 (6.590)	C16
2018	6CTA 8.3 (6.830)	C31
2021	4BT 3.9 (4.390)	C01
2022 Auto	6BTA 5.9 (6.590)	C13
2023 Auto	6BTA 5.9 (6.590)	C13
2024	6BTA 5.9 ISB	C18
2028	6CTA 8.3 (6.830)	C30
2049	6BT 5.9 (6.590)	C08
2050	6BTA 5.9 (6.590)	C09
2054	6CTA 8.3 (6.830)	C25
2055	6CTA 8.3 (6.830)	C29
2056	6CTA 8.3 (6.830)	C29
2057	6CTA 8.3 (6.830)	C29
2060	6CTA 8.3 (6.830)	C29
2061	6CTA 8.3 (6.830)	C29
2062	6CTA 8.3 (6.830)	C29
2063	6BTA 5.9 (6.590)	C17
2071	6BTA 5.9 (6.590)	C16
2076	6BTA 5.9 ISB	C18
2077	6BTA 5.9 ISB	C18
2082	6CTA 8.3 (6.830)	C29
2098	6BTA 5.9 ISB	C18
2100	6CT 8.3 (6.830)	C27
2101	6CTA 8.3 (6.830)	C31
2103	6CTA 8.3 (6.830)	C31
2106	6CTA 8.3 (6.830)	C31
2108	6CTA 8.3 (6.830)	C31
2109	4BTA 3.9 (4.390)	C06
2118	6CTA 8.3 (6.830)	C29
2120	6CTA 8.3 (6.830)	C29
2122	6BTA 5.9 (6.590)	C16
2142	4BTA 3.9 (4.390)	C06
2144	4BTA 3.9 (4.390)	C06
2146	6BTA 5.9 (6.590)	C16
2172 Marine	6CT 8.3 (6.830)	C28
2174	6BTA 5.9 (6.590)	C13
2175 Auto	6BT 5.9 (6.590)	C12
2185	6CTA 8.3 (6.830)	C29
2193	6CTA 8.3 (6.830)	C31
2194	6CTA 8.3 (6.830)	C31
2195 Auto	4BT 3.9 (4.390)	C04
2196	6CTA 8.3 (6.830)	C31
2216	6CTA 8.3 (6.830)	C29
2218	6CTA 8.3 (6.830)	C29
2243 Auto	6BT 5.9 (6.590)	C12
2249 Auto	6BT 5.9 (6.590)	C12
2252 Auto	6BT 5.9 (6.590)	C12
2253 Auto	6BT 5.9 (6.590)	C12
2264	4B 3.9 (4.390)	C07
2265	6BTA 5.9 (6.590)	C13
2268	6BTA 5.9 (6.590)	C13
2292	6BTA 5.9 (6.590)	C13
2296	6BTA 5.9 (6.590)	C16
2302	4BTA 3.9 (4.390)	C06
2303	6BTA 5.9 (6.590)	C16
2304 Auto	4BT 3.9 (4.390)	C04
2305 Auto	6BT 5.9 (6.590)	C12
2307	6CTA 8.3 (6.830)	C31
2308	6BTA 5.9 (6.590)	C13
2340	4BT 3.9 (4.390)	C01
2346	6BTA 5.9 (6.590)	C13
2347 Auto	6BT 5.9 (6.590)	C12
2349	6BTA 5.9 (6.590)	C13
2351	4BTA 3.9 (4.390)	C06
2359	4BTA 3.9 (4.390)	C06
2367	6CT 8.3 (6.830)	C27
2368	6CT 8.3 (6.830)	C27
2372	6BTA 5.9 (6.590)	C16
2373	6BTA 5.9 (6.590)	C16
2377	4BTA 3.9 (4.390)	C02
2380	6CTA 8.3 (6.830)	C25
2381	6CTA 8.3 (6.830)	C30
2383	6CTA 8.3 (6.830)	C30
2413	6BT 5.9 (6.590)	C08
2414	4BT 3.9 (4.390)	C01
2415	6BTA 5.9 ISB	C19
2417	6BTA 5.9 (6.590)	C16
2446	6BTA 5.9 ISB	C18
2447	6BTA 5.9 ISB	C18
2448	6BTA 5.9 ISB	C18
2478	4BTA 3.9 (4.390)	C06
2479	6BTA 5.9 (6.590)	C17
2495	6BTA 5.9 ISB	C19
2496	6BTA 5.9 ISB	C18
2497	6BTA 5.9 ISB	C18
2498	6BTA 5.9 ISB	C18
2512	6BTA 5.9 ISB	C18
2513	6BTA 5.9 ISB	C18
2514	6BTA 5.9 ISB	C18
2515	6BTA 5.9 ISB	C18
2516	6BTA 5.9 ISB	C18
2517	6BTA 5.9 ISB	C18
2518	6BTA 5.9 ISB	C18
2519	6BTA 5.9 ISB	C18
2528	4BTA 3.9 (4.390)	C06
2530	6BTA 5.9 (6.590)	C09
2531	6CT 8.3 (6.830)	C27
2532	6CTA 8.3 (6.830)	C31
2538	6BTA 5.9 (6.590)	C16
2556	6CTA 8.3 (6.830)	C31
2569	6BTA 5.9 ISB	C18
2570	6BTA 5.9 ISB	C18
2571	6BTA 5.9 ISB	C18
2595	6BTA 5.9 ISB	C18
2596	6BTA 5.9 ISB	C18
2597	6BTA 5.9 ISB	C18
2605	6BT 6.7 QSB	C23
2616	6BTA 5.9 ISB	C18
2617	6BTA 5.9 ISB	C18
2618	6BTA 5.9 ISB	C18
2619	6BTA 5.9 ISB	C18
2623	4BTA 3.9 (4.390)	C06
2642	6CTA 8.3 (6.830)	C29
2660	6BTA 5.9 ISB	C18
2661	6BTA 5.9 ISB	C18
2662	6BTA 5.9 ISB	C18
2663	6BTA 5.9 ISB	C18
2672	4BTA 3.9 (4.390)	C06
2685	6BTA 5.9 ISB	C18
2686	6BTA 5.9 ISB	C18
2687	6BTA 5.9 ISB	C18
2743	4BT 4.5 QSB	C21
2808	4BTA 3.9 (4.390)	C06
2833	6CTA 8.3 (6.830)	C29
2857	4BTA 3.9 (4.390)	C06
2865	6BTA 5.9 ISB	C18
2868	6BTA 5.9 (6.590)	C16
2874	6CTA 8.3 (6.830)	C29
2881	4BTA 3.9 (4.390)	C06
2891	6BTA 5.9 (6.590)	C09
2894	6CTA 8.3 (6.830)	C29
2902	6BTA 5.9 ISB	C18
2903	6BTA 5.9 ISB	C18
2904	6BTA 5.9 ISB	C18
2905	6BTA 5.9 ISB	C18
2906	6BTA 5.9 ISB	C19
2907	6BTA 5.9 ISB	C19
2960	6CT 8.3 (6.830)	C28
2995	6CT 8.3 (6.830)	C27
2996	6CT 8.3 (6.830)	C27
8030	6BTA 5.9 ISB	C18
8031	6BTA 5.9 ISB	C18
8032	6BTA 5.9 ISB	C18
8033	6BTA 5.9 ISB	C18
8034	6BTA 5.9 ISB	C19

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

Engine Application Chart by CPL (Control Parts List)

CPL	ENGINE MODEL	PAGE
8035	6BTA 5.9 ISB	C19
8039	4BT 3.9 QSB	C20
8085	6BTA 5.9 (6.590)	C17
8089	6CT 8.3 (6.830)	C28
8108	6BTA 5.9 (6.590)	C17
8146	6CT 8.3 (6.830)	C27
8186	6BT 5.9 QSB	C22
8187	6BT 5.9 QSB	C22
8208	6BTA 5.9 (6.590)	C17
8217	6BT 5.9 QSB	C22
8236	6BT 5.9 QSB	C22
8237	6BT 5.9 QSB	C22
8238	6BT 5.9 QSB	C22
8239	4BT 3.9 QSB	C20
8240	4BT 3.9 QSB	C20
8276	6BT 5.9 QSB	C22
8296	6BT 5.9 QSB	C22
8298	6BT 5.9 QSB	C22
8300	6BT 5.9 QSB	C22
8304	6BT 5.9 QSB	C22
8305	6BT 5.9 QSB	C22
8306	6BT 5.9 QSB	C22
8334	4BT 3.9 QSB	C20
8335	4BT 3.9 QSB	C20
8339	6BT 5.9 QSB	C22
8340	6BT 5.9 QSB	C22
8341	6BT 5.9 QSB	C22
8400	6BT 5.9 QSB	C22
8428	6BT 5.9 QSB	C22
8466	6BT 6.7 QSB	C23
8485	6BT 5.9 QSB	C22
8487	6BT 5.9 QSB	C22
8488	6BT 5.9 QSB	C22
8507	4BT 3.9 QSB	C20
8510	6BT 6.7 QSB	C23
8553	6BT 5.9 QSB	C22
8554	6BT 5.9 QSB	C22
8610	6BT 6.7 QSB	C23
8611	6BT 6.7 QSB	C23
8615	6BT 6.7 QSB	C23
8725	4BT 4.5 QSB	C21
8733	6BT 6.7 QSB	C23
8754	4BT 4.5 QSB	C21
8755	4BT 4.5 QSB	C21
8756	4BT 4.5 QSB	C21
9803	6CTA 8.3 (6.830)	C25
9820	6CT 8.3 (6.830)	C24
9883	6CTA 8.3 (6.830)	C25
40426	6BT 6.7 QSB	C23
40427	6BT 6.7 QSB	C23
40568	6BT 5.9 QSB	C22
40656	6BT 6.7 QSB	C23
41100	4BT 4.5 QSB	C21
41452	6BT 6.7 QSB	C23
41472	4BT 4.5 QSB	C21
41584	6BT 6.7 QSB	C23
41586	6BT 6.7 QSB	C23
41610	6BT 6.7 QSB	C23
41629	6BT 6.7 QSB	C23
41700	4BT 4.5 QSB	C21
41701	4BT 4.5 QSB	C21
41703	4BT 4.5 QSB	C21
42605	6BT 6.7 QSB	C23
42743	4BT 4.5 QSB	C21
42827	6BT 6.7 QSB	C23
43068	6BT 6.7 QSB	C23
43172	4BT 4.5 QSB	C21
43293	6BT 6.7 QSB	C23
43460	6BT 6.7 QSB	C23
43850	4BT 3.9 QSB	C20
43858	6BT 6.7 QSB	C23
43859	6BT 6.7 QSB	C23
43861	6BT 6.7 QSB	C23
43862	6BT 6.7 QSB	C23
44195	4BT 4.5 QSB	C21
44247	4BT 3.9 QSB	C20

CPL	ENGINE MODEL	PAGE

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

CASE - IH (Agricultural)

MODEL	DESCRIPTION	COMMENTS	PAGE
1640	Combine	PIN: JJC0034705 >	C09
1644	Combine	ESN 44937696 >	C09
1660	Combine		C24
1666	Combine	ESN 44706126 >	C24
1670	Combine	ESN > 44706125	C24
1670	Combine	ESN 44706126 >	C25
1680	Combine	ESN > 44706125	C24
1680	Combine	ESN 44706126 >	C25
1688	Combine		C25
1800	Cotton Harvester		C02
1822	Cotton Picker	PIN: JJC0012691 >	C09
1844	Cotton Picker	PIN JJ002462 >	C25
1896	Tractor		C08
2022	Cotton Picker		C09
2044	Cotton Picker	ESN > 44706125	C24
2044	Cotton Picker	ESN 44706126 >	C25
2055	Cotton Picker		C25
2096	Tractor		C09
2155	Cotton Picker	PIN > JJC0156230	C25
2166	Combine	PIN > JJC0180000	C24
2188	Combine	PIN > JJC0191483	C25
5120	Tractor	PISTON (m) 7163	C01
5120	Tractor	PISTON (m) 7156	C02
5130	Tractor		C10
5140	Tractor		C08
5150	Tractor		C02
5220	Tractor		C01
5230	Tractor		C10
5240	Tractor		C08
5250	Tractor		C08
6000	Windrower		C03
6500	Windrower		C03
6590	Tractor		C02
7110	Tractor		C24
7120	Tractor		C24
7130	Tractor		C24
7140	Tractor	ESN > 44706125	C24
7140	Tractor	ESN 44706126 >	C25
7150	Tractor	ESN > 44706125	C24
7150	Tractor	ESN 44706126 >	C25
7210	Tractor		C24
7220	Tractor	PIN > JJA0064978	C24
8820	Windrower		C03
8830	Windrower		C03
8840	Windrower		C01
8860	Windrower		C06
8870	Windrower		C06
9110	Tractor	ESN > 44706125	C24
9130	Tractor	ESN > 44706125	C24
9210	Tractor		C24
9230	Tractor	ESN > 44706125	C24

MODEL	DESCRIPTION	COMMENTS	PAGE
9230	Tractor	ESN 44706126 >	C25
9240	Tractor		C24
9240	Tractor	ESN 44706126 >	C25
9310	Tractor	PIN > JEE0036001	C24
9330	Tractor		C25

TEL 305.592.7027 800.414.2095, FAX 305.592.0244

Equipment Application Chart

CASE (Construction)

MODEL	DESCRIPTION	COMMENTS	PAGE
90 XT	Skid Loader	PIN >JAF 0245224	**C06**
95 XT	Skid Loader	PIN >JAF 0237963	**C06**
450C	Crawler	PISTON (m) 7163	**C01**
450C	Crawler	PISTON (m) 6223	**C03**
455C	Crawler	PISTON (m) 7163	**C01**
455C	Crawler	PISTON (m) 6223	**C03**
480E	Backhoe		**C03**
480E LL	Backhoe		**C03**
480F	Backhoe	PISTON (m) 6223	**C03**
480F LL	Backhoe	PISTON (m) 6223	**C03**
550	Crawler	PISTON (m) 7163	**C01**
550	Crawler	PISTON (m) 6223	**C03**
550E	Crawler	PISTON (m) 7163	**C01**
550E	Crawler	PISTON (m) 6223	**C03**
550G	Crawler	PISTON (m) 7163	**C01**
570 LXT	Series 2	PISTON (m) 8673	**C06**
570LXT	Backhoe	PISTON (m) 7163	**C01**
580K	Backhoe	PISTON (m) 7163	**C01**
580K	Backhoe	PISTON (m) 6223	**C03**
580L	Backhoe	PISTON (m) 7163	**C01**
580L	Series 2	PISTON (m) 8673	**C06**
580SE	Backhoe	PISTON (m) 7163	**C01**
580SE	Backhoe	PISTON (m) 6223	**C03**
580SK	Backhoe	PISTON (m) 7163	**C01**
580SK	Backhoe	PISTON (m) 6223	**C03**
580SL	Backhoe		**C01**
584E	Forklift		**C03**
585E	Forklift		**C03**
586E	Forklift		**C03**
590SL	Backhoe	PISTON (m) 7163	**C01**
590SL	Series 2	PISTON (m) 8673	**C06**
621	Wheel Loader		**C08**
621B	Wheel Loader		**C08**
650G	Crawler	PISTON (m) 7163	**C01**
650G	Crawler	PISTON (m) 8673	**C06**
660	Trencher		**C03**
688	Excavator		**C01**
680K	Backhoe		**C10**
680L	Backhoe		**C08**
680L	Backhoe		**C10**
6830TA	Power Unit		**C25**
686G	Telescopic Handler		**C06**
686GXR	Telescopic Handler		**C06**
721	Loader		**C24**
721B	Loader	PIN > JEE053200	**C24**
760	Trencher		**C03**
780C	Backhoe		**C08**
780D	Backhoe		**C08**
821	Loader		**C24**
821B	Loader	PIN > JEE050601	**C24**
850D	Crawler	PISTON (m) 7163	**C08**
850D	Crawler	PISTON (m) 6223	**C10**
850E	Crawler	PISTON (m) 7163	**C08**
850E	Crawler	PISTON (m) 6223	**C10**
855D	Crawler	PISTON (m) 7163	**C08**
855D	Crawler	PISTON (m) 6223	**C10**
855E	Crawler	PISTON (m) 7163	**C08**
855E	Crawler	PISTON (m) 6223	**C10**
855G	Crawler	PISTON (m) 7163	**C08**
860	Trencher		**C01**
880D	Crawler		**C08**
888	Excavator		**C08**
1085B	Excavator		**C08**
1085C	Excavator		**C08**
1086B	Excavator		**C08**
1088	Excavator		**C08**
1150E	Excavator		**C08**
1150E	Crawler		**C24**
1150G	Excavator		**C08**
1155E	Excavator		**C08**
1155E	Crawler		**C24**
1187C	Excavator	ESN > 44706125	**C24**
1550	Crawler	ESN > 44706125	**C24**
1840	Skid Steer Loader		**C03**
1845C	Early Skid Steer Loader		**C03**
4000V	Skid Steer		**C21**
8850	Windrower		**C08**
9010	Crawler		**C01**
9010B	Excavator	PIN >DAC01#2001	**C02**
9010B	Excavator	PIN >DAC01#2001	**C06**
9020	Excavator	PIN >DAC01#2001	**C02**
9020B	Excavator	PIN >DAC01#2001	**C06**
9030	Excavator		**C08**
9030B	Excavator		**C08**
9040	Excavator		**C24**
9040B	Excavator	PIN > DAC4#2001	**C24**
V400	Skid Steer		**C21**
W11B	Wheel Loader		**C01**
W14B	Wheel Loader	PISTON (m) 7163	**C08**
W14B	Wheel Loader	PISTON (m) 6223	**C10**
W14C	Wheel Loader	PISTON (m) 7163	**C08**
W14C	Wheel Loader	PISTON (m) 6223	**C10**
W36	Loader		**C24**

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

4BT 3.9

(CDC 4.390)

TURBOCHARGED

NON - EMISSION
239 Cubic Inch

Piston Std (m): 7163

CUMMINS CPL's

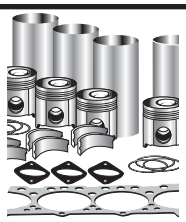
690	817	1202	1631
727	857	1268	1659
730	858	1277	2021
762	971	1287	2340
763	1201	1508	2414

CASE-IH (Agricultural)

5120	Tractor
5220	"
8840	Windrower

CASE (Construction)

450C	Crawler
455C	"
550	"
550E	"
550G	"
570LXT	Backhoe
580K	"
580L	"
580SE	"
580SK	"
580SL	"
590SL	"
650G	Crawler
688	Excavator
860	Trencher
9010	Crawler
W11B	Wheel Loader

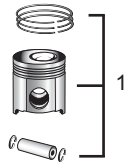


Eng. O/H & I/F Kit

COK2160/4 Std.
COK2132/4 0.50 mm
COK2134/4 1.00 mm

COK2160F/4 Std. ●
COK2132F/4 0.50 mm ●
COK2134F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK

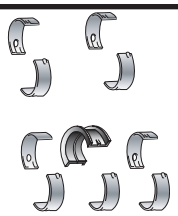


1) Piston Kit
2) Repair Sleeve

1) C3802160 **Std.**
C3802132 **0.50 mm**
C3802134 **1.00 mm**

Use 4

2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



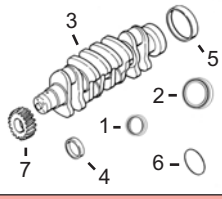
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

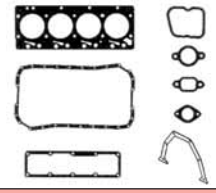
*** Piston Kit consists of:**

1) **1** C3907163 Piston Std, **1** C3802230 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3908815 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3908816 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



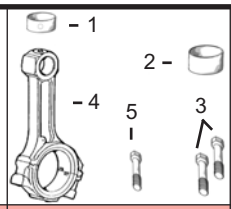
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



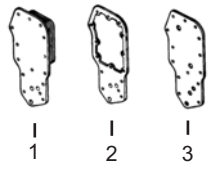
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x8***
4) C3901569 **(7)**
C4943979 **(8)**
5) C3944593



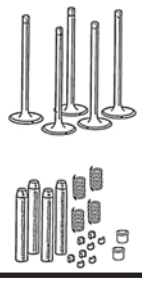
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 **(9)**
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket
Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

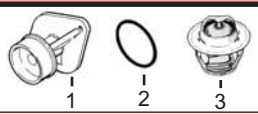
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

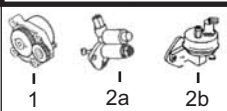
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** **(5)**
C3957912 ***x8*** **(6)**
3) C3900299 ***x8*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 **(4)**
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

4BTA 3.9

(CDC 4.390)

TURBOCHARGED AFTERCOOLED

NON - EMISSION
239 Cubic Inch

Piston Std (m): 7156

CUMMINS CPL's

594	826	1521
595	937	1525
696	961	1526
710	1173	2377
711	1278	
741 *	1520	

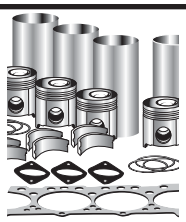
* Marine Engine

CASE-IH (Agricultural)

1800	Cotton Harvester
5120	Tractor
5150	"
6590	"

CASE (Construction)

9010B Excavator,
(PIN: >DAC01#2001)
9020 Excavator,
(PIN: >DAC01#2001)

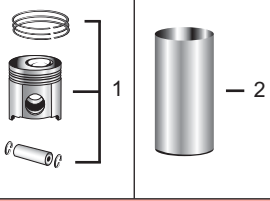


Eng. O/H & I/F Kit

COK2100/4 Std.
COK2102/4 0.50 mm
COK2104/4 1.00 mm

COK2100F/4 Std. ●
COK2102F/4 0.50 mm ●
COK2104F/4 1.00 mm ●

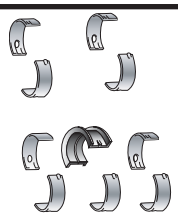
To order an In-Frame Kit change OK to IK



1) Piston Kit
2) Repair Sleeve

1) C3802100 **Std.**
C3802102 **0.50 mm**
C3802104 **1.00 mm**
Use 4

2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



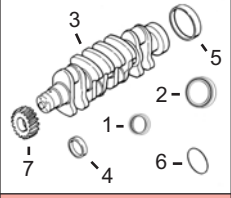
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

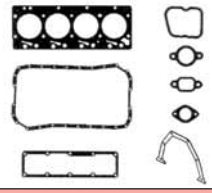
*** Piston Kit consists of:**

1) **1** C3907156 Piston Std, **1** C3802230 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3907157 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3907158 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



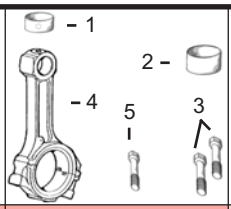
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



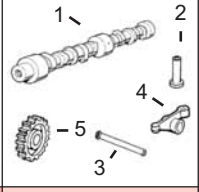
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



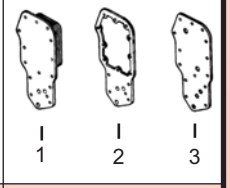
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x8***
4) C3901569 **(7)**
C4943979 **(8)**
5) C3944593



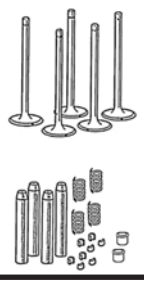
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

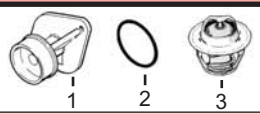
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

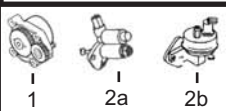
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** **(5)**
C3957912 ***x8*** **(6)**
3) C3900299 ***x8*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 **(4)**
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

4B 3.9

(CDC 4.390)

NATURALLY ASPIRATED

NON - EMISSION
239 Cubic Inch

Piston Std (m): 6223

CUMMINS CPL's

591 *	843	1312
681	895	1522
721 *	981	1932
725	1172	
791	1259	

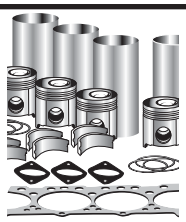
* Marine Application

CASE-IH (Agricultural)

6000	Windrower
6500	"
8820	"
8830	"

CASE (Construction)

450C	Crawler
455C	"
480E	Backhoe
480E LL	"
480F	"
480F LL	"
550	Crawler
550E	"
580K	Backhoe
580SE	"
580SK	"
584E	Forklift
585E	"
586E	"
660	Trencher
760	"
1840	Skid Steer Loader
1845C Early	"

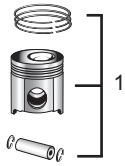


Eng. O/H & I/F Kit

COK2060/4 Std.
COK2062/4 0.50 mm
COK2064/4 1.00 mm

COK2060F/4 Std. ●
COK2062F/4 0.50 mm ●
COK2064F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK



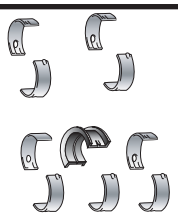
1) Piston Kit
2) Repair Sleeve

1) C3802060 **Std.**
C3802062 **0.50 mm**
C3802064 **1.00 mm**

Use 4

2) C3904166





Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



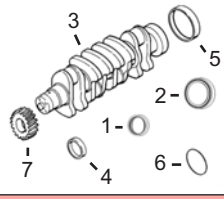
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

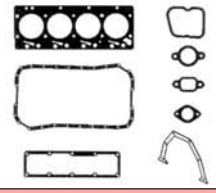
*** Piston Kit consists of:**

1) **1** C3906223 Piston Std, **1** C3802040 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3906209 Piston 0.50 mm, **1** C3802042 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3906208 Piston 1.00 mm, **1** C3802044 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



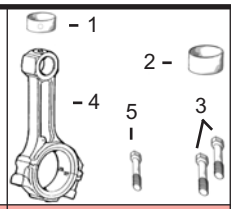
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



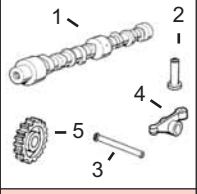
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



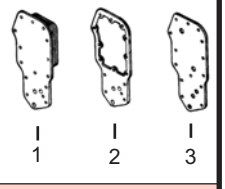
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x8***
4) C3901569 **(7)**
C4943979 **(8)**
5) C3944593



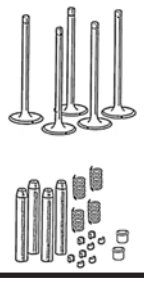
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 **(9)**
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

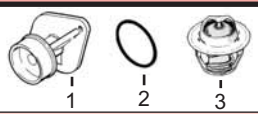
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

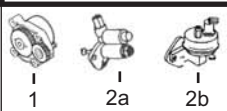
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** **(5)**
C3957912 ***x8*** **(6)**
3) C3900299 ***x8*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 **(4)**
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

4BT 3.9

TURBOCHARGED

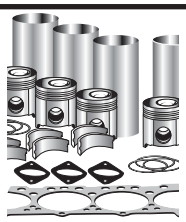
EMISSION
239 Cubic Inch

Piston Std (m): 6632

AUTOMOTIVE

CUMMINS CPL's

1839
2001
2195
2304

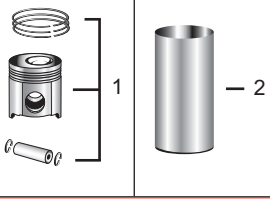


Eng. O/H & I/F Kit

COK2562/4 Std.
COK2564/4 0.50 mm
COK2565/4 1.00 mm

COK2562F/4 Std. ●
COK2564F/4 0.50 mm ●
COK2565F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK



1) Piston Kit
2) Repair Sleeve

1) C3802562 **Std.**
C3802564 **0.50 mm**
C3802565 **1.00 mm**

Use 4

2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



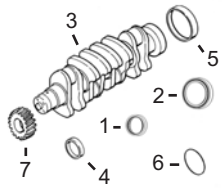
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

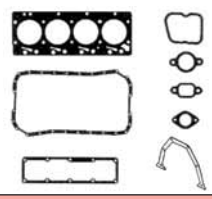
*** Piston Kit consists of:**

1) **1** C3926632 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3926634 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3926635 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



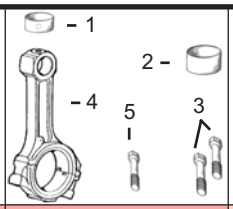
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



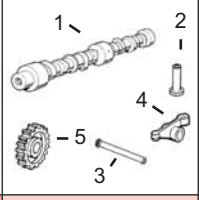
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



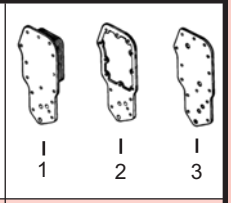
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** (3)
3) C3900919 ***x8***
4) C3901569 (7)
C4943979 (8)
5) C3944593



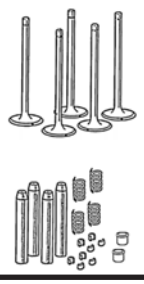
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 (9)
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

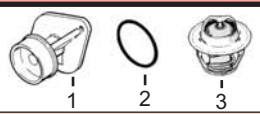
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

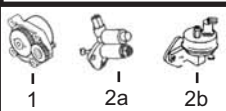
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** (5)
C3957912 ***x8*** (6)
3) C3900299 ***x8*** (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 (4)
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

4BTA 3.9

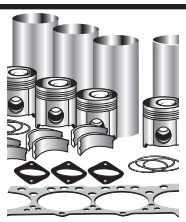
TURBOCHARGED AFTERCOOLED

EMISSION
239 Cubic Inch

Piston Std (m): 9041

CUMMINS CPL's

986
1260

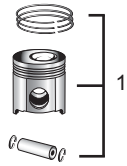


Eng. O/H & I/F Kit

COK2248/4 Std.
COK2249/4 0.50 mm
COK2250/4 1.00 mm

COK2248F/4 Std. ●
COK2249F/4 0.50 mm ●
COK2250F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK



1) Piston Kit
2) Repair Sleeve

1) C3802248 **Std.**
C3802249 **0.50 mm**
C3802250 **1.00 mm**

Use 4

2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



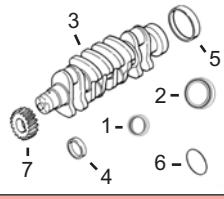
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

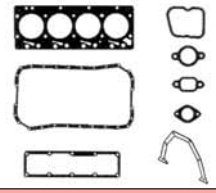
*** Piston Kit consists of:**

1) **1** C3919041 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3919044 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3919045 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



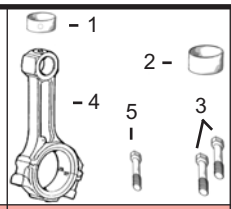
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



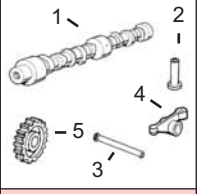
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



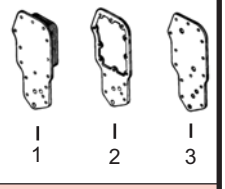
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x8***
4) C3901569 **(7)**
C4943979 **(8)**
5) C3944593



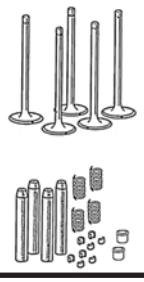
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 **(9)**
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

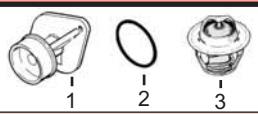
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

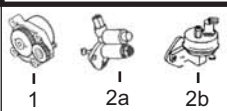
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** **(5)**
C3957912 ***x8*** **(6)**
3) C3900299 ***x8*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 **(4)**
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

4BTA 3.9

(CDC 4.390)

TURBOCHARGED AFTERCOOLED

EMISSION
239 Cubic Inch

Piston Std (m): 8673

CUMMINS CPL's

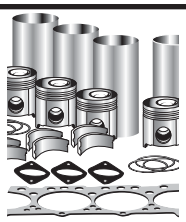
1965	2302	2672
1966	2351	2808
1967	2359	2857
2109	2478	2881
2142	2528	
2144	2623	

CASE-IH (Agricultural)

8860	Windrower
8870	"

CASE (Construction)

90 XT	Skid Loader, (PIN: >JAF 0245224)
95 XT	Skid Loader, (PIN: >JAF 0237963)
570 LXT	Series 2
580 L	"
590 SL	"
650 G	Crawler
686 G	Telescopic Handler
686 GXR	"
9010 B	Excavator, (PIN: >DAC01#2001)
9020 B	Excavator, (PIN: >DAC01#2001)

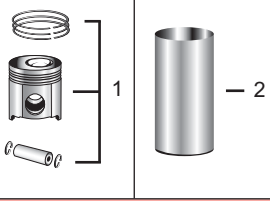


Eng. O/H & I/F Kit

COK2747/4 Std.
COK2764/4 0.50 mm
COK2765/4 1.00 mm

COK2747F/4 Std. ●
COK2764F/4 0.50 mm ●
COK2765F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK



1) Piston Kit
2) Repair Sleeve

1) C3802747 **Std.**
C3802764 **0.50 mm**
C3802765 **1.00 mm**

Use 4

2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



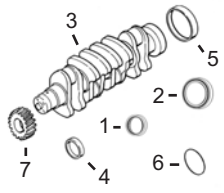
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

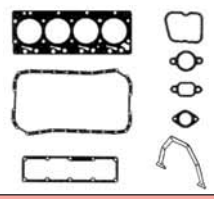
*** Piston Kit consists of:**

1) **1** C3928673 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3928674 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3928675 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



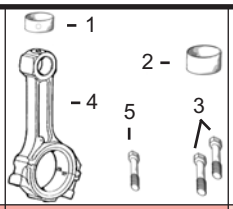
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



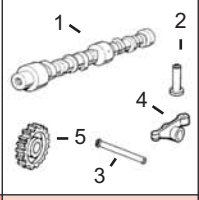
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



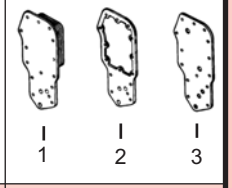
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x8***
4) C3901569 **(7)**
C4943979 **(8)**
5) C3944593



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 **(9)**
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

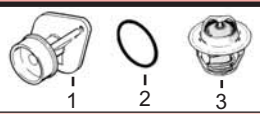
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

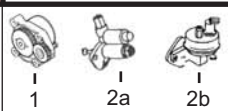
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x8***
2) C3921640 ***x8*** **(5)**
C3957912 ***x8*** **(6)**
3) C3900299 ***x8*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 **(4)**
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

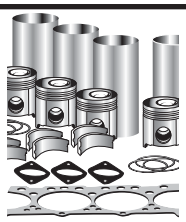
4BT 3.9

TURBOCHARGED

Piston Std (m): 0187

CUMMINS CPL's

1963
2264

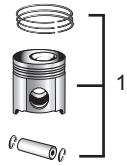


Eng. O/H & I/F Kit

COK2757/4 Std.
COK2758/4 0.50 mm
COK2759/4 1.00 mm

COK2757F/4 Std. ●
COK2758F/4 0.50 mm ●
COK2759F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK





1) Piston Kit
2) Repair Sleeve

1) C3802757 Std.
C3802758 0.50 mm
C3802759 1.00 mm

Use 4

2) C3904166



Main Bearing Set

C3802010 Std.
C3802011 0.25 mm
C3802012 0.50 mm
C3802013 0.75 mm

Use 1



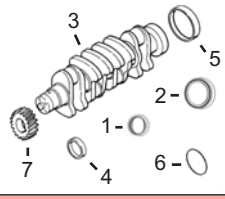
Con Rod Bearing

C3901170 Std.
C3901171 0.25 mm
C3901172 0.50 mm
C3901173 0.75 mm

C4893693 Std. ●
C4892795 0.25 mm ●
C4892796 0.50 mm ●
C4892797 0.75 mm ●

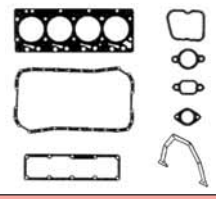
*** Piston Kit consists of:**

1) **1** C3930187 Piston Std, **1** C3802750 Ring Set Std, **1** C3934047 Piston Pin, **2** C3920691 Ret.
2) **1** C3930188 Piston 0.50 mm, **1** C3802863 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.
3) **1** C3930189 Piston 1.00 mm, **1** C3802864 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.



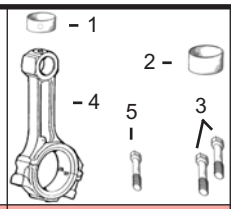
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



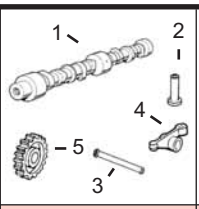
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3804896
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131
7) C3928493



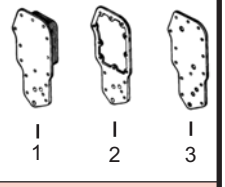
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 *x4*
2) C3901306 *x1* (3)
3) C3900919 *x8*
4) C3901569 (7)
C4943979 (8)
5) C3944593



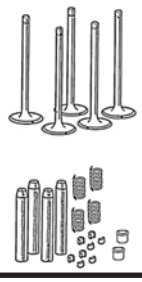
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 (9)
2) C3925031
3) C3904679
4) C3910811 *x4*
C3910810 *x4*
5) C3907431



1) Oil Cooler 5 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake, Valve Kit
2) Insert, Valve

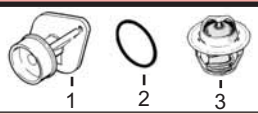
1) C3802355 Kit
Consists of:
C3901117 Valve *X1*
C3900250 Collet *X2*
2) C3906854
Use 4

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve *X1*
C3900250 Collet *X2*
2) C3904105
Use 4

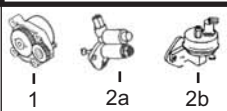
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 *x8*
2) C3921640 *x8* (5)
C3957912 *x8* (6)
3) C3900299 *x8* (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926202
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3920005 (4)
2) C3920779 *x4*
C3920780 *x10*

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Machine split connecting rod.
(8) Fracture split connecting rod.
(9) Use ESN or application model to confirm correct camshaft.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BT 5.9

(CDC 6.590)

TURBOCHARGED

NON - EMISSION
359 Cubic Inch

Piston Std (m): 7163

CUMMINS CPL's

597	938	1163	1288
692	943	1168	1289 *
716	947	1189	1440
729	948	1207	1627
761	949	1245	1685
804	950	1246	2049
807	994	1266	2413
856	1160	1279	

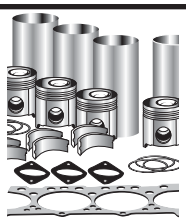
* Marine Engine

CASE-IH (Agricultural)

1896	Tractor
5140	"
5240	"
5250	"

CASE (Construction)

621/B	Wheel Loader
680L	Backhoe
780C/D	"
850D/E	Crawler
855D/E/G	"
880D	"
888	Excavator
1085B/C	"
1086B	"
1088	"
1150E/G	"
1155E	"
8850	Windrower
9030/B	Excavator
W14B/C	Wheel Loader

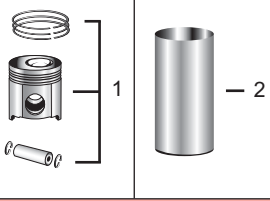


Eng. O/H & I/F Kit

COK2160/6 Std.
COK2132/6 0.50 mm
COK2134/6 1.00 mm

COK2160F/6 Std. ●
COK2132F/6 0.50 mm ●
COK2134F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

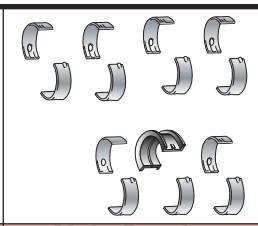


1) Piston Kit
2) Repair Sleeve

1) C3802160 **Std.**
C3802132 **0.50 mm**
C3802134 **1.00 mm**

Use 6

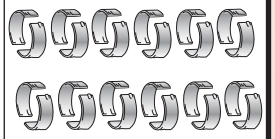
2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



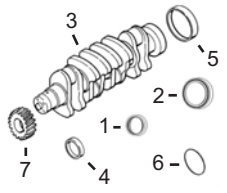
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

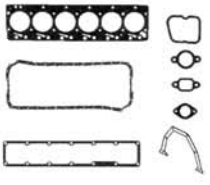
*** Piston Kit consists of:**

1) **1** C3907163 Piston Std, **1** C3802230 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3908815 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3908816 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



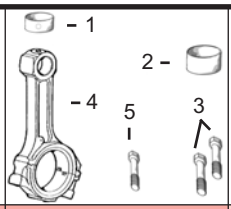
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 **(7)**
5) C3902666
6) C3916131
7) C3928493



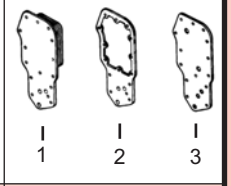
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x12***
4) C3901569 **(8)**
C4943979 **(8)**
5) C3944593



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

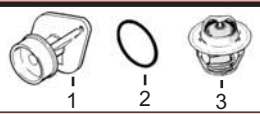
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

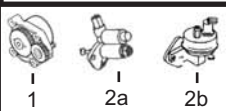
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** **(5)**
C3957912 ***x12*** **(6)**
3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BTA 5.9

(CDC 6.590)

TURBOCHARGED AFTERCOOLED

NON - EMISSION
359 Cubic Inch

Piston Std (m): 7156

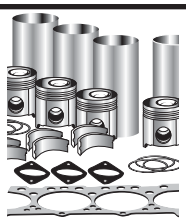
CUMMINS CPL's

599	792	983	1523
600	834	998	1524
698	912	1174	1581
712	940	1209	2050
715	961	1518	2530
742 *	962	1519	2891

* Marine Engine

CASE-IH (Agricultural)

1640 Combine,
(PIN: JJC0034705 >)
1644 Combine,
(ESN 44937696 >)
1822 Cotton Picker,
(PIN: JJC0012691 >)
2022 Cotton Picker
2096 Tractor

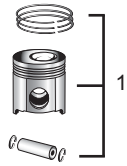


Eng. O/H & I/F Kit

COK2100/6 Std.
COK2102/6 0.50 mm
COK2104/6 1.00 mm

COK2100F/6 Std. ●
COK2102F/6 0.50 mm ●
COK2104F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

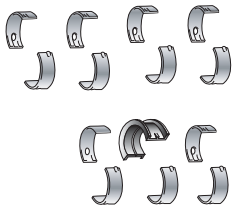


1) Piston Kit
2) Repair Sleeve

1) C3802100 **Std.**
C3802102 **0.50 mm**
C3802104 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



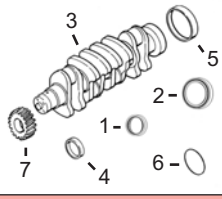
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

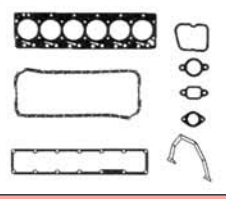
*** Piston Kit consists of:**

1) **1** C3907156 Piston Std, **1** C3802230 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3907157 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3907158 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



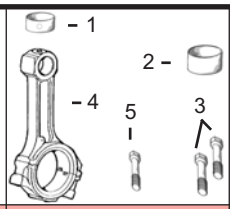
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 (7)
5) C3902666
6) C3916131
7) C3928493



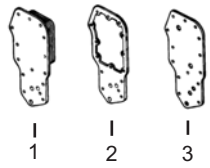
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** (3)
3) C3900919 ***x12***
4) C3901569 (8)
C4943979 (8)
5) C3944593



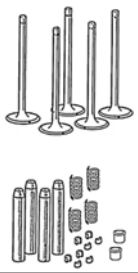
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

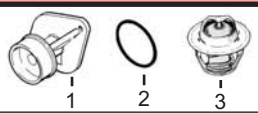
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

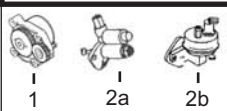
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** (5)
C3957912 ***x12*** (6)
3) C3900299 ***x12*** (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 (4)
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6B 5.9

(CDC 6.590)

NATURALLY ASPIRATED

NON - EMISSION
359 Cubic Inch

Piston Std (m): 6223

CUMMINS CPL's

596	802	1320
691	845	1403
714 *	960	1433
791 *	999	

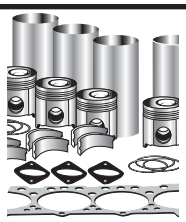
* Marine Engine

CASE-IH (Agricultural)

5130	Tractor
5230	"

CASE (Construction)

680K/L	Backhoe
850D/E	Crawler
855D/E	"
W14B/C	Wheel Loader

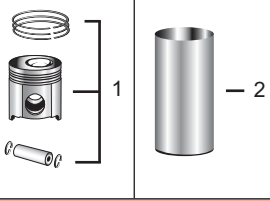


Eng. O/H & I/F Kit

COK2060/6 Std.
COK2062/6 0.50 mm
COK2064/6 1.00 mm

COK2060F/6 Std. ●
COK2062F/6 0.50 mm ●
COK2064F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

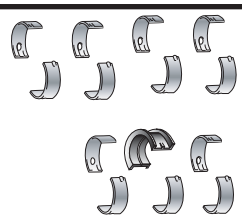


1) Piston Kit
2) Repair Sleeve

1) C3802060 **Std.**
C3802062 **0.50 mm**
C3802064 **1.00 mm**

Use 6

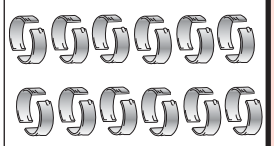
2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



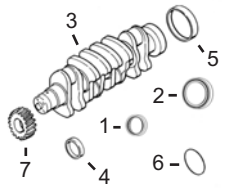
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

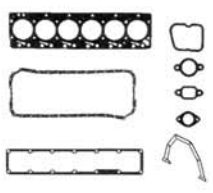
*** Piston Kit consists of:**

1) **1** C3906223 Piston Std, **1** C3802040 Ring Set Std, **1** C3901793 Piston Pin, **2** C3901706 Ret.
2) **1** C3906209 Piston 0.50 mm, **1** C3802042 Ring Set 0.50 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.
3) **1** C3906208 Piston 1.00 mm, **1** C3802044 Ring Set 1.00 mm, **1** C3901793 Piston Pin, **2** C3901706 Ret.



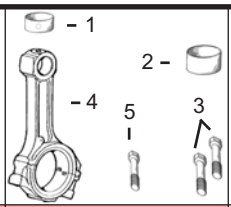
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 **(7)**
5) C3902666
6) C3916131
7) C3928493



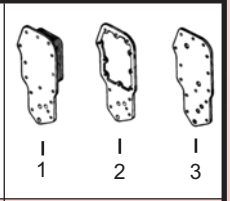
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x12***
4) C3901569 **(8)**
C4943979 **(8)**
5) C3944593



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

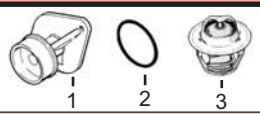
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

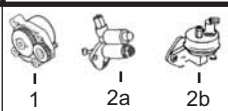
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** **(5)**
C3957912 ***x12*** **(6)**
3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BT 5.9

(CDC 6.590)

TURBOCHARGED

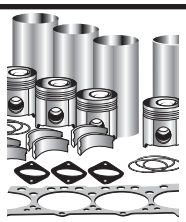
NON - EMISSION
359 Cubic Inch

Piston Std (m): 1400

CUMMINS CPL's

953 *
970 *
1165
1247 *
1313
1322 *
1570 *
1613 *
1638
1928 *

* Marine Engines

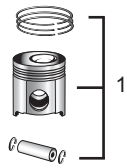


Eng. O/H & I/F Kit

COK1400/6 Std.
COK2049/6 0.50 mm
COK2050/6 1.00 mm

COK1400F/6 Std. ●
COK2049F/6 0.50 mm ●
COK2050F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

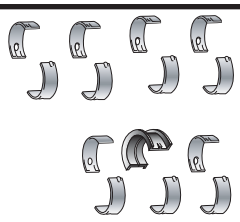


1) Piston Kit
2) Repair Sleeve

1) C3802170 **Std.**
C3802172 **0.50 mm**
C3802174 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



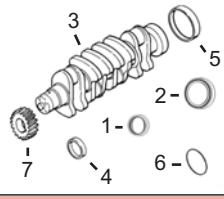
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

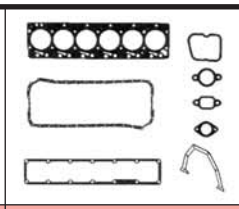
*** Piston Kit consists of:**

1) **1** C3911400 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3912049 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3912050 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



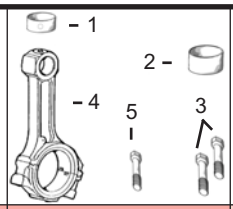
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



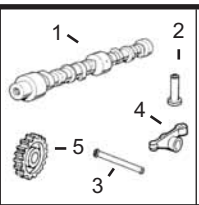
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 (7)
5) C3902666
6) C3916131
7) C3928493



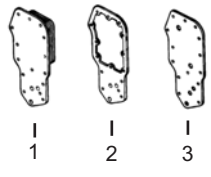
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** (3)
3) C3900919 ***x12***
4) C3901569 (8)
C4943979 (8)
5) C3944593



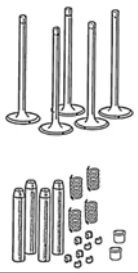
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

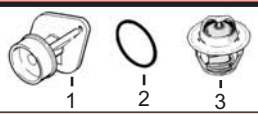
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

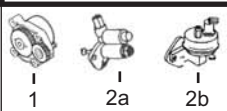
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** (5)
C3957912 ***x12*** (6)
3) C3900299 ***x12*** (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 (4)
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BT 5.9

TURBOCHARGED

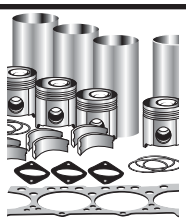
EMISSION
359 Cubic Inch

Piston Std (m): 6632

AUTOMOTIVE

CUMMINS CPL's

1551	1915	2249
1552	1916	2252
1553	2000	2253
1888	2175	2305
1895	2243	2347
1914		

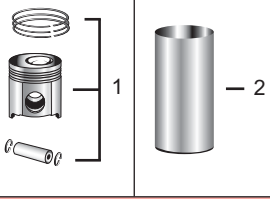


Eng. O/H & I/F Kit

COK2562/6 Std.
COK2564/6 0.50 mm
COK2565/6 1.00 mm

COK2562F/6 Std. ●
COK2564F/6 0.50 mm ●
COK2565F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

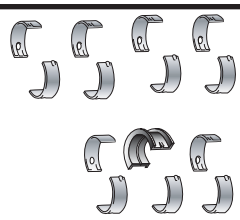


1) Piston Kit
2) Repair Sleeve

1) C3802562 **Std.**
C3802564 **0.50 mm**
C3802565 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



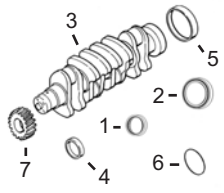
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

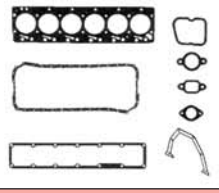
*** Piston Kit consists of:**

1) **1** C3926632 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3926634 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3926635 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



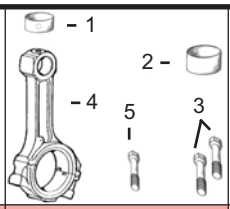
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



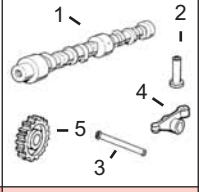
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 **(7)**
5) C3902666
6) C3916131
7) C3928493



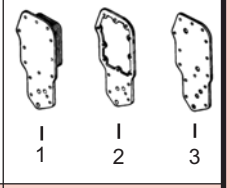
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x12***
4) C3901569 **(8)**
C4943979 **(8)**
5) C3944593



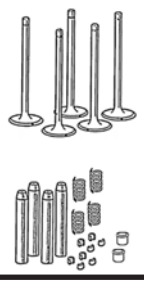
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431

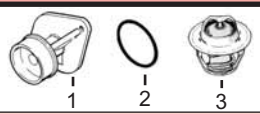


1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792

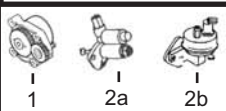


Guide, Valve	1) Intake,Valve Kit 2) Insert, Valve	1) Exhaust,Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Retainer, Valve
C3904408 **Thick W. 60.50 mm IN** C3904409 **Thick W. 51.75 mm EX** C3906206 **(1)** **Thin Wall**	1) C3802355 Kit Consists of: C3901117 Valve ***X1*** C3900250 Collet ***X2*** 2) C3906854 **Use 6**	1) C3802356 Kit Consists of: C3901607 Valve ***X1*** C3900250 Collet ***X2*** 2) C3904105 **Use 6**	1) C3900276 ***x12*** 2) C3921640 ***x12*** **(5)** C3957912 ***x12*** **(6)** 3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BTA 5.9

TURBOCHARGED AFTERCOOLED

EMISSION
359 Cubic Inch

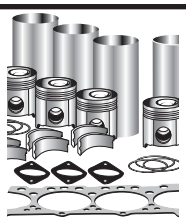
Piston Grade A (m): 2571

Grades B & C are not offered by Maxiforce

CUMMINS CPL's

1549	2023 *
1550	2174
1815	2265
1816	2268
1863	2292
1901	2308
1959	2346
1968	2349
2022 *	

* Automotive Engines

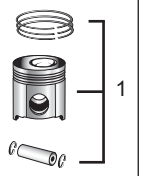


Eng. O/H & I/F Kit

COK2487/6 Std.
COK2493/6 0.50 mm
COK2495/6 1.00 mm

COK2487F/6 Std. ●
COK2493F/6 0.50 mm ●
COK2495F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

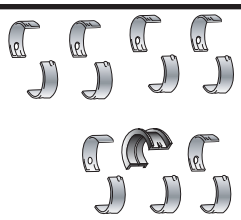


1) Piston Kit
2) Repair Sleeve

1) C3802487 **Std.**
C3802493 **0.50 mm**
C3802495 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



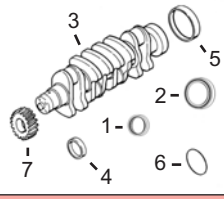
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

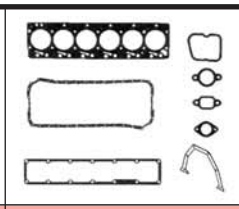
*** Piston Kit consists of:**

1) **1** C3922571 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3922574 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3922575 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



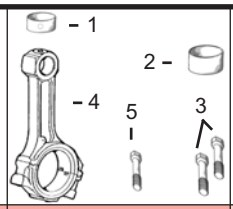
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 (7)
5) C3902666
6) C3916131
7) C3928493



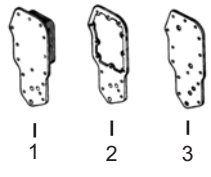
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** (3)
3) C3900919 ***x12***
4) C3901569 (8)
C4943979 (8)
5) C3944593



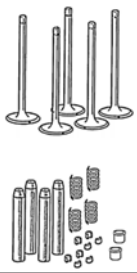
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

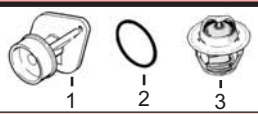
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

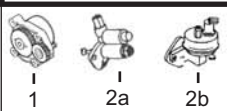
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** (5)
C3957912 ***x12*** (6)
3) C3900299 ***x12*** (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 (4)
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BTA 5.9

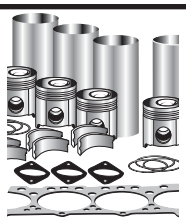
TURBOCHARGED AFTERCOOLED

EMISSION
359 Cubic Inch

Piston Std (m): 7619

CUMMINS CPL's

987
1261
1422
1527

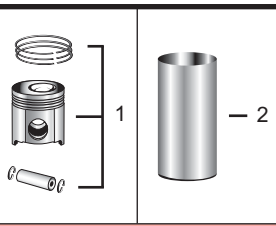


Eng. O/H & I/F Kit

COK2251/6 Std.
COK2252/6 0.50 mm
COK2253/6 1.00 mm

COK2251F/6 Std. ●
COK2252F/6 0.50 mm ●
COK2253F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

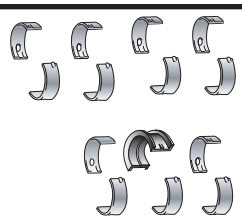


1) Piston Kit
2) Repair Sleeve

1) C3802251 **Std.**
C3802252 **0.50 mm**
C3802253 **1.00 mm**

Use 6

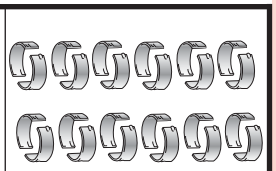
2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



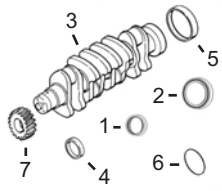
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

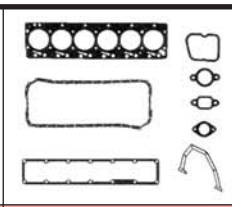
*** Piston Kit consists of:**

1) **1** C3917619 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3919047 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3919048 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



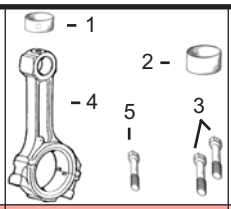
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



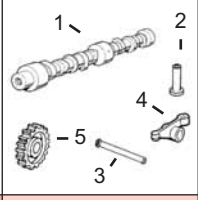
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 **(7)**
5) C3902666
6) C3916131
7) C3928493



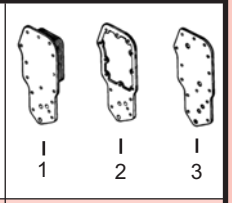
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x12***
4) C3901569 **(8)**
C4943979 **(8)**
5) C3944593



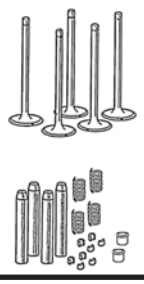
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

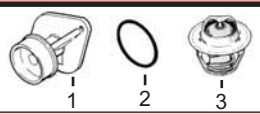
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

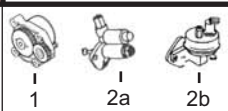
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** **(5)**
C3957912 ***x12*** **(6)**
3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BTA 5.9

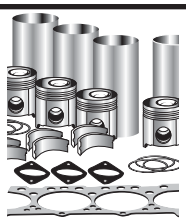
TURBOCHARGED AFTERCOOLED

EMISSION
359 Cubic Inch

Piston Std (m): 9041

CUMMINS CPL's

1351
1579

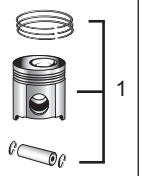


Eng. O/H & I/F Kit

COK2248/6 Std.
COK2249/6 0.50 mm
COK2250/6 1.00 mm

COK2248F/6 Std. ●
COK2249F/6 0.50 mm ●
COK2250F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

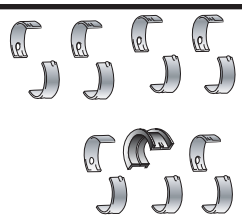


1) Piston Kit
2) Repair Sleeve

1) C3802248 **Std.**
C3802249 **0.50 mm**
C3802250 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



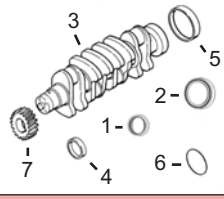
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

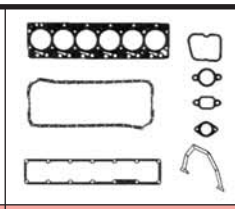
*** Piston Kit consists of:**

1) **1** C3919041 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3919044 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3919045 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



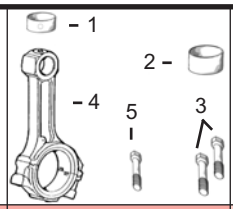
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



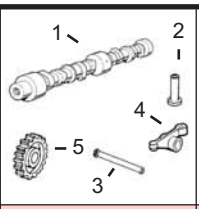
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 (7)
5) C3902666
6) C3916131
7) C3928493



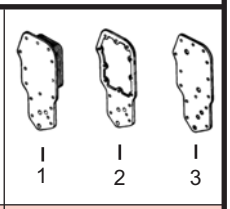
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** (3)
3) C3900919 ***x12***
4) C3901569 (8)
C4943979 (8)
5) C3944593



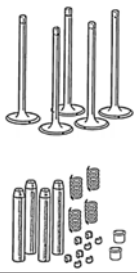
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

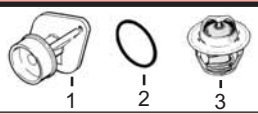
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

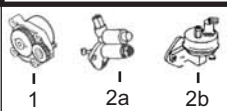
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** (5)
C3957912 ***x12*** (6)
3) C3900299 ***x12*** (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 (4)
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BTA 5.9

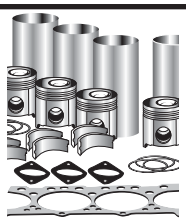
TURBOCHARGED AFTERCOOLED

EMISSION
359 Cubic Inch

Piston Std (m): 8673

CUMMINS CPL's

1902 2146
1948 2296
1961 2303
1962 2372
2014 2373
2015 2417
2016 2538
2071 2868
2122

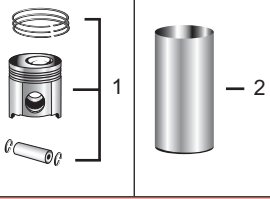


Eng. O/H & I/F Kit

COK2747/6 Std.
COK2764/6 0.50 mm
COK2765/6 1.00 mm

COK2747F/6 Std. ●
COK2764F/6 0.50 mm ●
COK2765F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK

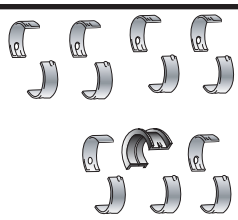


1) Piston Kit
2) Repair Sleeve

1) C3802747 **Std.**
C3802764 **0.50 mm**
C3802765 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



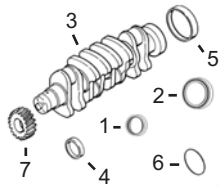
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

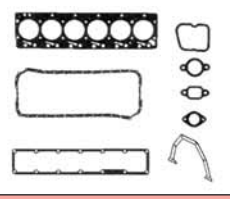
*** Piston Kit consists of:**

1) **1** C3928673 Piston Std, **1** C3802230 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3928674 Piston 0.50 mm, **1** C3802232 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3928675 Piston 1.00 mm, **1** C3802234 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



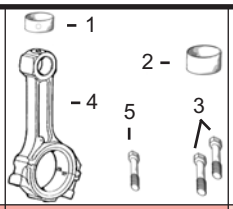
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



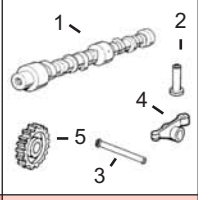
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 **(7)**
5) C3902666
6) C3916131
7) C3928493



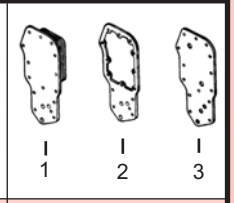
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3901306 ***x1*** **(3)**
3) C3900919 ***x12***
4) C3901569 **(8)**
C4943979 **(8)**
5) C3944593



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

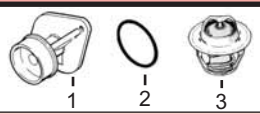
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

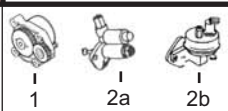
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 ***x12***
2) C3921640 ***x12*** **(5)**
C3957912 ***x12*** **(6)**
3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

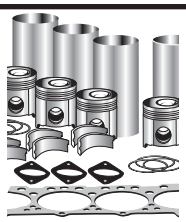
6BTA 5.9

TURBOCHARGED AFTERCOOLED

Piston Std (m): 0187

CUMMINS CPL's

1889
2063
2479
8085
8108
8208

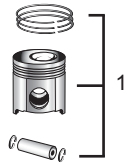


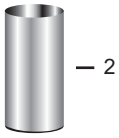
Eng. O/H & I/F Kit

COK2757/6 Std.
COK2758/6 0.50 mm
COK2759/6 1.00 mm

COK2757F/6 Std. ●
COK2758F/6 0.50 mm ●
COK2759F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK



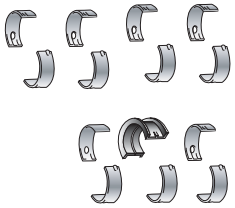


1) Piston Kit
2) Repair Sleeve

1) C3802757 Std.
C3802758 0.50 mm
C3802759 1.00 mm

Use 6

2) C3904166



Main Bearing Set

C3802070 Std.
C3802071 0.25 mm
C3802072 0.50 mm
C3802073 0.75 mm

Use 1



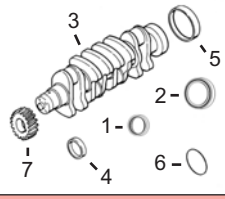
Con Rod Bearing

C3901170 Std.
C3901171 0.25 mm
C3901172 0.50 mm
C3901173 0.75 mm

C4893693 Std. ●
C4892795 0.25 mm ●
C4892796 0.50 mm ●
C4892797 0.75 mm ●

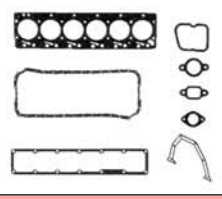
*** Piston Kit consists of:**

1) **1** C3930187 Piston Std, **1** C3802750 Ring Set Std, **1** C3934047 Piston Pin, **2** C3920691 Ret.
2) **1** C3930188 Piston 0.50 mm, **1** C3802863 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.
3) **1** C3930189 Piston 1.00 mm, **1** C3802864 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.



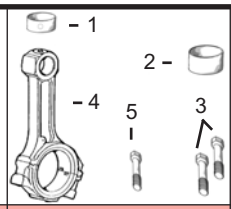
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



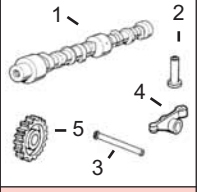
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk
7) Rear Cover Gsk

1) C3802363
2) C3802376
3) C3921394
4) C3931346 (7)
5) C3902666
6) C3916131
7) C3928493



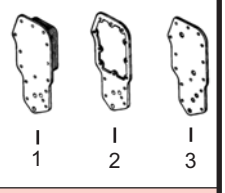
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 *x6*
2) C3901306 *x1* (3)
3) C3900919 *x12*
4) C3901569 (8)
C4943979 (8)
5) C3944593



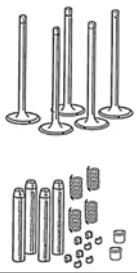
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) N/A
2) C3925031
3) C3904679
4) C3910811 *x6*
C3910810 *x6*
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 (1)
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

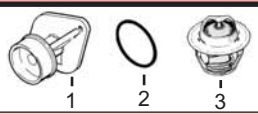
1) C3802355 Kit
Consists of:
C3901117 Valve *X1*
C3900250 Collet *X2*
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve *X1*
C3900250 Collet *X2*
2) C3904105
Use 6

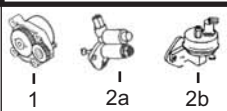
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3900276 *x12*
2) C3921640 *x12* (5)
C3957912 *x12* (6)
3) C3900299 *x12* (5)



1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3286277
2) C3906698
3) C3802273



1) Pump, Oil
2a) Lift Pump
2b) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 (2)



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 (4)
2) C3920779 *x6*
C3920780 *x14*

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style).
(7) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(8) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BTA 5.9 ISB

24 VALVE

359 Cubic Inch

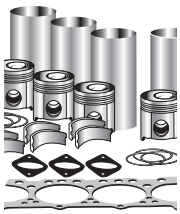
Piston Grade 'A' (m): 6153
Grades B & C are not offered by Maxiforce

Bore: 4.02 in

Stroke: 4.72 in

CUMMINS CPL's

2024	2597
2076	2616
2077	2617
2098	2618
2446	2619
2447	2660
2448	2661
2496	2662
2497	2663
2498	2685
2512	2686
2513	2687
2514	2865
2515	2902
2516	2903
2517	2904
2518	2905
2519	8030
2569	8031
2570	8032
2571	8033
2595	
2596	

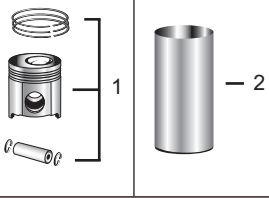


Eng. O/H & I/F Kit

COK0781/6 Std.
COK0784/6 0.50 mm
COK0785/6 1.00 mm

COK0781F/6 Std. ●
COK0784F/6 0.50 mm ●
COK0785F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK in above part number

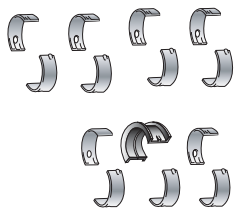


1) Piston Kit
2) Repair Sleeve

1) C3800781 **Std.**
C3800784 **0.50 mm**
C3800785 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



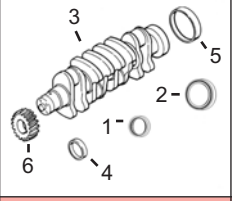
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ● ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

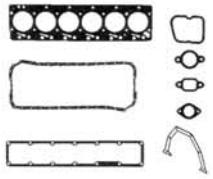
*** Piston Kit consists of:**

1) **1** C3946153 Piston Std, **1** C3804990 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3946156 Piston 0.50 mm, **1** C3806201 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3946157 Piston 1.00 mm, **1** C3806203 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



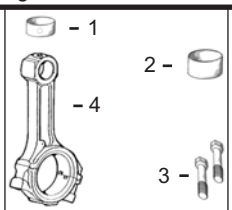
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3944243 (1)
4) C3906080
5) C3926126
6) C3929027



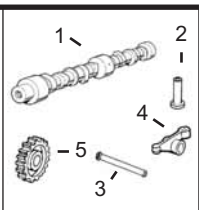
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk

1) C4090035
2) C3800487
3) C3977063
4) C3931346 (4)
5) C3935878
6) C3940182



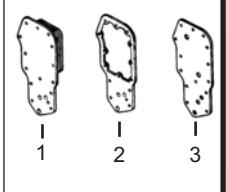
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod

1) C4891178 *x6*
2) C3940059 *x1*
3) C3900919 *x12*
4) C3901569 (5)
C4943979 (6)



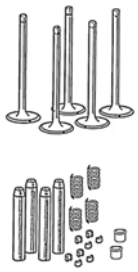
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) N/A
2) C3942565
3) C3941253
4) C3941927 *x6*
C3941928 *x6*
5) C3942755



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3942914
3) C3942915



1) Intake, Valve Kit
2) Insert, Valve

1) C3802924 Kit
Consists of:
C3940735 Valve *X1*
C3940123 Collet *X2*
2) C3927068

Use 12

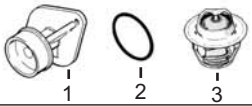
1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802967 Kit
Consists of:
C3940734 Valve *X1*
C3940123 Collet *X2*
2) C3940139

Use 12

1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3943161 *x24*
2) C3942989 *x12*
C3945438 *x12*
3) C3943198 *x24*



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3286278 (2)
2) C3906698
3) C3967195



1) Pump, Oil
2) Lift Pump

1) C4939587 (3)
2) C3945812



1) Cylinder Head **(With Valves)**
2) Head Bolts

1) N/A
2) C3927063 *x26*

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Include Crankshaft Gear C3929027.
(2) With Hardened Pulley.
(3) With Helical Gears.
(4) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(5) Machine split connecting rod.
(6) Fracture split connecting rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BTA 5.9 ISB

24 VALVE

359 Cubic Inch

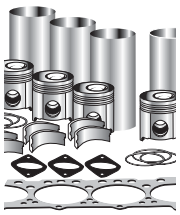
Piston Grade 'A' (m): 6050
Grades B & C are not offered by Maxiforce

Bore: 4.02 in

Stroke: 4.72 in

CUMMINS CPL's

2415
2495
2906
2907
8034
8035

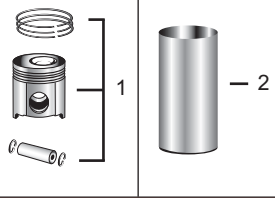


Eng. O/H & I/F Kit

COK0838/6 Std.
COK0841/6 0.50 mm
COK0842/6 1.00 mm

COK0838F/6 Std. ●
COK0841F/6 0.50 mm ●
COK0842F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK in above part number

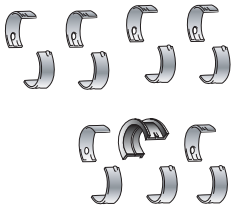


1) Piston Kit
2) Repair Sleeve

1) C3800838 **Std.**
C3800841 **0.50 mm**
C3800842 **1.00 mm**

Use 6

2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



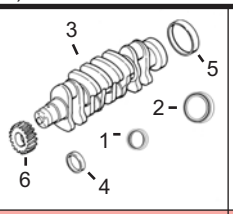
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

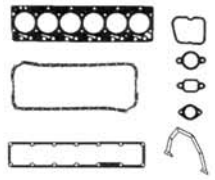
*** Piston Kit consists of:**

1) **1** C3946050 Piston Std, **1** C3804990 Ring Set Std, **1** C3934047 Piston Pin, **2** C3901706 Ret.
2) **1** C3946053 Piston 0.50 mm, **1** C3806201 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.
3) **1** C3946054 Piston 1.00 mm, **1** C3806203 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3901706 Ret.



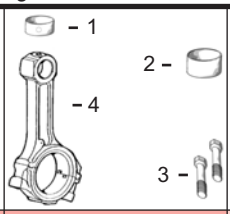
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3944243 **(1)**
4) C3906080
5) C3926126
6) C3929027



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk

1) C4090035
2) C3800487
3) C3977063
4) C3931346 **(4)**
5) C3935878
6) C3940182



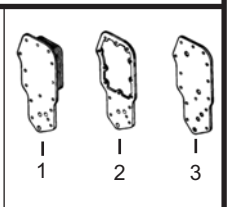
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod

1) C4891178 ***x6***
2) C3940059 ***x1***
3) C3900919 ***x12***
4) C3901569 **(5)**
C4943979 **(6)**



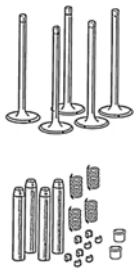
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) N/A
2) C3942565
3) C3941253
4) C3941927 ***x6***
C3941928 ***x6***
5) C3942755



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3942914
3) C3942915



1) Intake, Valve Kit
2) Insert, Valve

1) C3802924 Kit
Consists of:
C3940735 Valve ***X1***
C3940123 Collet ***X2***
2) C3927068

Use 12

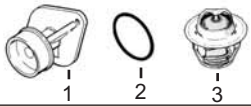
1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802967 Kit
Consists of:
C3940734 Valve ***X1***
C3940123 Collet ***X2***
2) C3940139

Use 12

1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3943161 ***x24***
2) C3942989 ***x12***
C3945438 ***x12***
3) C3943198 ***x24***



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3286278 **(2)**
2) C3906698
3) C3967195



1) Pump, Oil
2) Lift Pump

1) C4939587 **(3)**
2) C3945812



1) Cylinder Head **(With Valves)**
2) Head Bolts

1) N/A
2) C3927063 ***x26***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).
(1) Include Crankshaft Gear C3929027.
(2) With Hardened Pulley.
(3) With Helical Gears.
(4) Applications with internally cast oil suction tube in Aluminum oil pan, must use 3938161 oil pan gasket.
(5) Machine split connecting rod.
(6) Fracture split connecting rod.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

4BT 3.9 QSB

TURBOCHARGED

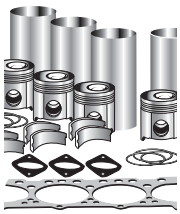
Piston Std (m): 7416

Bore: 4.02 in

Stroke: 4.72 in

CUMMINS CPL's

8039
8239
8240
8334
8335
8507
43850
44247

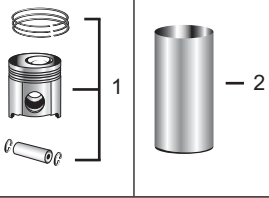


Eng. O/H & I/F Kit

COK9461/4 Std.
COK9618/4 0.50 mm
COK9619/4 1.00 mm

COK9461F/4 Std. ●
COK9618F/4 0.50 mm ●
COK9619F/4 1.00 mm ●

To order an In-Frame Kit change OK to IK in above part number

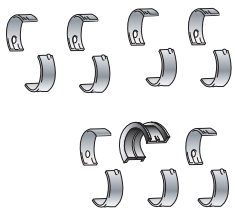


1) Piston Kit
2) Repair Sleeve

1) C4089461 **Std.**
C4089618 **0.50 mm**
C4089619 **1.00 mm**

Use 4

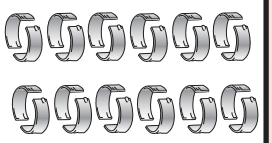
2) C3904166



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



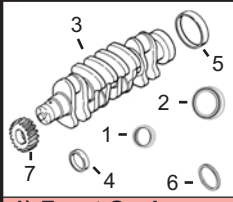
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

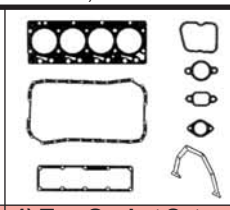
*** Piston Kit consists of:**

1) **1** C3957416 Piston Std, **1** C4089460 Ring Set Std, **1** C3934047 Piston Pin, **2** C3920691 Ret.
2) **1** C3957417 Piston 0.50 mm, **1** C4089614 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.
3) **1** C3957418 Piston 1.00 mm, **1** C4089615 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.



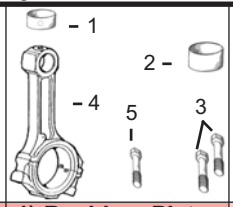
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907803
4) C3906080
5) C3906081
6) C3912473
7) C3901258



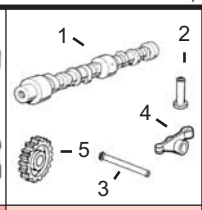
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk

1) C3804896 **(3)**
C4089648 **(4)**
2) C3802375
3) C3921393
4) C3931602
5) C3902666
6) C3916131



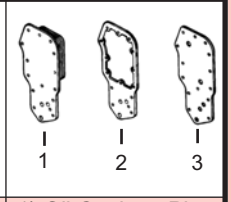
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x4***
2) C3940059 ***x1***
3) C4891179 ***x8***
4) C3901569 **(5)**
C4943979 **(6)**
5) C3944593 ***x8***



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3925582 **(7)**
2) C3925031
3) C3904679
4) C3910811 ***x4***
C3910810 ***x4***
5) C3907431 **(7)**



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921557
2) C3926760
3) C3942915



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

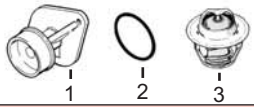
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 4

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 4

1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3932453 ***x8***
2) C3921640 ***x8*** **(3)**
C3957912 ***x8*** **(4)**
3) C3900299 ***x8*** **(3)**



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3286278
2) C3906698
3) C3802273



1) Pump, Oil
2) Lift Pump

1) C3926203
2a) C3918000
2b) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3966448
2) C3920779 ***x4***
C3920780 ***x10***

(●) On Fracture Split Con Rods use: **C3901170** ***x4*** (or O/S) and **C4893693** ***x4*** (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For use on engines prior to April, 2003.
(4) For use on engines from April, 2003, (Top Hat Style Valve Stem Seal).
(5) Machine split connecting rod.
(6) Fracture split connecting rod.
(7) Use ESN or application model to confirm correct camshaft & Gear.

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

4BT 4.5 QSB

CM850

16 VALVE

Bore: 4.21 in
107 mm

Stroke: 4.88 in
124 mm

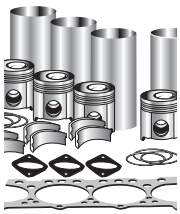
CUMMINS CPL's

1700
1701
2743
8725
8754
8755
8756
41100
41472
41700
41701
41703
42743
43172
44195

APPLICATIONS:

CASE (Construction)

4000V Skid Steer
V400 Skid Steer

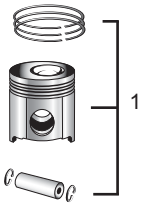


Eng. O/H & I/F Kit

COK5160/4 Std.
COK5481/4 0.50 mm

COK5160F/4 Std. ●
COK5481F/4 0.50 mm ●

To order an In-Frame Kit change OK to IK in above part number



1) Piston Kit *

1) C4955160 **Std.**
C4955481 **0.50 mm**

Use 4



Main Bearing Set

C3802010 **Std.**
C3802011 **0.25 mm**
C3802012 **0.50 mm**
C3802013 **0.75 mm**

Use 1



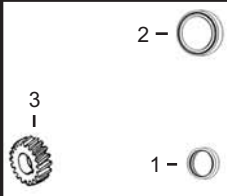
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

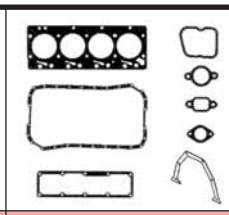
*** Piston Kit consists of:**

1) **1** C4934860 Piston Std, **1** C4955251 Ring Set Std, **1** C4931041 Piston Pin, **2** C3920691 Ret.
2) **1** C4934816 Piston 0.50 mm, **1** C4955480 Ring Set 0.50 mm, **1** C4931041 Piston Pin, **2** C3920691 Ret.



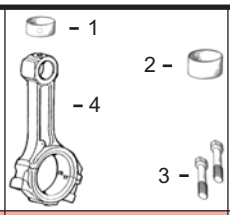
1) Front Seal
2) Rear Seal
3) Crankshaft, Gear

1) C4890832
2) C4955372
3) C3955151



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk

1) C4955356
2) C4955357
3) C4932209
4) C4939246
5) C4899228



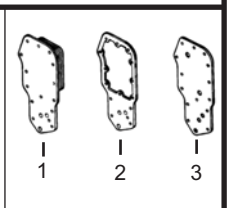
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod

1) C4891178 ***x4***
2) C3940059 ***x1***
3) C4891179 ***x8***
4) C3971212



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3977547
2) C3947759
3) N/A
4) C3942734 ***x4***
C3942735 ***x4***
5) C3955152



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3942914
3) C3942915



1) Intake, Valve Kit
2) Insert, Valve

1) C3802924 Kit
Consists of:
C3940735 Valve ***X1***
C3940123 Collet ***X2***

2) C3943449
Use 8

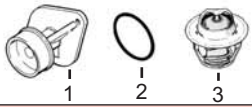
1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802967 Kit
Consists of:
C3940734 Valve ***X1***
C3940123 Collet ***X2***

2) C3943450
Use 8

1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C4936080 ***x16***
2) C3955393 ***x16***
3) C3943198 ***x16***



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3800984
2) C3906698
3) C3974823



Pump, Oil

C4939586



1) Cylinder Head
(With Valves)
2) Head Bolts

1) N/A
2) C3927063 ***x18***

(●) On Fracture Split Con Rods use: 4 of C3901170 (or O/S) and 4 of C4893693 (or O/S).

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6BT 5.9 QSB

TURBOCHARGED

359 Cubic Inch

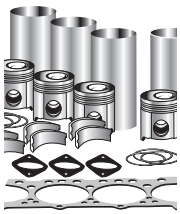
Piston Std (m): 7416

Bore: 4.02 in

Stroke: 4.72 in

CUMMINS CPL's

8186
8187
8217
8236
8237
8238
8276
8296
8298
8300
8304
8305
8306
8339
8340
8341
8400
8428
8485
8487
8488
8553
8554
40568

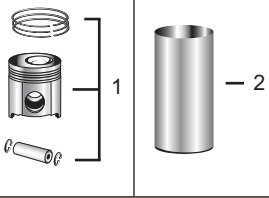


Eng. O/H & I/F Kit

COK9461/6 Std.
COK9618/6 0.50 mm
COK9619/6 1.00 mm

COK9461F/6 Std. ●
COK9618F/6 0.50 mm ●
COK9619F/6 1.00 mm ●

To order an In-Frame Kit change OK to IK in above part number

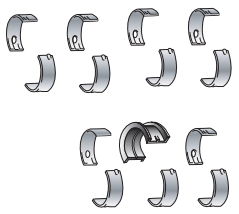


1) Piston Kit
2) Repair Sleeve

1) C4089461 **Std.**
C4089618 **0.50 mm**
C4089619 **1.00 mm**

Use 6

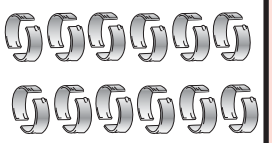
2) C3904166



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



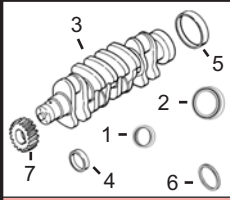
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

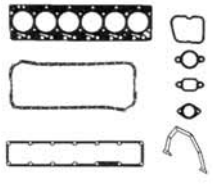
*** Piston Kit consists of:**

1) **1** C3957416 Piston Std, **1** C4089460 Ring Set Std, **1** C3934047 Piston Pin, **2** C3920691 Ret.
2) **1** C3957417 Piston 0.50 mm, **1** C4089614 Ring Set 0.50 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.
3) **1** C3957418 Piston 1.00 mm, **1** C4089615 Ring Set 1.00 mm, **1** C3934047 Piston Pin, **2** C3920691 Ret.



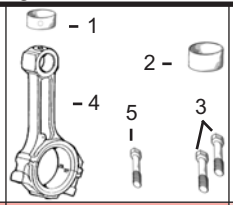
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Seal Sleeve
5) Rear Seal Sleeve
6) Rectangular Seal
7) Crankshaft, Gear

1) C3904353
2) C3353978
3) C3907804
4) C3906080
5) C3906081
6) C3912473
7) C3901258



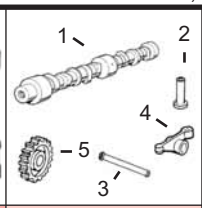
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Gear Housing Gsk

1) C3804897 **(5)**
C4089649 **(6)**
2) C3802376
3) C3283335
4) C3931346
5) C3902666
6) C3938156



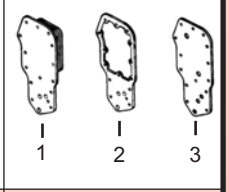
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod
5) Bolt, Ex Manifold

1) C4891178 ***x6***
2) C3940059 ***x1*** **(3)**
3) C4891179 ***x12***
4) C3901569 **(7)**
C4943979 **(7)**
5) C3944593 ***x12***



1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3914639
2) C3925031
3) C3904679
4) C3910811 ***x6***
C3910810 ***x6***
5) C3907431



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3926760
3) C3929792



Guide, Valve

C3904408
Thick W. 60.50 mm IN
C3904409
Thick W. 51.75 mm EX
C3906206 **(1)**
Thin Wall

1) Intake,Valve Kit
2) Insert, Valve

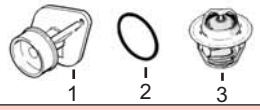
1) C3802355 Kit
Consists of:
C3901117 Valve ***X1***
C3900250 Collet ***X2***
2) C3906854
Use 6

1) Exhaust,Valve Kit
2) Insert, Valve

1) C3802356 Kit
Consists of:
C3901607 Valve ***X1***
C3900250 Collet ***X2***
2) C3904105
Use 6

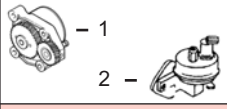
1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C3932453 ***x12***
2) C3921640 ***x12*** **(5)**
C3957912 ***x12*** **(6)**
3) C3900299 ***x12*** **(5)**



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3286278
2) C3906698
3) C3802273



1) Pump, Oil
2) Lift Pump

1) C4939587
2) C3904374 **(2)**



1) Cylinder Head
(With Valves)
2) Head Bolts

1) C3913381 **(4)**
2) C3920779 ***x6***
C3920780 ***x14***

(●) On Fracture Split Con Rods use: **C3901170 *x6*** (or O/S) and **C4893693 *x6*** (or O/S).
(1) Can be Used on Both Intake and Exhaust.
(2) Diaphragm Style.
(3) For Storm blocks use C3940059.
(4) Do not use on Marine Engines.
(5) For use on engines prior to April, 2003.
(6) For use on engines from April, 2003, (Top Hat Style Valve Stem Seal).
(7) C3901569 Machine Split rod. C4943979 Fracture Split rod.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6BT 6.7 QSB

CM850

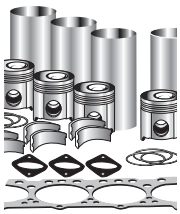
24 VALVE

Bore: 4.21 in
107 mm

Stroke: 4.88 in
124 mm

CUMMINS CPL's

426
427
656
1584
1610
1629
2605
8466
8510
8610
8611
8615
8733
40426
40427
40656
41452
41584
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41610
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43858
43859
43861
43862

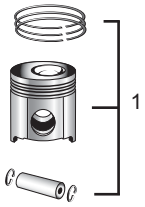


Eng. O/H & I/F Kit

COK5160/6 Std.
COK5481/6 0.50 mm

COK5160F/6 Std. ●
COK5481F/6 0.50 mm ●

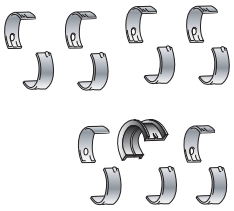
To order an In-Frame Kit change OK to IK in above part number ●



1) Piston Kit *

1) C4955160 **Std.**
C4955481 **0.50 mm**

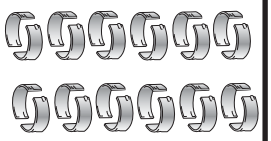
Use 6



Main Bearing Set

C3802070 **Std.**
C3802071 **0.25 mm**
C3802072 **0.50 mm**
C3802073 **0.75 mm**

Use 1



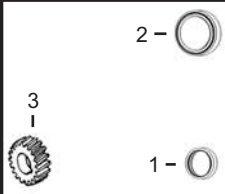
Con Rod Bearing

C3901170 **Std.**
C3901171 **0.25 mm**
C3901172 **0.50 mm**
C3901173 **0.75 mm**

C4893693 **Std.** ●
C4892795 **0.25 mm** ●
C4892796 **0.50 mm** ●
C4892797 **0.75 mm** ●

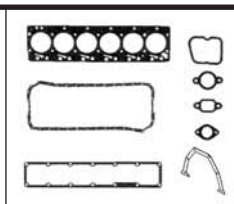
*** Piston Kit consists of:**

1) **1** C4934860 Piston Std, **1** C4955251 Ring Set Std, **1** C4931041 Piston Pin, **2** C3920691 Ret.
2) **1** C4934816 Piston 0.50 mm, **1** C4955480 Ring Set 0.50 mm, **1** C4931041 Piston Pin, **2** C3920691 Ret.



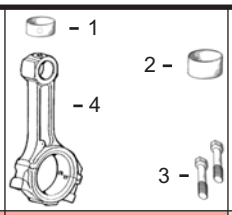
1) Front Seal
2) Rear Seal
3) Crankshaft, Gear

1) C4890832
2) C4955372
3) C3955151



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gsk
6) Rocker Lever Gsk

1) C4955229
2) C4955230
3) C4932210
4) C4934344
5) C4899226
6) C4899231



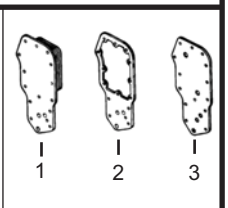
1) Bushing, Piston
2) Bushing, Cam
3) Bolt, Con Rod
4) Con Rod

1) C4891178 ***x6***
2) C3940059 ***x1***
3) C4891179 ***x12***
4) C3971212



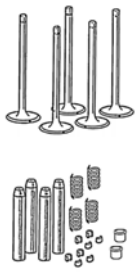
1) Camshaft
2) Tappet
3) Push Rod
4) Rocker Arms
5) Camshaft Gear

1) C3979506
2) C3947759
3) N/A
4) C3942734 ***x6***
C3942735 ***x6***
5) C3955152



1) Oil Cooler 7 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3921558
2) C3942914
3) C3942915



1) Intake, Valve Kit
2) Insert, Valve

1) C3802924 Kit
Consists of:
C3940735 Valve ***X1***
C3940123 Collet ***X2***

2) C3943449
Use 12

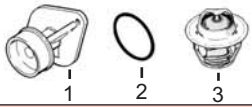
1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802967 Kit
Consists of:
C3940734 Valve ***X1***
C3940123 Collet ***X2***

2) C3943450
Use 12

1) Spring, Valve
2) Seal, Valve
3) Retainer, Valve

1) C4936080 ***x24***
2) C3955393 ***x24***
3) C3943198 ***x24***



1) Water Pump
2) Water Pump Seal
3) Kit, Thermostat

1) C3800984
2) C3906698
3) C3974823



Pump, Oil

C3971544



1) Cylinder Head
(With Valves)
2) Head Bolts

1) N/A
2) C3927063 ***x26***

(●) On Fracture Split Con Rods use: 6 of C3901170 (or O/S) and 6 of C4893693 (or O/S).

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6CT 8.3

(CDC 6.830)

TURBOCHARGED

Piston Std (m):
3163, 9564, 9928

CUMMINS CPL's

602	828	1274	9820
603	955	1275	
753	985	1281	
819	1248	1603	

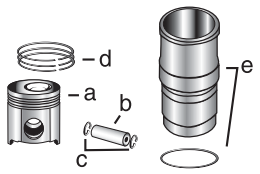
CASE-IH (Agricultural)

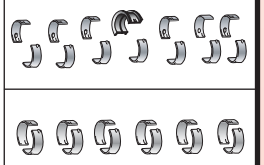
1660 Combine
1666 Combine, ESN 44706126 >
1670 Combine, ESN > 44706125
1680 Combine, ESN > 44706125
2044 Cot Picker, ESN > 44706125
2166 Combine, PIN > JJC0180000
7110 Tractor
7120 Tractor
7130 Tractor
7140 Tractor, ESN > 44706125
7150 Tractor, ESN > 44706125
7210 Tractor
7220 Tractor, PIN > JJA0064978
9110 Tractor, ESN > 44706125
9130 Tractor, ESN > 44706125
9210 Tractor
9230 Tractor, ESN > 44706125
9240 Tractor
9310 Tractor, PIN > JEE0036001

CASE (Construction)

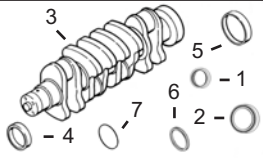
721 Loader
721B Loader, PIN > JEE053200
821 Loader
821B Loader, PIN > JEE050601
1150E Crawler
1155E Crawler
1187C Excav, ESN > 44706125
1550 Crawler, ESN > 44706125
9040 Excavator
9040B Excav, PIN > DAC4#2001
W36 Loader

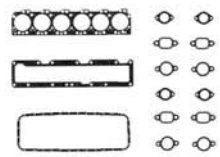


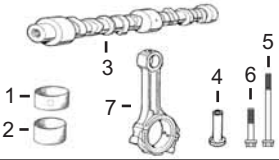


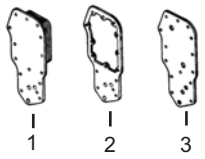


Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall (••) Long Liner	Cylinder Kit Thick Wall (•••) Short Liner	Main Bearing Set / Con Rod Bearing
COK2400 Thin Wall **COK2403** Thick Wall Long **COK2403S** Thick Wall Short **To order an In-Frame Kit change OK to IK in above part number**	**C3802400** Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	**C3802403** Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	**C3802403S** Consists of: a) C3923163 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 Std. C3802211 0.25 mm C3802212 0.50 mm C3802213 0.75 mm **Use 1** C3901430 Std. C3901431 0.25 mm C3901432 0.50 mm C3901433 0.75 mm **Use 12** (1)

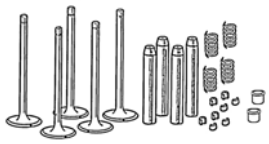




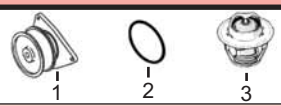




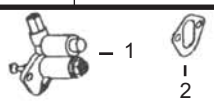
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	**1) Top Gasket Set** **2) Bottom Gasket Set** 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	**1) Bushing, Piston** **2) Bushing, Camshaft** 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 *x6* 2) C3943199 *x7* 3) C3924471 (2) 4) C3925031 5) C3917728 *x14* (3) 6) C3917729 *x12* (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308



	1) Intake, Valve Kit 2) Insert, Valve	1) Exhaust, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring
	1) C3802463 Consists of: C3924492 Valve *X1* C3901177 Collet *X2* 2) C3924582 **Use 6**	1) C3802085 Consists of: C3921444 Valve *X1* C3901177 Collet *X2* 2) C3924583 **Use 6**	1) C3906412 *x12* 2) C3915707 *x12* 3) C3923564 *x12* 4) C3912976 *x12*







1) Water Pump 2) Water Pump Seal 3) Thermostat	Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk
1) C3800976 (5) (6) 2) C3902089 3) C3928639 *x2*	C3930338 (3415365)	1) C3917998 2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6CTA 8.3

(CDC 6.830)

TURBOCHARGED AFTERCOOLED

Piston Std (m):
3164, 9565,9930

CUMMINS CPL's

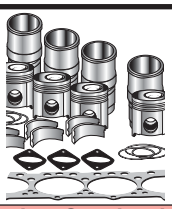
604	1212	1547	2380
754	1222	1612	9803
755	1270	1633	9883
830	1273	1804	
893	1321	1826	
959	1377	1903	
984	1539	2054	

CASE-IH (Agricultural)

1670 Combine, ESN 44706126 >
1680 Combine, ESN 44706126 >
1688 Combine
1844 Cot Picker, PIN JJ002462 >
2044 Cot Picker, ESN 44706126 >
2055 Cot Picker
2155 Cot Picker, PIN > JJC0156230
2188 Combine, PIN > JJC0191483
7140 Tractor, ESN 44706126 >
7150 Tractor, ESN 44706126 >
9230 Tractor, ESN 44706126 >
9240 Tractor, ESN 44706126 >
9330 Tractor

CASE (Construction)

6830TA Power Unit



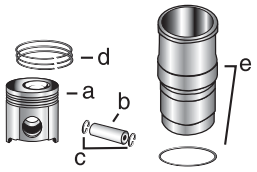
Engine Overhaul & Engine In Frame Kit

COK2401
Thin Wall

COK2404
Thick Wall Long

COK2404S
Thick Wall Short

To order an In-Frame Kit change OK to IK in above part number



Cylinder Kit Thin Wall (•)

C3802401

Consists of:

a) C3923164
b) C3901597
c) C3901996
d) C3802258
e) C3802370
(C3907792 Liner + C3907177 Seal)

Cylinder Kit Thick Wall (••) Long Liner

C3802404

Consists of:

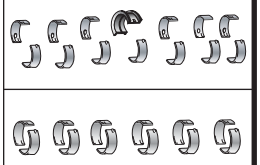
a) C3923164
b) C3901597
c) C3901996
d) C3802258
e) C3802407
(C3919937 Liner + C3907177 Seal)

Cylinder Kit Thick Wall (•••) Short Liner

C3802404S

Consists of:

a) C3923164
b) C3901597
c) C3901996
d) C3802258
e) C3800328
(C3948095 Liner + C3907177 Seal)



Main Bearing Set

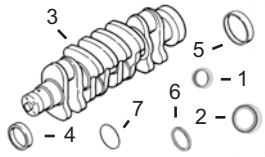
Con Rod Bearing

C3802210	Std.
C3802211	0.25 mm
C3802212	0.50 mm
C3802213	0.75 mm

Use 1

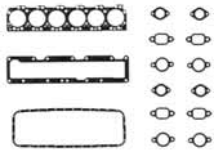
C3901430	Std.
C3901431	0.25 mm
C3901432	0.50 mm
C3901433	0.75 mm

Use 12 (1)



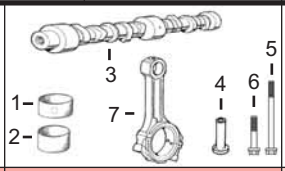
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Wear Sleeve
5) Rear Wear Sleeve
6) Front Rectangular Seal
7) Rear Rectangular Seal

1) C3353977
2) C3353978
3) C3918986
4) C3908277
5) C3906081
6) C3903475
7) C3912473



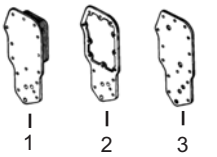
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gasket
6) Front Gear Gasket
7) Front Cover Gasket
8) Rear Cover Gasket

1) C4025271
2) C3800348
3) C3938267
4) C3914017
5) C3905449
6) C3929253
7) C3917780
8) C3914301



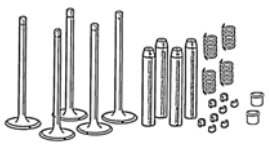
1) Bushing, Piston
2) Bushing, Camshaft
3) Camshaft
4) Tappet
5) Head Bolt Long
6) Head Bolt Short
7) Con Rod

1) C3913990 ***x6***
2) C3943199 ***x7***
3) C3924471 (2)
4) C3925031
5) C3917728 ***x14*** (3)
6) C3917729 ***x12*** (3)
7) C3901383 (4)



1) Oil Cooler 12 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3918175
2) C3918174
3) C3914308



1) Intake, Valve Kit
2) Insert, Valve

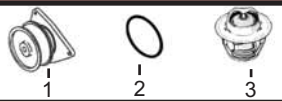
1) C3802463
Consists of:
C3924492 Valve ***X1***
C3901177 Collet ***X2***
2) C3924582
Use 6

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802085
Consists of:
C3921444 Valve ***X1***
C3901177 Collet ***X2***
2) C3924583
Use 6

1) Spring, Valve
2) Seal, Valve
3) Guide, Valve
4) Retainer, Valve Spring

1) C3906412 ***x12***
2) C3915707 ***x12***
3) C3923564 ***x12***
4) C3912976 ***x12***



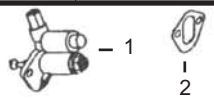
1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3800976 (5) (6)
2) C3902089
3) C3928639 ***x2***



Oil Pump

C3930338
(3415365)



1) Fuel Lift Pump
2) Fuel Pump Gsk

1) C3917998
2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

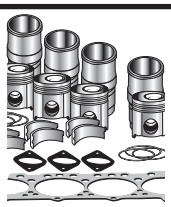
6CT 8.3

TURBOCHARGED

Piston Std (m):
3165, 9931, 9567, 2396

CUMMINS CPL's

954
1399
1435

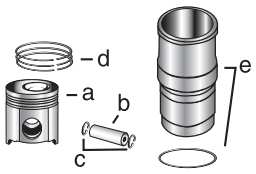


Engine Overhaul & Engine In Frame Kit

COK2399
Thin Wall

COK2402
Thick Wall

To order an In-Frame Kit change OK to IK in above part number

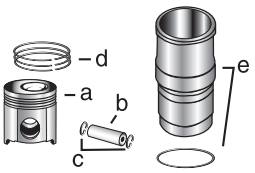


Cylinder Kit Thin Wall Block (•)

C3802399

Consists of:

a) C3923165
b) C3901597
c) C3901996
d) C3802258
e) C3802370
(C3907792 Liner + C3907177 Seal)

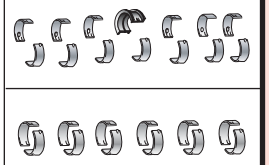


Cylinder Kit Thick Wall Block (••)

C3802402

Consists of:

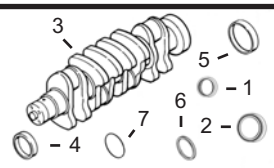
a) C3923165
b) C3901597
c) C3901996
d) C3802258
e) C3802407
(C3919937 Liner + C3907177 Seal)



Main Bearing Set
Con Rod Bearing

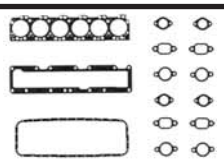
C3802210 **Std.**
C3802211 **0.25 mm**
C3802212 **0.50 mm**
C3802213 **0.75 mm**
Use 1

C3901430 **Std.**
C3901431 **0.25 mm**
C3901432 **0.50 mm**
C3901433 **0.75 mm**
Use 12 **(1)**



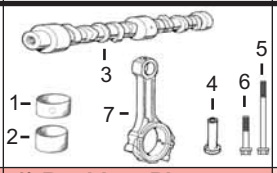
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Wear Sleeve
5) Rear Wear Sleeve
6) Front Rectangular Seal
7) Rear Rectangular Seal

1) C3353977
2) C3353978
3) C3918986
4) C3908277
5) C3906081
6) C3903475
7) C3912473



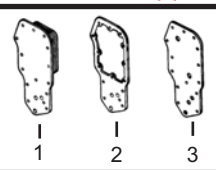
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gasket
6) Front Gear Gasket
7) Front Cover Gasket
8) Rear Cover Gasket

1) C4025271
2) C3800348
3) C3938267
4) C3914017
5) C3905449
6) C3929253
7) C3917780
8) C3914301



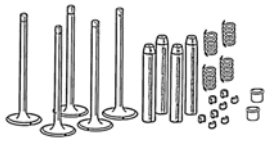
1) Bushing, Piston
2) Bushing, Camshaft
3) Camshaft
4) Tappet
5) Head Bolt Long
6) Head Bolt Short
7) Con Rod

1) C3913990 ***x6***
2) C3943199 ***x7***
3) C3924471 **(2)**
4) C3925031
5) C3917728 ***x14*** **(3)**
6) C3917729 ***x12*** **(3)**
7) C3901383 **(4)**



1) Oil Cooler 12 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3918175
2) C3918174
3) C3914308



1) Intake, Valve Kit
2) Insert, Valve

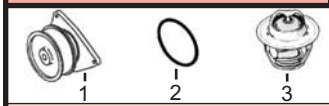
1) C3802463
Consists of:
C3924492 Valve ***X1***
C3901177 Collet ***X2***
2) C3924582
Use 6

1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802085
Consists of:
C3921444 Valve ***X1***
C3901177 Collet ***X2***
2) C3924583
Use 6

1) Spring, Valve
2) Seal, Valve
3) Guide, Valve
4) Retainer, Valve Spring

1) C3906412 ***x12***
2) C3915707 ***x12***
3) C3923564 ***x12***
4) C3912976 ***x12***



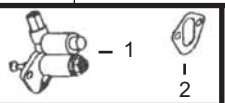
1) Water Pump
2) Water Pump Seal
3) Thermostat

1) C3800976 **(5) (6)**
2) C3902089
3) C3928639 ***x2***



Oil Pump

C3930338
(3415365)



1) Fuel Lift Pump
2) Fuel Pump Gsk

1) C3917998
2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key. Use ESN or application model to confirm correct camshaft.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

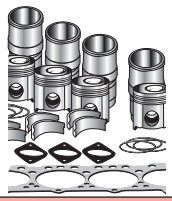
6CT 8.3

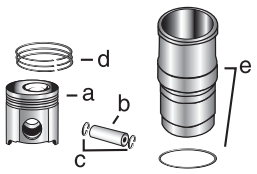
TURBOCHARGED

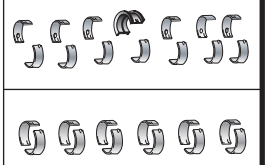
Piston Std (m): 7707

CUMMINS CPL's

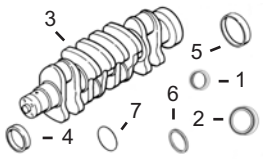
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1263	2100	2995
1406	2367	2996
1615	2368	8146
1618		

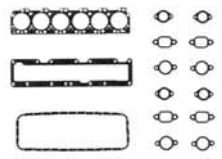


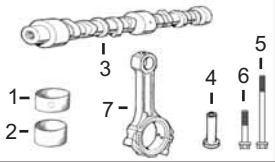


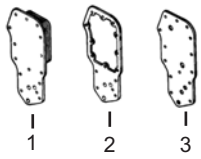


Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall Long Liner (••)	Cylinder Kit Thick Wall Short Liner (•••)	Main Bearing Set Con Rod Bearing
COK2388 **Thin Wall** **COK2406** **Thick Wall Long** **COK2406S** **Thick Wall Short** **To order an In-Frame Kit change OK to IK in above part number**	**C3802388** Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	**C3802406** Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	**C3802406S** Consists of: a) C3917707 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 **Std.** C3802211 **0.25 mm** C3802212 **0.50 mm** C3802213 **0.75 mm** **Use 1** C3901430 **Std.** C3901431 **0.25 mm** C3901432 **0.50 mm** C3901433 **0.75 mm** **Use 12** (1)

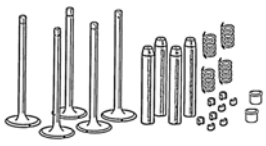




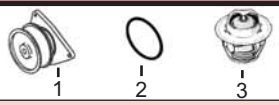




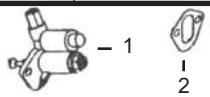
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket Set	1) Bushing, Piston 2) Bushing, Camshaft	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 ***x6*** 2) C3943199 ***x7*** 3) C3924471 (2) 4) C3925031 5) C3917728 ***x14*** (3) 6) C3917729 ***x12*** (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308



	1) Intake, Valve Kit 2) Insert, Valve	1) Exhaust, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring
	1) C3802463 Consists of: C3924492 Valve ***x1*** C3901177 Collet ***x2*** 2) C3924582 **Use 6**	1) C3802085 Consists of: C3921444 Valve ***x1*** C3901177 Collet ***x2*** 2) C3924583 **Use 6**	1) C3906412 ***x12*** 2) C3915707 ***x12*** 3) C3923564 ***x12*** 4) C3912976 ***x12***







1) Water Pump 2) Water Pump Seal 3) Thermostat	Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk
1) C3800976 (5) (6) 2) C3902089 3) C3928639 ***x2***	C3930338 (3415365)	1) C3917998 2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

6CT 8.3

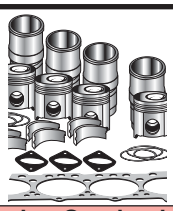
TURBOCHARGED

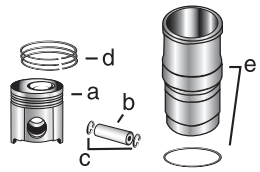
Piston Std (m): 9566

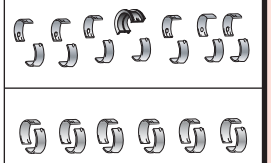
CUMMINS CPL's

1221 1929 * 8089
1282 * 2172 *
1366 2960

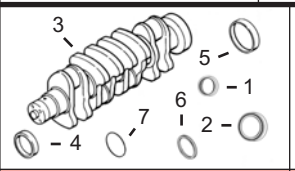
* Marine Engine

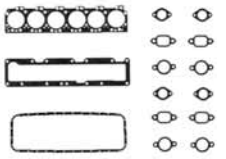


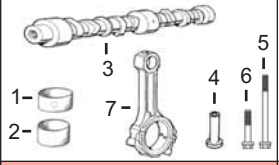


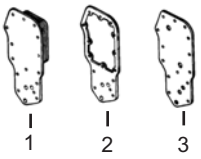


Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall (••) Long Liner	Cylinder Kit Thick Wall (•••) Short Liner	Main Bearing Set / Con Rod Bearing
COK2372 Thin Wall **COK2405** Thick Wall Long **COK4580** Thick Wall Short **To order an In-Frame Kit change OK to IK in above part number**	**C3802372** Consists of: a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	**C3802405** Consists of: a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	**C3934580** Consists of: a) C3919566 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 **Std.** C3802211 **0.25 mm** C3802212 **0.50 mm** C3802213 **0.75 mm** **Use 1** C3901430 **Std.** C3901431 **0.25 mm** C3901432 **0.50 mm** C3901433 **0.75 mm** **Use 12** (1)

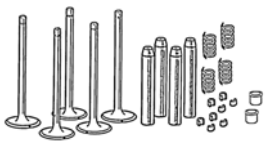




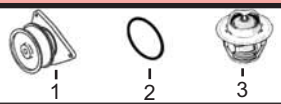




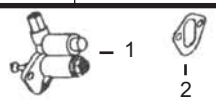
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	**1) Top Gasket Set** **2) Bottom Gasket Set** 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	**1) Bushing, Piston** **2) Bushing, Camshaft** 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 ***x6*** 2) C3943199 ***x7*** 3) C3924471 (2) 4) C3925031 5) C3917728 ***x14*** (3) 6) C3917729 ***x12*** (3) 7) C3901383 (4)	1) C3918175 2) C3918174 3) C3914308



	1) Intake, Valve Kit 2) Insert, Valve	1) Exhaust, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring
	1) C3802463 Consists of: C3924492 Valve ***X1*** C3901177 Collet ***X2*** 2) C3924582 **Use 6**	1) C3802085 Consists of: C3921444 Valve ***X1*** C3901177 Collet ***X2*** 2) C3924583 **Use 6**	1) C3906412 ***x12*** 2) C3915707 ***x12*** 3) C3923564 ***x12*** 4) C3912976 ***x12***







1) Water Pump 2) Water Pump Seal 3) Thermostat	Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk
1) C3800976 (5) (6) 2) C3902089 3) C3928639 ***x2***	C3930338 (3415365)	1) C3917998 2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

6CTA 8.3

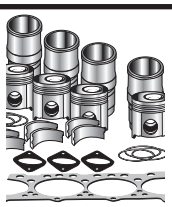
TURBOCHARGED AFTERCOOLED

EMISSION

Piston Std (m): 9161

CUMMINS CPL's

1845	2061	2833
1846	2062	2874
1943	2082	2894
1949	2118	
2007	2120	
2055	2185	
2056	2216	
2057	2218	
2060	2642	

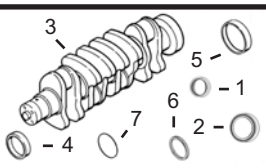


Engine Overhaul & Engine In Frame Kit

COK9161L
Thick Wall Long

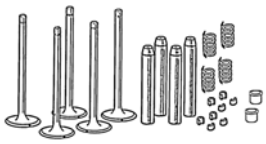
COK9161S
Thick Wall Short

To order an In-Frame Kit change OK to IK in above part number



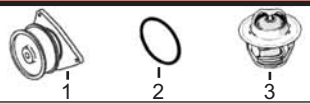
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Wear Sleeve
5) Rear Wear Sleeve
6) Front Rectangular Seal
7) Rear Rectangular Seal

1) C3353977
2) C3353978
3) C3918986
4) C3908277
5) C3906081
6) C3903475
7) C3912473



1) Water Pump
2) Water Pump Seal
3) Thermostat

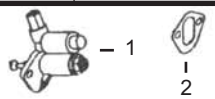
1) C3800976 **(5) (6)**
2) C3902089
3) C3928639 ***x2***





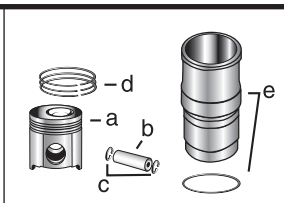
Oil Pump

C3930338
(3415365)



1) Fuel Lift Pump
2) Fuel Pump Gsk

1) C3917998
2) C3914304

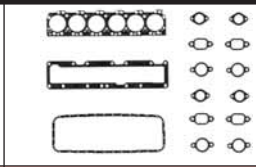


Cylinder Kit Thick Wall (•) Long Liner

CPLK9161L

Consists of:

a) C3929161
b) C3901597
c) C3901996
d) C3802258
e) C3802407
(C3919937 Liner + C3907177 Seal)



1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gasket
6) Front Gear Gasket
7) Front Cover Gasket
8) Rear Cover Gasket

1) C4025271
2) C3800348
3) C3938267
4) C3914017
5) C3905449
6) C3929253
7) C3917780
8) C3914301

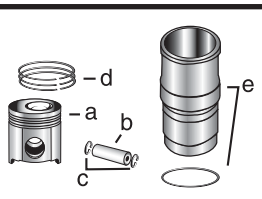
1) Intake, Valve Kit
2) Insert, Valve

1) C3802463

Consists of:

C3924492 Valve ***X1***
C3901177 Collet ***X2***

2) C3924582
Use 6

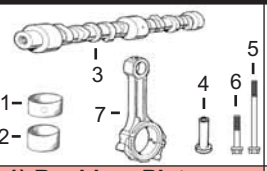


Cylinder Kit Thick Wall (••) Short Liner

CPLK9161S

Consists of:

a) C3929161
b) C3901597
c) C3901996
d) C3802258
e) C3800328
(C3948095 Liner + C3907177 Seal)



1) Bushing, Piston
2) Bushing, Camshaft
3) Camshaft (Keyed)
4) Tappet
5) Head Bolt Long
6) Head Bolt Short
7) Con Rod

1) C3913990 ***x6***
2) C3943199 ***x7***
3) C3924471 **(2)**
4) C3925031
5) C3917728 ***x14*** **(3)**
6) C3917729 ***x12*** **(3)**
7) C3901383 **(4)**

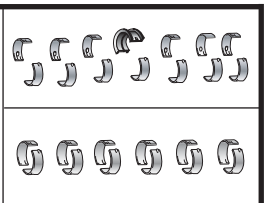
1) Exhaust, Valve Kit
2) Insert, Valve

1) C3802085

Consists of:

C3921444 Valve ***X1***
C3901177 Collet ***X2***

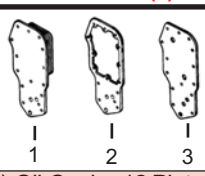
2) C3924583
Use 6



Main Bearing Set
Con Rod Bearing

C3802210 **Std.**
C3802211 **0.25 mm**
C3802212 **0.50 mm**
C3802213 **0.75 mm**
Use 1

C3901430 **Std.**
C3901431 **0.25 mm**
C3901432 **0.50 mm**
C3901433 **0.75 mm**
Use 12 **(1)**



1) Oil Cooler 12 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3918175
2) C3918174
3) C3914308

1) Spring, Valve
2) Seal, Valve
3) Guide, Valve
4) Retainer, Valve Spring

1) C3906412 ***x12***
2) C3915707 ***x12***
3) C3923564 ***x12***
4) C3912976 ***x12***

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

Engine Model
CPL

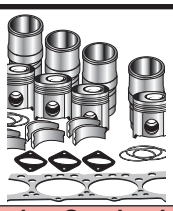
6CTA 8.3

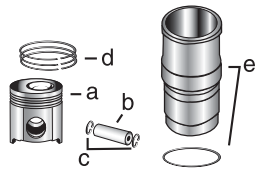
TURBOCHARGED AFTERCOOLED

Piston Std (m): 9247

CUMMINS CPL's

1371
1372
1684
2028
2381
2383

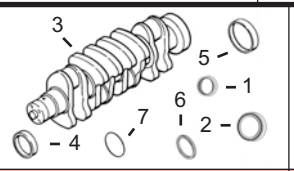


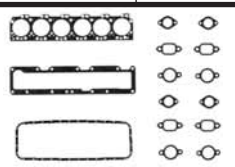


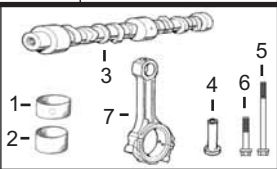


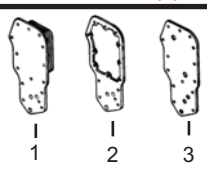


Engine Overhaul & Engine In Frame Kit	Cylinder Kit Thin Wall (•)	Cylinder Kit Thick Wall (••) Long Liner	Cylinder Kit Thick Wall (•••) Short Liner	Main Bearing Set / Con Rod Bearing
COK9247 Thin Wall **COK9247L** Thick Wall Long **COK9247S** Thick Wall Short **To order an In-Frame Kit change OK to IK in above part number**	**CPLK9247** Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3802370 (C3907792 Liner + C3907177 Seal)	**CPLK9247L** Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3802407 (C3919937 Liner + C3907177 Seal)	**CPLK9247S** Consists of: a) C3919247 b) C3901597 c) C3901996 d) C3802258 e) C3800328 (C3948095 Liner + C3907177 Seal)	C3802210 **Std.** C3802211 **0.25 mm** C3802212 **0.50 mm** C3802213 **0.75 mm** **Use 1** C3901430 **Std.** C3901431 **0.25 mm** C3901432 **0.50 mm** C3901433 **0.75 mm** **Use 12** (1)

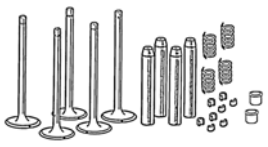




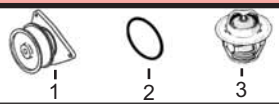




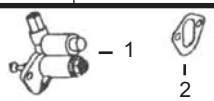
1) Front Seal **2) Rear Seal** 3) Crankshaft 4) Front Wear Sleeve 5) Rear Wear Sleeve 6) Front Rectangular Seal 7) Rear Rectangular Seal	**1) Top Gasket Set** **2) Bottom Gasket Set** 3) Head Gasket 4) Oil Pan Gasket 5) Valve Cover Gasket 6) Front Gear Gasket 7) Front Cover Gasket 8) Rear Cover Gasket	**1) Bushing, Piston** **2) Bushing, Camshaft** 3) Camshaft 4) Tappet 5) Head Bolt Long 6) Head Bolt Short 7) Con Rod	1) Oil Cooler 12 Plate 2) Oil Cooler Gasket 3) Oil Cooler Gasket Filter Head
1) C3353977 2) C3353978 3) C3918986 4) C3908277 5) C3906081 6) C3903475 7) C3912473	1) C4025271 2) C3800348 3) C3938267 4) C3914017 5) C3905449 6) C3929253 7) C3917780 8) C3914301	1) C3913990 ***x6*** 2) C3943199 ***x7*** 3) C3924471 **(2)** 4) C3925031 5) C3917728 ***x14*** **(3)** 6) C3917729 ***x12*** **(3)** 7) C3901383 **(4)**	1) C3918175 2) C3918174 3) C3914308



	1) Intake, Valve Kit 2) Insert, Valve	1) Exhaust, Valve Kit 2) Insert, Valve	1) Spring, Valve 2) Seal, Valve 3) Guide, Valve 4) Retainer, Valve Spring
	1) C3802463 Consists of: C3924492 Valve ***X1*** C3901177 Collet ***X2*** 2) C3924582 **Use 6**	1) C3802085 Consists of: C3921444 Valve ***X1*** C3901177 Collet ***X2*** 2) C3924583 **Use 6**	1) C3906412 ***x12*** 2) C3915707 ***x12*** 3) C3923564 ***x12*** 4) C3912976 ***x12***







1) Water Pump 2) Water Pump Seal 3) Thermostat	Oil Pump	1) Fuel Lift Pump 2) Fuel Pump Gsk
1) C3800976 **(5) (6)** 2) C3902089 3) C3928639 ***x2***	C3930338 (3415365)	1) C3917998 2) C3914304

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
(•••) Block 3934906 (Thick Wall / Short Liner) Flange ø 5.152", (Length: 9.12" / 234 mm).
(1) Order in multiples of two.
(2) To use C3924471 to replace 3917882 buy the following from Cummins: 3918777 Cam Gear, 3927155 Thrust and 3902332 Key.
(3) Only use on engines built from year 1991 onwards.
(4) Do not use with Crankshaft part number 3965006.
(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

For Additional CUMMINS® Products Refer to Page C32

MAXIFORCE® DIESELENGINEPARTS

Engine Model
CPL

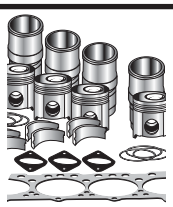
6CTA 8.3

TURBOCHARGED AFTERCOOLED

Piston Grade A (m): 5878

CUMMINS CPL's

1563
1569
1917
1920
1923
1972
2018
2101
2103
2106
2108
2193
2194
2196
2307
2532
2556

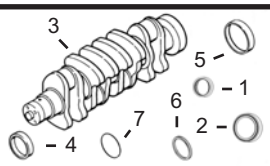


Engine Overhaul & Engine In Frame Kit

COK5878L
Thick Wall Long

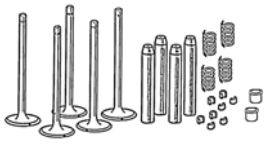
COK5878S
Thick Wall Short

To order an In-Frame Kit change OK to IK in above part number



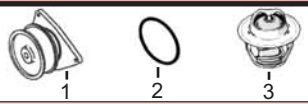
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Front Wear Sleeve
5) Rear Wear Sleeve
6) Front Rectangular Seal
7) Rear Rectangular Seal

1) C3353977
2) C3353978
3) C3918986
4) C3908277
5) C3906081
6) C3903475
7) C3912473



1) Water Pump
2) Water Pump Seal
3) Thermostat

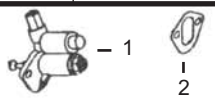
1) C3800976 **(5) (6)**
2) C3902089
3) C3928639 ***x2***





Oil Pump

C3930338
(3415565)



1) Fuel Lift Pump
2) Fuel Pump Gsk

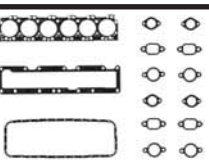
1) C3917998
2) C3914304

Cylinder Kit Thick Wall (•) Long Liner

CPLK5878L

Consists of:

a) C3925878
b) C3901597
c) C3901996
d) C3802258
e) C3802407
(C3919937 Liner + C3907177 Seal)

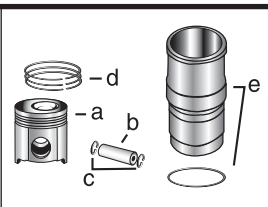


1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Valve Cover Gasket
6) Front Gear Gasket
7) Front Cover Gasket
8) Rear Cover Gasket

1) C4025271
2) C3800348
3) C3938267
4) C3914017
5) C3905449
6) C3929253
7) C3917780
8) C3914301

1) Intake, Valve Kit
2) Insert, Valve

1) C3802463
Consists of:
C3924492 Valve ***X1***
C3901177 Collet ***X2***
2) C3924582
Use 6

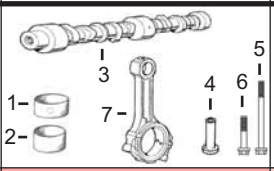


Cylinder Kit Thick Wall (••) Short Liner

CPLK5878S

Consists of:

a) C3925878
b) C3901597
c) C3901996
d) C3802258
e) C3800328
(C3948095 Liner + C3907177 Seal)

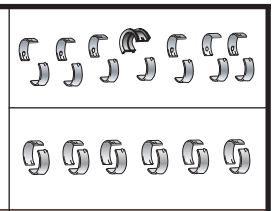


1) Bushing, Piston
2) Bushing, Camshaft
3) Camshaft (Keyed)
4) Tappet
5) Head Bolt Long
6) Head Bolt Short
7) Con Rod

1) C3913990 ***x6***
2) C3943199 ***x7***
3) C3924471 **(2)**
4) C3925031
5) C3917728 ***x14*** **(3)**
6) C3917729 ***x12*** **(3)**
7) C3901383 **(4)**

1) Exhaust, Valve Kit
2) Insert, Valve

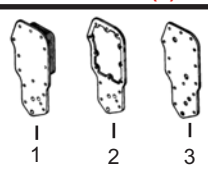
1) C3802085
Consists of:
C3921444 Valve ***X1***
C3901177 Collet ***X2***
2) C3924583
Use 6



Main Bearing Set
Con Rod Bearing

C3802210 **Std.**
C3802211 **0.25 mm**
C3802212 **0.50 mm**
C3802213 **0.75 mm**
Use 1

C3901430 **Std.**
C3901431 **0.25 mm**
C3901432 **0.50 mm**
C3901433 **0.75 mm**
Use 12 **(1)**



1) Oil Cooler 12 Plate
2) Oil Cooler Gasket
3) Oil Cooler Gasket Filter Head

1) C3918175
2) C3918174
3) C3914308

1) Spring, Valve
2) Seal, Valve
3) Guide, Valve
4) Retainer, Valve Spring

1) C3906412 ***x12***
2) C3915707 ***x12***
3) C3923564 ***x12***
4) C3912976 ***x12***

(•) Block 3802265 (Thin Wall) Flange ø 5.223".
(••) Block 3802408 (Thick Wall / Long Liner) Flange ø 5.152", (Length: 9.33" / 237 mm).
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(1) Order in multiples of two.
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(3) Only use on engines built from year 1991 onwards.
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(5) Some applications use short nose pump **C3806180**.
(6) Marine applications use **C3800975**.

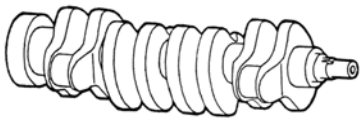
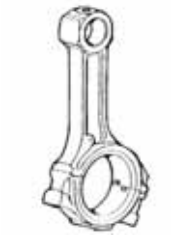
For Additional CUMMINS® Products Refer to Page C32

Miscellaneous Parts

Available from Maxiforce

Part Number	Description	Engines
C3900687	Plug, Expansion	4B/6B
C3900956	Plug, Expansion	4B/6B
C3901097	Seal, Valve Stem, Black	4B/6B
C3901774	Gear, Ring Flywheel	4B/6B
C3902127	Flywheel Gear (138 Teeth)	B/C
C3902343	Dowel, Plug	4B/6B
C3902606	Plug, Expansion	4B/6B
C3903309	Flywheel Gear (173 Teeth)	B/C
C3905443	Gasket, Exhaust Manifold	6B
C3905427	Flywheel Gear (127 Teeth)	B/C
C3911558	Belt 59.0L	B/C
C3911563	Belt 60.5L	B/C
C3911568	Belt 67.0L	B
C3911582	Belt 70.0L	B/C
C3923331	Thermostat Gasket	B
C3914086	Belt, Tensioner	B/C
C3925560	Damper	6C
C3920781	Rocker Lever Bolt	B

Torque Information for Cummins® B & C

			
ENGINE MODEL	**CRANKSHAFT MAIN BEARING CAP BOLTS**	**CONROD BOLTS**	**CYLINDER HEAD BOLTS**
B Series 4 & 6 Cyl. (Pre - 1991)	step 1 - 44 Lb.-ft. step 2 - 66 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 29 Lb.-ft. step 2 - 62 Lb.-ft. step 3 - 93 Lb.-ft.
B Series 4 & 6 Cyl. (1991 and After)	step 1 - 44 Lb.-ft. step 2 - 66 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	See Cummins Service Manual
C Series (Pre - 1991)	step 1 - 37 Lb.-ft. step 2 - 70 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 30 Lb.-ft. step 2 - 60 Lb.-ft. step 3 - 88 Lb.-ft.	step 1 - 27 Lb.-ft. step 2 - 110 Lb.-ft. step 3 - 162 Lb.-ft.
C Series (1991 and After)	step 1 - 37 Lb.-ft. step 2 - 70 Lb.-ft. step 3 - Turn an additional 60°.	step 1 - 30 Lb.-ft. step 2 - 60 Lb.-ft. step 3 - 88 Lb.-ft.	See Cummins Service Manual
ISB Series 4 & 6 Cyl.	step 1 - 37 Lb.-ft. step 2 - 59 Lb.-ft. step 3 - Turn an additional 90°.	step 1 - 22 Lb.-ft. step 2 - 44 Lb.-ft. step 3 - Turn an additional 60°.	See Cummins Service Manual

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Introduction to Perkins® Section

BORE DIAMETER mm / In	NUMBER OF CYLINDERS	ENGINE MODEL
79.375 / 3.1250	4	4.108
84.000 / 3.3000	4	104-22
84.000 / 3.3000	3	403C/D
84.000 / 3.3000	4	404C/D
91.491 / 3.6020	3	3.152
91.491 / 3.6020	4	4.203
98.476 / 3.8770	4	4.212
98.476 / 3.8770	4	4.236
98.476 / 3.8770	6	6.354
100.000 / 3.9370	4	1004.40
100.000 / 3.9370	6	1006.60
100.000 / 3.9370	6	1106
101.054 / 3.9785	4	4.248
103.000 / 4.055	4	1004.42
105.000 / 4.133	3	1103
105.000 / 4.133	4	1104
114.313 / 4.5005	4	4.318

Maxiforce Engine Kit Composition for Perkins® Engine Applications

POK: Engine Overhaul Kits Include: Piston Liner Kits or Piston Kits, Main and Connecting Rod Bearing, Thrust washer, Front and Rear Crankshaft Seals, Top and Bottom Gasket Sets, Connecting Rod Bushing, Bolts and Nuts, Camshaft Bushing and Complete Valve Train Kit.

PBK: Basic Engine Kits Include: All components in the **overhaul kit** with the exception of the valve train kit.

PVTK: Valve Train Kits Include: All valves, springs, guides, keepers and stem seals.

Crankshaft Kits Include: The crankshaft, main and con rod bearings and thrust washer sets.

NB: Should engine kits be required without engine bearings and thrust washers, please specify by adding the **NB** suffix on kit part number. i.e: POK ___**NB**.

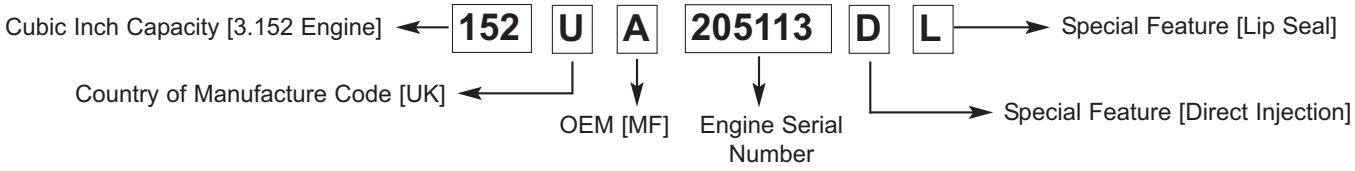
Perkins ® is the registered trademark of Perkins Engines Ltd. Manufacturer's names, numbers, symbols and descriptions are used solely for reference purposes, not implying that any part listed is the product of these manufacturers. Maxiforce is in no way affiliated to any of these manufacturers.

Engine Identification Guide

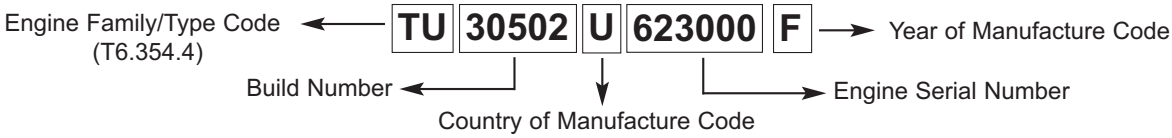
In many cases it is necessary to identify the Perkins Engine Number in order to ascertain the correct engine kit for an application. All Perkins® Engines should contain one of the two following formats for engine numbering (dependent on the year of manufacture):

Pre 1978 Engine Numbers:

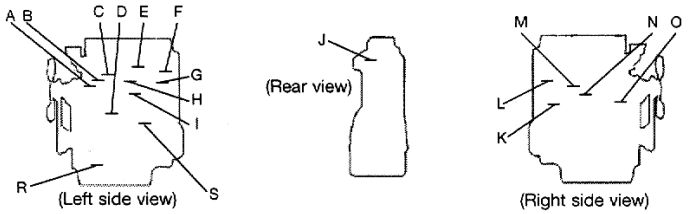
This system, which consists of a maximum of 13 digits, was used from 1966 to late 1978. Another numbering method was used prior to 1966, which utilized a 7-digit number with no reference to engine series.



Current (post 1978) Engine Numbers:



Where to find your Engine Number



Engine Type	*Position*	*Engine Type*	*Position*	*Engine Type*	*Position*	*Engine Type*	*Position*
3.152	M	4.203	J or N	4.236	C or L	6.354	D
4.108	A	4.212/4.248	C	4.318	F	1000 / 1100 (A/B/C) Series	H or J

Engine Family / Type Code

AA	1004.40	**AS**	1004.42	**ED**	4.108	**JE**	D4.203	**NK**	1104D-44	**TC**	6.354	**YB**	1006.60T
AB	1004.40T	**AT**	1004.40TA	**GK**	403D-15	**JF**	G4.203	**NL**	1104D-44T	**TE**	T6.354	**YC**	1006.60T
AC	1004.40T	**CD**	3.152	**GL**	403D-15T	**JG**	4.203.2	**NM**	1104D-44TA	**TG**	6.354.1	**YD**	1006E-6TW
AD	1004.40TW	**CE**	D3.152	**GN**	404D-22	**KR**	104.22	**PJ**	1106D-E66TA	**TH**	T6.354.1	**YE**	1006.60
AE	1004.40	**CF**	G3.152	**GP**	404D-22T	**LA**	4.212	**PK**	1106C-E66TA	**TJ**	6.354.2	**YF**	1006.60S
AG	1004.40	**CM**	3.152.4	**GR**	404D-22TA	**LD**	4.236	**RE**	1104C-44	**TK**	C6.354.2	**YG**	1006.60
AH	1004.40T	**CN**	T3.152.4	**GS**	403D-17	**LE**	G4.236	**RF**	1104C-E44	**TT**	TC6.354.1	**YH**	1006.60T
AJ	1004.40	**DC**	1103C-33	**GU**	403A-15	**LF**	4.248	**RG**	1104C-44T	**TU**	T6.354.4	**YJ**	1006.60TA
AK	1004.40T	**DD**	1103C-33T	**GV**	404A-22	**LG**	4.248.2	**RH**	1104C-E44T	**TW**	6.354.4	**YK**	1006.60TW
AL	1004.40TA	**DE**	1103C-33TA	**HL**	403C-15	**LH**	C4.236	**RJ**	1104C-44TA	**VK**	1106C-E60TA		
AM	1004.40T	**DF**	1103B-33	**HM**	403C-17	**LJ**	T4.236	**RK**	1104C-E44TA	**XK**	1103D-33		
AP	1004.40	**DG**	1103B-33T	**HP**	404C-22	**NC**	4.318	**RR**	1104A-44	**XL**	1103D-33T		
AQ	1004.40T	**DJ**	1103A-33	**HR**	404C-22T	**NH**	1104D-E44T	**RS**	1104A-44T	**XM**	1103D-33TA		
AR	1004.42	**DK**	1103A-33T	**JD**	4.203	**NJ**	1104D-E44TA	**RT**	1104A-44TA	**YA**	1006.60		

A	Air Cooled	**C**	Compensated	**D**	Direct Injection	**E**	Electronic	**G**	Gasoline	**T**	Turbocharged	**W**	Water Cooled

Year of Manufacture Code

E	1978	**J**	1982	**N**	1986	**U**	1990	**Y**	1994	**D**	1998	**H**	2001	**M**	2005	**T**	2009	**X**	2013
F	1979	**K**	1983	**P**	1987	**V**	1991	**A**	1995	**E**	1/1/99 - 3/31/99	**J**	2002	**N**	2006	**U**	2010	**Y**	2014
G	1980	**L**	1984	**S**	1988	**W**	1992	**B**	1996	**F**	4/1/99 - 12/31/99	**K**	2003	**P**	2007	**V**	2011		
H	1981	**M**	1985	**T**	1989	**X**	1993	**C**	1997	**G**	2000	**L**	2004	**R'/S**	2008	**W**	2012		

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

Engine Application Chart

This chart refers to engine models and equipment using these engines. It has been divided into four sections: *Engine models, material handling and industrial applications, agricultural and marine,* in that order. The chart will offer the reader the desired model and will indicate the page number where engine components are shown in detail.

MODEL	*COMMENTS*	*PAGE*
3.152	AG. & INDUSTRIAL ESN > 1935853	**P01**
3.152	AG. & INDUSTRIAL ESN 1935854 >	**P02**
D3.152	AG. & INDUSTRIAL ESN > UA391044D	**P03**
D3.152	AG. & INDUSTRIAL ESN UA391045DL >	**P04**
D3.152	INDUSTRIAL	**P05**
D3.152	AG. & INDUSTRIAL ESN > UA391044DS	**P06**
D3.152	AG. & INDUSTRIAL ESN UA391045DSL >	**P07**
D3.152	AGRICULTURAL	**P08**
G3.152	AG. & INDUSTRIAL GASOLINE ENGINE	**P09**
3.152.4	INDUSTRIAL	**P10**
T3.152.4	AGRICULTURAL	**P11**
4.108	INDUSTRIAL	**P12**
4.108	MARINE	**P13**
4.203	AG. & INDUSTRIAL ESN > 2820092	**P14**
4.203	AG. & INDUSTRIAL ESN 2820093 >	**P15**
4.203	FORKLIFTS	**P16**
4.203	INDUSTRIAL	**P17**
D4.203	AG. & INDUSTRIAL ESN > 2939035	**P18**
D4.203	AG. & INDUSTRIAL ESN 2939036 - 29C1084	**P19**
D4.203	AG. & INDUSTRIAL ESN 29C1085 >	**P20**
D4.203	INDUSTRIAL ESN > U589378L	**P21**
D4.203	INDUSTRIAL ESN U589379L >	**P22**
4.203.2	FORKLIFTS	**P23**
G4.203	INDUSTRIAL GASOLINE ENGINE	**P24**
4.212	AG & INDUSTRIAL ESN UA187117L >	**P25**
4.236	AG. & INDUSTRIAL ESN > U106654N	**P26**
4.236	AG. & INDUSTRIAL ESN U106655N >	**P27**
4.236	INDUSTRIAL ESN > U106654N	**P28**
4.236	INDUSTRIAL ESN U106655N >	**P29**
G4.236	FORKLIFTS ESN > U106654N	**P30**
G4.236	FORKLIFTS ESN U106655N >	**P31**
C4.236	JCB ESN > U106654N	**P32**
C4.236	JCB ESN U106655N >	**P33**
T4.236	AG. ESN U106655N > / JCB ESN U027774M	**P34**
T4.236	INDUSTRIAL ESN > U106654N	**P35**
T4.236	INDUSTRIAL ESN U106655N >	**P36**

MODEL	*COMMENTS*	*PAGE*
4.248	AGRICULTURAL ESN > UA123423L	**P37**
4.248	AGRICULTURAL ESN UA123424L >	**P38**
4.248	INDUSTRIAL	**P39**
4.248.2	FORKLIFTS	**P40**
4.318	AGRICULTURAL	**P41**
6.354	AGRICULTURAL & INDUSTRIAL	**P42**
6.354	AGRICULTURAL	**P43**
T6.354	AGRICULTURAL	**P44**
T/TC6.354.1	AGRICULTURAL	**P45**
6.354.1	AGRICULTURAL	**P46**
6.354.2	AGRICULTURAL	**P47**
6.354.4	AGRICULTURAL & INDUSTRIAL	**P48**
6.354.4	AGRICULTURAL & INDUSTRIAL	**P49**
6.354.4	AGRICULTURAL	**P50**
6.354.4	MARINE	**P51**
T6.354.4	AGRICULTURAL	**P52**
T6.354.4	AGRICULTURAL	**P53**
T6.354.4	MARINE	**P54**
104-22	KR, KRC, KRG BUILDS	**P55**
403C-15	HL, HLC, HLG BUILDS, Shibaura N843-C	**P56**
403C/D-17	HM, GS BUILDS	**P57**
403A/D-15	GK, GU BUILDS	**P58**
403D-15T	GL BUILD	**P59**
404C-22	HP, HPC, HPG BUILDS, Shibaura N844L	**P60**
404C-22T	HR, HRC BUILDS, Shibaura N844LT	**P61**
404A/D-22	GN, GV BUILDS, Shibaura N844L-D	**P62**
404D-22T	GP BUILD	**P63**
404D-22TA	GR BUILD	**P64**
N844	Shibaura® 2.0 Liter, Tier 1 & 2	**P65**
N844T	Shibaura® 2.0 Liter, Turbo, Tier 1 & 2	**P66**
1004.40	AA BUILD	**P67**
1004.40	AA BUILD	**P68**
1004.40T	AB/AH BUILDS ESN > U608300W (1992)	**P69**
1004.40T	AB/AH BUILDS ESN U608301W (1992) >	**P70**
1004.40T	AB BUILD Grade L	**P71**
1004.40/40T	AJ, AK, AM, AP, AQ BUILDS	**P72**

MAXIFORCE® DIESELENGINEPARTS

Engine Application Chart

MODEL	COMMENTS	PAGE
1004.42	AR, AS BUILDS	P73
1006.60	YA BUILDS AG. & INDUSTRIAL	P74
1006.60T	YB BUILD ESN > 557976X	P75
1006.60T	YB BUILD ESN U557977X >	P76
1006.60T	YE, YD BUILDS Grade L	P77
1006.60T	YG, YH, YJ, YK BUILDS	P78
1103C-33	DC, DF, DJ, XK BUILDS	P79
1103C/D-33	DC, XK BUILDS	P80
1103C-33T	DD, DE, DG, DK BUILDS	P81
1103C-33T	DD BUILD	P82
1103A/C-33T	DD, DK BUILDS	P83
1103D-33T	XL, XM BUILDS Tier 3	P84
1103D-33T	XL, XM BUILDS Tier 3	P85
1104C	RE, RF, RR BUILDS	P86
1104C	RE, RF, RR BUILDS	P87
1104C	RE, RF, RR BUILDS	P88

MODEL	COMMENTS	PAGE
1104C	RE, RF, RR BUILDS	P89
1104C-44T	RG, RH, RK, RS, RT BUILDS	P90
1104C-44T	RG, RJ, RK BUILDS	P91
1104A-44T	RS BUILD	P92
1104A-44T	RS BUILD	P93
1104C-44T	RG, RH BUILDS	P94
1104C-44T	RG, RH BUILDS	P95
1104D-44	NK BUILD Tier 3	P96
1104D-44	NK BUILD Tier 3	P97
1104D-44	NK BUILD Tier 3	P98
1104D-44T	NL, NM BUILDS Tier 3	P99
1104D-44T	NL, NM BUILDS Tier 3	P100
1104D-44T	NL, NM BUILDS Tier 3	P101
1104D-44T	NL, NM BUILDS Tier 3	P102
1104D-E44T	NH, NJ BUILDS Tier 3	P103
1106-E60TA	VK BUILD	P104

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
ALLIS CHALMERS				
40-50 Forklift	4.203	ESN U76357L >	JD22458	P17
700 Forklift	4.203	ESN U74103CL >	JD22028	P17
715B Loader	4.236	ESN > U106654N	LD22682	P28
715B Loader	4.236	ESN U106655N >	LD22682	P29
840 Loader	4.248		LF21617	P39
ACP40/50D	4.203		JD22533	P17
D175 Tractor	4.248		LF21274	P39
JCP 40-50 Forklift	4.203.2		JG80031	P23
BOBCAT				
Telehandler	1104C/E		RG37985	P90
V723 Forklift	1104C/E		RG	P90
CATERPILLAR				
6-8000 lb Forklift	4.236	ESN U106655N >	LD22242	P29
RT	G4.236	ESN > U106654N	LE70110	P30
RT	G4.236	ESN U106655N >	LE70110	P31
T500-1500	G4.236	ESN > U106654N	LE70148	P30
T500-1500	G4.236	ESN U106655N >	LE70148	P31
T50-150D	4.248.2		LG70109	P40
T80D	4.248.2		LG70149	P40
V/T40C Forklift	4.203.2		JG70092	P23
V100-140	G4.236	ESN > U106654N	LE70094	P30
V100-140	G4.236	ESN U106655N >	LE70094	P31
V40-60C Forklift	4.203.2		JG70020	P23
V60C	4.248.2		LG70069	P40

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
CLARK EQUIPMENT				
16000-30000	6.354.4		TW70007	**P48**
45C Shovel	6.354.4		TW70016	**P49**
C500 (H) 60-70-80D	4.203.2		JG70099	**P23**
C500 (H) 60-80	4.248.2		LG70159	**P40**
C500-160-300D	6.354.4		TW70142	**P48**
C500-CY-160-300	6.354		TC22266	**P42**
C500Y-100-150	4.248.2		LG70104	**P40**
C500Y-40-560	4.203.2		JG70100	**P23**
C500Y-40-560	4.203.2		JG70143	**P23**
C500-Y60	G4.236	ESN > U106654N	LE80173	**P30**
C500-Y60	G4.236	ESN > U106654N	LE22376	**P30**
C500-Y60	G4.236	ESN U106655N >	LE80173	**P31**
C500-Y60	G4.236	ESN U106655N >	LE22376	**P31**
C60-70-80	4.203		JD21383	**P16**
CTD20-50	4.248.2		LG70097	**P40**
CTD20-50	4.248.2		LG70106	**P40**
CY-30-40-55	4.203		JD21493	**P16**
CY40-60	4.203		JD22117	**P16**
CY60-70-80B	4.236	ESN > U106654N	LD21386	**P28**
CY60-70-80B	4.236	ESN U106655N >	LD21386	**P29**
Tow Tractor	4.236	ESN > U106654N	LD21324	**P28**
Tow Tractor	4.236	ESN U106655N >	LD21324	**P29**
EATON CORP				
Forklift	G4.203		JF22668	**P24**
Forklift	G4.236	ESN > U106654N	LE80177	**P30**
Forklift	G4.236	ESN U106655N >	LE80177	**P31**
GEHL				
4600 Skid Loader	4.108		ED70048	**P12**
Skid Steer Loader	1104C/E		RE37911	**P89**
HYSTER				
C300 Compactor	4.236	ESN > U106654N	LD70119	**P28**
C300 Compactor	4.236	ESN U106655N >	LD70119	**P29**
Forklift	1104C/E		RE38037/38	**P89**
H110-150	4.236	ESN > U106654N	LD70121	**P28**
H110-150F	4.236	ESN U106655N >	LD70121	**P29**
H150-250	6.354		TC20102	**P42**
H150-275-300-350H	6.354.4		TW70005	**P48**
H165-280 Forklift	1006.6		YA70217	**P74**
H40F	4.203		JD20074	**P16**
H40H	4.203		JD21708	**P16**
H60-110E	4.248.2		LG70127	**P40**
H60-80C	4.203.2		JG70040	**P23**
H60-80E	4.203.2		JG70113	**P23**
H60-80E	4.248.2		LG70063	**P40**
H70-155XL	1004.4		AA70218	**P67**
S60-100	4.236	ESN > U106654N	LD70115	**P28**
S60-100	4.236	ESN U106655N >	LD70115	**P29**
S60B-H60C	4.203		JD20680	**P16**
S80-S155XL	1004.4		AA70216	**P67**

MAXIFORCE® DIESELENGINEPARTS

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
INGRESOLL RAND COMPRESSORS				
DRP 85S 85CFM	D3.152	ESN U79698D >	CE22236	**P05**
MODEL 85	D3.152		CE21575	**P05**
JCB				
200 Loader	C4.236	ESN > U106654N	LH50205	**P32**
200 Loader	C4.236	ESN > U106654N	LH50226	**P32**
200 Loader	C4.236	ESN U106655N >	LH50205	**P33**
200 Loader	C4.236	ESN U106655N >	LH50226	**P33**
3CX Backhoe	4.236	ESN > U106654N	LD50096	**P26**
3CX Backhoe	4.236	ESN U106655N >	LD50096	**P27**
3CX Backhoe	C4.236	ESN > U106654N	LH50133	**P32**
3CX Backhoe	C4.236	ESN U106655N >	LH50133	**P33**
3CX Backhoe	1004.4		AA50508	**P67**
3CX Backhoe	1004.40T	ESN > U608300W (1992)	AB50609	**P69**
3CX Backhoe	1004.40T	ESN > U608300W (1992)	AB50279	**P69**
3CX Backhoe	1004.40T	ESN U608301W > (1992)	AB50609	**P70**
3CX Backhoe	1004.40T	ESN U608301W > (1992)	AB50279	**P70**
410 Loader	4.236	ESN > U106654N	LD50105	**P26**
410 Loader	4.236	ESN U106655N >	LD50105	**P27**
410M Forklift	T4.236	ESN U027774M >	LJ50201	**P34**
415 Loader	T4.236	ESN U027774M >	LJ50224	**P34**
415 Loader	1004.40T	ESN > U608300W (1992)	AB50253	**P69**
415 Loader	1004.40T	ESN U608301W > (1992)	AB50253	**P70**
418 Wheel Loader	T6.354.4		TU50037	**P53**
435 Front Loader	1006.60T	ESN > 557976X	YB50292	**P75**
435 Front Loader	1006.60T	ESN 557977X >	YB50292	**P76**
4CX Backhoe	T4.236	ESN U027774M >	LJ50117	**P34**
520 Handler	4.236	ESN > U106654N	LD50103	**P26**
520 Handler	4.236	ESN U106655N >	LD50103	**P27**
520S Loadall	T4.236	ESN U027774M >	LJ50183	**P34**
Backhoe	1004.40/40T		AK50628	**P72**
Backhoe Loader	1004.4		AA50608	**P67**
Backhoe Loader	1104C/E		RE38238	**P86**
Industrial	1006.6		YA50339	**P74**
Industrial	1104C/E		RE38082	**P87**
JCB Telehandler	1104C/E		RJ51136	**P91**
Shovel Loader	1004.40/40T		AM50610	**P72**
Sleevless Engine	1004.42		AR50690	**P73**
Telehandler	1104C/E		RE51141	**P88**
Telehandler	1104C/E		RG38084	**P91**
Wheel Loader	1006.6		YA50214	**P74**
JLG				
G5-18A	1104D	*	*	**P96**
G5-18A	1104D	*	*	**P97**
G5-18A	1104D	*	*	**P98**
LINCOLN ELECTRIC				
500 Amp Welder	4.236	ESN > U106654N	LD50148	**P28**
500 Amp Welder	4.236	ESN U106655N >	LD50148	**P29**
Welder	D3.152		CE95231	**P05**

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
LOAD LIFTER				
2200-10D	1104D-44T	*	*	**P99**
2200-10D	1104D-44T	*	*	**P100**
2200-10D	1104D-44T	*	*	**P101**
2200-10D	1104D-44T	*	*	**P102**
2200-12D	1104D-44T	*	*	**P99**
2200-12D	1104D-44T	*	*	**P100**
2200-12D	1104D-44T	*	*	**P101**
2200-12D	1104D-44T	*	*	**P102**
2200-18D	1104D-44T	*	*	**P99**
2200-18D	1104D-44T	*	*	**P100**
2200-18D	1104D-44T	*	*	**P101**
2200-18D	1104D-44T	*	*	**P102**
2200-4D	1104D-44T	*	*	**P99**
2200-4D	1104D-44T	*	*	**P100**
2200-4D	1104D-44T	*	*	**P101**
2200-4D	1104D-44T	*	*	**P102**
2200-5D	1104D-44T	*	*	**P99**
2200-5D	1104D-44T	*	*	**P100**
2200-5D	1104D-44T	*	*	**P101**
2200-5D	1104D-44T	*	*	**P102**
2200-6D	1104D-44T	*	*	**P99**
2200-6D	1104D-44T	*	*	**P100**
2200-6D	1104D-44T	*	*	**P101**
2200-6D	1104D-44T	*	*	**P102**
2200-8D	1104D-44T	*	*	**P99**
2200-8D	1104D-44T	*	*	**P100**
2200-8D	1104D-44T	*	*	**P101**
2200-8D	1104D-44T	*	*	**P102**
4400-10F	1104D-44T	*	*	**P99**
4400-10F	1104D-44T	*	*	**P100**
4400-10F	1104D-44T	*	*	**P101**
4400-10F	1104D-44T	*	*	**P102**
4400-12F	1104D-44T	*	*	**P99**
4400-12F	1104D-44T	*	*	**P100**
4400-12F	1104D-44T	*	*	**P101**
4400-12F	1104D-44T	*	*	**P102**
4400-18F	1106-E60TA	*	*	**P104**
4400-20F	1106-E60TA	*	*	**P104**
4400-5D	1104D-44T	*	*	**P99**
4400-5D	1104D-44T	*	*	**P100**
4400-5D	1104D-44T	*	*	**P101**
4400-5D	1104D-44T	*	*	**P102**
4400-6D	1104D-44T	*	*	**P99**
4400-6D	1104D-44T	*	*	**P100**
4400-6D	1104D-44T	*	*	**P101**
4400-6D	1104D-44T	*	*	**P102**
4400-8D	1104D-44T	*	*	**P99**
4400-8D	1104D-44T	*	*	**P100**
4400-8D	1104D-44T	*	*	**P101**
4400-8D	1104D-44T	*	*	**P102**

MAXIFORCE® DIESELENGINEPARTS

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
ARM8T36-E	1104D-44T	*	*	**P99**
ARM8T36-E	1104D-44T	*	*	**P100**
ARM8T36-E	1104D-44T	*	*	**P101**
ARM8T36-E	1104D-44T	*	*	**P102**
ARM8T42-E	1104D-44T	*	*	**P99**
ARM8T42-E	1104D-44T	*	*	**P100**
ARM8T42-E	1104D-44T	*	*	**P101**
ARM8T42-E	1104D-44T	*	*	**P102**
ARM-XL 20T32-E	1106-E60TA	*	*	**P104**
ARM-XL 20T42-E	1106-E60TA	*	*	**P104**
Laborer 6000	1104D-44T	*	*	**P99**
Laborer 6000	1104D-44T	*	*	**P100**
Laborer 6000	1104D-44T	*	*	**P101**
Laborer 6000	1104D-44T	*	*	**P102**
Laborer 8000	1104D-44T	*	*	**P99**
Laborer 8000	1104D-44T	*	*	**P100**
Laborer 8000	1104D-44T	*	*	**P101**
Laborer 8000	1104D-44T	*	*	**P102**
LK6M22	1104D-44T	*	*	**P99**
LK6M22	1104D-44T	*	*	**P100**
LK6M22	1104D-44T	*	*	**P101**
LK6M22	1104D-44T	*	*	**P102**
LK6M42	1104D-44T	*	*	**P99**
LK6M42	1104D-44T	*	*	**P100**
LK6M42	1104D-44T	*	*	**P101**
LK6M42	1104D-44T	*	*	**P102**
LK6P44-B	1104D-44T	*	*	**P99**
LK6P44-B	1104D-44T	*	*	**P100**
LK6P44-B	1104D-44T	*	*	**P101**
LK6P44-B	1104D-44T	*	*	**P102**
MHT 780	1104D-E44TA	*	*	**P99**
MHT 780	1104D-E44TA	*	*	**P100**
MHT 780	1104D-E44TA	*	*	**P101**
MHT 780	1104D-E44TA	*	*	**P102**
MANITEX LIFTKING				
2200-15D	1104D-44T	*	*	**P99**
2200-15D	1104D-44T	*	*	**P100**
2200-15D	1104D-44T	*	*	**P101**
2200-15D	1104D-44T	*	*	**P102**
2425 HERC	1106-E60TA	*	*	**P104**
842-GReach	1104D-44T	*	*	**P99**
842-GReach	1104D-44T	*	*	**P100**
842-GReach	1104D-44T	*	*	**P101**
842-GReach	1104D-44T	*	*	**P102**
ARM6T36-E	1104D-44T	*	*	**P99**
ARM6T36-E	1104D-44T	*	*	**P100**
ARM6T36-E	1104D-44T	*	*	**P101**
ARM6T36-E	1104D-44T	*	*	**P102**
LK10M22	1104D-44T	*	*	**P99**
LK10M22	1104D-44T	*	*	**P100**
LK10M22	1104D-44T	*	*	**P101**

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
LK10M22	1104D-44T	*	*	**P102**
LK10M42	1104D-44T	*	*	**P99**
LK10M42	1104D-44T	*	*	**P100**
LK10M42	1104D-44T	*	*	**P101**
LK10M42	1104D-44T	*	*	**P102**
LK12M22	1104D-44T	*	*	**P99**
LK12M22	1104D-44T	*	*	**P100**
LK12M22	1104D-44T	*	*	**P101**
LK12M22	1104D-44T	*	*	**P102**
LK12M42	1104D-44T	*	*	**P99**
LK12M42	1104D-44T	*	*	**P100**
LK12M42	1104D-44T	*	*	**P101**
LK12M42	1104D-44T	*	*	**P102**
LK16M22	1104D-44T	*	*	**P99**
LK16M22	1104D-44T	*	*	**P100**
LK16M22	1104D-44T	*	*	**P101**
LK16M22	1104D-44T	*	*	**P102**
LK16M42	1104D-44T	*	*	**P99**
LK16M42	1104D-44T	*	*	**P100**
LK16M42	1104D-44T	*	*	**P101**
LK16M42	1104D-44T	*	*	**P102**
LK20M22	1104D-44T	*	*	**P99**
LK20M22	1104D-44T	*	*	**P100**
LK20M22	1104D-44T	*	*	**P101**
LK20M22	1104D-44T	*	*	**P102**
LK20M42	1104D-44T	*	*	**P99**
LK20M42	1104D-44T	*	*	**P100**
LK20M42	1104D-44T	*	*	**P101**
LK20M42	1104D-44T	*	*	**P102**
LK20P22	1104D-44T	*	*	**P99**
LK20P22	1104D-44T	*	*	**P100**
LK20P22	1104D-44T	*	*	**P101**
LK20P22	1104D-44T	*	*	**P102**
LK20P44	1104D-44T	*	*	**P99**
LK20P44	1104D-44T	*	*	**P100**
LK20P44	1104D-44T	*	*	**P101**
LK20P44	1104D-44T	*	*	**P102**
LK25P44	1104D-44T	*	*	**P99**
LK25P44	1104D-44T	*	*	**P100**
LK25P44	1104D-44T	*	*	**P101**
LK25P44	1104D-44T	*	*	**P102**
LK8M22	1104D-44T	*	*	**P99**
LK8M22	1104D-44T	*	*	**P100**
LK8M22	1104D-44T	*	*	**P101**
LK8M22	1104D-44T	*	*	**P102**
LK8M42	1104D-44T	*	*	**P99**
LK8M42	1104D-44T	*	*	**P100**
LK8M42	1104D-44T	*	*	**P101**
LK8M42	1104D-44T	*	*	**P102**
LK8P44-B	1104D-44T	*	*	**P99**
LK8P44-B	1104D-44T	*	*	**P100**

MAXIFORCE® DIESELENGINEPARTS

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
LK8P44-B	1104D-44T	*	*	**P101**
LK8P44-B	1104D-44T	*	*	**P102**
MANITOU				
LK30P44	1106-E60TA	*	*	**P104**
MASSEY FERGUSON INDUSTRIAL				
20	D3.152	ESN > UA391044D		**P03**
20	D3.152	ESN UA391045DL >		**P04**
20	G3.152			**P09**
20C	D3.152	ESN > UA391044DS		**P06**
20C	D3.152	ESN UA391045DSL >		**P07**
30	D4.203	ESN 29C1085 >		**P20**
30B	D3.152	ESN > UA391044DS		**P06**
30B	D3.152	ESN UA391045DSL >		**P07**
35 Utility	3.152	ESN > 1935853		**P01**
35 Utility	3.152	ESN 1935854 >		**P02**
40	D3.152	ESN > UA391044D		**P03**
40	D3.152	ESN UA391045DL >		**P04**
40	G3.152			**P09**
40B	D4.203	ESN 29C1085 >		**P20**
50	D4.203	ESN 29C1085 >		**P20**
50C	4.236	ESN > U106654N	LD22824	**P26**
50C	4.236	ESN U106655N >	LD22824	**P27**
50H	4.248	ESN UA123424L >		**P38**
200 Crawler	D3.152	ESN > UA391044D		**P03**
203	3.152	ESN > 1935853		**P01**
203	3.152	ESN 1935854 >		**P02**
203	D3.152	ESN > UA391044D		**P03**
205	3.152	ESN > 1935853		**P01**
205	3.152	ESN 1935854 >		**P02**
205	D3.152	ESN > UA391044D		**P03**
302	D4.203	ESN 2939036 - 29C1084		**P19**
302	D4.203	ESN 29C1085 >		**P20**
304	D4.203	ESN 2939036 - 29C1084		**P19**
356 Tractor Shovel	4.203	ESN > 2820092		**P14**
356 Tractor Shovel	4.203	ESN 2820093 >		**P15**
356	D4.203	ESN 2939036 - 29C1084		**P19**
356	D4.203	ESN 29C1085 >		**P20**
365 Tractor Shovel	D4.203	ESN > 2939035		**P18**
2135	D3.152	ESN > UA391044D		**P03**
2200 Forklift & Treever	D3.152	ESN > UA391044D		**P03**
2244 Crawler	D3.152	ESN > UA391044D		**P03**
2500 Forklift	D3.152	ESN > UA391044D		**P03**
2500 Forklift	G3.152			**P09**
3165 Tractor Shovel	D4.203	ESN 2939036 - 29C1084		**P19**
3165 Tractor Shovel	D4.203	ESN 29C1085 >		**P20**
6000 Forklift	4.236	ESN > U106654N	LD22055	**P26**
MELROE				
E146 Loader	4.108		ED70075	**P12**
MICHIGAN				
45B ShoveL	6.354		TC22460	**P42**

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
NOBLE				
RC60 LoPro	1104C-44	*	*	**P86**
RC60 LoPro	1104C-44	*	*	**P87**
RC60 LoPro	1104C-44	*	*	**P88**
RC60 LoPro	1104C-44	*	*	**P89**
RT50	1104C-44	*	*	**P86**
RT50	1104C-44	*	*	**P87**
RT50	1104C-44	*	*	**P88**
RT50	1104C-44	*	*	**P89**
RT60	1104C-44	*	*	**P86**
RT60	1104C-44	*	*	**P87**
RT60	1104C-44	*	*	**P88**
RT60	1104C-44	*	*	**P89**
RT80	1104C-44	*	*	**P86**
RT80	1104C-44	*	*	**P87**
RT80	1104C-44	*	*	**P88**
RT80	1104C-44	*	*	**P89**
OMEGA LIFT				
446-AS	1104D-44T	*	*	**P99**
446-AS	1104D-44T	*	*	**P100**
446-AS	1104D-44T	*	*	**P101**
446-AS	1104D-44T	*	*	**P102**
1056 Reach	1104D-E44T	*	*	**P99**
1056 Reach	1104D-E44T	*	*	**P100**
1056 Reach	1104D-E44T	*	*	**P101**
1056 Reach	1104D-E44T	*	*	**P102**
2214-10	1104D-44T	*	*	**P99**
2214-10	1104D-44T	*	*	**P100**
2214-10	1104D-44T	*	*	**P101**
2214-10	1104D-44T	*	*	**P102**
2214-12	1104D-44T	*	*	**P99**
2214-12	1104D-44T	*	*	**P100**
2214-12	1104D-44T	*	*	**P101**
2214-12	1104D-44T	*	*	**P102**
2214-14	1104D-44T	*	*	**P99**
2214-14	1104D-44T	*	*	**P100**
2214-14	1104D-44T	*	*	**P101**
2214-14	1104D-44T	*	*	**P102**
2214-6	1104D-44T	*	*	**P99**
2214-6	1104D-44T	*	*	**P100**
2214-6	1104D-44T	*	*	**P101**
2214-6	1104D-44T	*	*	**P102**
2214-8	1104D-44T	*	*	**P99**
2214-8	1104D-44T	*	*	**P100**
2214-8	1104D-44T	*	*	**P101**
2214-8	1104D-44T	*	*	**P102**
2414-10	1104D-44T	*	*	**P99**
2414-10	1104D-44T	*	*	**P100**
2414-10	1104D-44T	*	*	**P101**
2414-10	1104D-44T	*	*	**P102**
2414-12	1104D-44T	*	*	**P99**

MAXIFORCE® DIESELENGINEPARTS

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
2414-12	1104D-44T	*	*	P100
2414-12	1104D-44T	*	*	P101
2414-12	1104D-44T	*	*	P102
2414-14	1104D-44T	*	*	P99
2414-14	1104D-44T	*	*	P100
2414-14	1104D-44T	*	*	P101
2414-14	1104D-44T	*	*	P102
2414-6	1104D-44T	*	*	P99
2414-6	1104D-44T	*	*	P100
2414-6	1104D-44T	*	*	P101
2414-6	1104D-44T	*	*	P102
2414-8	1104D-44T	*	*	P99
2414-8	1104D-44T	*	*	P100
2414-8	1104D-44T	*	*	P101
2414-8	1104D-44T	*	*	P102
2430 HERC	1106-E60TA	*	*	P104
2435 HERC 3	1106-E60TA	*	*	P104
2440 HERC 4	1106-E60TA	*	*	P104
2450 HERC 5	1106-E60TA	*	*	P104
4400-14F	1104D-E44T	*	*	P99
4400-14F	1104D-E44T	*	*	P100
4400-14F	1104D-E44T	*	*	P101
4400-14F	1104D-E44T	*	*	P102
4400-16F	1104D-E44T	*	*	P99
4400-16F	1104D-E44T	*	*	P100
4400-16F	1104D-E44T	*	*	P101
4400-16F	1104D-E44T	*	*	P102
4412T-16MS	1104D-44T	*	*	P99
4412T-16MS	1104D-44T	*	*	P100
4412T-16MS	1104D-44T	*	*	P101
4412T-16MS	1104D-44T	*	*	P102
4412T-18MS	1104D-44T	*	*	P99
4412T-18MS	1104D-44T	*	*	P100
4412T-18MS	1104D-44T	*	*	P101
4412T-18MS	1104D-44T	*	*	P102
4412T-20MS	1104D-44T	*	*	P99
4412T-20MS	1104D-44T	*	*	P100
4412T-20MS	1104D-44T	*	*	P101
4412T-20MS	1104D-44T	*	*	P102
4415T-10MS	1104D-44T	*	*	P99
4415T-10MS	1104D-44T	*	*	P100
4415T-10MS	1104D-44T	*	*	P101
4415T-10MS	1104D-44T	*	*	P102
4415T-12MS	1104D-44T	*	*	P99
4415T-12MS	1104D-44T	*	*	P100
4415T-12MS	1104D-44T	*	*	P101
4415T-12MS	1104D-44T	*	*	P102
4415T-8MS	1104D-44T	*	*	P99
4415T-8MS	1104D-44T	*	*	P100
4415T-8MS	1104D-44T	*	*	P101
4415T-8MS	1104D-44T	*	*	P102

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
44236-615	1104D-44T	*	*	**P99**
44236-615	1104D-44T	*	*	**P100**
44236-615	1104D-44T	*	*	**P101**
44236-615	1104D-44T	*	*	**P102**
44236-815	1104D-44T	*	*	**P99**
44236-815	1104D-44T	*	*	**P100**
44236-815	1104D-44T	*	*	**P101**
44236-815	1104D-44T	*	*	**P102**
ARM10T42-E	1104D-44T	*	*	**P99**
ARM10T42-E	1104D-44T	*	*	**P100**
ARM10T42-E	1104D-44T	*	*	**P101**
ARM10T42-E	1104D-44T	*	*	**P102**
ARM10T55-E	1104D-44T	*	*	**P99**
ARM10T55-E	1104D-44T	*	*	**P100**
ARM10T55-E	1104D-44T	*	*	**P101**
ARM10T55-E	1104D-44T	*	*	**P102**
ARM-XL 12T32-E	1104D-44TA	*	*	**P99**
ARM-XL 12T32-E	1104D-44TA	*	*	**P100**
ARM-XL 12T32-E	1104D-44TA	*	*	**P101**
ARM-XL 12T32-E	1104D-44TA	*	*	**P102**
ARM-XL 12T42-E	1104D-44TA	*	*	**P99**
ARM-XL 12T42-E	1104D-44TA	*	*	**P100**
ARM-XL 12T42-E	1104D-44TA	*	*	**P101**
ARM-XL 12T42-E	1104D-44TA	*	*	**P102**
ARM-XL 30T28-E	1106-E60TA	*	*	**P104**
TLT30 JCB Teletruk	404C-22T	*	*	**P59**
TLT30D 4x4 JCB Teletruk	404C-22T	*	*	**P59**
OWATTONA MFG				
445 Skid Loader	4.108		ED70035	**P12**
PERKINS USA				
General Genset	3.152.4		CM50184	**P10**
General Industrial	D4.203	ESN > U589378L	JE33174	**P21**
General Industrial	D4.203	ESN U589379L >	JE33174	**P22**
General Industrial	T4.236	ESN > U106654N	LJ70128	**P35**
General Industrial	T4.236	ESN U106655N >	LJ70128	**P36**
General Industrial	6.354.4		TW33425	**P48**
Genset	T4.236	ESN > U106654N	LJ70130	**P35**
Genset	T4.236	ESN > U106654N	LJ70151	**P35**
Genset	T4.236	ESN U106655N >	LJ70130	**P36**
Genset	T4.236	ESN U106655N >	LJ70151	**P36**
Genset	1004.4		AA37530	**P68**
Genset	1103A		DK51280	**P83**
Genset	1104C/E		RE51215	**P86**
Power Units	1006.60T	ESN > 557976X	YB30127	**P75**
Power Units	1006.60T	ESN > 557976X	YB30650	**P75**
Power Units	1006.60T	ESN 557977X >	YB30127	**P76**
RG WILSON				
Generator Set	3.152.4		CM33513	**P10**
SULLAIR CORP				
185-250 Compressor	4.236	ESN > U106654N	LD70147	**P28**
185-250 Compressor	4.236	ESN U106655N >	LD70147	**P29**

MAXIFORCE® DIESELENGINEPARTS

Material Handling and Industrial Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
SULLAIR CORP				
Compressor	D4.203	ESN > U589378L	JE70033	**P21**
Compressor	D4.203	ESN U589379L >	JE70033	**P22**
Genset	T4.236	ESN > U106654N	LJ70155	**P35**
Genset	T4.236	ESN U106655N >	LJ70155	**P36**
TOVEL				
TL20-22-25 Tovelazer	1004.40T	*	*	**P69**
TL20-22-25 Tovelazer	1004.40T	*	*	**P70**
TL20-22-25 Tovelazer	1004.40T	*	*	**P71**
TL20-22-25 Tovelazer	1004.40T	*	*	**P72**
TL6-44-36 Tovelazer	1004.40T	*	*	**P69**
TL6-44-36 Tovelazer	1004.40T	*	*	**P70**
TL6-44-36 Tovelazer	1004.40T	*	*	**P71**
TL6-44-36 Tovelazer	1004.40T	*	*	**P72**
TS18-44	1006.60T	*	*	**P75**
TS18-44	1006.60T	*	*	**P76**
TS18-44	1006.60T	*	*	**P77**
TS18-44	1006.60T	*	*	**P78**
TS6-44	1004.42	*	*	**P73**
TS8-44	1004.42	*	*	**P73**
TOWMOTOR				
V100	4.236	ESN > U106654N	LD22043	**P28**
V100	4.236	ESN > U106654N	LD22044	**P28**
V100	4.236	ESN U106655N >	LD22043	**P29**
V100	4.236	ESN U106655N >	LD22044	**P29**
V120	4.236	ESN > U106654N	LD22043	**P28**
V120	4.236	ESN > U106654N	LD22044	**P28**
V120	4.236	ESN U106655N >	LD22043	**P29**
V120	4.236	ESN U106655N >	LD22044	**P29**
V140	4.236	ESN > U106654N	LD22043	**P28**
V140	4.236	ESN > U106654N	LD22044	**P28**
V140	4.236	ESN U106655N >	LD22043	**P29**
V140	4.236	ESN U106655N >	LD22044	**P29**
VERMEER MFG				
M434-4 Trencher	4.108		ED70044	**P12**

Agricultural Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
JACOBSEN MFG CO				
H-15 & F10 Turf Tractor	G4.236	ESN > U106654N	LE70054	**P30**
H-15 & F10 Turf Tractor	G4.236	ESN U106655N >	LE70054	**P31**
LANDINI TRACTORS				
4500	D3.152	ESN UA391045DL >		**P04**
4830	D3.152	ESN UA391045DL >		**P04**
5500	D3.152	ESN UA391045DSL >		**P07**
5530	D3.152	ESN UA391045DSL >		**P07**
5530F	D3.152	ESN UA391045DSL >		**P07**
5830	D3.152	ESN UA391045DSL >		**P07**
5840	D3.152	ESN UA391045DSL >		**P07**
6500/6550	4.236	ESN > U106654N	LD22573	**P26**
6830/7830	4.236	ESN > U106654N		**P26**
7500/7550	4.236	ESN > U106654N	LD22574	**P26**
6500/6550	4.236	ESN U106655N >	LD22573	**P27**
6830/7830	4.236	ESN U106655N >		**P27**
7500/7550	4.236	ESN U106655N >	LD22574	**P27**
R8500	4.248	ESN UA123424L >	LF22575	**P38**
MASSEY FERGUSON AGRICULTURAL				
35	3.152	ESN > 1935853		**P01**
35	3.152	ESN 1935854 >		**P02**
50	3.152	ESN > 1935853		**P01**
50	3.152	ESN 1935854 >		**P02**
65	4.203	ESN > 2820092		**P14**
65	4.203	ESN 2820093 >		**P15**
65	D4.203	ESN > 2939035		**P18**
65	D4.203	ESN 2939036 - 29C1084		**P19**
65	D4.203	ESN 29C1085 >		**P20**
135	D3.152	ESN > UA391044D		**P03**
135	D3.152	ESN UA391045DL >		**P04**
135	G3.152			**P09**
150	D3.152	ESN > UA391044D		**P03**
150	G3.152			**P09**
165	D4.203	ESN 2939036 - 29C1084		**P19**
165	D4.203	ESN 29C1085 >		**P20**
175	4.236	ESN > U106654N	LD20022	**P26**
175	4.236	ESN U106655N >	LD20022	**P27**
194	4.248	ESN UA123424L >	LF22762	**P38**
230	D3.152	ESN > UA391044D		**P03**
230	D3.152	ESN UA391045DL >		**P04**
235	D3.152	ESN > UA391044D		**P03**
235	D3.152	ESN UA391045DL >		**P04**
235	D3.152	ESN > UA391044DS CE22309		**P06**
235	D3.152	ESN UA391045DSL >	CE22309/10/11	**P07**
245	D3.152	ESN > UA391044DS		**P06**
245	D3.152	ESN UA391045DSL >		**P07**
250	D3.152	ESN UA391045DSL >	CE31089	**P07**
250	D3.152		CE22488	**P08**
253	T3.152.4		CN31219	**P11**
255	D4.203	ESN 2939036 - 29C1084		**P19**
255	D4.203	ESN 29C1085 >		**P20**
255	4.236	ESN > U106654N	LD22694/5	**P26**

MAXIFORCE® DIESELENGINEPARTS

Agricultural Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
255	4.236	ESN U106655N >	LD22694/5	**P27**
264	T3.152.4		CN31214	**P11**
275	4.236	ESN > U106654N	LD22051/2	**P26**
275	4.236	ESN U106655N >	LD22051/2	**P27**
275	4.248	ESN UA123424L >	LF22312/3	**P38**
275 Tractor	4.248	ESN > UA123423L		**P37**
285	4.248	ESN UA123424L >	LF22471	**P38**
285	4.318		NC22089	**P41**
290	4.248	ESN UA123424L >	LF22790	**P38**
300 Combine	D4.203	ESN 2939036 - 29C1084		**P19**
300 Combine	D4.203	ESN 29C1085 >		**P20**
355	T3.152.4		CN31187	**P11**
362	4.236	ESN U106655N >	LD31234	**P27**
396	1006.6		YA31257	**P74**
399	1006.6		YA31240	**P74**
410	1103		DC38027	**P79**
420	1103T		DD38078	**P81**
430	1103T		DD38311	**P81**
431	1103		DC38077	**P79**
461	1103T		DD38078	**P81**
471	1104C/E		RE37827	**P88**
481	1104C/E		RE37830	**P88**
491	1104C/E		RE37828	**P94**
492	1104C/E		RE37829	**P94**
540 Combine	4.318		NC22699	**P41**
560	T6.354.4		TU31074	**P52**
560	T6.354.4		TU31126	**P52**
590	4.248	ESN UA123424L >	LF22486	**P38**
660	T6.354.4		TU31076	**P52**
698	T4.236	ESN U106655N >	LJ31131	**P34**
699	6.354.4		TW31125	**P50**
750	T/TC6.354.1			**P45**
760	T/TC6.354.1	ESN UA48970L >	TH21794	**P45**
TX850	T6.354.4		TU31006	**P52**
1014	6.354.4		TW31087	**P48**
1085	4.318		NC21725	**P41**
1100	6.354	ESN > 354UA10361		**P42**
1100	6.354	ESN 354UA10362 >		**P43**
1105	T/TC6.354.1		TT21724	**P45**
1130	T6.354	ESN > 354UA3355T		**P44**
1130	T/TC6.354.1	ESN 354UA3356T >		**P45**
1135	T/TC6.354.1		TH22431/TH21722	**P45**
2675	6.354.4		TW31008	**P50**
2680	T6.354.4		TU31045/46	**P53**
2685	T6.354.4		TU31045/46	**P53**
3065	T4.236	ESN U106655N >	LJ31217	**P34**
3090	6.354.4		TW31159	**P50**
3370	T4.236	ESN U106655N >	LJ31153	**P34**
3425C	1104C/E		RE38157	**P88**
3425F	1103T		DD37992	**P81**
3425GE	1103T		DD37992	**P81**
3425GEV	1103T		DD37992	**P81**

Agricultural Application Equipment Chart

EQUIPMENT MODEL	*ENGINE*	*ENGINE SERIAL NUMBER*	*BUILD NUMBER*	*PAGE*
3425S	1103T		DD37992	**P81**
3435F	1104C/E		RE37990	**P88**
3435GE	1104C/E		RE37990	**P88**
3435GEV	1104C/E		RE37990	**P88**
3435S	1104C/E		RE37990	**P88**
3435V	1104C/E		RE37990	**P88**
3455F	1104C/E		RG37989	**P94**
3455GE	1104C/E		RG37989	**P94**
3455GEV	1104C/E		RG37989	**P94**
3455SF	1104C/E		RG37991	**P94**
3455SGE	1104C/E		RG37991	**P94**
3455SGEV	1104C/E		RG37991	**P94**
3530	T6.354.4		TU31143	**P53**
3625	1006.60T	ESN > 557976X	YB31245	**P75**
3625	1006.60T	ESN 557977X >	YB31245	**P76**
5425	1104C/E		RE37873	**P88**
5425	1104C/E		RE37917	**P88**
5425	1104C/E		RE37831	**P88**
5425	1104C/E		RE37919	**P88**
5435T	1104C/E		RG38401	**P94**
5435T	1104C/E		RG38402	**P94**
5445	1104C/E		RG37832	**P94**
5445	1104C/E		RG37915	**P94**
5445	1104C/E		RG38120	**P94**
5445	1104C/E		RG38121	**P94**
5460	1104C/E		RG37833	**P94**
5460	1104C/E		RG51400	**P94**
5465	1106T		VK31483	**P104**
5465	1106T		VK31486	**P104**
5465	1106T		VK31505	**P104**
6180	1006.60T		YH31310	**P78**
6360	1106T		VK31483	**P104**
6370	1106T		VK31484	**P104**
6380	1106T		VK31485	**P104**
6445	1104C/E		RG37832	**P94**
6445	1104C/E		RG37915	**P94**
6445	1104C/E		RG38120	**P94**
6445	1104C/E		RG38121	**P94**
6465	1106T		VK31483	**P104**
6465	1106T		VK31486	**P104**
6465	1106T		VK31505	**P104**
6475	1106T		VK31484	**P104**
6475	1106T		VK31487	**P104**
6475	1106T		VK31503	**P104**
6475	1106T		VK31506	**P104**
6480	1106T		VK31485	**P104**
6480	1106T		VK31507	**P104**
7465	1106T		VK31486	**P104**
7465	1106T		VK31505	**P104**
7475	1106T		VK31487	**P104**
7475	1106T		VK31503	**P104**
7475	1106T		VK31506	**P104**

MAXIFORCE® DIESELENGINEPARTS

Agricultural Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
7480	1106T		VK31507	**P104**
RX95	T6.354.4		TU31010	**P53**
Tractor	1004.40/40T		AK31299	**P72**
Tractor	1104C/E		RE38396	**P87**
Tractor	1104C/E		RE38396	**P91**
TX550 Combine	6.354.4		TW31015	**P48**
TX750	T6.354.4		TU31006	**P52**
McCORMICK				
MTX110	1006.60T		YH50918	**P78**
MTX125	1006.60T		YH50919	**P78**
MTX140	1006.60T		YH50920	**P78**
MTX155	1006.60T		YH50921	**P78**
MTX170	1006.60T		YJ51192	**P78**
Wheeled Tractors	1106T		VK37779 to VK37787	**P104**
NEW HOLLAND				
Stack Cruiser	6.354.4		TW70031	**P49**
NEW IDEA				
Combine	T/TC6.354.1		TH22481	**P45**
SPERRY NEW HOLLAND				
L555 Skid Loader	4.108		ED70077	**P12**
L779 Skid Steer Loader	4.203.2		JG70043	**P23**
L779 Skid Steer Loader	4.203.2		JG70156	**P23**
WHITE FARM				
2-85 Tractor	6.354.1		TG22453	**P46**
2-85 Tractor	6.354.4		TW70008	**P50**
2-105	T/TC6.354.1		TH22282	**P45**
2-105	T/TC6.354.4		TU70018	**P53**
7600 Combine	6.354.2		TJ22189	**P47**
8600 Combine	6.354.4		TW70114	**P48**
8600 Combine	6.354.4		TW70003	**P49**
8800 Combine	T6.354.4		TU70001	**P52**

Marine Application Equipment Chart

EQUIPMENT MODEL	ENGINE	ENGINE SERIAL NUMBER	BUILD NUMBER	PAGE
Commercial/Pleasure Craft	4.108		ED70058	**P13**
Commercial/Pleasure Craft	6.354.4		TW70087	**P51**
Perkins USA	4.108		ED22195	**P13**
Pleasure Craft	4.108		ED33210	**P13**
Pleasure Craft	4.108		ED50033	**P13**
Pleasure Craft	6.354.4		TW33196/7	**P51**
Pleasure Craft	T6.354.4		TU33203	**P54**
Pleasure Craft	T6.354.4		TU70025	**P54**
Pleasure Craft	T6.354.4		TU70027	**P54**
44GM Electropak	1004.4		AA30415	**P68**
44GM Electropak	1004.4		AA30416	**P68**
4.4TGM	1104C/E		RG30881	**P95**
44TW2GM	1104C/E		RJ30890	**P90**

* Choose proper engine for this application. In doubt call our Technical upport line **(800) 414-2095.**

Generator Application Chart

EQUIPMENT MODEL	*KW RANGE*	*CYLINDERS*	*ENGINE*	*PAGE*
AKSA				
ADP-EPAP13	13-12	3	403D-15G	**P58**
ADP-EPAP13S	13-12	3	403D-15G	**P58**
ADP-EPAP20	20-18	4	404D-22G	**P62**
ADP-EPAP20S	20-18	4	404D-22G	**P62**
ADP-EPAP28	28-26	4	404D-22TG	**P63**
ADP-EPAP28S	28-26	4	404D-22TG	**P63**
ADP-EPAP30	30-27	4	404D-TGA	**P64**
ADP-EPAP30S	30-27	4	404D-TGA	**P64**
ADP-EPAP56/S	56-51	4	1104D-44TG1	**P99**
ADP-EPAP56/S	56-51	4	1104D-44TG1	**P100**
ADP-EPAP56/S	56-51	4	1104D-44TG1	**P101**
ADP-EPAP56/S	56-51	4	1104D-44TG1	**P102**
ADP-EPAP65/S	65-69	4	1104D-E44TG1	**P103**
ADP-EPAP82	82-73	4	1104D-E44TAG1	**P103**
ADP-EPAP100/S	100-90	4	1104D-E44TAG2	**P103**
ADP-ULP13	13-12	3	403D-15G	**P58**
ADP-ULP20	20-18	4	404D-22G	**P62**
ADP-ULP28	28-26	4	404D-22TG	**P63**
ADP-ULP30	30-27	4	404D-22TAG	**P64**
ADP-ULP56	56-51	4	1104D-44TG1	**P99**
ADP-ULP56	56-51	4	1104D-44TG1	**P100**
ADP-ULP56	56-51	4	1104D-44TG1	**P101**
ADP-ULP56	56-51	4	1104D-44TG1	**P102**
ADP-ULP65	65-69	4	1104D-E44TG1	**P103**
ADP-ULP82	82-73	4	1104D-E44TAG1	**P103**
ADP-ULP100	100-90	4	1104D-E44TAG2	**P103**
AT30	30-27	4	404D-22TAG	**P64**
AT56	56-51	4	1104D-44TG1	**P99**
AT56	56-51	4	1104D-44TG1	**P100**
AT56	56-51	4	1104D-44TG1	**P101**
AT56	56-51	4	1104D-44TG1	**P102**
AT65	65-59	4	1104D-E44TG1	**P103**
AT82	82-73	4	1104D-E44TAG1	**P103**
AT100	100-90	4	1104D-E44TAG2	**P103**
FG WILSON				
P10P2S	7.5-18	3	403C-15	**P56**
P11-4S	7.5-18	3	403C-15	**P56**
P11-6S	7.5-18	3	403C-15	**P56**
P11E2S	7.5-18	3	403C-15	**P56**
P12.5-P2	7.5-18	3	403C-15	**P56**
P13.5-4	7.5-18	3	403C-15	**P56**
P13.5-6	7.5-18	3	403C-15	**P56**
P13.5E2	7.5-18	3	403C-15	**P56**
PH17.5E2S	7.5-18	3	403C-15	**P56**
PH22E2	7.5-18	3	403C-15	**P56**
P24P2S	20-27	3	1103 C/B/A/D-33	**P79**
P24P2S	20-27	3	1103 C/B/A/D-33	**P80**
P26-1S/2S	20-27	3	1103 C/B/A/D-33	**P79**
P26-1S/2S	20-27	3	1103 C/B/A/D-33	**P80**
P26E1S	20-27	3	1103 C/B/A/D-33	**P79**
P26E1S	20-27	3	1103 C/B/A/D-33	**P80**

MAXIFORCE® DIESELENGINEPARTS

Generator Application Chart

EQUIPMENT MODEL	KW RANGE	CYLINDERS	ENGINE	PAGE
P27P1	20-27	3	1103 C/B/A/D-33	**P79**
P27P1	20-27	3	1103 C/B/A/D-33	**P80**
P30E1/E2	20-27	3	1103 C/B/A/D-33	**P79**
P30E1/E2	20-27	3	1103 C/B/A/D-33	**P80**
P30P1/P2	20-27	3	1103 C/B/A/D-33	**P79**
P30P1/P2	20-27	3	1103 C/B/A/D-33	**P80**
P33-1/2	20-27	3	1103 C/B/A/D-33	**P79**
P33-1/2	20-27	3	1103 C/B/A/D-33	**P80**
P33E1/E2	20-27	3	1103 C/B/A/D-33	**P79**
P33E1/E2	20-27	3	1103 C/B/A/D-33	**P80**
P32P2S	20-27	3	1103C/A-33T	**P83**
P32P3S	20-27	3	1103C/A-33T	**P83**
P35-1S	35-40	3	1103C/A-33T	**P83**
P35-2S	35-40	3	1103C/A-33T	**P83**
P35E2S	35-40	3	1103C/A-33T	**P83**
P35E3S	35-40	3	1103C/A-33T	**P83**
P40P1S	35-40	3	1103C/A-33T	**P83**
P40P2	35-40	3	1103C/A-33T	**P83**
P40P3	35-40	3	1103C/A-33T	**P83**
P44E1S	44-45	3	1103C/A-33T	**P83**
P44E2	44-45	3	1103C/A-33T	**P83**
P44E3	44-45	3	1103C/A-33T	**P83**
P45P2	44-45	3	1103C/A-33T	**P83**
P45P3/S	44-45	3	1103C/A-33T	**P83**
P50-1/S	50-55	3	1103C/A-33T	**P83**
P50-2	50-55	3	1103C/A-33T	**P83**
P50E2/E3	50-55	3	1103C/A-33T	**P83**
P50E3S	50-55	3	1103C/A-33T	**P83**
P50P1	50-55	3	1103C/A-33T	**P83**
P55-1/E1	50-55	3	1103C/A-33T	**P83**
P60P3	55-64	3	1103C/A-33T	**P83**
P65-1	65-80	3	1103C/A-33T	**P83**
P65E3	65-80	3	1103C/A-33T	**P83**
P13P2S	7.5-18	4	404C-22	**P60**
P14-4S/6S	7.5-18	4	404C-22	**P60**
P14E2S	7.5-18	4	404C-22	**P60**
P15P2S	7.5-18	4	404C-22	**P60**
P16.5-4S/6S	7.5-18	4	404C-22	**P60**
P16.5E2S	7.5-18	4	404C-22	**P60**
P16.5P2	7.5-18	4	404C-22	**P60**
P18-6		4	404C-22	**P60**
P18E2	7.5-18	4	404C-22	**P60**
P20P2	20-27	4	404C-22	**P60**
P22-4/6	20-27	4	404C-22	**P60**
P22E2	20-27	4	404C-22	**P60**
P27P1S	20-27	4	1004.40	**P67**
P27P1S	20-27	4	1004.40	**P68**
P30E1S	20-27	4	1004.40	**P67**
P30E1S	20-27	4	1004.40	**P68**
P32P1S	20-27	4	1004.40	**P67**
P32P1S	20-27	4	1004.40	**P68**
P35E1S	35-40	4	1004.40	**P67**

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Generator Application Chart

EQUIPMENT MODEL	*KW RANGE*	*CYLINDERS*	*ENGINE*	*PAGE*
P35E1S	35-40	4	1004.40	**P68**
P36P1S	35-40	4	1004.40	**P67**
P36P1S	35-40	4	1004.40	**P68**
P40E1S	35-40	4	1004.40	**P67**
P40E1S	35-40	4	1004.40	**P68**
P40P1S	35-40	4	1004.40	**P67**
P40P1S	35-40	4	1004.40	**P68**
P40P2S	35-40	4	1104C/A-E44T	**P90**
P40P2S	35-40	4	1104C/A-E44T	**P91**
P40P2S	35-40	4	1104C/A-E44T	**P94**
P44E1	44-45	4	1004.40	**P67**
P44E1	44-45	4	1004.40	**P68**
P44E2S	44-45	4	1104C/A-E44T	**P90**
P44E2S	44-45	4	1104C/A-E44T	**P91**
P44E2S	44-45	4	1104C/A-E44T	**P94**
P45P1	44-45	4	1004.40	**P67**
P45P1	44-45	4	1004.40	**P68**
P45P1S	44-45	4	1004.40T	**P70**
P45P2S	44-45	4	1104C/A-E44T	**P90**
P45P2S	44-45	4	1104C/A-E44T	**P91**
P45P2S	44-45	4	1104C/A-E44T	**P94**
P50-2S	50-55	4	1104C/A-E44T	**P90**
P50-2S	50-55	4	1104C/A-E44T	**P91**
P50-2S	50-55	4	1104C/A-E44T	**P94**
P50-3S	50-55	4	1104A-44T	**P92**
P50E1	50-55	4	1004.40	**P67**
P50E1	50-55	4	1004.40	**P68**
P50E1S	50-55	4	1004.40T	**P70**
P50E2S	50-55	4	1104C/A-E44T	**P90**
P50E2S	50-55	4	1104C/A-E44T	**P91**
P50E2S	50-55	4	1104C/A-E44T	**P94**
P50P2	50-55	4	1104C/A-E44T	**P90**
P50P2	50-55	4	1104C/A-E44T	**P91**
P50P2	50-55	4	1104C/A-E44T	**P94**
P55-2	50-55	4	1104C/A-E44T	**P90**
P55-2	50-55	4	1104C/A-E44T	**P91**
P55-2	50-55	4	1104C/A-E44T	**P94**
P55E2	50-55	4	1104C/A-E44T	**P90**
P55E2	50-55	4	1104C/A-E44T	**P91**
P55E2	50-55	4	1104C/A-E44T	**P94**
P56P1S	55-64	4	1004.40T	**P70**
P58P1S	55-64	4	1104A-44T	**P92**
P58P2S	55-64	4	1104C/A-E44T	**P90**
P58P2S	55-64	4	1104C/A-E44T	**P91**
P58P2S	55-64	4	1104C/A-E44T	**P94**
P60P1	55-64	4	1004.40T	**P70**
P60P2	55-64	4	1104C/A-E44T	**P90**
P60P2	55-64	4	1104C/A-E44T	**P91**
P60P2	55-64	4	1104C/A-E44T	**P94**
P62E1S	55-64	4	1004.40T	**P70**
P64E1S	55-64	4	1104A-44T	**P92**
P64E2S	55-64	4	1104C/A-E44T	**P90**

MAXIFORCE® DIESELENGINEPARTS

Generator Application Chart

EQUIPMENT MODEL	KW RANGE	CYLINDERS	ENGINE	PAGE
P64E2S	55-64	4	1104C/A-E44T	P91
P64E2S	55-64	4	1104C/A-E44T	P94
P65-2	65-80	4	1104C/A-E44T	P90
P65-2	65-80	4	1104C/A-E44T	P91
P65-2	65-80	4	1104C/A-E44T	P94
P65E1	65-80	4	1004.40T	P70
P65-E2	65-80	4	1104C/A-E44T	P90
P65-E2	65-80	4	1104C/A-E44T	P91
P65-E2	65-80	4	1104C/A-E44T	P94
P65-3	65-80	4	1104A-44T	P92
P72SP1	65-80	4	1004.40T	P70
P72P2S	65-80	4	1104C/A-E44T	P90
P72P2S	65-80	4	1104C/A-E44T	P91
P72P2S	65-80	4	1104C/A-E44T	P94
P75P1	65-80	4	1004.40T	P70
P80-2S	65-80	4	1104C/A-E44T	P90
P80-2S	65-80	4	1104C/A-E44T	P91
P80-2S	65-80	4	1104C/A-E44T	P94
P80E2S	65-80	4	1104C/A-E44T	P90
P80E2S	65-80	4	1104C/A-E44T	P91
P80E2S	65-80	4	1104C/A-E44T	P94
P80ESP1	65-80	4	1004.40T	P70
P80P1	65-80	4	1104A-44T	P92
P80P2	65-80	4	1104C/A-E44T	P90
P80P2	65-80	4	1104C/A-E44T	P91
P80P2	65-80	4	1104C/A-E44T	P94
P80SP1	65-80	4	1004.40T	P70
P83E1	83-100	4	1004.40T	P70
P88-1	83-100	4	1104A-44T	P92
P88E1	83-100	4	1104A-44T	P92
P88-2	83-100	4	1104C/A-E44T	P90
P88-2	83-100	4	1104C/A-E44T	P91
P88-2	83-100	4	1104C/A-E44T	P94
P88E2	83-100	4	1104C/A-E44T	P90
P88E2	83-100	4	1104C/A-E44T	P91
P88E2	83-100	4	1104C/A-E44T	P94
P88ESP1	83-100	4	1004.40T	P70
P96SP1	83-100	6	1006.60T	P77
P100	83-100	4	1004.40T	P70
P100E	83-100	4	1004.40T	P70
P100P1	83-100	4	1104C/A-E44T	P90
P100P1	83-100	4	1104C/A-E44T	P91
P100P1	83-100	4	1104C/A-E44T	P94
P100P2	83-100	4	1104C/A-E44T	P90
P100P2	83-100	4	1104C/A-E44T	P91
P100P2	83-100	4	1104C/A-E44T	P94
P110-2	105-160	4	1104C/A-E44T	P90
P110-2	105-160	4	1104C/A-E44T	P91
P110-2	105-160	4	1104C/A-E44T	P94
P110E1	105-160	4	1104C/A-E44T	P90
P110E1	105-160	4	1104C/A-E44T	P91
P110E1	105-160	4	1104C/A-E44T	P94

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Generator Application Chart

EQUIPMENT MODEL	*KW RANGE*	*CYLINDERS*	*ENGINE*	*PAGE*
P110E2	105-160	4	1104C/A-E44T	**P90**
P110E2	105-160	4	1104C/A-E44T	**P91**
P110E2	105-160	4	1104C/A-E44T	**P94**
P150-1	105-160	6	1006.60T	**P77**
P150E	105-160	6	1006.60T	**P77**
P150P1	105-160	6	1006.60T	**P77**
P165-1	165-230	6	1006.60T	**P77**
P165-2	165-230	6	1006.60T	**P77**
P165E1	165-230	6	1006.60T	**P77**
P188E1	165-230	6	1006.60T	**P77**
PH24E2S	7.5-18	4	404C-22	**P60**
PH28E2S	20-27	4	404C-22	**P60**
PH30E2	20-27	4	404C-22	**P60**
PH35E2	20-27	4	404C-22	**P60**
XP24P1S	20-27	3	1103 C/B/A/D-33	**P79**
XP24P1S	20-27	3	1103 C/B/A/D-33	**P80**
XP26E1S	20-27	3	1103 C/B/A/D-33	**P79**
XP26E1S	20-27	3	1103 C/B/A/D-33	**P80**
XP27P1	20-27	3	1103 C/B/A/D-33	**P79**
XP27P1	20-27	3	1103 C/B/A/D-33	**P80**
XP27P1S	20-27	4	1004.40	**P67**
XP27P1S	20-27	4	1004.40	**P68**
XP30E1	20-27	3	1103 C/B/A/D-33	**P79**
XP30E1	20-27	3	1103 C/B/A/D-33	**P80**
XP33E1	20-27	3	1103 C/B/A/D-33	**P79**
XP33E1	20-27	3	1103 C/B/A/D-33	**P80**
XP30P1	20-27	3	1103 C/B/A/D-33	**P79**
XP30P1	20-27	3	1103 C/B/A/D-33	**P80**
XP32P1S	20-27	4	1004.40	**P67**
XP32P1S	20-27	4	1004.40	**P68**
XP32P3S	20-27	3	1103C/A-33T	**P83**
XP35E1S	35-40	4	1004.40	**P67**
XP35E1S	35-40	4	1004.40	**P68**
XP35E3S	35-40	3	1103C/A-33T	**P83**
XP36P1S	35-40	4	1004.40	**P67**
XP36P1S	35-40	4	1004.40	**P68**
XP40P1	35-40	4	1004.40	**P67**
XP40P1	35-40	4	1004.40	**P68**
XP40P1S	35-40	3	1103C/A-33T	**P83**
XP40P3	35-40	3	1103C/A-33T	**P83**
XP44E1	44-45	4	1004.40	**P67**
XP44E1	44-45	4	1004.40	**P68**
XP44E1S	44-45	3	1103C/A-33T	**P83**
XP44E3	44-45	3	1103C/A-33T	**P83**
XP45P1	44-45	4	1004.40	**P67**
XP45P1	44-45	4	1004.40	**P68**
XP45P1S	44-45	4	1004.40T	**P70**
XP45P3	44-45	3	1103C/A-33T	**P83**
XP45P3S	44-45	3	1103C/A-33T	**P83**
XP50E1	50-55	4	1004.40	**P67**
XP50E1	50-55	4	1004.40	**P68**
XP50E1S	50-55	4	1004.40T	**P70**

MAXIFORCE® DIESELENGINEPARTS

Generator Application Chart

EQUIPMENT MODEL	KW RANGE	CYLINDERS	ENGINE	PAGE
XP50E3	50-55	3	1103C/A-33T	**P83**
XP50E3S	50-55	3	1103C/A-33T	**P83**
XP50P1	50-55	3	1103C/A-33T	**P83**
XP55E1	50-55	3	1103C/A-33T	**P83**
XP58P1S	55-64	4	1104A-44T	**P92**
XP60P1	50-55	4	1004.40T	**P70**
XP60P3	55-64	3	1103C/A-33T	**P83**
XP64E1S	55-64	4	1104A-44T	**P92**
XP65E1	65-80	4	1004.40T	**P70**
XP65E3	65-80	3	1103C/A-33T	**P83**
XP75P1	65-80	4	1004.40T	**P70**
XP83E1	83-100	4	1004.40T	**P70**
XP88E1	83-100	4	1104A-44T	**P92**
XP90	83-100	4	1004.40T	**P70**
XP100	83-100	4	1004.40T	**P70**
XP100E	83-100	4	1004.40T	**P70**
XP110E	105-160	6	1006.60T	**P76**
XP110E	105-160	6	1006.60T	**P77**
XP135	105-160	6	1006.60T	**P77**
XP150E	105-160	6	1006.60T	**P77**
XP150P1	105-160	6	1006.60T	**P77**
KZ POWER				
KZP-G15	12	3	403D-15	**P58**
KZP-G33	24-26.4	3	1103A-33T	**P79**
KZP-G50	36-40	3	1103A-33T	**P81**
KZP-G50	36-40	3	1103A-33T	**P83**
KZP-G66	48-52.8	3	1103A-33T	**P81**
KZP-G66	48-52.8	3	1103A-33T	**P83**
KZP-G72	52-57.6	4	1104A-44T	**P90**
KZP-G72	52-57.6	4	1104A-44T	**P93**
KZP-G88	64-70.4	4	1104A-44T	**P90**
KZP-G88	64-70.4	4	1104A-44T	**P93**
KZP-G110	80-88	4	1104C-44TA	**P91**

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Engine & Equipment Application

3.152 (CD)

INDIRECT INJECTION

3 Cyl, Rope Seal

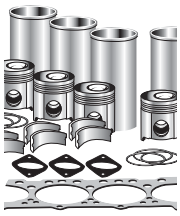
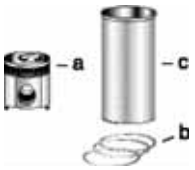
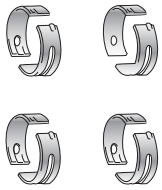
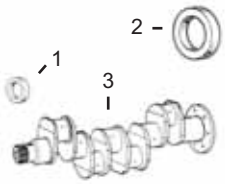
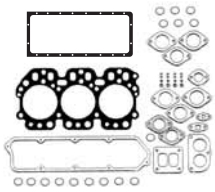
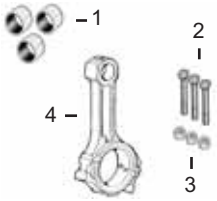
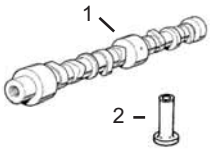
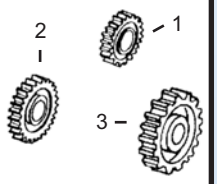
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91.491 mm

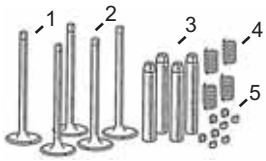
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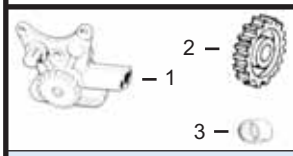
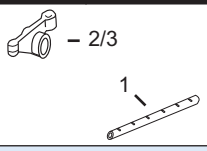
APPLICATIONS:

MF AGRICULTURAL
35
50

MF INDUSTRIAL
35 Utility
203
205

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
					
	2) Basic Engine Kit	**PCK152**	P68084 **Std.**	P85036 **Std.**	P31137211/21 **Std.**
	1) POK301	Consists of:			
	2) PBK301	a) P81512 **(1)** b) P41158057 c) P31358308 **(2)**	P68084A **.010** P68084B **.020** P68084C **.030**	P85036A **.010** P85036B **.020** P85036C **.030**	
		3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
					
	1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2415344 2) P36883106 ***x2*** 3) PZZ90116	1) PU5LT0012 2) PU5LB0012 3) P36812136	1) P31134151 ***x3*** 2) P0095250 ***x6*** 3) P33221327 ***x6*** 4) PZZ90011	1) P31415261 2) P0860012	1) P0410132 2) P0410241 3) P31164362

	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	**PVTK301**	1) P31431261 ***x3*** 2) P0910002 ***x3***	3) P33261723 ***x6***	a) P0780006 ***x6***	5) P0230001 ***x12***

				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641408	1a) PU5MW0023 b) P41312784 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80048 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Flat Head Piston.
(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

3.152

(CD)

INDIRECT INJECTION

3 Cyl, Rope Seal

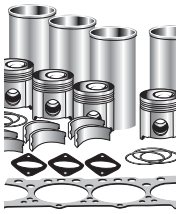
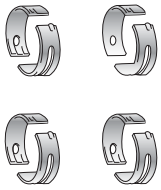
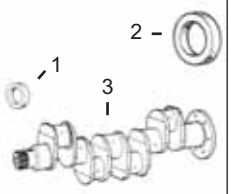
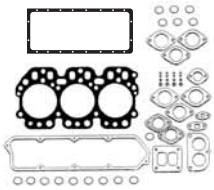
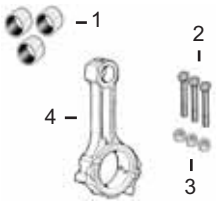
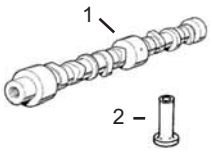
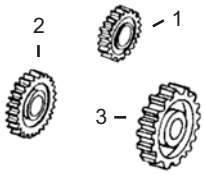
Bore: 3.6020 in
91.491 mm

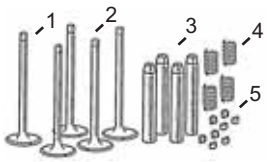
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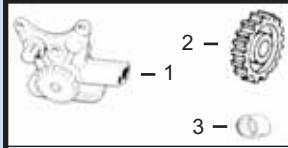
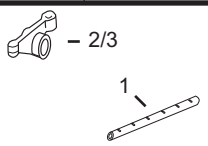
APPLICATIONS:

MF AGRICULTURAL
35
50

MF INDUSTRIAL
35 Utility
203
205

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PU5MK0033**	P68084 **Std.**	P85036 **Std.**	P31137211/21 **Std.**
1) POK302	Consists of:	P68084A **.010**	P85036A **.010**	
2) PBK302	a) P81512 **(1)**	P68084B **.020**	P85036B **.020**	
	b) P41158057	P68084C **.030**	P85036C **.030**	
	c) P31358345 **(2)**			
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
1) P2415344 2) P36883106 ***X2*** 3) PZZ90116	1) PU5LT0012 2) PU5LB0012 3) P36812136	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90011	1) P31415261 2) P0860012	1) P0410132 2) P0410241 3) P31164362

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK301	1) P31431261 ***X3*** 2) P0910002 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***

				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641408	1a) PU5MW0023 b) P41312784 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) PZZ80048 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Flat Head Piston.
(2) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

D3.152 (CE)

DIRECT INJECTION

3 Cyl, Rope Seal

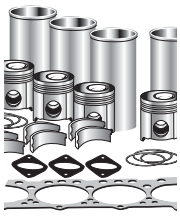
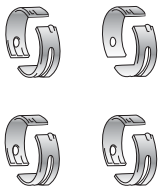
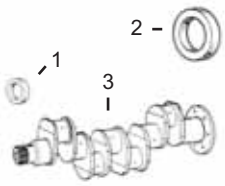
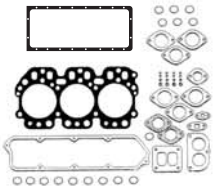
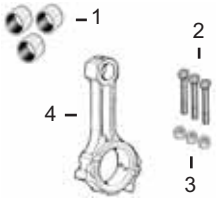
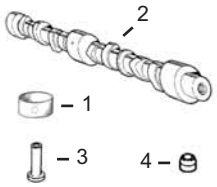
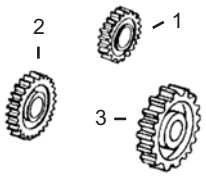
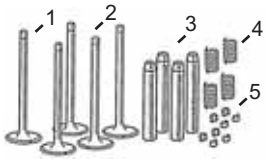
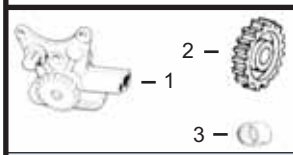
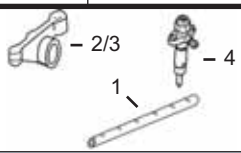
Bore: 3.6020 in
91.491 mm

ESN ending with D & to UA391044D

APPLICATIONS:

MF AGRICULTURAL
135
150
230
235

MF INDUSTRIAL
20
40
200 Crawler
203
205
2135
2200 Forklift & Treever
2244 Crawler
2500 Forklift

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**	
2) Basic Engine Kit	**PU5MK0034**	P68084 **Std.**	P85036 **Std.**	P31137211/21 **Std.**	
1) POK303	Consists of:	P68084A **.010**	P85036A **.010**		
2) PBK303	a) P68332 b) P41158057 c) P31358345 **(3)**	P68084B **.020** P68084C **.030**	P85036B **.020** P85036C **.030**		
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**	
					
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear	
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Seal, Valve		
1) P2415344 2) P36883106 ***X2*** 3) PZZ90116	1) PU5LT0038 2) PU5LB0012 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 ***X1*** 2) P31415261 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 2) P0410241 3) P31164362	
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK302	1) P31431281 ***X3*** 2) P31431591 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***
					
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641408 **(1)** P2641A063 **(2)**	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091 4) P2645680 **(4)**	1) PZZ80082 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**	

(1) To Engine No: UA38571D.
(2) From Engine No: UA38572D.
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(4) Check your perkins parts catalog.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D3.152 (CE)

DIRECT INJECTION

3 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

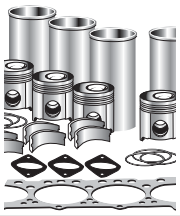
ESN Ending with DL from UA391045DL

APPLICATIONS:

LANDINI TRACTORS
4500
4830

MF AGRICULTURAL
135
230
235

MF INDUSTRIAL
20
40



1) Engine O/H Kit

2) Basic Engine Kit

1) POK304

2) PBK304



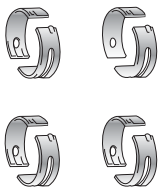
Piston-Liner Kit

PU5MK0034

Consists of:

a) P68332
b) P41158057
c) P31358345 **(3)**

3 Per Engine



Main Bearing Set

P68084 **Std.** **(4)**

P68084A **.010**
P68084B **.020**
P68084C **.030**

Set of 4 Pairs



Con Rod Bearing Set

P85036 **Std.**

P85036A **.010**
P85036B **.020**
P85036C **.030**

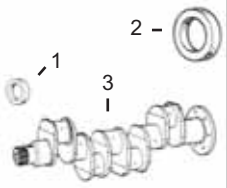
Set of 3 Pairs



Thrust Washer Set

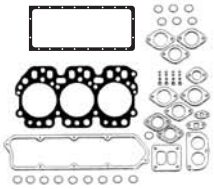
P31137211/21 **Std.**

Set of 2 Pairs



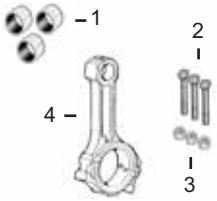
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2415344
2) P2418F475
3) PZZ90078



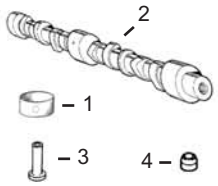
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket

1) PU5LT0038
2) PU5LB0011
3) P3681E006



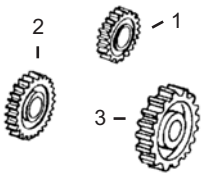
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134151 ***X3***
2) P0095250 ***X6***
3) P33221327 ***X6***
4) PZZ90010



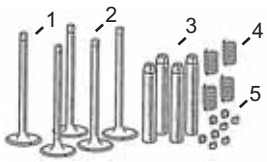
1) Bushing, Cam
2) Camshaft
3) Tappet
4) Seal, Valve

1) P31134128 ***X1***
2) P31415261
3) P0860012
4) P2415258
(Set of 3)



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P0410132
2) P0410241
3) P31164362



Valve Train Kit

PVTK303

1) Valve, Intake
2) Valve, Exhaust

1) P31431681 ***X3***
2) P31431011 ***X3***

3) Guide, Valve
(Intake & Exhaust)

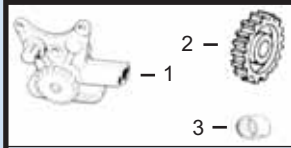
3) P33261723 ***X6***

4) Spring, Valve
a) Outer

a) P0780006 ***X6***

5) Lock, Valve

5) P0230001 ***X12***



1) Oil Pump
2) Oil Pump Drive Gear
3) Bushing, Drive Gear

1) P41314078
2) P41115025
3) P0050265



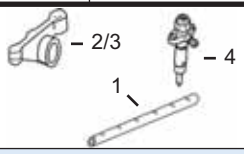
Lift Pump

P2641A063 **(1)**
P2641808 **(2)**



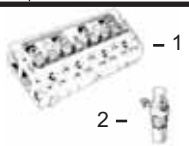
1) Water Pump
a) Without Pulley
b) With Pulley
2) Thermostat

1a) PU5MW0023
b) P41312874
2) P2485666



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH
4) Injector

1) PZZ90047
2) P3737A101
3) P3737A091
4) P2645680
P2645732



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80082
2) P2666103
(Screw Fitting)
P2666108
(Bayonet Fitting)

(1) To Engine No: U635848G (2 Hole).
(2) From Engine No: U635849G (4 Hole).
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(4) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK304NB and nominate the bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

D3.152

(CE)

DIRECT INJECTION

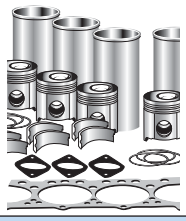
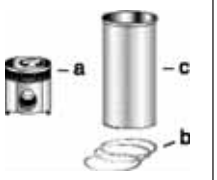
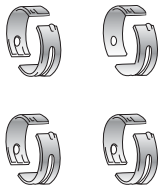
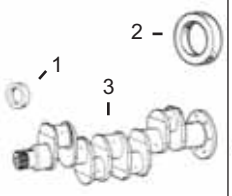
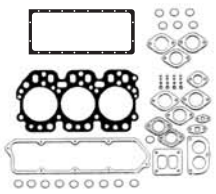
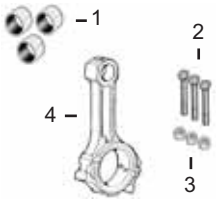
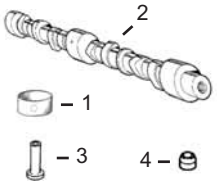
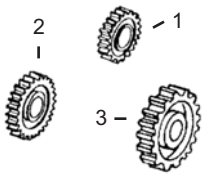
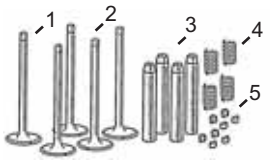
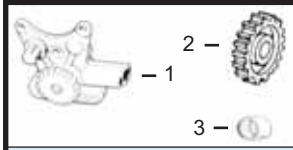
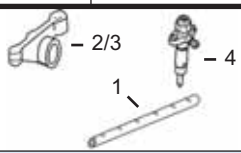
3 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

INGERSOLL RAND COMPRESSORS
Model 85 (CE21575)
DRP 85S 85CFM (CE22236) **(2)**

LINCOLN ELECTRIC
Welder (CE95231)

					
1) Engine O/H Kit **2) Basic Engine Kit** **1) POK309** **2) PBK309**	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**	
	PU5MK0034 Consists of: a) P68332 b) P41158057 c) P31358345 **(1)** **3 Per Engine**	P68084 **Std.** **(3)** P68084A **.010** P68084B **.020** P68084C **.030** **Set of 4 Pairs**	P85036 **Std.** P85036A **.010** P85036B **.020** P85036C **.030** **Set of 3 Pairs**	P31137211/21 **Std.** **Set of 2 Pairs**	
					
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	**1) Bushing, Cam** 2) Camshaft 3) Tappet 4) Seal, Valve	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear	
1) P2415344 2) P2418F475 3) PZZ90078 **(7)**	1) PU5LT0038 2) PU5LB0010 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010 **(4)**	1) P31134128 ***X1*** 2) P31415261 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 **(7)** 2) P0410241 3) P31164362	
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK303	1) P31431681 ***X3*** 2) P31431011 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***
					
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641408 **(5)** P2641808 **(6)**	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091 4) P2645680	1) PZZ80082 2) P2666103 **(Screw Fitting)**	

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) From ESN U79698DL.
(3) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK309NB and nominate the bearings.
(4) Build CE95231 Uses **PZZ90011**.
(5) To Engine No: U635848G (2 Hole).
(6) From Engine No: U635849G (4 Hole).
(7) Not used on Build No: CE95231.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D3.152
(CE)

DIRECT INJECTION

3 Cyl, Rope Seal

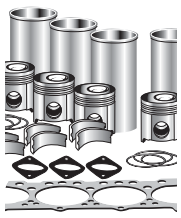
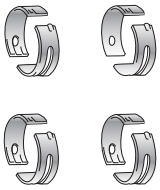
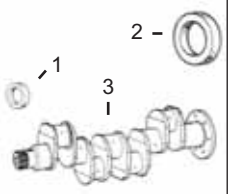
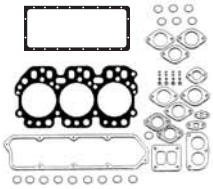
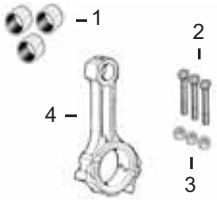
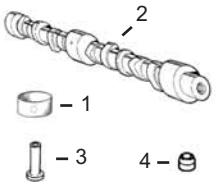
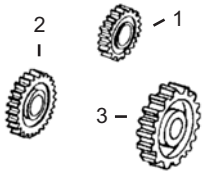
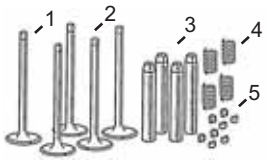
Bore: 3.6020 in
91.491 mm

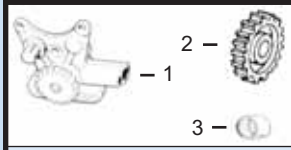
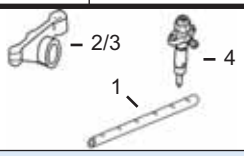
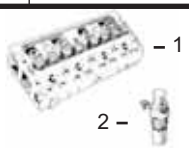
To ESN UA391044DS

APPLICATIONS:

MF AGRICULTURAL
235 (CE22309)
245

MF INDUSTRIAL
20C
30B

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0117**	P68084 **Std.**	P85036 **Std.**	P31137211/21 **Std.**
1) POK305	Consists of:	P68084A **.010**	P85036A **.010**	
2) PBK305	a) P89214 b) P41158065 c) P31358345 **(3)**	P68084B **.020** P68084C **.030**	P85036B **.020** P85036C **.030**	
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Seal, Valve	
1) P2415344 2) P36883106 ***X2*** 3) PZZ90116	1) PU5LT0038 2) PU5LB0012 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 ***X1*** 2) P31415261 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 2) P0410241 3) P31164362
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	PVTK303	1) P31431681 ***X3*** 2) P31431011 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***

				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641A063 **(1)** P2641808 **(2)**	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091 4) P2645680 **(4)**	1) PZZ80082 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) To Engine No: U635848G (2 Hole).
(2) From Engine No: U635849G (4 Hole).
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(4) Check your Perkins Parts Catalog.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

D3.152 (CE)

DIRECT INJECTION

3 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

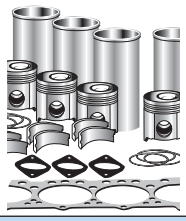
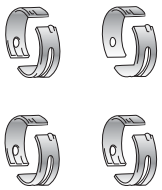
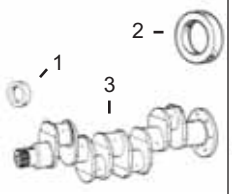
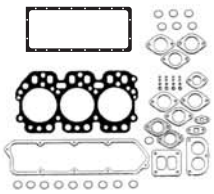
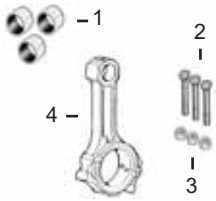
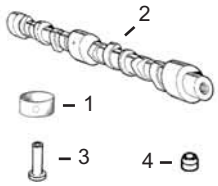
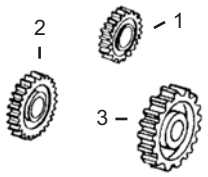
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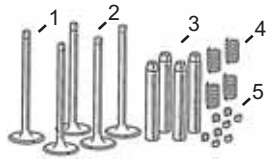
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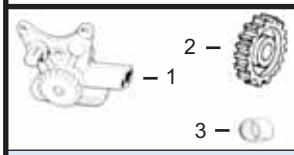
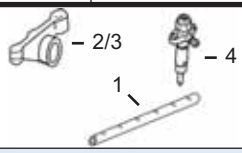
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5530
5530F
5830
5840

MF AGRICULTURAL
235 (CE22309/10/11)
245
250 (CE31089)

MF INDUSTRIAL
20C
30B

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0117**	P68084 **Std.** (4)	P85036 **Std.**	P31137211/21 **Std.**
1) POK306	Consists of:	P68084A **.010**	P85036A **.010**	
2) PBK306	a) P89214 b) P41158065 c) P31358345 (3)	P68084B **.020** P68084C **.030**	P85036B **.020** P85036C **.030**	
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Seal, Valve	
1) P2415344 2) P2418F475 3) PZZ90078	1) PU5LT0038 2) PU5LB0011 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 ***X1*** 2) P31415261 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 2) P0410241 3) P31164362

	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	**PVTK303**	1) P31431681 ***X3*** 2) P31431011 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***

				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641A063 (1) P2641808 (2)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091 4) P2645680	1) PZZ80082 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) To Engine No: U635848G (2 Hole).
(2) From Engine No: U635849G (4 Hole).
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(4) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK306NB and nominate the bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D3.152
(CE)

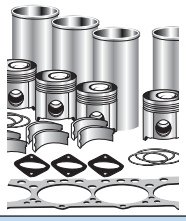
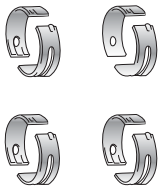
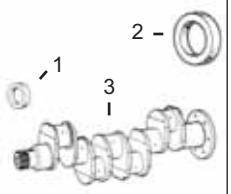
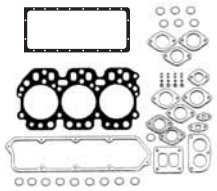
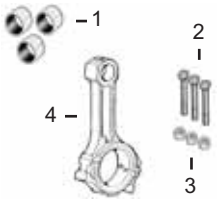
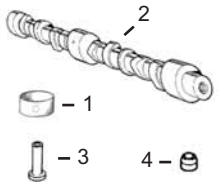
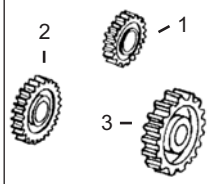
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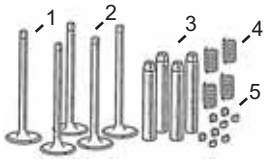
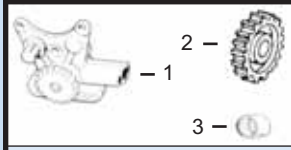
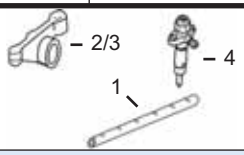
3 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

MF AGRICULTURAL
250 (CE22488)

				
1) Engine O/H Kit **2) Basic Engine Kit** **1) POK307/45** (1) **POK307/35** (2) **2) PBK307**	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
	PU5MK0034 Consists of: a) P68332 b) P41158057 c) P31358345 (5) **3 Per Engine**	P68084 **Std.** (6) P68084A **.010** P68084B **.020** P68084C **.030** **Set of 4 Pairs**	P85036 **Std.** P85036A **.010** P85036B **.020** P85036C **.030** **Set of 3 Pairs**	P31137211/21 **Std.** **Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	**1) Bushing, Cam** 2) Camshaft 3) Tappet 4) Seal, Valve	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
1) P2415344 2) P2418F475 3) PZZ90078	1) PU5LT0038 2) PU5LB0011 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 ***X1*** 2) P31415261 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 2) P0410241 3) P31164362

	**Valve Train Kit** **a) 45° Angle** **b) 35° Angle**	1) Valve, Intake 2) Valve, Exhaust a) 45° Angle b) 35° Angle	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Outer	5) Lock, Valve
	a) PVTK302 **b) PVTK303**	1a) P31431281 ***X3*** b) P31431681 ***X3*** 2a) P31431591 ***X3*** b) P31431011 ***X3***	3) P33261723 ***X6***	a) P0780006 ***X6***	5) P0230001 ***X12***
					
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	
1) P41314078 2) P41115025 3) P0050265	P2641A063 (3) P2641808 (4)	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091 4) P2645680 P2645732	1) PZZ80082 2) P2666108 **(Bayonet Fitting)**	

(1) Use with Cylinder Head **PZZ80082**.
(2) Use with Cylinder Head 68128.
(3) To Engine No: U635848G (2 Hole).
(4) From Engine No: U635849G (4 Hole).
(5) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(6) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK307NB and nominate the bearings. Only avilable in Std and 0.10 sizes.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

G3.152 (CF)

GASOLINE ENGINE

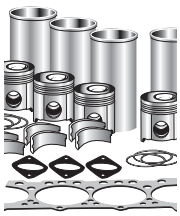
3 Cyl, Rope Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

MF AGRICULTURAL
135
150

MF INDUSTRIAL
20
40
2500 Forklift



1) Engine O/H Kit

2) Basic Engine Kit

1) POK308

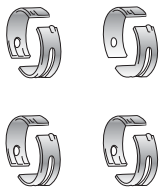
2) PBK308



Piston-Liner Kit

PCK154
Consists of:
a) P86723
b) P41158012
c) P31358345 (1)

3 Per Engine



Main Bearing Set

P68084 **Std.**

P68084A **.010**
P68084B **.020**
P68084C **.030**

Set of 4 Pairs



Con Rod Bearing Set

P85036 **Std.**

P85036A **.010**
P85036B **.020**
P85036C **.030**

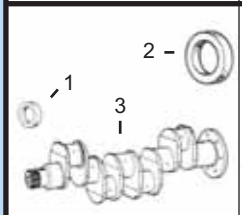
Set of 3 Pairs



Thrust Washer Set

P31137211/21 **Std.**

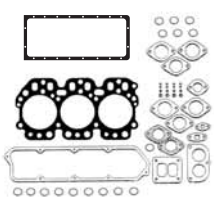
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

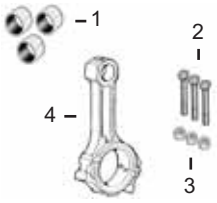
1) P2415344
2) P36883106 ***x2***
3) PZZ90116



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket

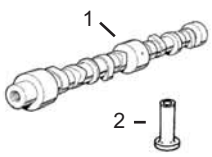
1) PU5LT0037
2) PU5LB0012
3) P3681E006



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

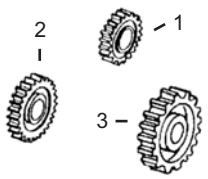
4) Con Rod

1) P31134151 ***x3***
2) P0095250 ***x6***
3) P33221327 ***x6***
4) PZZ90011



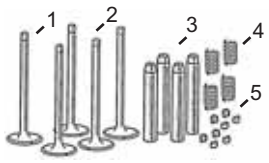
1) Camshaft
2) Tappet

1) P31415261
2) P0860012



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P0410132
2) P0410241
3) P31164362



Valve Train Kit

PVTK304

1) Valve, Intake
2) Valve, Exhaust

1) P31431741 ***x3***
2) P31431731 ***x3***

3) Guide, Valve
(Intake & Exhaust)

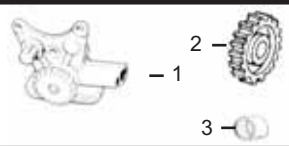
3) P3313E011 ***x6***

4) Spring, Valve
a) Outer

a) P0780006 ***x6***

5) Lock, Valve

5) P0230001 ***x12***



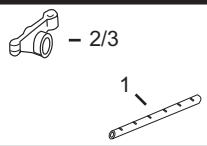
1) Oil Pump
2) Oil Pump Drive Gear
3) Bushing, Drive Gear

1) P41314078
2) P41115025
3) P0050265



1) Water Pump
a) Without Pulley
b) With Pulley
2) Thermostat

1a) PU5MW0023
b) P41312784
2) P2485666



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90047
2) P3737A101
3) P3737A091

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

3.152.4 (CM)

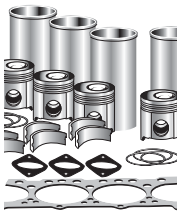
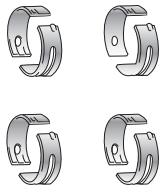
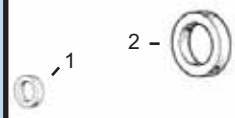
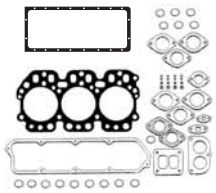
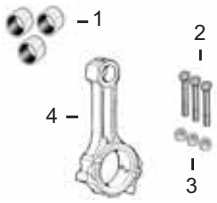
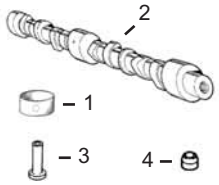
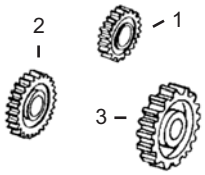
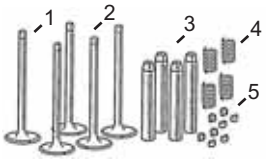
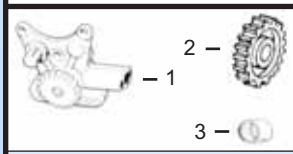
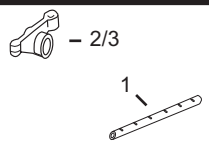
3 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

PERKINS
General Genset (CM50184)

FG WILSON
Generator Set (CM33513)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK1524**	P68084 **Std. (2)**	P85036 **Std.**	P31137211/21 **Std.**
1) POK310	Consists of:	P68084A **.010**	P85036A **.010**	
2) PBK310	a) PU5LP0017 b) P41158144 c) P31358345 **(1)**	P68084B **.020** P68084C **.030**	P85036B **.020** P85036C **.030**	
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Seal, Valve	
1) P2415344 2) P2418F475	1) PU5LT0038 2) PU5LB0010 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 2) P31415264 3) P0860012 4) P2415258 **(Set of 3)**	1) P0410132 2) P0410241 3) P31164362
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK305	1) P31431981 ***X3*** 2) P31431011 ***X3***	a) P33261727 ***X3*** b) P33261723 ***X3***	a) P0780007 ***X6*** b) P0780006 ***X6***	5) P0230001 ***X12***
				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641808	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) P2666108 **(Bayonet Fitting)**

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK310NB and nominate the bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

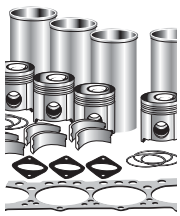
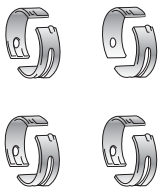
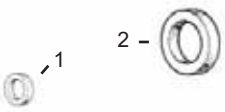
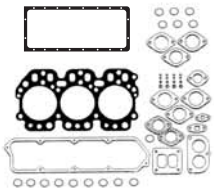
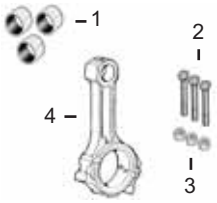
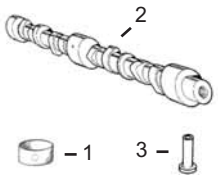
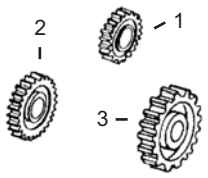
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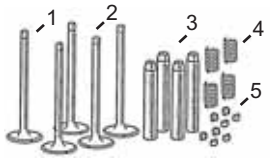
3 Cyl, Lip Seal

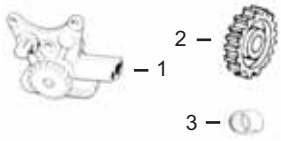
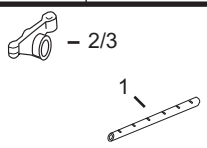
Bore: 3.6020 in
91.491 mm

APPLICATIONS:

MF AGRICULTURAL
253 (CN31219)
264 (CN31214)
355 (CN31187)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK1524**	P68084 **Std.** **(2)**	P85036 **Std.**	P31137211/21 **Std.**
1) POK311	Consists of:	P68084A **.010**	P85036A **.010**	
2) PBK311	a) PU5LP0017 b) P41158144 c) P31358345 **(1)**	P68084B **.020** P68084C **.030**	P85036B **.020** P85036C **.030**	
	3 Per Engine	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	**1) Bushing, Cam** 2) Camshaft 3) Tappet	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
1) P2415344 2) P2418F475	1) PU5LT0080 2) PU5LB0011 3) P3681E006	1) P31134151 ***X3*** 2) P0095250 ***X6*** 3) P33221327 ***X6*** 4) PZZ90010	1) P31134128 2) P31415261 3) P0860012	1) N/A 2) P0410241 3) P31164362

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK306	1) P31431741 ***X3*** 2) P31431731 ***X3***	a) P33261727 ***X3*** b) P33261723 ***X3***	a) P0780007 ***X6*** b) P0780006 ***X6***	5) P0230001 ***X12***

				
1) Oil Pump 2) Oil Pump Drive Gear 3) Bushing, Drive Gear	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug
1) P41314078 2) P41115025 3) P0050265	P2641808	1a) PU5MW0023 b) P41312874 2) P2485666	1) PZZ90047 2) P3737A101 3) P3737A091	1) P2666108 **(Bayonet Fitting)**

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) Use Main Bearing Set, **PU5MB0014**, from ESN U983574C. For engine kit with these bearings, order POK/PBK311NB and nominate the bearings.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

4.108 (ED)

INDUSTRIAL

4 Cyl, Rope Seal

Bore: 3.1250 in
79.375 mm

APPLICATIONS:

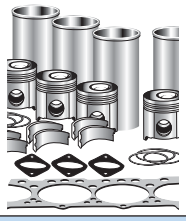
GEHL MFG
4600 Skid Loader (ED70048)

MELROE
E146 Loader (ED70075)

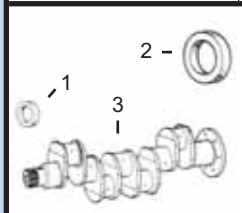
OWATTONA MFG
445 Skid Loader (ED70035)

SPERRY NEW HOLLAND
L555 Skid Loader (ED70077)

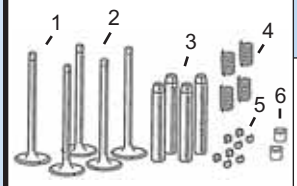
VERMEER MFG
M434-4 Trencher (ED70044)



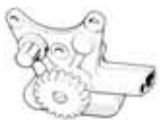
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	**PU5MK0118**	P84992 **Std.**	P85037 **Std.**	P0921120/118
1) POK410	Consists of:	P84992A **.010**	P85037A **.010**	
2) PBK410	a) P69491	P84992B **.020**	P85037B **.020**	
	b) P41158008 (1)	P84992C **.030**	P85037C **.030**	
	c) P31358117	**Set of 3 Pairs**	**Set of 4 Pairs**	**Set of 3 Pieces**
	4 Per Engine			



1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket		2) Camshaft 3) Tappet
1) P2415338 2) P36883107 ***x2*** 3) PZZ90160	1) P92425 2) PU5LB0013 3) P36812134	1) P31134145 ***x4*** 2) N/A 3) Not Used	1) Not Used 2) N/A 3) P31434152



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK400	1) P0910060 ***x4*** 2) P0910061 ***x4***	a) P3313E001 ***x4*** b) P33261723 ***x4***	a) P0780143 ***x8*** b) P0780144 ***x8***	5) P0230001 ***x16*** 6) P33817403 ***x8***



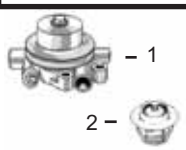
Oil Pump

P41314089 (2)



Lift Pump

P2641A058



1) Water Pump
2) Thermostat

1) PU5MW0054 (2)
2) P2485666



1) Rocker Shaft Bush

1) P0050132

(1) Set of 4 Rings.
(2) Check Against Build Number.

Engine & Equipment Application

4.108 (ED)

MARINE

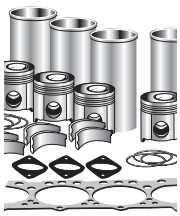
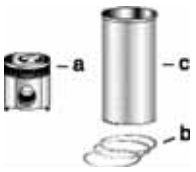
4 Cyl, Rope Seal

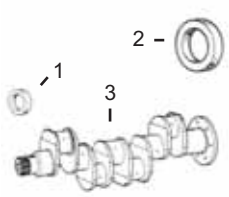
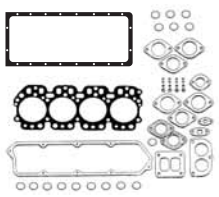
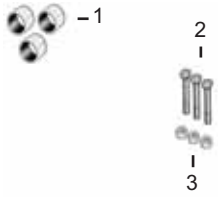
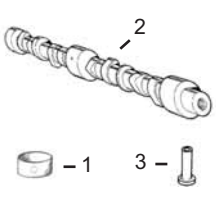
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79.375 mm

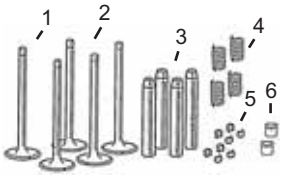
APPLICATIONS:

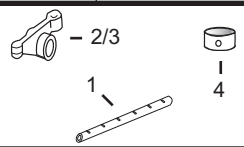
MARINE

Perkins USA (ED22195)
Pleasure Craft (ED33210)
Pleasure Craft (ED50033)
Commercial/Pleasure Craft (ED70058)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0061**	P84992 **Std.**	P85037 **Std.**	P0921120/118
1) POK411	Consists of:	P84992A **.010**	P85037A **.010**	
2) PBK411	a) P68383	P84992B **.020**	P85037B **.020**	
	b) P41158087 **(1)**	P84992C **.030**	P85037C **.030**	
	c) P31358117			
	4 Per Engine	**Set of 3 Pairs**	**Set of 4 Pairs**	**Set of 3 Pieces**

			
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**
3) Crankshaft Kit	3) Head Gasket		2) Camshaft 3) Tappet
1) P2415338 2) P36883107 ***x2*** 3) PZZ90160	1) P85786 2) PU5LB0013 3) P36812134	1) P31134145 ***x4*** 2) N/A 3) Not Used	1) Not Used 2) N/A 3) P31434152

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK400	1) P0910060 ***X4*** 2) P0910061 ***X4***	a) P3313E001 ***X4*** b) P33261723 ***X4***	a) P0780143 ***X8*** b) P0780144 ***X8***	5) P0230001 ***X16*** 6) P33817403 ***X8***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Rocker Shaft Bush	1) Glowplug
P41314089 **(2)**	P2641A058	1) PU5MW0054 **(2)** 2) P2485608	1) N/A 2) N/A 3) N/A 4) P0050132	1) P2666108 **(Bayonet Fitting)**

(1) Set of 5 Rings.
(2) Check Against Build Number.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

4.203

(JD)

INDIRECT INJECTION

4 Cyl, Rope Seal

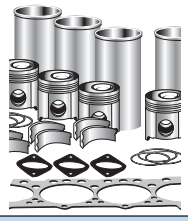
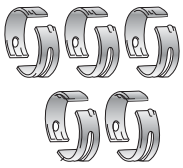
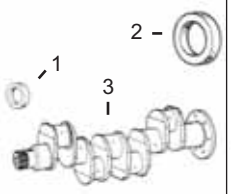
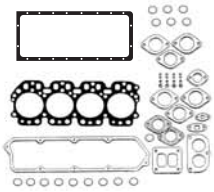
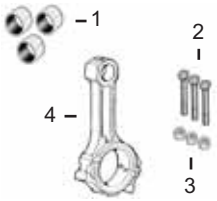
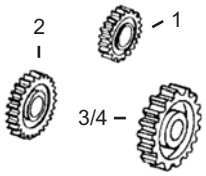
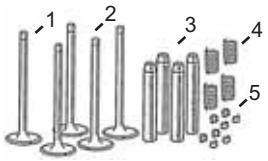
Bore: 3.6020 in
91.491 mm

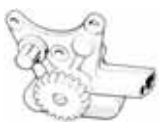
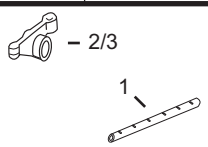
To ESN 2820092

APPLICATIONS:

MF AGRICULTURAL
65

MF INDUSTRIAL
356 Tractor Shovel

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK152**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK430	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK430	a) P81512 **(1)** b) P41158057 c) P31358308 **(2)**	P68082B **.020** P68082C **.030**	P85035B **.020** P85035C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Tappet	
1) P2415344 2) P36883106 ***X2*** 3) PZZ90121	1) P69036 2) PU5LB0500 3) P36812125	1) P31134151 ***X4*** 2) P0095250 ***X8*** 3) P33221327 ***X8*** 4) PZZ90011	1) P31134119 ***X1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK404	1) P31431261 ***X4*** 2) P0910002 ***X4***	3) P33261723 ***X8***	a) P0780007 ***X8*** b) P0780006 ***X8***	5) P0230001 ***X16***

				
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Flat Head Piston.
(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

Engine & Equipment Application

4.203 (JD)

INDIRECT INJECTION

4 Cyl, Rope Seal

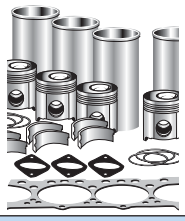
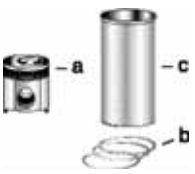
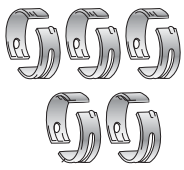
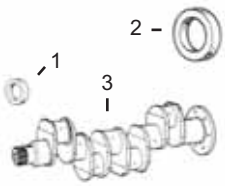
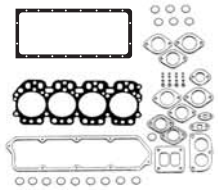
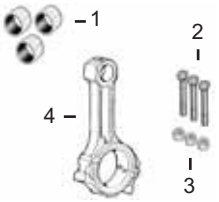
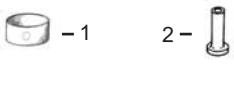
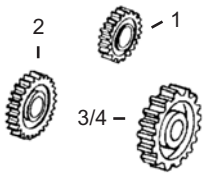
Bore: 3.6020 in
91.491 mm

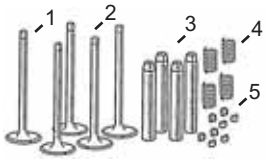
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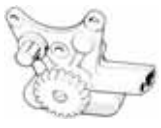
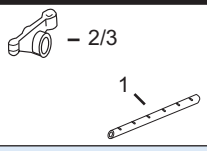
APPLICATIONS:

MF AGRICULTURAL
65

MF INDUSTRIAL
356 Tractor Shovel

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0033**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK431	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK431	a) P81512 **(1)**	P68082B **.020**	P85035B **.020**	
	b) P41158057	P68082C **.030**	P85035C **.030**	
	c) P31358345 **(2)**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
	4 Per Engine			
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft	
1) P2415344 2) P36883106 ***X2*** 3) PZZ90121	1) P69036 2) PU5LB0500 3) P36812125	1) P31134151 ***X4*** 2) P0095250 ***X8*** 3) P33221327 ***X8*** 4) PZZ90011	1) P31134119 ***X1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005

				
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
PVTK404	1) P31431261 ***X4*** 2) P0910002 ***X4***	3) P33261723 ***X8***	a) P0780007 ***X8*** b) P0780006 ***X8***	5) P0230001 ***X16***

				
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Flat Head Piston.
(2) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

4.203

(JD)

INDIRECT INJECTION

4 Cyl, Rope & Lip Seal

(Both Rear Seal Types Included in Kit)

Bore: 3.6020 in
91.491 mm

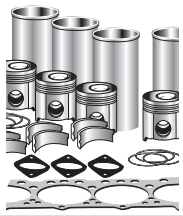
APPLICATIONS:

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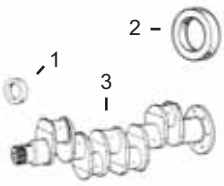
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CY30-40-55	(JD21493)
CY40-60	(JD22117)

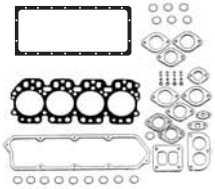
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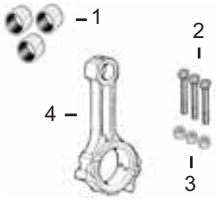
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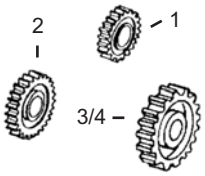
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK152**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK438	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK438	a) P81512 **(1)**	P68082B **.020**	P85035B **.020**	
	b) P41158057	P68082C **.030**	P85035C **.030**	
	c) P31358308 **(2)**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
	4 Per Engine			



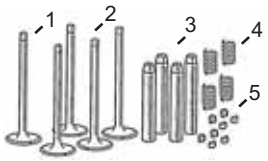








1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Tappet	
1) P2415344 2) P36883106 ***x2*** P2418F475 3) PZZ90095 **(3)**	1) P69036 2) PU5LB0015 3) P36812125	1) P31134151 ***x4*** 2) P0095250 ***x8*** 3) P33221327 ***x8*** 4) PZZ90011	1) P31134119 ***x1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005

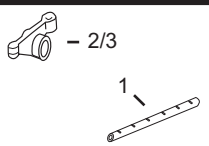


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
PVTK404	1) P31431261 ***x4*** 2) P0910002 ***x4***	3) P33261723 ***x8***	a) P0780007 ***x8*** b) P0780006 ***x8***	5) P0230001 ***x16***











Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
P41314164	P2641336	1) PU5MW0088 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091	1) PZZ80089 2) P2666108 **(Bayonet Fitting)**

(1) Flat Head Piston.
(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".
(3) Lip Seal Crankshaft from ESN U74103CL.

Engine & Equipment Application

4.203 (JD)

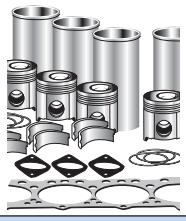
INDIRECT INJECTION

4 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

ALLIS CHALMERS
40-50 Forklift (JD22458) (5)
700 Forklift (JD22028) (4)
ACP40/50D (JD22533)

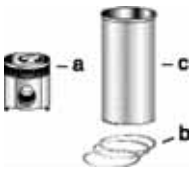


1) Engine O/H Kit

2) Basic Engine Kit

1) POK439

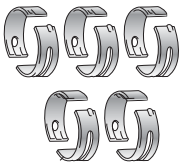
2) PBK439



Piston-Liner Kit

PU5MK0033
Consists of:
a) P81512 (3)
b) P41158057
c) P31358345 (6)

4 Per Engine



Main Bearing Set

P68082 **Std.**
P68082A **.010**
P68082B **.020**
P68082C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85035 **Std.**
P85035A **.010**
P85035B **.020**
P85035C **.030**

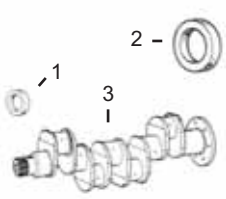
Set of 4 Pairs



Thrust Washer Set

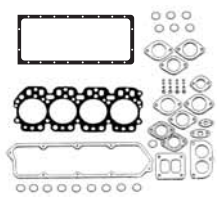
P31137211/21 **Std.**

Set of 2 Pairs



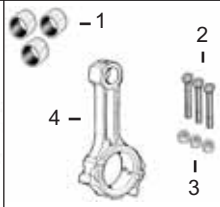
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2415344
2) P2418F475
3) PZZ90095



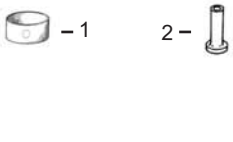
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket

1) P69036
2) PU5LB0015
3) P36812125



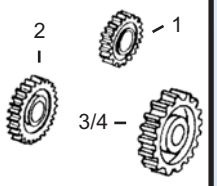
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134151 ***X4***
2) P0095250 ***X8***
3) P33221327 ***X8***
4) PZZ90011



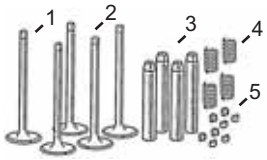
1) Bushing, Cam
2) Tappet

1) P31134119 ***X1***
2) P0860012



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear, Lower
4) Idler Gear, Upper

1) P0410228
2) N/A
3) P41115004
4) P41115005



Valve Train Kit

PVTK404

1) Valve, Intake
2) Valve, Exhaust

1) P31431261 ***X4***
2) P0910002 ***X4***

3) Guide, Valve
(Intake & Exhaust)

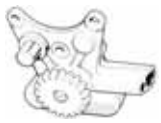
3) P33261723 ***X8***

4) Spring, Valve
a) Inner
b) Outer

a) P0780007 ***X8***
b) P0780006 ***X8***

5) Lock, Valve

5) P0230001 ***X16***



Oil Pump

P41314164



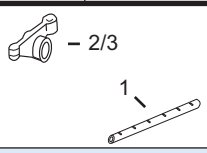
Lift Pump

P2641A065 **(1)**
P2641336 **(2)**



1) Water Pump
2) Thermostat

1) PU5MW0088
2) P2485666



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90139
2) P3737A101
3) P3737A091



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80089
2) P2666103
(Screw Fitting)
P2666108
(Bayonet Fitting)

(1) Use on Build No: JD22028.
(2) Use on Build No: JD22458/JD22533.
(3) Flat Head Piston.
(4) From ESN U74103CL
(5) From ESN U76357L
(6) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D4.203 (JE)

DIRECT INJECTION

4 Cyl, Rope Seal

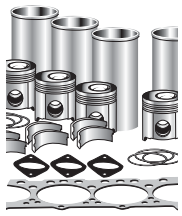
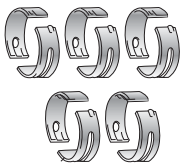
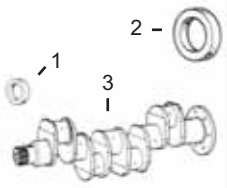
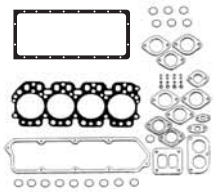
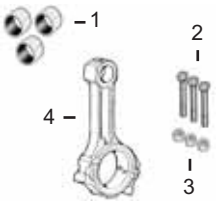
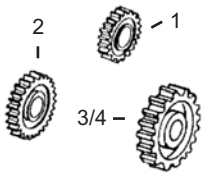
Bore: 3.6020 in
91.491 mm

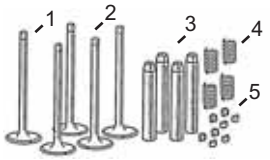
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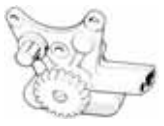
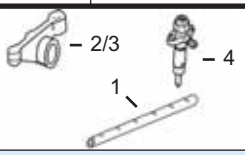
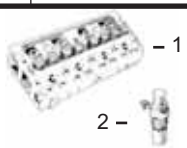
APPLICATIONS:

MF AGRICULTURAL
65

MF INDUSTRIAL
365 Tractor Shovel

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PCK153**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK432	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK432	a) P68332	P68082B **.020**	P85035B **.020**	
	b) P41158057	P68082C **.030**	P85035C **.030**	
	c) P31358308 **(1)**			
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Tappet	2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
1) P2415344 2) P36883106 ***X2*** 3) PZZ90121	1) PU5LT0069 2) P82908 3) P36812138	1) P31134151 ***X4*** 2) P0095250 ***X8*** 3) P33221327 ***X8*** 4) PZZ90010	1) P31134119 ***X1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005

	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	**PVTK405**	1) P31431281 ***X4*** 2) P31431591 ***X4***	3) P33261723 ***X8***	a) P0780007 ***X8*** b) P0780006 ***X8***	5) P0230001 ***X16***

				
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head 2) Glowplug
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091 4) P2645680 **(2)**	1) PZZ80078 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".
(2) Check your Perkins Parts Catalog.

Engine & Equipment Application

D4.203 (JE)

DIRECT INJECTION

4 Cyl, Rope Seal

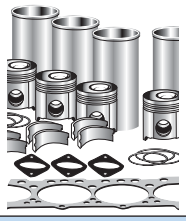
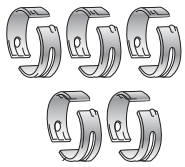
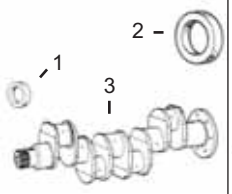
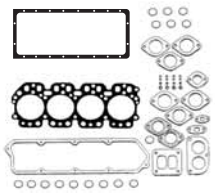
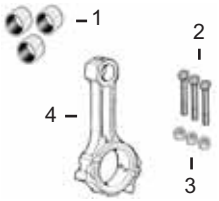
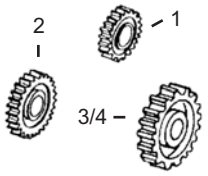
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91.491 mm

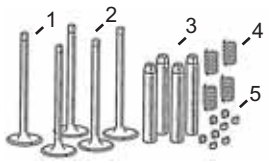
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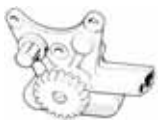
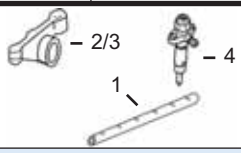
APPLICATIONS:

MF AGRICULTURAL
65
165
255
300 Combine

MF INDUSTRIAL
302
304
356
3165 Tractor Shovel

					
	1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
	2) Basic Engine Kit	**PU5MK0034**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
	1) POK433	Consists of:	P68082A **.010**	P85035A **.010**	
	2) PBK433	a) P68332	P68082B **.020**	P85035B **.020**	
		b) P41158057	P68082C **.030**	P85035C **.030**	
		c) P31358345 **(1)**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
		4 Per Engine			
					
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper	
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Tappet		
1) P2415344 2) P36883106 ***X2*** 3) PZZ90121	1) PU5LT0069 2) P82908 3) P36812138	1) P31134151 ***X4*** 2) P0095250 ***X8*** 3) P33221327 ***X8*** 4) PZZ90010	1) P31134119 ***X1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005	

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK405	1) P31431281 ***X4*** 2) P31431591 ***X4***	3) P33261723 ***X6***	a) P0780007 ***X6*** b) P0780006 ***X6***	5) P0230001 ***X16***

				
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head 2) Glowplug
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091 4) P2645680 **(2)**	1) PZZ80078 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) Check your Perkins Parts Catalog.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D4.203 (JE)

DIRECT INJECTION

4 Cyl, Rope & Lip Seal

(Both Rear Seal Types Included in Kit)

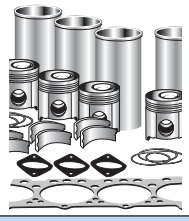
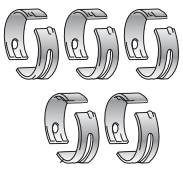
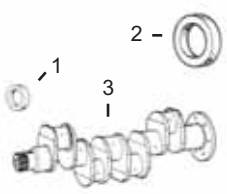
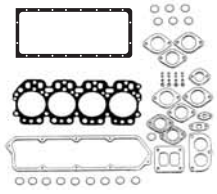
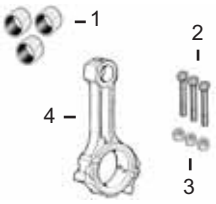
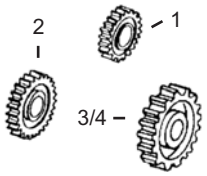
Bore: 3.6020 in
91.491 mm

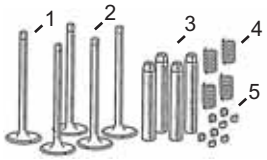
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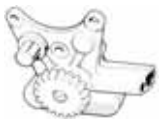
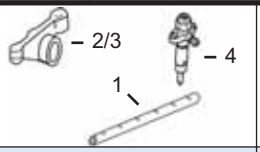
APPLICATIONS:

MF AGRICULTURAL
65
165
255
300 Combine

MF INDUSTRIAL
30
40B
50
302
356
3165 Tractor Shevel

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0034**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK434	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK434	a) P68332	P68082B **.020**	P85035B **.020**	
	b) P41158057	P68082C **.030**	P85035C **.030**	
	c) P31358345 **(3)**			
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal	**1) Top Gasket Set**	**1) Bush, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear
2) Rear Seal	**2) Bottom Gasket**	**2) Bolt, Con Rod**	2) Tappet	2) Camshaft Gear
3) Crankshaft Kit	3) Head Gasket	**3) Nut, Con Rod**		3) Idler Gear, Lower
		4) Con Rod		4) Idler Gear, Upper
1) P2415344	1) PU5LT0069	1) P31134151 ***X4***	1) P31134119 ***X1***	1) P0410228
2) P36883106 ***X2***	2) P68036	2) P0095250 ***X8***	2) P0860012	2) N/A
P2418F475	3) P36812138	3) P33221327 ***X8***		3) P41115004
3) PZZ90121 **(1)**		4) PZZ90010		4) P41115005
PZZ90111 **(2)**				

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK405	1) P31431281 ***X4*** 2) P31431591 ***X4***	3) P33261723 ***X8***	a) P0780007 ***X8*** b) P0780006 ***X8***	5) P0230001 ***X16***

				
Oil Pump	Lift Pump	1) Water Pump a) Without Pulley b) With Pulley 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head 2) Glowplug
P41314164	P2641A065	1a) PU5MW0061 b) P41312892 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091 4) P2645680 **(4)**	1) PZZ80078 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) Rope Seal.
(2) Lip Seal.
(3) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(4) Check your Perkins Parts Catalog.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

D4.203 (JE)

DIRECT INJECTION

4 Cyl, Lip Seal

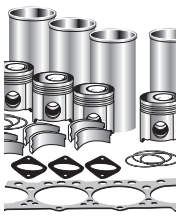
Bore: 3.6020 in
91.491 mm

To ESN U589378L

APPLICATIONS:

PERKINS USA
General Industrial (JE33174)

SULLAIR CORP
Compressor (JE70033)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK436

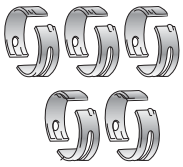
2) PBK436



Piston-Liner Kit

PU5MK0034
Consists of:
a) P68332
b) P41158057
c) P31358345 (1)

4 Per Engine



Main Bearing Set

P68082 **Std.**

P68082A **.010**
P68082B **.020**
P68082C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85035 **Std.**

P85035A **.010**
P85035B **.020**
P85035C **.030**

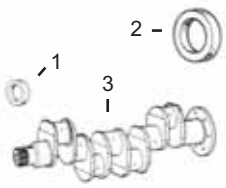
Set of 4 Pairs



Thrust Washer Set

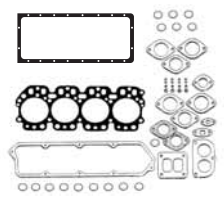
P31137211/21 **Std.**

Set of 2 Pairs



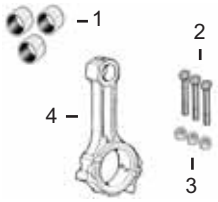
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2415344
2) P2418F475
3) PZZ90095



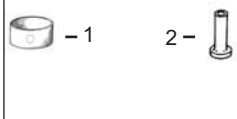
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket

1) PU5LT0084
2) PU5LB0015
3) P36812138



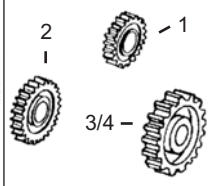
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134151 ***X4***
2) P0095250 ***X8***
3) P33221327 ***X8***
4) PZZ90010



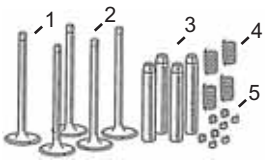
1) Bushing, Cam
2) Tappet

1) P31134119 ***X1***
2) P0860012



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear, Lower
4) Idler Gear, Upper

1) P0410228
2) N/A
3) P41115004
4) P41115005



Valve Train Kit

PVTK420

1) Valve, Intake
2) Valve, Exhaust

1) P31431681 ***X4***
2) P31431991 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

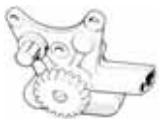
a) P33261727 ***X4***
b) P33261723 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) P0780007 ***X8***
b) P0780006 ***X8***

5) Lock, Valve

5) P0230001 ***X16***



Oil Pump

P41314164



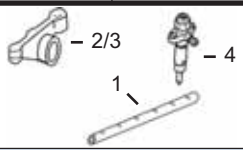
Lift Pump

P2641A054



1) Water Pump
2) Thermostat

1) PU5MW0088
2) P2485666



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH
4) Injector

1) PZZ90139
2) P3737A101
3) P3737A091
4) P2645680 (2)

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) Check your Perkins Parts Catalog.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

D4.203 (JE)

DIRECT INJECTION

4 Cyl, Lip Seal

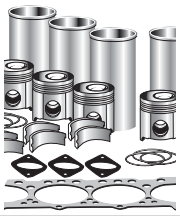
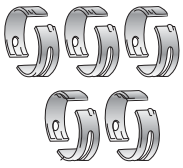
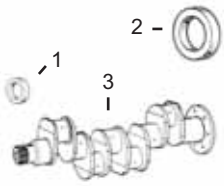
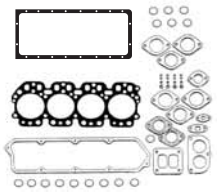
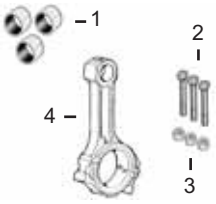
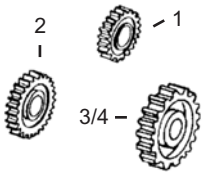
Bore: 3.6020 in
91.491 mm

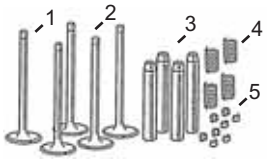
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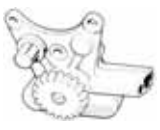
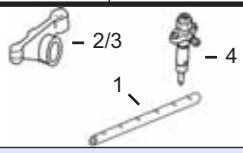
APPLICATIONS:

PERKINS USA
General Industrial (JE33174)

SULLAIR CORP
Compressor (JE70033)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0117**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK437	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK437	a) P89214 b) P41158065 c) P31358345 **(1)**	P68082B **.020** P68082C **.030**	P85035B **.020** P85035C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Tappet	
1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 ***X4*** 2) P0095250 ***X8*** 3) P33221327 ***X8*** 4) PZZ90010	1) P31134119 ***X1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
	PVTK420	1) P31431681 ***X4*** 2) P31431991 ***X4***	a) P33261727 ***X4*** b) P33261723 ***X4***	a) P0780007 ***X8*** b) P0780006 ***X8***	5) P0230001 ***X16***

			
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector
P41314164	P2641A054	1) PU5MW0088 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091 4) P2645680 **(2)**

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.
(2) Check your Perkins Parts Catalog.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.203.2 (JG)

4 Cyl, Lip Seal

Bore: 3.6020 in
91.491 mm

APPLICATIONS:

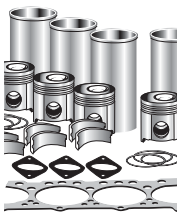
ALLIS CHALMERS
JCP 40-50 Forklift (JG80031)

CATERPILLAR
V40-60C Forklift (JG70020)
V/T40C Forklift (JG70092)

CLARK EQUIPMENT
C500 (H) 60-70-80D (JG70099)
C500Y-40-560 (JG70100)
C500Y-40-560 (JG70143)

HYSTER
H60-80C (JG70040)
H60-80E (JG70113)

SPERRY NEW HOLLAND
L779 Skid Steer Loader (JG70043/JG70156)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK435

2) PBK435



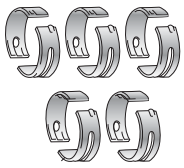
Piston-Liner Kit

PU5MK0122

Consists of:

a) P68801
b) P41158007
c) P31358345 (1)

4 Per Engine



Main Bearing Set

P68082 **Std.**

P68082A **.010**
P68082B **.020**
P68082C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85035 **Std.**

P85035A **.010**
P85035B **.020**
P85035C **.030**

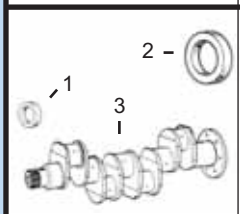
Set of 4 Pairs



Thrust Washer Set

P31137211/21 **Std.**

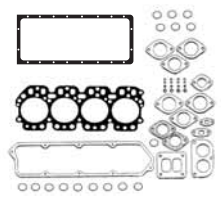
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

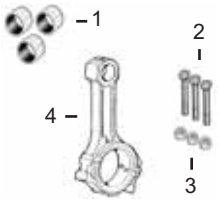
1) P2415344
2) P2418F475
3) PZZ90095



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket

1) PU5LT0084
2) PU5LB0015
3) P36812138



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

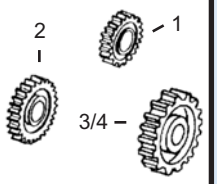
1) P31134151 ***X4***
2) P0095250 ***X8***
3) P33221327 ***X8***
4) PZZ90010



1) Bushing, Cam

2) Tappet

1) P31134119 ***X1***
2) P0860012



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear, Lower
4) Idler Gear, Upper

1) P0410228
2) N/A
3) P41115004
4) P41115005



Valve Train Kit

PVTK418

1) Valve, Intake
2) Valve, Exhaust

1) P31431981 ***X4***
2) P31431991 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

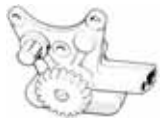
a) P33261727 ***X4***
b) P33261723 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) P0780007 ***X8***
b) P0780006 ***X8***

5) Lock, Valve

5) P0230001 ***X16***



Oil Pump

P41314164



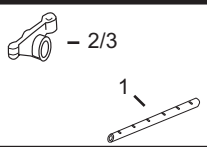
Lift Pump

P2641A054



1) Water Pump
2) Thermostat

1) PU5MW0088
2) P2485666



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90139
2) P3737A101
3) P3737A091



1) Glowplug

1) P2666108
(Bayonet Fitting)

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

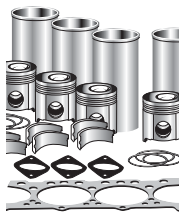
G4.203 (JF)

4 Cyl Lip Seal

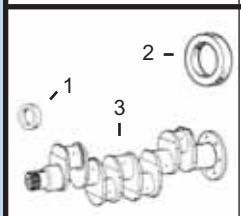
Bore: 3.6020 in
91.491 mm

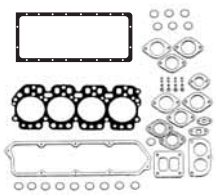
APPLICATIONS:

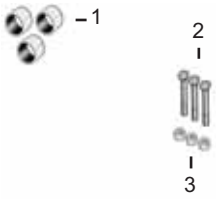
EATON CORP
Forklift (JF22668)



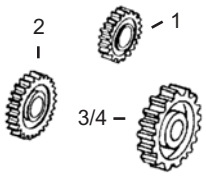
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	**PCK154**	P68082 **Std.**	P85035 **Std.**	P31137211/21 **Std.**
1) POK442	Consists of:	P68082A **.010**	P85035A **.010**	
2) PBK442	a) P86723 b) P41158012 c) P31358345 (1)	P68082B **.020** P68082C **.030**	P85035B **.020** P85035C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**



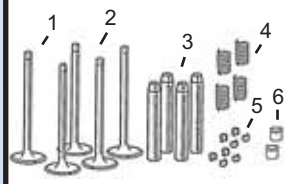




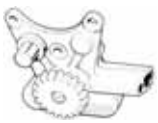




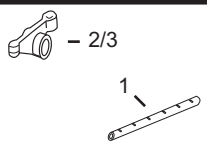
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear, Lower 4) Idler Gear, Upper
3) Crankshaft Kit	3) Head Gasket		2) Tappet	
1) P2415344 2) P2418F475 3) PZZ90095	1) PU5LT0084 2) PU5LB0015 3) P36812138	1) P31134151 ***x4*** 2) P0095250 ***x8*** 3) P33221327 ***x8***	1) P31134119 ***x1*** 2) P0860012	1) P0410228 2) N/A 3) P41115004 4) P41115005



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK421	1) P31431741 ***x4*** 2) P31431731 ***x4***	3) P3313E011 ***x8***	a) P0780007 ***x8*** b) P0780006 ***x8***	5) P0230001 ***x16*** 6) N/A







Oil Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH
P41314164	1) N/A 2) P2485666	1) PZZ90139 2) P3737A101 3) P3737A091

(1) Semi Finished Liner, **P31358323**, and Finished Liner in .010", **P31358384**, are available.

Engine & Equipment Application

4.212

(LA)

4 Cyl, Rope & Lip Seal

(Both Rear Seal Types Inckuded in Kit)

Bore: 3.8770 in
98.476 mm

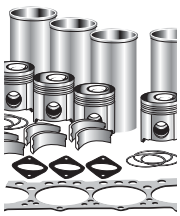
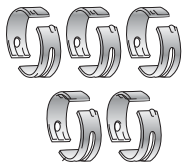
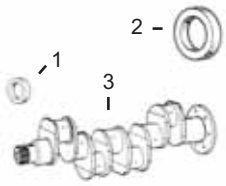
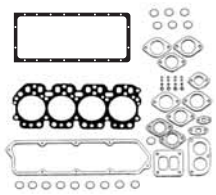
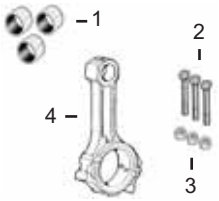
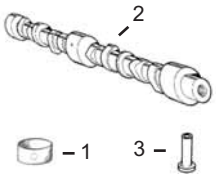
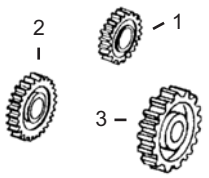
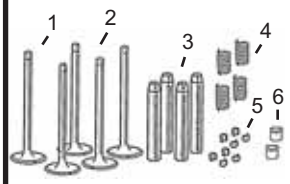
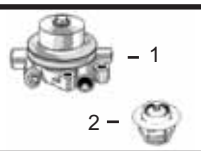
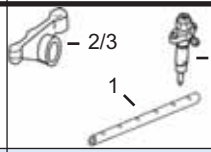
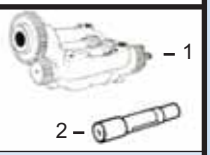
To ESN UA187117L

APPLICATIONS:

LANDINI TRACTORS
TL120C (LA21912)

MF AGRICULTURAL
165 (LA)

MF INDUSTRIAL
50 (LA21243)
50B

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0066**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK440	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK440	a) P86721 b) P41158044 c) P31358394 **(5)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Head Gasket 4) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod	
1) P2418F436 2) P36883108 ***X2*** P2418F475 3) N/A	1) PU5LT0015 2) PU5LB0045 3) P36812349 4) PU5MK0600	1) P31134123 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90009	1) P31134132 ***X1*** 2) P31415321 **(1)** P31415374 **(2)** 3) P31434163 4) P31434307	1) P31171681 2) P31171353 **(1)** 3) P41115023
	**Valve Train Kit**	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
					
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	1) Balancer Unit 2) Balancer Shaft
P41314182 **(3)**	P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484 4) P2645600 **(6)** P2646689 **(6)**	1) PZZ80175 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**	1) P41733082 **(4)** 2) P32731127

(1) To ESN U106654N.
(2) From ESN U106655N.
(3) Used on Build No: LA21194/LA21243.
(4) Used on Build No: LA21912.
(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.
(6) Check your Perkins Parts Catalog.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.236 (LD)

4 Cyl, Rope & Lip Seal

Bore: 3.8770 in
98.476 mm

To ESN U106654N

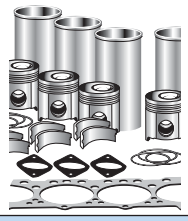
APPLICATIONS:

JCB
3CX Backhoe (LD50096)
410 Loader (LD50105)
520 Handler (LD50103)

LANDINI TRACTORS
6500/6550 (LD22573)
6830/7830
7500/7550 (LD22574)

MF AGRICULTURAL
175 (LD20022)
255 (LD22694/5)
275 (LD22051/2)

MF INDUSTRIAL
50C (LD22824)
6000 Forklift (LD22055)



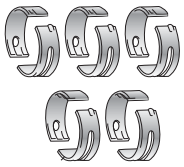
1) Engine O/H Kit
2) Basic Engine Kit
1) POK446
2) PBK446



Piston-Liner Kit

PU5MK0123
Consists of:
a) P68301
b) P41158041
c) P31358394 (3)

4 Per Engine



Main Bearing Set

P81558 **Std.**
P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85042 **Std.**
P85042A **.010**
P85042B **.020**
P85042C **.030**

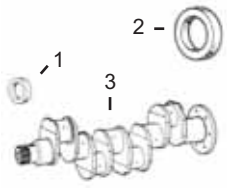
Set of 4 Pairs



Thrust Washer Set

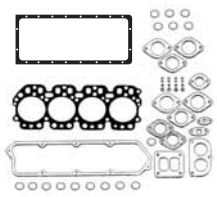
P31137551/61 **Std.**
P31137312/22 **.007**

Set of 2 Pairs



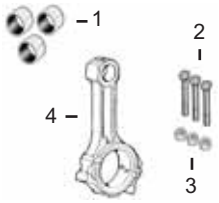
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F475
P36883108 ***X2***
3) PZZ90093 (4)
PZZ90081 (5)



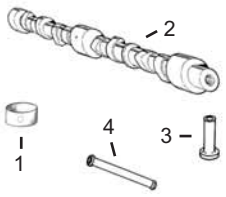
1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk
4) Head Gasket
5) Oil Pan Set
6) Timing Cover Gsk

1) PU5LT0015
2) PU5LB0045
3) P3681A027
4) P36812349
5) PU5MK0600
6) P3681P045



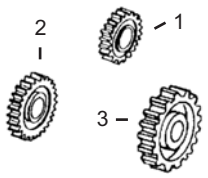
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134123 ***X4***
2) P32762144 ***X8***
3) P33221328 ***X8***
4) PZZ90009



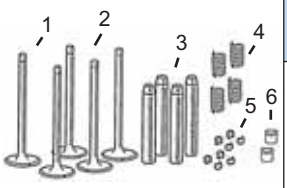
1) Bushing, Cam
2) Camshaft
3) Tappet
4) Pushrod

1) P31134132 ***X1***
2) P31415321
3) P31434163
4) P31434307



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P31171681
2) P31171353
3) P41115023



Valve Train Kit

PVTK406

1) Valve, Intake
2) Valve, Exhaust

1) P31431641 ***X4***
2) P31431881 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***X4***
b) P3343J002 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) P31744131 ***X8***
b) P31745121 ***X8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X16***
6) P33817117 ***X8***



1) Oil Pump
2) Oil Cooler

1) P41314182 (1)
2) P2486A218
P2486A219



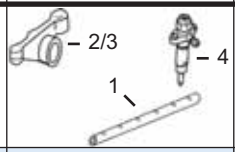
Lift Pump

P2641338 (6)
P2641728 (7)



1) Water Pump
2) Thermostat

1) P4131A013
2) P2485659
P2485666
(Use on JCB)



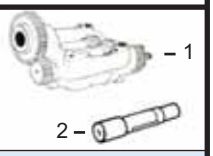
1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH
4) Injector

1) PZZ90032
2) P41151483
3) P41151484
4) P2645664
P2646689



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80175
2) P2666103
(Screw Fitting)
P2666108
(Bayonet Fitting)



1) Balancer Unit
2) Balancer Shaft

1) P41733082 (2)
2) P32731127

(1) For Non Agricultural Uses.
(2) For Agricultural Uses.
(3) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize, **P31358398**, are also available.
(4) Rope seal crank used To ESN 136318L.
(5) Lip seal crank used From ESN 136319L.
(6) To Engine No: 236UA57134.
(7) From Engine No: 236UA57135.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.236 (LD)

4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

From ESN U106655N

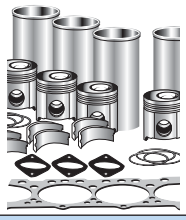
APPLICATIONS:

JCB
3CX Backhoe (LD50096)
410 Loader (LD50105)
520 Handler (LD50103)

LANDINI TRACTORS
6500/6550 (LD22573)
6830/7830
7500/7550 (LD22574)

MF AGRICULTURAL
175 (LD20022)
255 (LD22694/5)
275 (LD22051/2)
362 (LD31234)

MF INDUSTRIAL
50C (LD22824)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK449

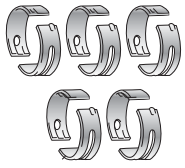
2) PBK449



Piston-Liner Kit

PCK301
Consists of:
a) P68301
b) P41158041
c) P3135X032 (3)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85042 **Std.**

P85042A **.010**
P85042B **.020**
P85042C **.030**

Set of 4 Pairs

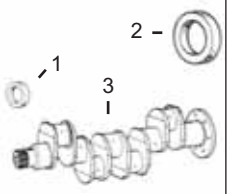


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

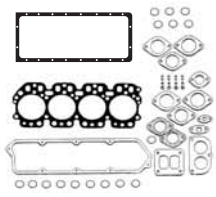
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

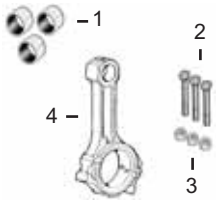
1) P2418F436
2) P2418F475
3) PZZ90081



1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk

4) Head Gasket
5) Oil Pan Set
6) Timing Cover Gsk

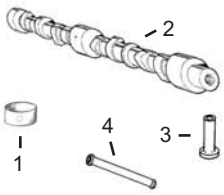
1) PU5LT0065
2) PU5LB0045
3) P3681A027
4) P3681E036
5) PU5MK0600
6) P3681P045



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

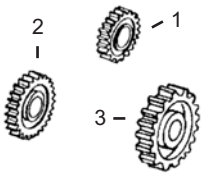
1) P31134123 ***X4***
2) P32762144 ***X8***
3) P33221328 ***X8***
4) PZZ90009



1) Bushing, Cam

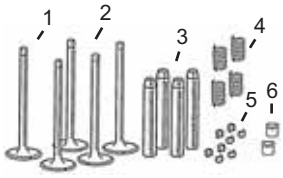
2) Camshaft
3) Tappet
4) Pushrod

1) P31134132 ***X1***
2) P31415374
3) P31434163
4) P31434307



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P31171681
2) P31171353
3) P41115023



Valve Train Kit

PVTK406

1) Valve, Intake
2) Valve, Exhaust

1) P31431641 ***X4***
2) P31431881 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***X4***
b) P3343J002 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) P31744131 ***X8***
b) P31745121 ***X8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X16***
6) P33817117 ***X8***



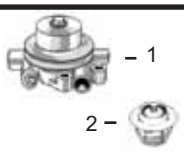
1) Oil Pump
2) Oil Cooler

1) P41314182 **(1)**
2) P2486A218 **(5)**
P2486A219 **(5)**



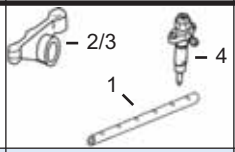
Lift Pump

P2641728



1) Water Pump
2) Thermostat

1) P4131A013
2) P2485659
P2485666
(Use on JCB)



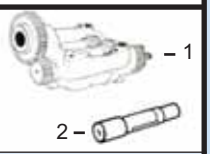
1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH
4) Injector

1) P41151483
2) P41151484
3) P41151485
4) P2645664 **(4)**



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80175
2) P2666103
(Screw Fitting)
P2666108
(Bayonet Fitting)



1) Balancer Unit
2) Balancer Shaft

1) P41733082 **(2)**
2) P32731127

(1) For Non Agricultural Uses.
(2) For Agricultural Uses.
(3) Flanged, Semi Finished Liner available, **P3135X031**.
(4) Check your Perkins Parts Catalog.
(5) Check build number for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.236

(LD)

4 Cyl, Rope & Lip Seal

(Both Rear Seal Types Included in Kit)

Bore: 3.8770 in
98.476 mm

To ESN U106654N

APPLICATIONS:

ALLIS CHALMERS
715B Loader (LD22682)

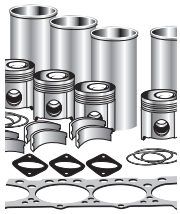
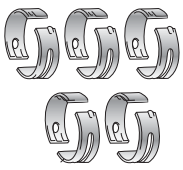
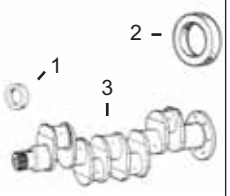
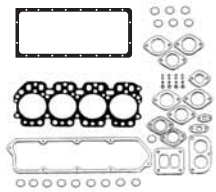
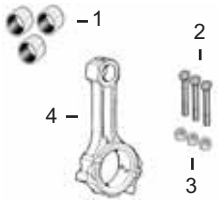
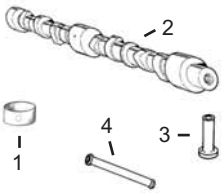
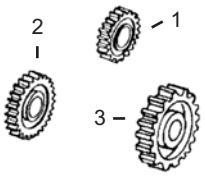
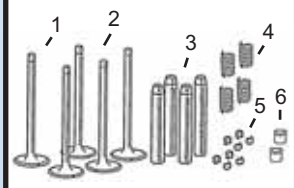
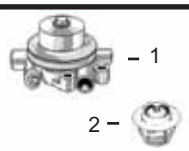
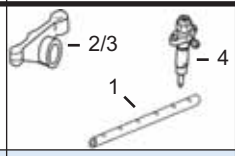
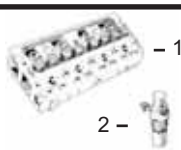
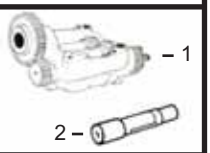
CLARK EQUIPMENT
CY60-70-80B (LD21386)
Tow Tractor (LD21324)

HYSTER
C300 Compactor (LD70119)
H110-150 (LD70121)
S60-100 (LD70115)

LINCOLN ELECTRIC
500 Amp Welder (LD50148)

SULLAIR CORP
185-250 Compressor (LD70147)

TOWMOTOR
V100/120/140 (LD22043/4)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0123**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK450	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK450	a) P68301	P81558B **.020**	P85042B **.020**	
	b) P41158041	P81558C **.030**	P85042C **.030**	
	c) P31358394 **(6)**			
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod	
1) P2418F436 2) P2418F475 P36883108 ***x2*** 3) PZZ90093 **(2)** PZZ90081 **(3)** PZZ90082 **(3) (5)**	1) PU5LT0015 2) PU5LB0046 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134123 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90009	1) P31134132 ***x1*** 2) P31415292 P31415321 **(5)** 3) P31434163 4) P31434307	1) P31171681 2) P31171353 **(1)** 3) P41115023 **(1)**
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK413	1) P31431315 ***X4*** 2) P3142A052 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
					
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	1) Balancer Unit 2) Balancer Shaft
1) P41314182 2) P2486A218 P2486A219	P2641728	1) P4131A013 2) P2485666 **(7)**	1) PZZ90032 2) P41151483 3) P41151484 4) P2645664 P2645666	1) PZZ80175 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**	1) P41733082 **(4)** 2) P32731127

(1) Check with Build List.
(2) Rope Seal Crank Used To ESN U136318L.
(3) Lip Seal Crank Used From ESN U136319L.
(4) Used on Build No: LD21386.
(5) Used on Build No: LD22682.
(6) Parallel, Semi Finished Liner **P31358324**, Flanged, Semi Finished Liner **P31358393**, and Finished Liner in .010"Oversize **P31358398**, are also available.
(7) Use P2485609 on Build LD21386.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.236 (LD)

4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

From ESN U106655N

APPLICATIONS:

ALLIS CHALMERS
715B Loader (LD22682)

CATERPILLAR
6-8000lb Forklift (LD22242)

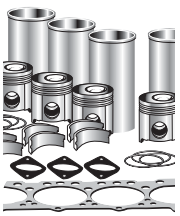
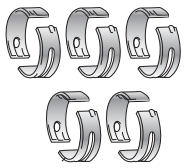
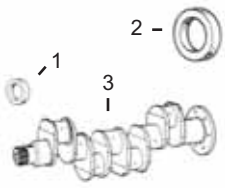
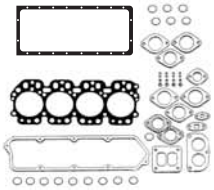
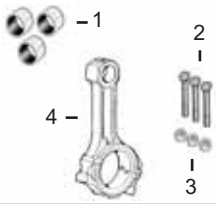
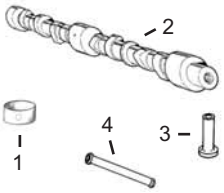
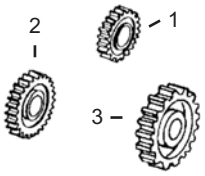
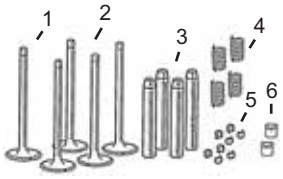
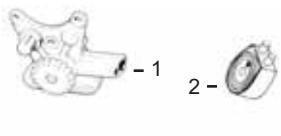
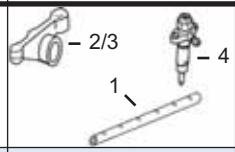
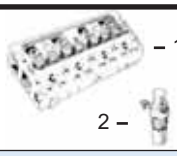
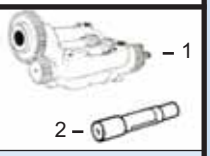
CLARK EQUIPMENT
CY60-70-80B (LD21386)
Tow Tractor (LD21324)

HYSTER
C300 Compactor (LD70119)
H110-150 (LD70121)
S60-100 (LD70115)

LINCOLN ELECTRIC
500 Amp Welder (LD50148)

SULLAIR CORP
185-250 Compressor (LD70147)

TOWMOTOR
V100/120/140 (LD22043/4)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK301**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK448	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK448	a) P68301 b) P41158041 c) P3135X032 **(3)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Pushrod	
1) P2418F436 2) P2418F475 3) PZZ90081 PZZ90082 **(1)**	1) PU5LT0065 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 ***x4*** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90009	1) P31134132 ***x1*** 2) P31415381 P31415374 **(1)** 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 **(2)** 3) P41115023 **(1)**
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK413	1) P31431315 ***x4*** 2) P3142A052 ***x4***	a) P3343F002 ***x4*** b) P3343J002 ***x4***	a) P31744131 ***x8*** b) P31745121 ***x8***	5) P33173108 ***x16*** 6) P33817117 ***x8***
					
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	1) Balancer Unit 2) Balancer Shaft
1) P41314182 **(1)** 2) P2486A218 **(5)** P2486A219 **(5)**	P2641728	1) P4131A013 2) P2485666 P2485609 **(2)**	1) PZZ90032 2) P41151483 3) P41151484 4) P2645664 **(4)** P2645666 **(4)**	1) PZZ80175 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**	1) P41733082 **(2)** 2) P32731127

(1) Used on Build No: LD22682.
(2) Used on Build No: LD21386.
(3) Flanged, Semi Finished Liner available, **P3135X031**.
(4) Check your Perkins Parts Catalog.
(5) Check build number for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

G4.236 (LE)

GASOLINE ENGINE

4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

To ESN U106654N

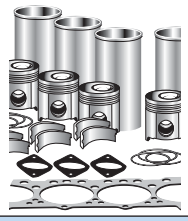
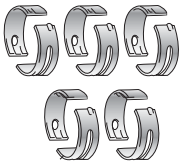
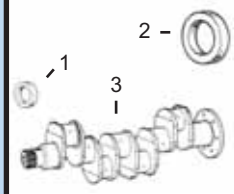
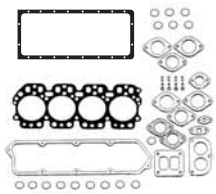
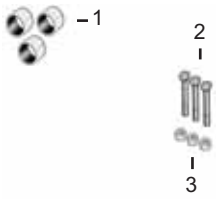
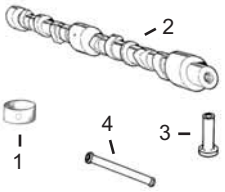
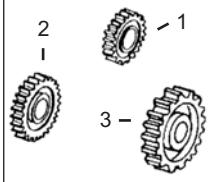
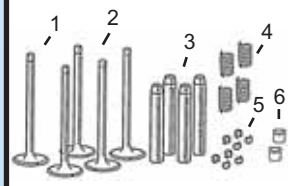
APPLICATIONS:

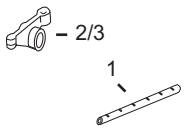
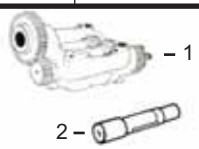
CATERPILLAR
RT (LE70110)
T500-1500 (LE70148)
V80D (LE70089)
V100-140 (LE70094)

CLARK EQUIPMENT
C500-Y60 (LE80173/LE22376)
C500H 60-80 (LE70157)
C500H 60-S100 CR (LE70175)
C500-100/135 (LE70185)

EATON CORP
Forklift (LE80177)

JACOBSEN MFG CO
H-15 & F10 Turf Tractor (LE70054)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PCK394**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK457	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK457	a) PU5LP0047 b) P41158142 c) P31358394 **(5)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk		2) Camshaft 3) Tappet 4) Pushrod	
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0176 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045 **(3)**	1) P31134144 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8***	1) P31134132 ***x1*** 2) P31415292 3) P31434163 4) P31434307	1) P31171681 **(1)** 2) P31171353 P31171931 **(4)** 3) P31171951
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK412	1) P31431871 ***X4*** 2) P31431701 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Balancer Unit 2) Balancer Shaft
P41314182	P2641728	1) P4131A013 PU5MW0105 2) P2485666 **(6)**	1) PZZ90032 2) P41151483 3) P41151484	1) P41733082 **(2)** 2) P32731127

(1) Do not Use on Build No: LE70089,LE22376, and LE80173.
(2) Use on Build No: LE22376,LE80173.
(3) Order with Kit for Build No: LE70089,LE70094.
(4) Use on Build Nos: LE70089/LE80173/LE22376.
(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize,**P31358398**, are also available.
(6) Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

Engine & Equipment Application

G4.236 (LE)

GASOLINE ENGINE

4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

From ESN U106655N

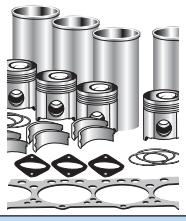
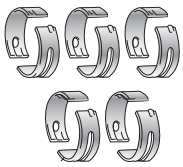
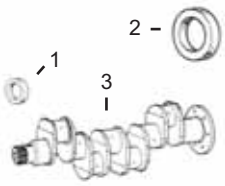
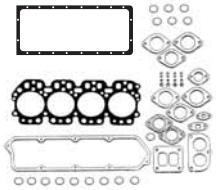
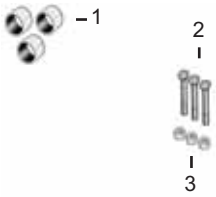
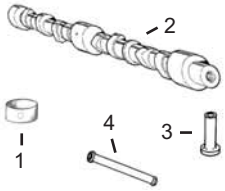
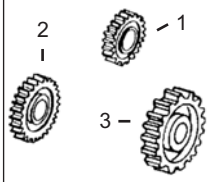
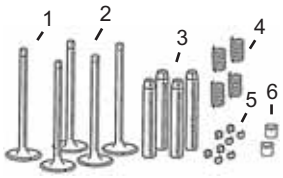
APPLICATIONS:

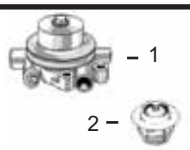
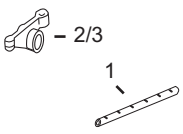
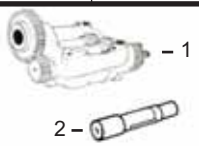
CATERPILLAR
RT (LE70110)
T500-1500 (LE70148)
V80D (LE70089)
V100-140 (LE70094)

CLARK EQUIPMENT
C500-Y60 (LE80173/LE22376)

EATON CORP
Forklift (LE80177)

JACOBSEN MFG CO
H-15 & F10 Turf Tractor (LE70054)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK236G**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK447	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK447	a) PU5LP0047 b) P41158142 c) P3135X032 **(4)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk		2) Camshaft 3) Tappet 4) Pushrod	
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0176 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045 **(3)**	1) P31134144 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8***	1) P31134132 ***X1*** 2) P31415381 3) P31434163 4) P31434307	1) P31171681 **(1)** 2) P31171353 P31171931 **(5)** 3) P31171951
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK412	1) P31431871 ***X4*** 2) P31431701 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Balancer Unit 2) Balancer Shaft
P41314182	P2641728	1) P4131A013 PU5MW0105 **(6)** 2) P2485666 **(7)**	1) PZZ90032 2) P41151483 3) P41151484	1) P41733082 **(2)** 2) P32731127

(1) Do not Use on Build No: LE70089/LE22376/LE80173.
(2) Use on Build No: LE22376/LE80173.
(3) Order with Kit for Build No: LE70089/LE70094.
(4) Flanged, Semi Finished Liner available, **P3135X031**.
(5) Used on Build Nos: LE70089/LE80173/LE22376.
(6) Check with Build List.
(7) Used P248513 on Build LE70148 and P2485609 on Build LE80173.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

C4.236 (LH)

COMPENSATED

4 Cyl, Lip Seal

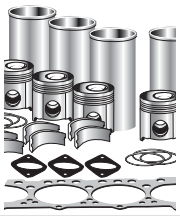
Bore: 3.8770 in
98.476 mm

To ESN U106654N

APPLICATIONS:

JCB

3CX Backhoe	(LH50133)
200 Loader	(LH50205)
200 Loader	(LH50226)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK452

2) PBK452



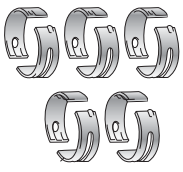
Piston-Liner Kit

PCK114

Consists of:

a) PU5LP0011
b) P41158147
c) P31358394 (1)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

P85042 **Std.**

P85042A **.010**
P85042B **.020**
P85042C **.030**

Set of 4 Pairs

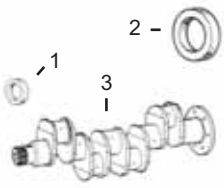


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

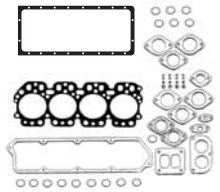
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

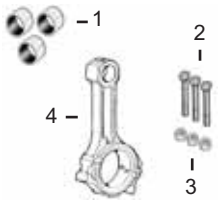
1) P2418F436
2) P2418F475
3) PZZ90082



1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk

4) Head Gasket
5) Oil Pan Set
6) Timing Cover Gsk

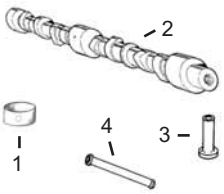
1) PU5LT0176
2) PU5LB0045
3) P3681A027
4) P3681E016
5) PU5MK0600
6) P3681P045



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

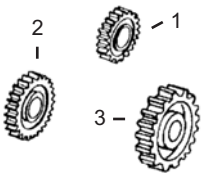
1) P31134123 ***x4***
2) P32762144 ***x8***
3) P33221328 ***x8***
4) PZZ90009



1) Bushing, Cam

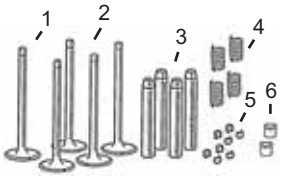
2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***x1***
2) P31415374
3) P31434163
4) P31434307



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P31171681
2) P31171353
P31171931 (2)
3) P41115023



Valve Train Kit

PVTK413

1) Valve, Intake
2) Valve, Exhaust

1) P31431315 ***x4***
2) P3142A052 ***x4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***x4***
b) P3343J002 ***x4***

4) Spring, Valve
a) Inner
b) Outer

a) P31744131 ***x8***
b) P31745121 ***x8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***x16***
6) P33817117 ***x8***



1) Oil Pump
2) Oil Cooler

1) P41314182
2) P2486A218 (3)
P2486A219 (3)



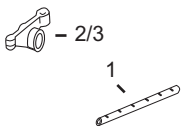
Lift Pump

P2641728



1) Water Pump
2) Thermostat

1) PU5MW0108
2) P2485613



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90032
2) P41151483
3) P41151484



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80175
2) P2666108
(Bayonet Fitting)

(1) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010"Oversize,**P31358398**, are also available.
(2) Used on Build Nos: LH50133/LH50205.
(3) Check build number for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

C4.236 (LH)

COMPENSATED

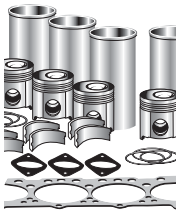
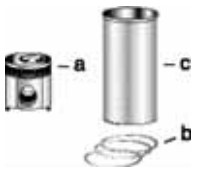
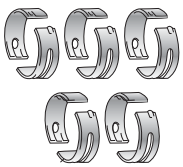
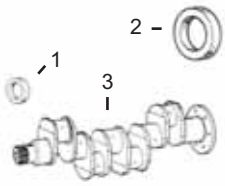
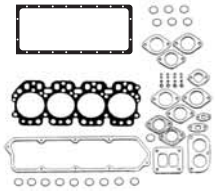
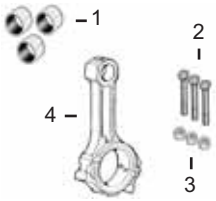
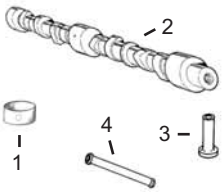
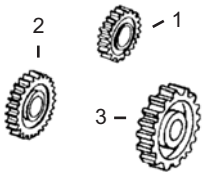
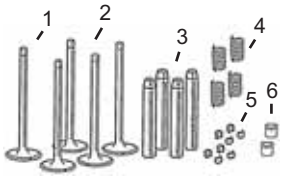
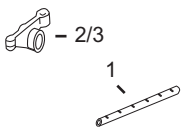
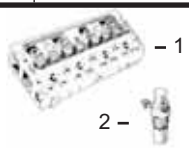
4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

From ESN U106655N

APPLICATIONS:

JCB
3CX Backhoe (LH50133)
200 Loader (LH50205)
200 Loader (LH50226)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK416**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK455	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK455	a) PU5LP0011 b) P41158147 c) P3135X032 **(1)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0046 2) PU5LB0045 3) P3681A027 4) P3681E016 5) PU5MK0600 6) P3681P045	1) P31134123 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90009	1) P31134132 ***X1*** 2) P31415374 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 **(2)** 3) P41115023
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK413	1) P31431315 ***X4*** 2) P3142A052 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
				
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head **(With Valves)** 2) Glowplug
1) P41314182 2) P2486A218 **(3)** P2486A219 **(3)**	P2641728	1) PU5MW0108 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80175 2) P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner available,**P3135X031**.
(2) Used on Build Nos: LH50133/LH50205.
(3) Check build number for proper application.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

T4.236 (LJ)

TURBOCHARGED

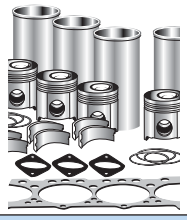
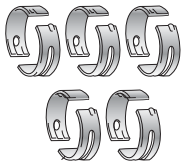
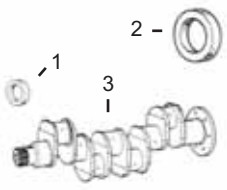
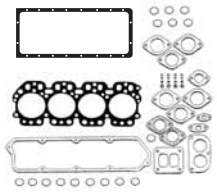
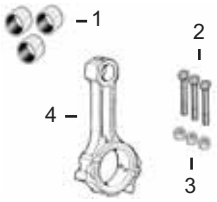
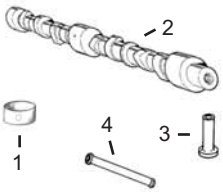
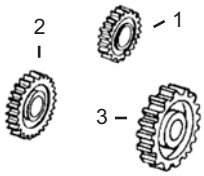
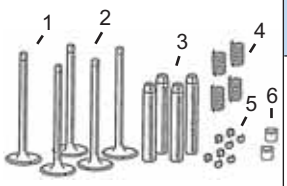
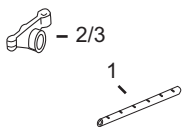
4 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

JCB
(From ESN U027774M)
4CX Backhoe (LJ50117)
410M Forklift (LJ50201)
415 Loader (LJ50224)
520S Loadall (LJ50183)

MF AGRICULTURAL
(From ESN U106655N)
698 (LJ31131)
3065 (LJ31217)
3370 (LJ31153)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK236T**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK451	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK451	a) PU5LP0022 b) P41158145 c) P3135X032 **(2)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0046 2) PU5LB0045 3) P3681A027 4) P3681E016 5) PU5MK0600 6) P3681P045	1) P31134131 ***x4*** P3212A006 ***x4*** **(5)** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90013	1) P31134132 ***x1*** 2) N/A 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 **(3)** 3) N/A
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK414	1) P3142H002 ***x4*** 2) P3142A052 ***x4***	a) P3343F002 ***x4*** b) P3343J002 ***x4***	a) P31744131 ***x8*** b) P31745121 ***x8***	5) P33173108 ***x16*** 6) P33817117 ***x8***
					
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug	Balancer Unit
1) P4132F012 P4132F041 **(1)** 2) P2486A218 **(4)** P2486A219 **(4)**	P2641728	1) PU5MW0108 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) P2666108 **(Bayonet Fitting)**	P4111K051 **(1)**

(1) For Use on Agricultural Applications.
(2) Flanged, Semi Finished Liner available, **P3135X031**.
(3) Used on Build No: LJ50201.
(4) Check build number for proper application.
(5) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

T4.236 (LJ)

TURBOCHARGED

4 Cyl, Lip Seal

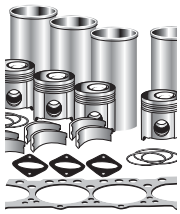
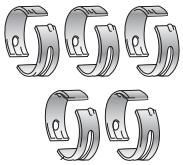
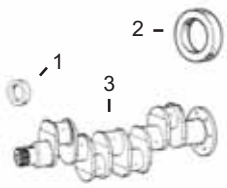
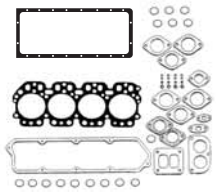
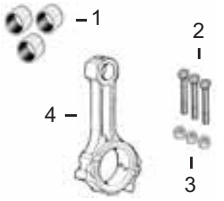
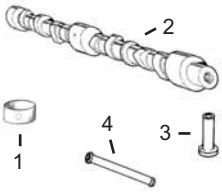
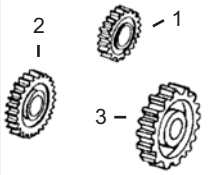
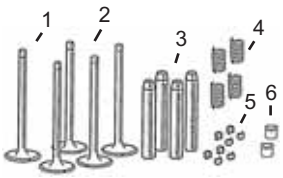
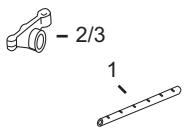
Bore: 3.8770 in
98.476 mm

To ESN U106654N

APPLICATIONS:

PERKINS USA
General Industrial (LJ70128)
Genset (LJ70130/LJ70151)

SULLAIR CORP
Genset (LJ70155)

					
	1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
	2) Basic Engine Kit	**PCK022**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
	1) POK458	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
	2) PBK458	a) PU5LP0022 b) P41158145 c) P31358394 **(3)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
		4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
	**1) Front Seal** **2) Rear Seal**	 **1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	 **1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	 **1) Bushing, Cam**	 1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0176 2) PU5LB0046 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134131 ***x4*** P3212A006 ***x4*** **(5)** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90013	1) P31134132 ***x1*** 2) N/A 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 **(1)** 3) N/A
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK414	1) P3142H002 ***x4*** 2) P3142A052 ***x4***	a) P3343F002 ***x4*** b) P3343J002 ***x4***	a) P31744131 ***x8*** b) P31745121 ***x8***	5) P33173108 ***x16*** 6) P33817117 ***x8***
					
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug	Balancer Unit
1) P4132F012 P4132F041 **(1)** 2) P2486A218 **(4)** P2486A219 **(4)**	P2641728	1) PU5MW0108 PU5MW0106 **(2)** 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) P2666108 **(Bayonet Fitting)**	P4111K051 **(1)**

(1) Use on Build No: LJ70128.
(2) Use on Build No: LJ70155.
(3) Parallel, Semi Finished Liner, **P31358324**,Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(4) Check build number for proper application.
(5) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

T4.236 (LJ)

TURBOCHARGED

4 Cyl, Lip Seal

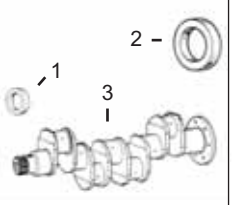
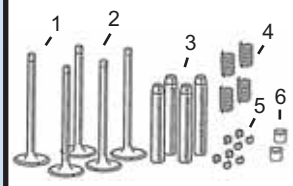
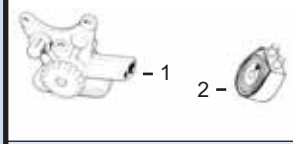
Bore: 3.8770 in
98.476 mm

From ESN U106655N

APPLICATIONS:

PERKINS USA
General Industrial (LJ70128)
Genset (LJ70130/LJ70151)

SULLAIR CORP
Genset (LJ70155)

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	**PCK236T** Consists of:	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
	1) POK456	a) PU5LP0022	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
	2) PBK456	b) P41158145	P81558B **.020**	P85042B **.020**	
		c) P3135X032 (3)	P81558C **.030**	P85042C **.030**	
		4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
	**1) Front Seal** **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
	1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0046 2) PU5LB0046 3) P3681A027 4) P3681E016 5) PU5MK0600 6) P3681P045	1) P31134131 ***X4*** P3212A006 ***X4*** (5) 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90013	1) P31134132 ***X1*** 2) N/A 3) P31434163 4) P31434307	1) P31171681 2) P31171353 P31171931 (1) 3) N/A
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK414	1) P3142H002 ***X4*** 2) P3142A052 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
	1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug	Balancer Unit
	1) P4132F012 P4132F041 (1) 2) P2486A218 (4) P2486A219 (4)	P2641728	1) PU5MW0108 PU5MW0106 (2) 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) P2666108 **(Bayonet Fitting)**	P4111K051 (1)

(1) Use on Build No: LJ70128.
(2) Use on Build No: LJ70155.
(3) Flanged, Semi Finished Liner available, **P3135X031**.
(4) Check build number for proper application.
(5) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.248 (LF)

4 Cyl

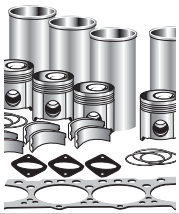
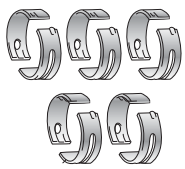
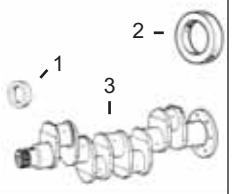
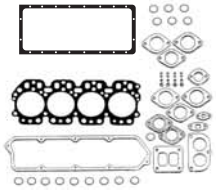
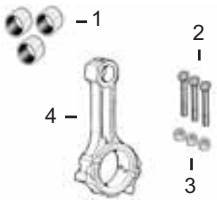
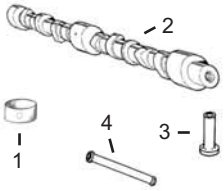
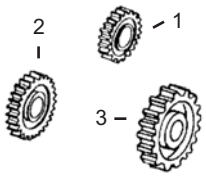
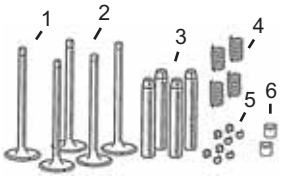
Both rear seal types in kit

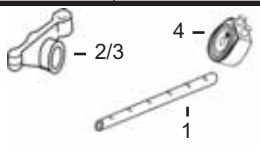
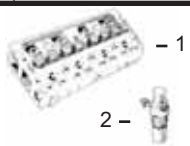
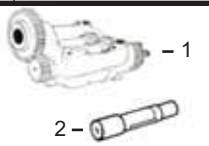
Bore: 3.9785 in
101.054 mm

To ESN UA123423L

APPLICATIONS:

MF AGRICULTURAL
275 Tractor

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0067**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK460	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK460	a) P89207 b) P4181A009 c) P31358352 **(1)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P36883108 ***x2*** **(2)** P2418F475 **(3)** 3) PZZ90093 **(2)** PZZ90081 **(3)**	1) PU5LT0015 2) PU5LB0045 3) P3681A027 4) P36812349 5) PU5MK0600 6) P3681P045	1) P31134123 ***x4*** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90009	1) P31134132 ***x1*** 2) P31415321 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	1) P31431641 ***x4*** 2) P31431881 ***x4***	a) P3343F002 ***x4*** b) P3343J002 ***x4***	a) P31744131 ***x8*** b) P31745121 ***x8***	5) P33173108 ***x16*** 6) P33817117 ***x8***

				
Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head **(With Valves)** 2) Glowplug	1) Balancer Unit 2) Balancer Shaft
P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484 4) P2486A218 **(4)** P2486A219 **(4)**	1) PZZ80175 2) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**	1) P41733082 2) P32731127

(1) Parallel, Semi Finished Liner **P31358343** (4.065"OD), and Flanged, Semi Finished Liner **P31358346** are also available.
(2) Rope Seal.
(3) Lip Seal.
(4) Check build number for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.248 (LF)

4 Cyl, Lip Seal

Bore: 3.9785 in
101.054 mm

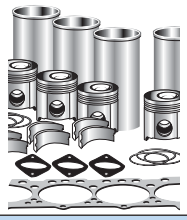
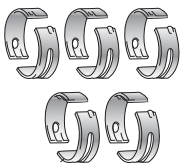
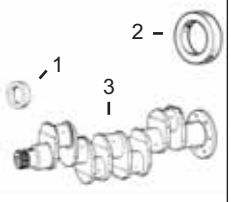
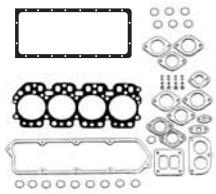
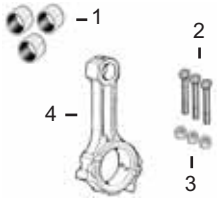
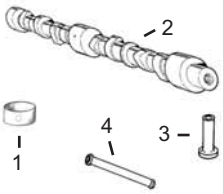
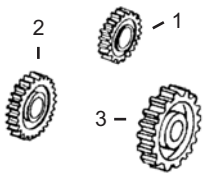
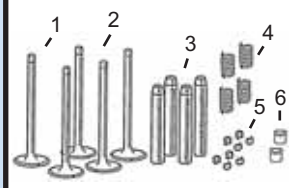
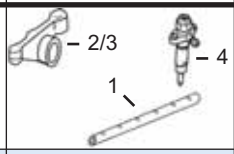
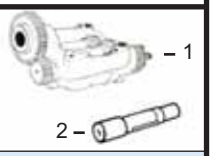
From ESN UA123424L

APPLICATIONS:

LANDINI TRACTORS
R8500 (LF22575)

MF AGRICULTURAL
194 (LF22762)
275 (LF22312/3)
285 (LF22471)
290 (LF22790)
590 (LF22486)

MF INDUSTRIAL
50H

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PCK2481**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK461	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK461	a) PU5LP0009 b) P41158022 c) P3135X034 **(5)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 3) PZZ90082	1) PU5LT0065 2) PU5LB0045 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90009	1) P31134132 ***X1*** 2) P31415321 **(1)** P31415374 **(2)** 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK406	1) P31431641 ***X4*** 2) P31431881 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
					
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)** 2) Glowplug	1) Balancer Unit 2) Balancer Shaft
1) P4132F041 **(6)** 2) P2486A218 **(8)** P2486A219 **(8)**	P2641728	1) P4131A013 2) P2485659	1) PZZ90032 2) P41151483 3) P41151484 4) P2645601 **(7)** P2645664 **(7)**	1) PZZ80175 2) P2666108 **(Bayonet Fitting)**	1) P41733082 **(3)** P4111K051 **(4)** 2) P32731127 **(7)**

(1) To ESN U108196N.
(2) From ESN U108197N.
(3) To ESN U076241N.
(4) From ESN U076242N.
(5) Flanged, Semi Finished Liner available, **P3135X033**.
(6) Used with Balancer Unit **P4111K051**.
(7) Used with Balancer Unit **P41733082**.
(8) Check build number for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.248 (LF)

4 Cyl, Rope & Lip Seal

Bore: 3.9785 in
101.054 mm

APPLICATIONS:

ALLIS CHALMERS
840 Loader (LF21617)
D175 Tractor (LF21274)

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit **1) POK463** **2) PBK463**	**PCK2481** Consists of: a) PU5LP0009 b) P41158022 c) P3135X034 (6) **4 Per Engine**	P81558 **Std.** P81558A **.010** P81558B **.020** P81558C **.030** **Set of 5 Pairs**	P85042 **Std.** P85042A **.010** P85042B **.020** P85042C **.030** **Set of 4 Pairs**	P31137551/61 **Std.** P31137312/22 **.007** **Set of 2 Pairs**
	1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk** 4) Head Gasket 5) Oil Pan Set 6) Timing Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	**1) Bushing, Cam** 2) Camshaft 3) Tappet 4) Push Rod	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
	1) P2418F436 2) P2418F475 P36883108 ***x2*** 3) PZZ90093 (4) PZZ90082 (5)	1) PU5LT0065 2) PU5LB0046 3) P3681A027 4) P3681E036 5) PU5MK0600 6) P3681P045	1) P31134123 ***x4*** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90009	1) P31134132 ***x1*** 2) P31415321 (1) (3) P31415371 (2) (3) 3) P31434163 4) P31434307	1) P31171681 2) P31171353 3) P41115023
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK413	1) P31431315 ***X4*** 2) P3142A052 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
	1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Cylinder Head **(With Valves)**
	1) P41314182 2) P2486A218 (3) P2486A219 (3)	P2641728	1) P4131A013 2) P2485666	1) PZZ90032 2) P41151483 3) P41151484 4) P2645601 (7) P2645664 (7)	1) PZZ80175

(1) To ESN U108196N.
(2) From ESN U108197N.
(3) Check with Build List.
(4) To ESN U17856L.
(5) From ESN U17857L.
(6) Flanged, Semi Finished Liner available, **P3135X033**.
(7) Check your Perkins Parts Catalog.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

4.248.2 (LG)

4 Cyl, Lip Seal

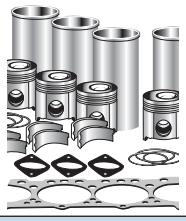
Bore: 3.9785 in
101.054 mm

APPLICATIONS:

CATERPILLAR
T80D (LG70149)
T50-150D (LG70109)
V60C (LG70069/LG70091)
V80D (LG70067/LG70090)

CLARK EQUIPMENT
C500 (H) 60-80 (LG70159)
C500Y-100-150 (LG70104)
CTD20-50 (LG70097/LG70106)

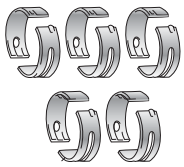
HYSTER
H60-80E (LG70063)
H60-110E (LG70127)



1) Engine O/H Kit
2) Basic Engine Kit
1) POK462
2) PBK462



Piston-Liner Kit
PCK2482
Consists of:
a) P68814
b) P41158022
c) P3135X034 (7)
4 Per Engine



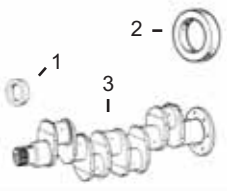
Main Bearing Set
P81558 **Std.**
P81558A **.010**
P81558B **.020**
P81558C **.030**
Set of 5 Pairs



Con Rod Bearing Set
P85042 **Std.**
P85042A **.010**
P85042B **.020**
P85042C **.030**
Set of 4 Pairs

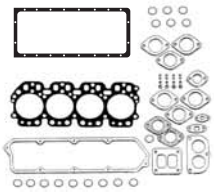


Thrust Washer Set
P31137551/61 **Std.**
P31137312/22 **.007**
Set of 2 Pairs



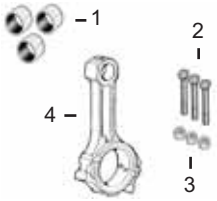
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F475
3) PZZ90082



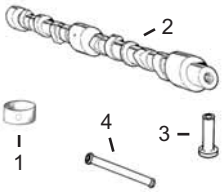
1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk
4) Head Gasket
5) Oil Pan Set
6) Timing Cover Gsk

1) PU5LT0176
2) PU5LB0046
3) P3681A027
4) P3681E036
5) PU5MK0600
6) P3681P045



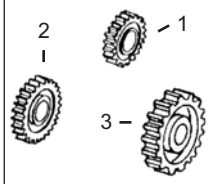
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134123 ***x4***
2) P32762144 ***x8***
3) P33221328 ***x8***
4) PZZ90009



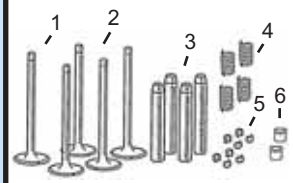
1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***x1***
2) P31415292 (2)
P31415381 (3)
3) P31434163
4) P31434307



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P31171681
2) P31171353
P31171931 (6)
3) P31171951



Valve Train Kit
PVTK413

1) Valve, Intake
2) Valve, Exhaust

1) P31431315 ***x4***
2) P3142A052 ***x4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***x4***
b) P3343J002 ***x4***

4) Spring, Valve
a) Inner
b) Outer

a) P31744131 ***x8***
b) P31745121 ***x8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***x16***
6) P33817117 ***x8***



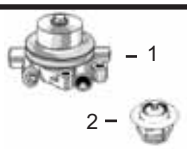
Oil Pump

P41314182
P4132F041 (5)



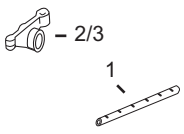
Lift Pump

P2641728



1) Water Pump
2) Thermostat

1) P4131A013 (1)
PU5MW0105 (1)
2) P2485666 (8)



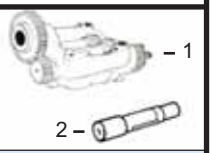
1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90032
2) P41151483
3) P41151484



1) Cylinder Head
(With Valves)
2) Glowplug

1) PZZ80175
2) P2666103
(Screw Fitting)
P2666108
(Bayonet Fitting)



1) Balancer Unit
2) Balancer Shaft

1) P41733082 (4)
P4111K051 (5)
2) P32731127

(1) Check with Build List.
(2) To ESN U108196N.
(3) From ESN U108197N.
(4) Use on Build No: LG70104.
(5) Use on Build No: LG70159.
(6) Use on Build Nos: LG70067/LG70090.
(7) Flanged, Semi Finished Liner available, **P3135X033**.
(8) Build LG70149 use **P2485613**, and Build LG70159, LG70104 use **P2485609**.

Engine & Equipment Application

4.318

(NC)

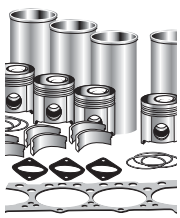
4 Cyl, Lip Seal

Bore: 4.5005 in
114.313 mm

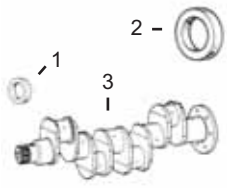
APPLICATIONS:

MF AGRICULTURAL

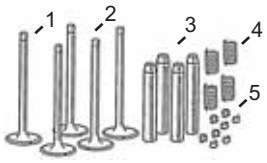
285 (NC22089)
540 Combine (NC22699)
1085 (NC21725)



1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	**PCK318**	P68085 **Std.**	P85041 **Std.**	P31137551/61 **Std.**
1) POK490	Consists of:	P68085A **.010**	P85041A **.010**	P31137312/22 **.007**
2) PBK490	a) P86716 b) P41158118 c) P31358534	P68085B **.020** P68085C **.030**	P85041B **.020** P85041C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**



1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet
1) P2415346 2) P2418F475 3) N/A	1) P69048 2) P68211 3) P36812348	1) P0050128 ***X4*** 2) N/A 3) Not Used 4) N/A	1) Not Used 2) N/A 3) N/A



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve
PVTK408	1) P31431154 ***X4*** 2) P31431671 ***X4***	3) P33432532 ***X8***	a) P31744131 ***X8*** b) P31745121 ***X8***	5) P33173108 ***X16***



Oil Pump

P41314113



Lift Pump

P2641336



1) Water Pump
2) Thermostat

1) PU5MW0009 **(1)**
PU5MW0014 **(2)**
2) P2485666

(1) Used on Build No: NC22089/NC22699.
(2) Used on Build No: NC21725.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

6.354

(TC)

6 Cyl, Rope & Lip Seal

(Both Rear Seal Types Included in Kit)

Bore: 3.8770 in
98.476 mm

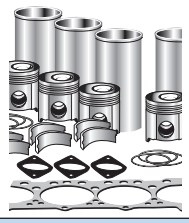
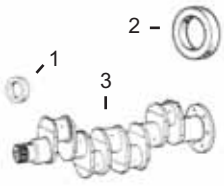
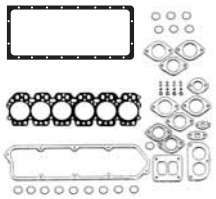
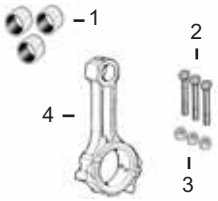
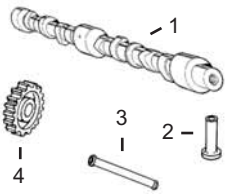
APPLICATIONS:

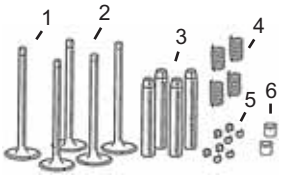
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C500-CY-160-300 (TC22266)

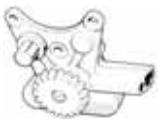
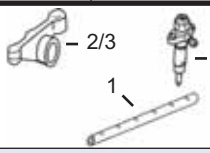
HYSTER
H150-250 (TC20102)

MF AGRICULTURAL
1100 (4)

MICHIGAN
45B Shovel (TC22460)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit **2) Basic Engine Kit** **1) POK650** **2) PBK650**	**PU5MK0127** Consists of: a) P86740 b) P41158041 c) P31358394 (5) **6 Per Engine**	P85010 **Std.** P85010A **.010** P85010B **.020** P85010C **.030** **Set of 7 Pairs**	P85043 **Std.** P85043A **.010** P85043B **.020** P85043C **.030** **Set of 6 Pairs**	PW2105L (1) P31137551/61 (Both Types in Kit) **Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
1) P2418F436 2) P36883108 ***X2*** P2418F475 3) PZZ90090 (2)	1) PU5LT0021 2) PU5LB0056 3) P36812548	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 ***X6*** 2) P3142A052 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Glowplug
P41314067 (3) P41314131 (3)	P2641A064	1) PU5MW0112 (3) 2) P2485609	1) PZZ90046 2) P41151483 3) P41151484 4) P2645595 (6)	1) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) For ESN's Prior to 8504189 use Thrust Washer Set **PW2105L**.
(2) From ESN U327089L.
(3) Check with Build List.
(4) To ESN 354UA10361.
(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(6) Used on Build TC21192 only.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

6.354

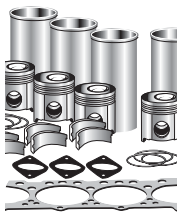
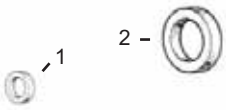
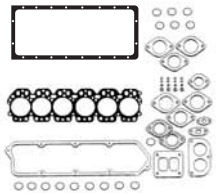
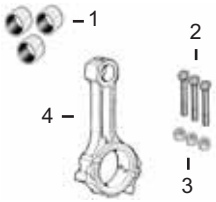
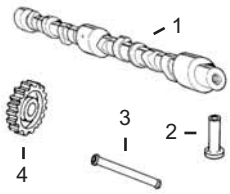
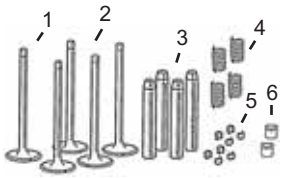
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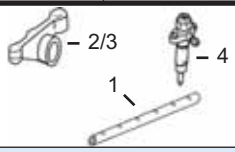
6 Cyl, Rope Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MF AGRICULTURAL
1100 **(1)**

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**	
2) Basic Engine Kit	**PU5MK0127**	P85010 **Std.**	P85043 **Std.**	P31137551/61 **Std.**	
1) POK652	Consists of:	P85010A **.010**	P85043A **.010**	P31137312/22 **.007**	
2) PBK652	a) P86740 b) P41158041 c) P31358394 **(2)**	P85010B **.020** P85010C **.030**	P85043B **.020** P85043C **.030**		
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**	
					
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal	
1) P2418F436 2) P36883108 ***x2***	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432	
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 ***X6*** 2) P3142A052 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Injector	1) Glowplug
P41314067	P2641A064	1) PU5MW0016 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484 4) P2645595 **(3)**	1) P2666103 **(Screw Fitting)** P2666108 **(Bayonet Fitting)**

(1) From ESN 354UA10362.
(2) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(3) Used on Build TC21192 only.

Engine & Equipment Application

T6.354 (TE)

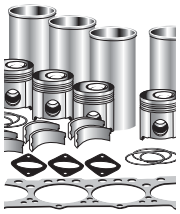
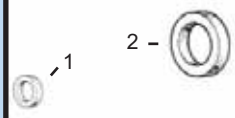
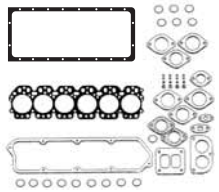
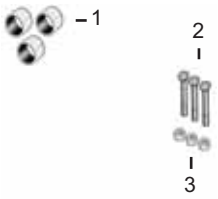
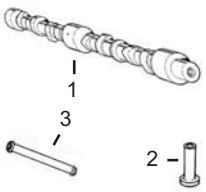
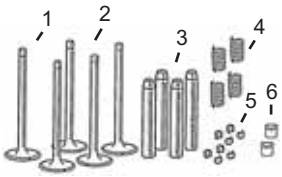
TURBOCHARGED

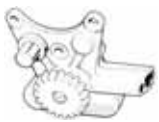
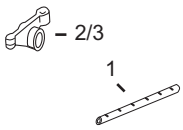
6 Cyl, Rope Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MF AGRICULTURAL
1130 (1)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK354**	PU5MB0011 **Std.**	PU5ME0007 **Std.**	P31137551/61 **Std.**
1) POK660	Consists of:	PU5MB0011A **.010**	PU5ME0007A **.010**	P31137312/22 **.007**
2) PBK660	a) P86726 b) P41158031 c) P31358394 (2)	PU5MB0011B **.020** PU5MB0011C **.030**	PU5ME0007B **.020** PU5ME0007C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
1) P2418F436 2) P36883108 ***x2***	1) PU5LT0021 2) PU5LB0056 3) P36812548	1) P31134134 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12***	1) N/A 2) P31434163 3) P31434307	1) N/A 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 ***X6*** 2) P3142A052 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Glowplug
P41314067	P2641A064	1) PU5MW0016 (1) 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484	1) P2666108 **(Bayonet Fitting)**

(1) To ESN 354UA3355T.
(2) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

T6.354.1 (TH)

TC6.354.1 (TT)

TURBOCHARGED

6 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MF AGRICULTURAL
750
760 **(1)** (TH21794)
1105 (TT21724)
1130 **(4)**
1135 (TH22431/TH21722)

NEW IDEA
Combine (TH22481)

WHITE FARM
2-105 (TH22282)

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	**PCK354**	PU5MB0011 **Std.**	PU5ME0007 **Std.**	P31137551/61 **Std.**
	1) POK661	Consists of:	PU5MB0011A **.010**	PU5ME0007A **.010**	P31137312/22 **.007**
	2) PBK661	a) P86726 b) P41158031 c) P31358394 **(5)**	PU5MB0011B **.020** PU5MB0011C **.030**	PU5ME0007B **.020** PU5ME0007C **.030**	
		6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
	1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket			
	1) P2418F436 2) P2418F475 3) PZZ90091	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134134 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12***	1) N/A 2) P31434163 3) P31434307 4) P31171931	1) P31173422 **(3)** 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432 **(7)**
	Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 ***X6*** 2) P3142A052 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***
	Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Glowplug
	P41314067	P2641A064	1) PU5MW0016 **(2)** PU5MW0123 **(3)** 2) P2485666 **(6)** P2485613	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115	1) P2666108 **(Bayonet Fitting)**

(1) From ESN UA48970L.
(2) Do Not Use on Build No: TH21794.
(3) Use on Build No: TH22481.
(4) From ESN 354UA3356T.
(5) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(6) Check with Build List.
(7) Do not use on Build numbers TH22431 and TH22282.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

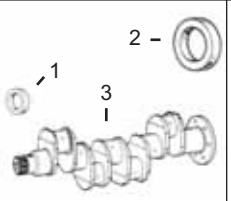
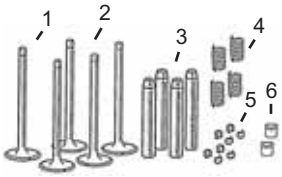
6.354.1 (TG)

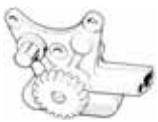
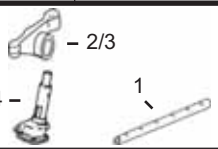
6 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

WHITE FARM
2-85 Tractor (TG22453)

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	**PU5MK0125**	PU5MB0011 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
	1) POK667	Consists of:	PU5MB0011A **.010** PU5MB0011B **.020** PU5MB0011C **.030**	PU5ME0003A **.010** PU5ME0003B **.020** PU5ME0003C **.030**	P31137312/22 **.007**
	2) PBK667	a) P86745 b) P41158032 c) P31358394 **(1)**	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
		6 Per Engine			
	**1) Front Seal** **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2418F436 2) P2418F475 3) PZZ90092	1) PU5LT0026 2) PU5LB0056 3) P36812547	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171931	1) N/A 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK616	1) P31431315 ***X6*** 2) P31431931 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Glowplug
P41314067	P2641A064	1) PU5MW0016 2) P2485666 P2485613	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115	1) P2666108 **(Bayonet Fitting)**

(1) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application

6.354.2 (TJ)

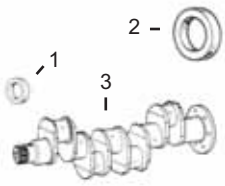
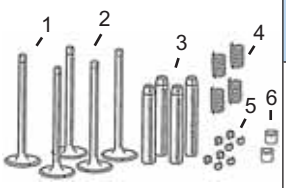
6 Cyl, Rope & Lip Seal

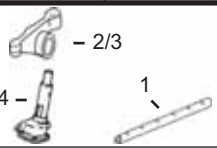
Kits include both rear seals

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

WHITE COCKSHUTT
7600 Combine (TJ22189)

	1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
	2) Basic Engine Kit	**PU5MK0125**	P85010 **Std.**	P85043 **Std.**	P31137551/61 **Std.**
	1) POK668	Consists of:	P85010A **.010**	P85043A **.010**	P31137312/22 **.007**
	2) PBK668	a) P86745	P85010B **.020**	P85043B **.020**	
		b) P41158032	P85010C **.030**	P85043C **.030**	
		c) P31358394 **(2)**	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
	**1) Front Seal** **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	1) P2418F436 2) P36883108 ***X2*** P2418F475 3) PZZ90090 **(1)**	1) PU5LT0028 2) PU5LB0056 3) P36812545	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) N/A 2) P31434163 3) P31434307 4) P31171353	1) P31173422 2) P41115367 3) P31171731 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK610	1) P31431315 ***X6*** 2) P3142A052 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

			
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve
P41314067	P2641A064	1) PU5MW0123 2) P2485604 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371115 P41371158

(1) From ESN U12129L.
(2) Parallel, Semi Finished Liner, **P31358324**, Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

6.354.4 (TW)

6 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

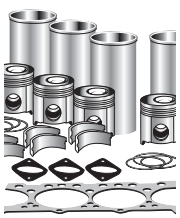
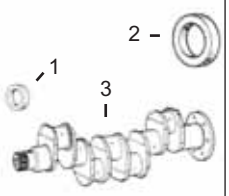
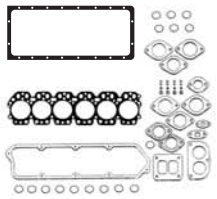
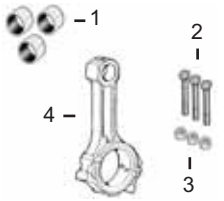
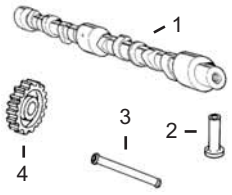
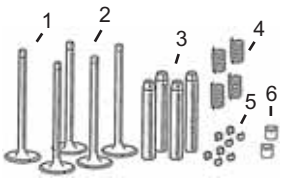
CLARK EQUIPMENT
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C500-160-300D (TW70142)

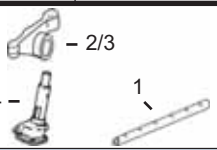
HYSTER
H150-275-300-350H (TW70005)

MF AGRICULTURAL
1014 (TW31087)
TX550 Combine (TW31015)

PERKINS USA
General Industrial (TW33425)

WHITE FARM
8600 Combine (TW70114)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PU5MK0127**	PU5MB0030 **Std.**	P85043 **Std.**	P31137551/61 **Std.**
1) POK671	Consists of:	PU5MB0030A **.010**	P85043A **.010**	P31137312/22 **.007**
2) PBK671	a) P86740 b) P41158041 c) P31358394 **(3)**	PU5MB0030B **.020** PU5MB0030C **.030**	P85043B **.020** P85043C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
1) P2418F436 2) P2418F475 3) PZZ90086	1) PU5LT0017 2) PU5LB0056 3) P3681H202	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) P31416303 2) P31434163 3) P31434307 4) P31171353 P31171931 **(1)**	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head **(With Valves)** 2) Glowplug
P4132F015	P2641729	1) P41313027 **(2)** PU5MW0129 **(2)** 2) P2485613 ***x2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80024 2) P2666108 **(Bayonet Fitting)**

(1) Use Only on Build No: TW70014.
(2) Check with Build List.
(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

6.354.4 (TW)

6 Cyl, Lip Seal

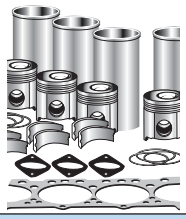
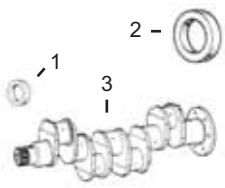
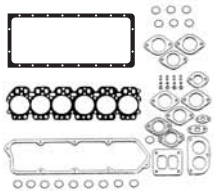
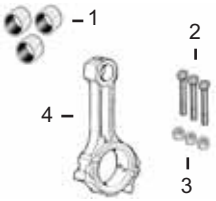
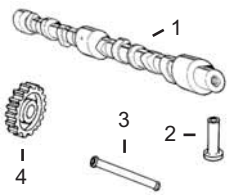
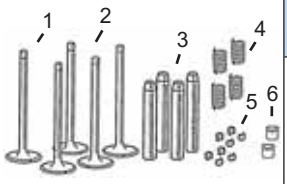
Bore: 3.8770 in
98.476 mm

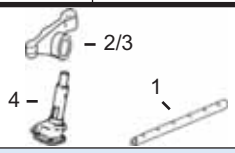
APPLICATIONS:

CLARK EQUIPMENT
45C Shovel (TW70016)

NEW HOLLAND
Stack Cruiser (TW70031)

WHITE FARM
8600 Combine (TW70003)

					
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**	
2) Basic Engine Kit	**PCK619**	PU5MB0030 **Std.**	P85043 **Std.**	P31137551/61 **Std.**	
1) POK672	Consists of:	PU5MB0030A **.010**	P85043A **.010**	P31137312/22 **.007**	
2) PBK672	a) PU5LP0019 b) P41158017 c) P31358394 **(3)**	PU5MB0030B **.020** PU5MB0030C **.030**	P85043B **.020** P85043C **.030**		
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**	
					
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal	
1) P2418F436 2) P2418F475 3) PZZ90086	1) PU5LT0017 2) PU5LB0056 3) P3681H202	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) P31416303 2) P31434163 3) P31434307 4) P31171353 **(4)** P31171931 **(1)**	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432	
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head **(With Valves)** 2) Glowplug
P4132F015	P2641729	1) P41313027 **(1)** PU5MW0129 **(2)** 2) P2485613 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80024 2) P2666108 **(Bayonet Fitting)**

(1) Use on Build No: TW70016.
(2) Use on Build No: TW70031/TW70003.
(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(4) Use on Build No: TW70003.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

6.354.4 (TW)

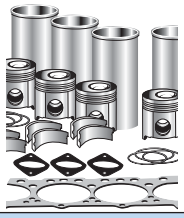
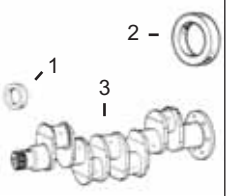
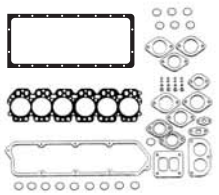
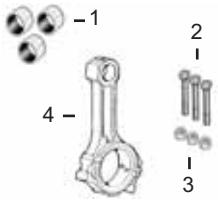
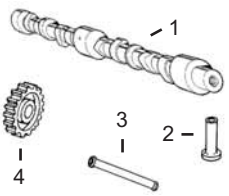
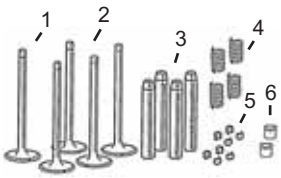
6 Cyl, Lip Seal

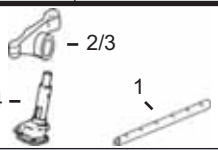
Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MF AGRICULTURAL
699 (TW31125)
2675 (TW31008)
3090 (TW31159)

WHITE FARM
2-85 Tractor (TW70008)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit **1) POK673** **2) PBK673**	**PCK619** Consists of: a) PU5LP0019 b) P41158017 c) P31358394 **(3)** **6 Per Engine**	PU5MB0030 **Std.** PU5MB0030A **.010** PU5MB0030B **.020** PU5MB0030C **.030** **Set of 7 Pairs**	P85043 **Std.** P85043A **.010** P85043B **.020** P85043C **.030** **Set of 6 Pairs**	P31137551/61 **Std.** P31137312/22 **.007** **Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod** 4) Con Rod	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
1) P2418F436 2) P2418F475 3) PZZ90086	1) PU5LT0033 2) PU5LB0056 3) P3681H202	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) P31416303 2) P31434163 3) P31434307 4) P31171353 **(1)** P31171931	1) P31173423 **(2)** 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432 **(4)**
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head **(With Valves)** 2) Glowplug
P4132F015	P2641729	1) P41313027 2) P2485613 ***x2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80024 2) P2666108 **(Bayonet Fitting)**

(1) Use Only with Build No: TW31008.
(2) Do Not Use on Build No: TW70008.
(3) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.
(4) Do not use on Build TW70008.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

6.354.4 (TW)

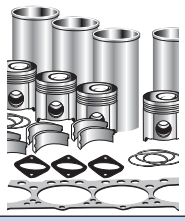
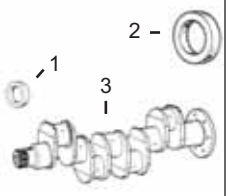
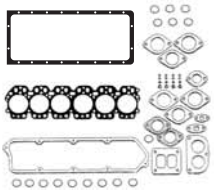
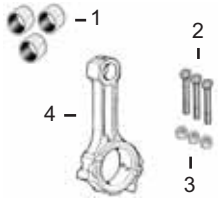
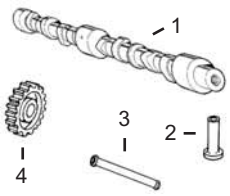
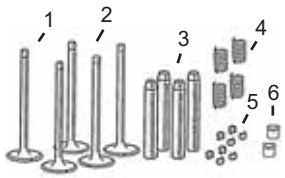
6 Cyl, Lip Seal

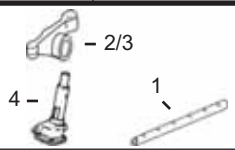
Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MARINE
Pleasure Craft (TW33196/7)

Commercial/Pleasure Craft (TW70087)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PU5MK0127**	PU5MB0030 **Std.**	P85043 **Std.**	P31137551/61 **Std.**
1) POK675	Consists of:	PU5MB0030A **.010**	P85043A **.010**	P31137312/22 **.007**
2) PBK675	a) P86740 b) P41158041 c) P31358394 **(1)**	PU5MB0030B **.020** PU5MB0030C **.030**	P85043B **.020** P85043C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
1) P2418F436 2) P2418F475 3) PZZ90086	1) P68243 2) PU5LB0056 3) P3681H202	1) P31134123 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90009	1) P31416303 2) P31434163 3) P31434307 4) P31171931	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK617	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) N/A b) N/A	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head 2) Glowplug
P4132F015	P2641729	1) N/A 2) P2485604 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371193 P41371195	1) PZZ80071 2) P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

T6.354.4

(TU)

TURBOCHARGED

6 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MF AGRICULTURAL
560 (TU31074/TU31126)
660 (TU31076)
TX750/850 (TU31006)

WHITE FARM
8800 Combine (TU70001)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
1) Engine O/H Kit				
2) Basic Engine Kit	**PU5MK0071**	PU5MB0030 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
1) POK680	Consists of:	PU5MB0030A **.010**	PU5ME0003A **.010**	P31137312/22 **.007**
2) PBK680	a) P68803 b) P41158005 c) P31358394 **(1)**	PU5MB0030B **.020** PU5MB0030C **.030**	PU5ME0003B **.020** PU5ME0003C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
1) P2418F436 2) P2418F475 3) PZZ90105	1) PU5LT0018 2) PU5LB0056 3) P3681H202	1) P31134131 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90013	1) P31416303 2) P31434163 3) P31434307 4) P31171931	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432

	Valve Train Kit			
		1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head **(With Valves)** 2) Glowplug
P4132F016	P2641729	1) PU5MW0132 2) P2485613 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371194	1) PZZ80024 2) P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

Engine & Equipment Application

T6.354.4 (TU)

TURBOCHARGED

6 Cyl, Lip Seal

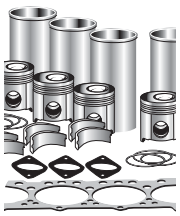
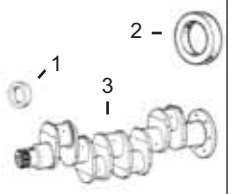
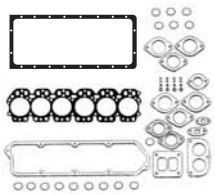
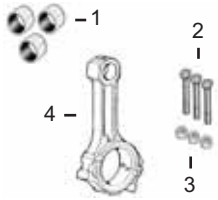
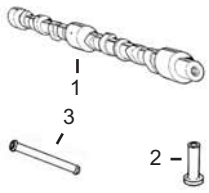
Bore: 3.8770 in
98.476 mm

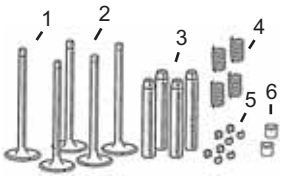
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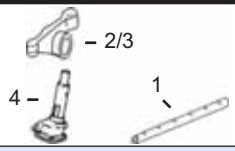
JCB
418 Wheel Loader (TU50037)

MF AGRICULTURAL
2680/2685 (TU31045/6)
3530 (TU31143)
RX95 (TU31010)

WHITE FARM
2-105 (TU70018)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit	**PU5MK0071**	PU5MB0030 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
2) Basic Engine Kit	Consists of:	PU5MB0030A **.010**	PU5ME0003A **.010**	P31137312/22 **.007**
1) POK681	a) P68803	PU5MB0030B **.020**	PU5ME0003B **.020**	
2) PBK681	b) P41158005	PU5MB0030C **.030**	PU5ME0003C **.030**	
	c) P31358394 **(2)**	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
1) P2418F436 2) P2418F475 3) PZZ90105	1) PU5LT0033 2) PU5LB0056 3) P3681H202	1) P31134131 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90013	1) P31416303 2) P31434163 3) P31434307	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432

	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK611	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744131 ***X12*** b) P31745121 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	1) Cylinder Head **(With Valves)** 2) Glowplug
P4132F016	P2641729	1) P41313027 **(1)** 2) P2485613 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371194	1) PZZ80024 2) P2666108 **(Bayonet Fitting)**

(1) Use Only on Build No: TU31143/TU70018.
(2) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

T6.354.4
(TU)

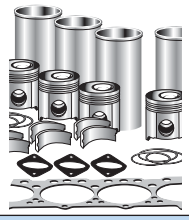
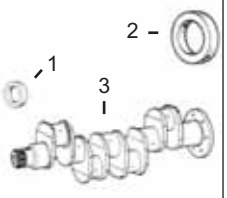
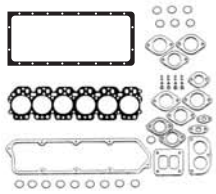
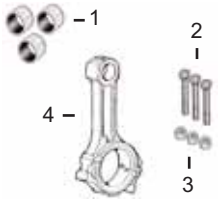
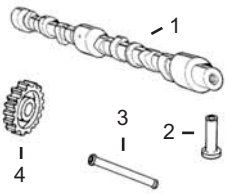
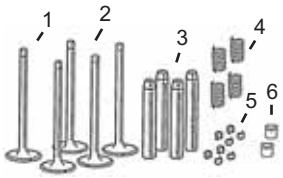
TURBOCHARGED

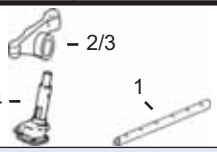
6 Cyl, Lip Seal

Bore: 3.8770 in
98.476 mm

APPLICATIONS:

MARINE
Pleasure Craft (TU33203)
Pleasure Craft (TU70025)
Pleasure Craft (TU70027)

					
	1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
	2) Basic Engine Kit	**PU5MK0071**	PU5MB0030 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
	1) POK682	Consists of:	PU5MB0030A **.010**	PU5ME0003A **.010**	P31137312/22 **.007**
	2) PBK682	a) P68803 b) P41158005 c) P31358394 **(1)**	PU5MB0030B **.020** PU5MB0030C **.030**	PU5ME0003B **.020** PU5ME0003C **.030**	
		6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**
					
	1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	1) Camshaft 2) Tappet 3) Push Rod 4) Camshaft Gear	1) Aux. Drive Shaft 2) Gear & Shaft 3) Gear 4) Front Bush 5) Rear Bush 6) Seal
	3) Crankshaft Kit	3) Head Gasket	4) Con Rod		
	1) P2418F436 2) P2418F475 3) PZZ90105	1) P68243 2) PU5LB0056 3) P3681H202	1) P31134131 ***X6*** 2) P32762144 ***X12*** 3) P33221328 ***X12*** 4) PZZ90013	1) P31416303 2) P31434163 3) P31434307 4) P31171931	1) P31173423 2) P41115367 3) P31171733 4) P31134129 5) P2511447 6) P2418F432
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK617	1) P31431315 ***X6*** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) N/A b) N/A	5) P33173108 ***X24*** 6) P33817117 ***X12***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Relief Valve	Glowplug
P4132F016	P2641729	1) N/A 2) P2485604 ***X2***	1) PZZ90046 2) P41151483 3) P41151484 4) P41371194	P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner, **P31358393**, and Finished Liner in .010" Oversize, **P31358398**, are also available.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

104-22
(KR, KRC, KRG)

NATURALLY ASPIRATED

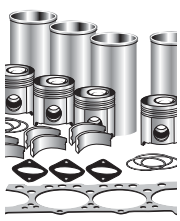
4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.9 in
100.00 mm

Displacement: 135 in^3
2.216 Liter

Compression Ratio: 22:1

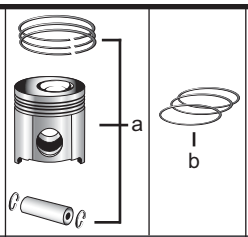


1) Engine O/H Kit

2) Basic Engine Kit

1) POK404 Std.
POK405 0.50

2) PBK404 Std.
PBK405 0.50

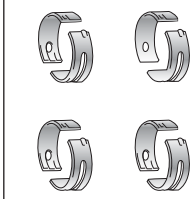


a) Piston Kit
b) Ring Set

a) P115017491 Std.
P115017491B 0.50

b) P115107970 Std.
P115107970B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

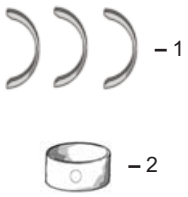
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs

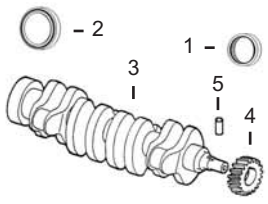


1) Thrust Washer
2) Crank Bushing

1) P199266200/10

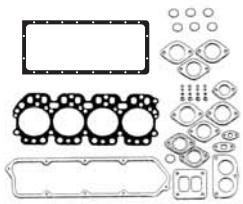
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



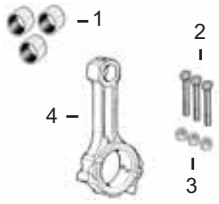
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) P198636160
2) P050209083
3) P115256990 (2)
4) PU15276270
5) P030509020



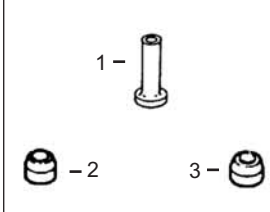
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) PU5LC0017 (1)
2) P111147741
3) P120996130
4) P111996401
5) P110996920



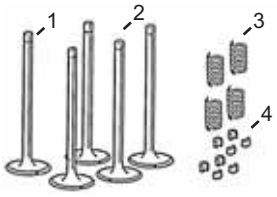
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026330



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK440

1) Valve, Intake
2) Valve, Exhaust

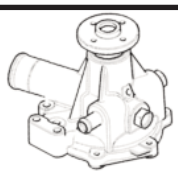
1) P120166350 *X4*
2) P120176360 *X4*

3) Spring, Valve

3) P198216700 *X8*

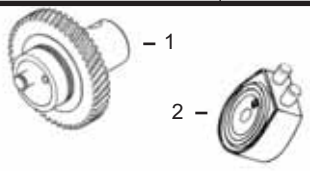
4) Lock, Valve

4) P120226070 *X16*



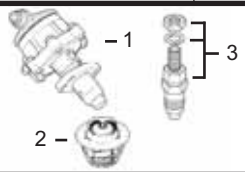
Water Pump

P145017951



1) Oil Pump
2) Oil Cooler

1) PU5MK8266
2) P2486A218 (2)



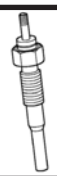
1) Lift Pump
2) Thermostat
3) Injector

1) P130506351
2) P145206182
3) P131406490



Repair Sleeve

84RS



Glowplug

P185366190

(1) Does not include Crankshaft Oil Seals.
(2) "KR" build ONLY.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

403C-15
(HL, HLC, HLG)

NATURALLY ASPIRATED

SHIBAURA®
N843

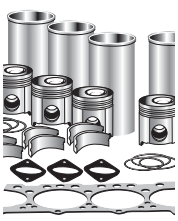
3 Cyl

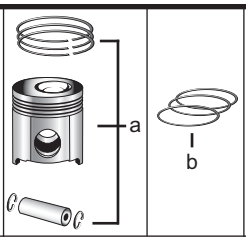
Bore: 3.3 in
84.00 mm

Stroke: 3.5 in
90.00 mm

Displacement: 91 in^3
1.496 Liter

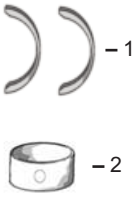
Compression Ratio: 22.5:1



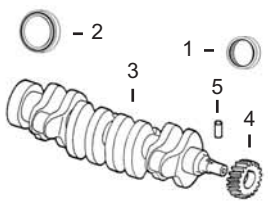


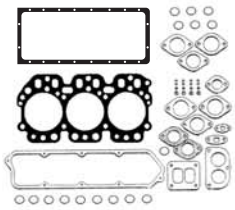


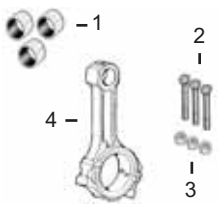


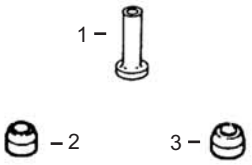


1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
2) Basic Engine Kit 1) POK316 Std. POK317 0.50 2) PBK316 Std. PBK317 0.50	a) P115017541 Std. P115017541B 0.50 b) P115107970 Std. P115107970B 0.50 3 Per Engine	P198586050 Std. P198586054 .010 P198586057 .020 Set of 3 Pairs	P198586080 Std. P198586084 .010 P198586087 .020 Set of 3 Pairs	1) P199266200 *x2* 2) P198517222 Std. P198517226 .010 P198517229 .020

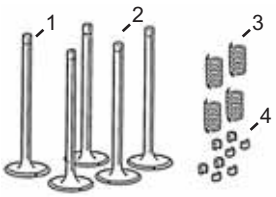




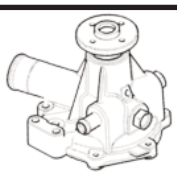


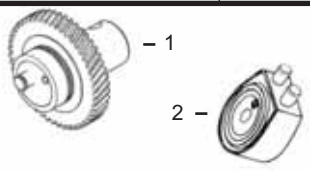


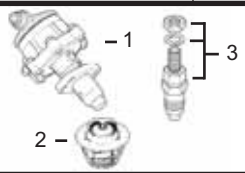
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Crankshaft Gear 5) Key, Crankshaft Gear	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
1) P198636160 2) P198636170 3) P115256950 4) PU15276270 5) P030509020	1) PU5LC0018 2) P111147501 3) P120996140 4) P111996410 5) P110996910	1) P198517265 *x3* 2) P115176140 *x6* 3) P020109120 *x6* 4) P115026251	1) P120116160 2) P120406070 *x3* 3) P120406050 *x3*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK308	1) P120166350 *x3* 2) P120176360 *x3*	3) P198217470 *x6*	4) P120226070 *x12*











Water Pump	1) Oil Pump 2) Oil Cooler	1) Lift Pump 2) Thermostat 3) Injector	Repair Sleeve	Glowplug
P145017951	1) PU5MK8266 2) P2486A218	1) P130506351 2) P145206182 3) P131406490 (1)	84RS	P185366190

(1) Use with **HL** and **HLC** Builds.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

403C-17 (HM)

403D-17 (GS)

NATURALLY ASPIRATED

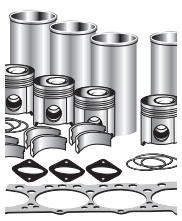
3 Cyl

Bore: 3.3 in
84.00 mm

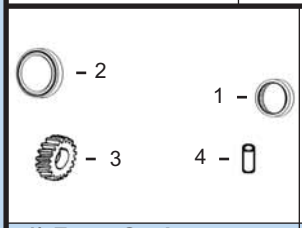
Stroke: 3.5 in
100.00 mm

Displacement: 101.4 in³
1.662 Liter

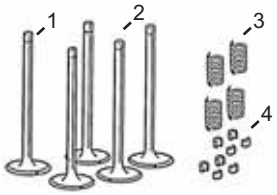
Compression Ratio: 22.5:1



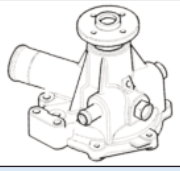
1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
2) Basic Engine Kit	**a) P115017491 Std.** **P115017491B 0.50**	P198586050 **Std.**	P198586080 **Std.**	1) P199266200 ***x2***
1) POK318 Std. **POK319 0.50**	**b) P115107970 Std.** **P115107970B 0.50**	P198586054 **.010** P198586057 **.020**	P198586084 **.010** P198586087 **.020**	2) P198517222 **Std.** P198517226 **.010** P198517229 **.020**
2) PBK318 Std. **PBK319 0.50**	**3 Per Engine**	**Set of 3 Pairs**	**Set of 3 Pairs**	



1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
3) Crankshaft Gear 4) Key, Crankshaft Gear	2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	4) Con Rod	
1) P198636160 2) P050209083 3) PU15276270 4) P030509020	1) PU5LC0018 2) P111147501 3) P120996140 4) P111996410 5) P110996910	1) P198517265 ***X3*** 2) P115176140 ***X6*** 3) P020109120 ***X6*** 4) P115026330	1) P120116160 2) P120406070 ***X3*** 3) P120406050 ***X3***

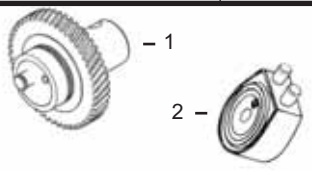


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK309	1) P120166350 ***X3*** 2) P120176360 ***X3***	3) P198216700 ***X6***	4) P120226070 ***X12***



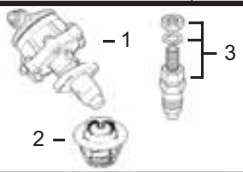
Water Pump

P145017951
PU45010062 **(1)**



1) Oil Pump
2) Oil Cooler

1) PU5MK8266
PU5MK8267 **(1)**
2) P2486A218



1) Lift Pump
2) Thermostat
3) Injector

1) P130506351
2) P145206182
P145206230 **(1)**
3) P131406490 **(1)**



Repair Sleeve

84RS



Glowplug

P185366190 **(1)**

(1) Use with **GS** Build, 403D-17 Engine.

Engine & Equipment Application

403A-15 (GU)

403D-15 (GK)

NATURALLY ASPIRATED

3 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.54 in
90.00 mm

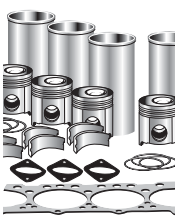
Displacement: 91.5 in^3
1.5 Liter

Compression Ratio: 22.5:1

APPLICATIONS:

AKSA
APD-EPAP13
APD-EPAP13S
ADP-ULP13

TEREX
PT-30 Posi-Track

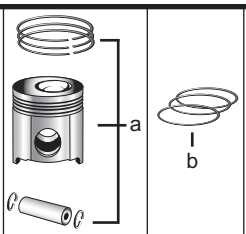


1) Engine O/H Kit

2) Basic Engine Kit

1) POK349 Std.
POK350 0.50

2) PBK349 Std.
PBK350 0.50



a) Piston Kit
b) Ring Set

a) P115017541 Std.
P115017541B 0.50

b) P115107970 Std.
P115107970B 0.50

3 Per Engine



Main Bearing Set

P198586050 Std.
P198586054 .010
P198586057 .020

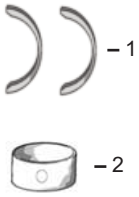
Set of 3 Pairs



Con Rod Bearing Set

P198586080 Std.
P198586084 .010
P198586087 .020

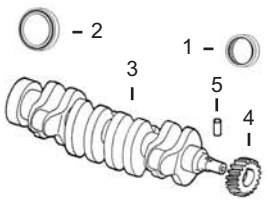
Set of 3 Pairs



1) Thrust Washer
2) Crank Bushing

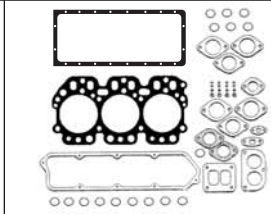
1) P199266200 *x2*

2) P198517222 Std.
P198517226 .010
P198517229 .020



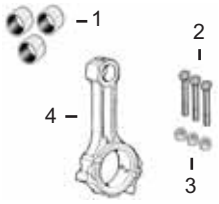
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) P198636160
2) P198636170
3) P115256950
4) PU15276270
5) P030509020



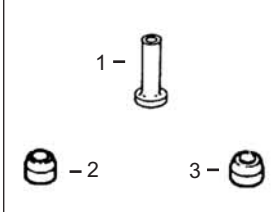
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) PU5LC0018
2) P111147501
3) P120996140
4) P111996410
5) P110996910



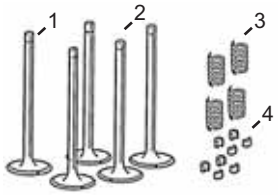
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P198517265 *x3*
2) P115176140 *x6*
3) P020109120 *x6*
4) P115026251

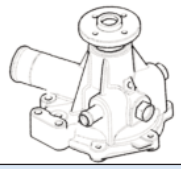


1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *x3*
3) P120406050 *x3*

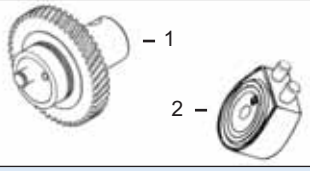


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK309	1) P120166350 *x3* 2) P120176360 *x3*	3) P198216700 *x6*	4) P120226070 *x12*



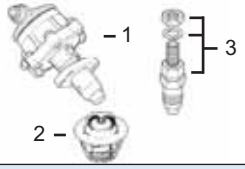
Water Pump

PU45010062



1) Oil Pump
2) Oil Cooler

1) PU5MK8267
2) P2486A218



1) Lift Pump
2) Thermostat
3) Injector

1) P130506351
2) P145206230
3) P131406490 **(1)**



Repair Sleeve

84RS



Glowplug

P185366190

(1) Use with **GK** Build, 403D-15 Engine.

Engine & Equipment Application

403D-15T
(GL)

TURBOCHARGED

3 Cyl

Bore: 3.3 in
84.00 mm

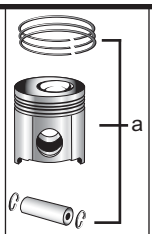
Stroke: 3.54 in
90.00 mm

Displacement: 91.5 in^3
1.5 Liter

Compression Ratio: 22.5:1

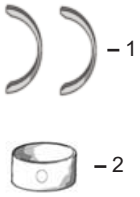
TAKEUCHI
TW40 Comp Wheel Loader



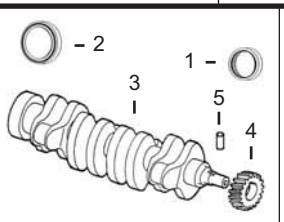


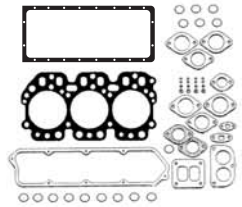


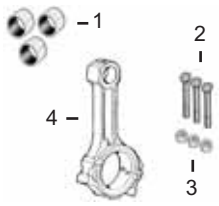


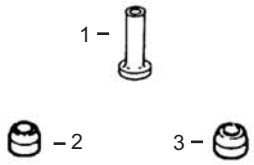


1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
2) Basic Engine Kit	**a) P115017551 Std.** **P115017551B 0.50**	P198586050 **Std.**	P198586080 **Std.**	1) P199266200 ***x2***
1) POK351 Std. **POK352 0.50**		P198586054 **.010** P198586057 **.020**	P198586084 **.010** P198586087 **.020**	
2) PBK351 Std. **PBK352 0.50**	**b) P115107970 Std.** **P115107970B 0.50**			2) P198517222 **Std.** P198517226 **.010** P198517229 **.020**
	3 Per Engine	**Set of 3 Pairs**	**Set of 3 Pairs**	

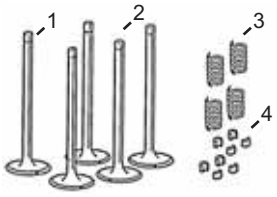




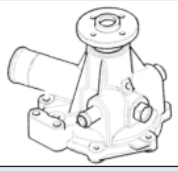


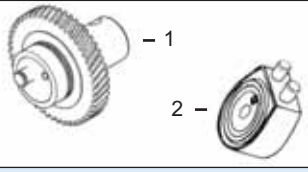


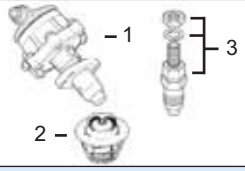
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
3) Crankshaft 4) Crankshaft Gear 5) Key, Crankshaft Gear	2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	4) Con Rod	
1) P198636160 2) P198636170 3) P115256950 4) PU15276270 5) P030509020	1) PU5LC0018 2) P111147501 3) P120996140 4) P111996410 5) P110996910	1) P198517265 ***x3*** 2) P115176140 ***x6*** 3) P020109120 ***x6*** 4) P115026251	1) P120116160 2) P120406070 ***x3*** 3) P120406050 ***x3***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK309	1) P120166350 ***x3*** 2) P120176360 ***x3***	3) P198216700 ***x6***	4) P120226070 ***x12***











Water Pump	1) Oil Pump 2) Oil Cooler	1) Lift Pump 2) Thermostat 3) Injector	Repair Sleeve	Glowplug
PU45010062	1) PU5MK8267 2) P2486A218	1) P130506351 2) P145206230 3) P131406490	84RS	P185366190

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

404C-22
(HP, HPC, HPG)

NATURALLY ASPIRATED

SHIBAURA®
N844L

4 Cyl

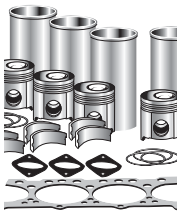
Bore: 3.3 in
84.00 mm

Stroke: 3.9 in
100.00 mm

Displacement: 135 in³
2.216 Liter

Compression Ratio: 23.3:1

TAKEUCHI
TW50 Comp Wheel Loader

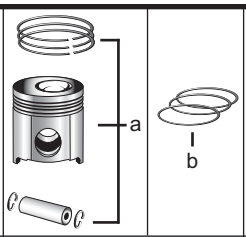


1) Engine O/H Kit

2) Basic Engine Kit

1) **POK404** Std.
POK405 0.50

2) **PBK404** Std.
PBK405 0.50



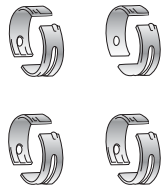
a) Piston Kit

b) Ring Set

a) **P115017491** Std.
P115017491B 0.50

b) **P115107970** Std.
P115107970B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

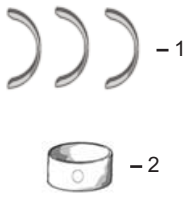
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs

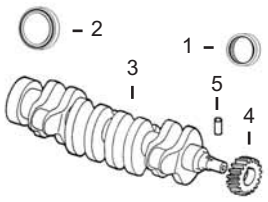


1) Thrust Washer
2) Crank Bushing

1) P199266200/10

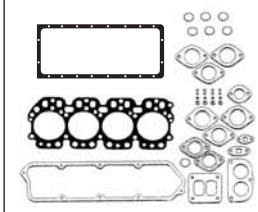
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



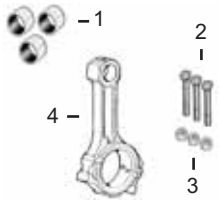
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) P198636160
2) P050209083
3) P115256990 (3)
4) PU15276270
5) P030509020



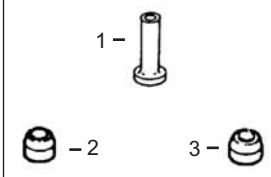
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) PU5LC0017 (1)
2) P111147741
3) P120996130
4) P111996401
5) P110996920



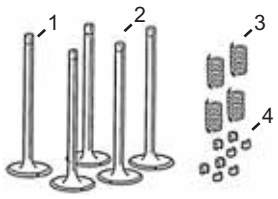
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026330



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK440

1) Valve, Intake
2) Valve, Exhaust

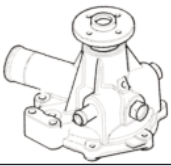
1) P120166350 *X4*
2) P120176360 *X4*

3) Spring, Valve

3) P198216700 *X8*

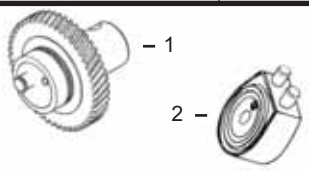
4) Lock, Valve

4) P120226070 *X16*



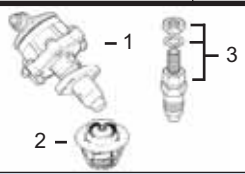
Water Pump

P145017951



1) Oil Pump
2) Oil Cooler

1) PU5MK8266
2) P2486A218



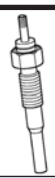
1) Lift Pump
2) Thermostat
3) Injector

1) P130506351 (2)
2) P145206182
3) P131406490 (4)



Repair Sleeve

84RS



Glowplug

P185366190

(1) Does not include Crankshaft Oil Seals.
(2) Use with **HP** Build.
(3) Do not use in applications that requiere a Crankshaft Driven Balancer Unit.
(4) Use with **HP** and **HPC** Builds.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

404C-22T
(HR, HRC)

TURBOCHARGED

SHIBAURA®
N844LT

4 Cyl

Bore: 3.3 in
84.00 mm

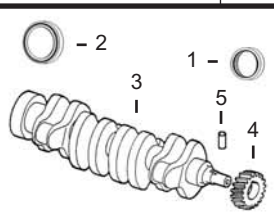
Stroke: 3.9 in
100.00 mm

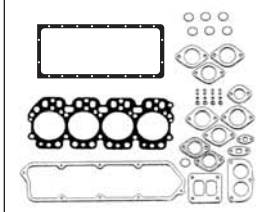
Displacement: 135 in^3
2.216 Liter

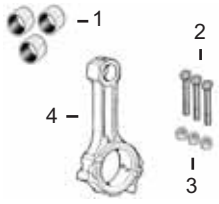
Compression Ratio: 23.3:1

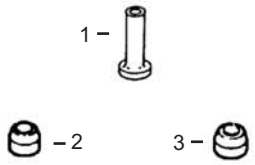


1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
2) Basic Engine Kit 1) POK406 Std. POK407 0.50 2) PBK406 Std. PBK407 0.50	a) P115017581 Std. P115017581B 0.50 b) P115104021 Std. P115104021B 0.50 **4 Per Engine**	P198586140 Std. P198586150 .010 P198586160 .020 **Set of 4 Pairs**	PU5ME0011 Std. PU5ME0011A .010 PU5ME0011B .020 **Set of 4 Pairs**	1) P199266200/10 **Set of 3 Pcs** 2) P198517222 Std. P198517226 .010 P198517229 .020

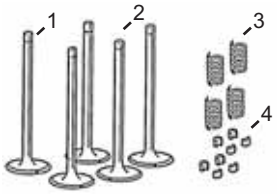




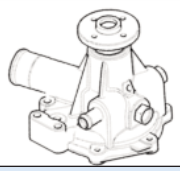


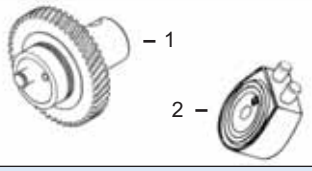


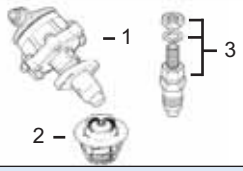
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
3) Crankshaft 4) Crankshaft Gear 5) Key, Crankshaft Gear	2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	4) Con Rod	
1) P198636160 2) P050209083 3) P115256990 (3) 4) PU15276270 5) P030509020	1) P404TOG (1) 2) P111147741 3) P120996130 4) P111996401 5) P110996920	1) P198517265 *X4* 2) P115176140 *X8* 3) P020109120 *X8* 4) P115026330	1) P120116160 2) P120406070 *X4* 3) P120406050 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK440	1) P120166350 *X4* 2) P120176360 *X4*	3) P198216700 *X8*	4) P120226070 *X16*











Water Pump	1) Oil Pump 2) Oil Cooler	1) Lift Pump 2) Thermostat 3) Injector	Repair Sleeve	Glowplug
P145017951	1) PU5MK8266 2) P2486A218	1) P130506351 (2) 2) P145206182 3) P131406490	84RS	P185366190

(1) Does not include Crankshaft Oil Seals.
(2) Use with **HR** Build.
(3) Do not use in applications that requiere a Crankshaft Driven Balancer Unit.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

404A-22 (GV)

404D-22 (GN)

NATURALLY ASPIRATED

4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.9 in
100.00 mm

Displacement: 134.25 in^3
2.2 Liter

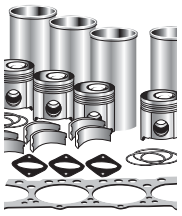
Compression Ratio: 23.3:1

APPLICATIONS:

AKSA
APD-EPAP20
APD-EPAP20S
ADP-ULP20

TAKEUCHI
TS50R Skid Steer
TS50V Skid Steer

TEREX
TSR-50 Skid Steer
TSV-50 Skid Steer
PT-50 Posi-Track

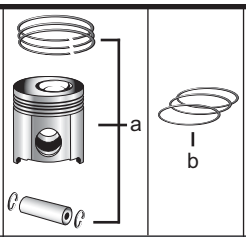


1) Engine O/H Kit

2) Basic Engine Kit

1) **POK464** Std.
POK465 0.50

2) **PBK464** Std.
PBK465 0.50

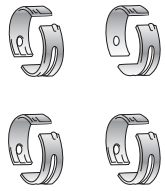


a) Piston Kit
b) Ring Set

a) **P115017491** Std.
P115017491B 0.50

b) **P115107970** Std.
P115107970B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

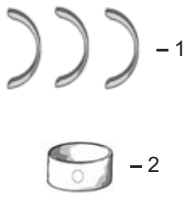
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs

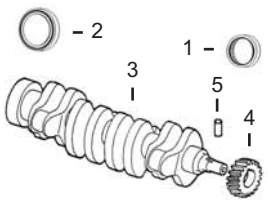


1) Thrust Washer
2) Crank Bushing

1) P199266200/10

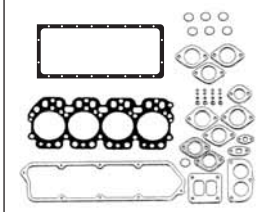
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



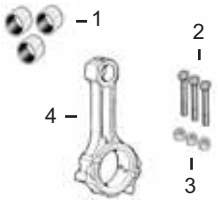
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) P198636160
2) P050209083
3) P115256990 (2)
4) PU15276270
5) P030509020



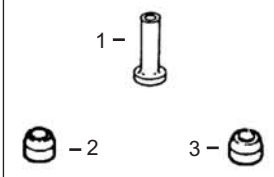
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) P404DTOG (1)
2) P111147771
3) P120996130
4) P111996401
5) P110996920



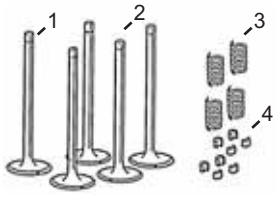
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026330



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK440

1) Valve, Intake
2) Valve, Exhaust

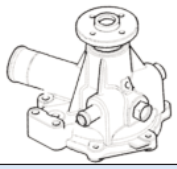
1) P120166350 *X4*
2) P120176360 *X4*

3) Spring, Valve

3) P198216700 *X8*

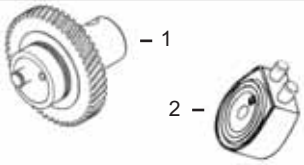
4) Lock, Valve

4) P120226070 *X16*



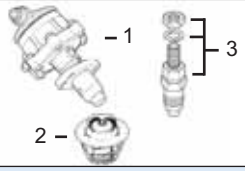
Water Pump

PU45010062



1) Oil Pump
2) Oil Cooler

1) PU5MK8267
2) P2486A218



1) Lift Pump
2) Thermostat
3) Injector

1) P130506351
2) P145206230
3) P131406490 (3)



Repair Sleeve

84RS



Glowplug

P185366190 (2)

(1) Does not include Crankshaft Oil Seals.
(2) Do not use in applications that requiere a Crankshaft Driven Balancer Unit.
(3) Use with **GN** Build, 404D-22 Engine.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

404D-22T
(GP)

TURBOCHARGED

4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.9 in
100.00 mm

Displacement: 134.25 in³
2.2 Liter

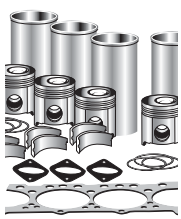
Compression Ratio: 23.3:1

APPLICATIONS:

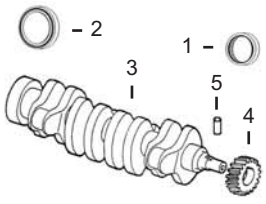
AKSA
APD-EPAP28
APD-EPAP28S
ADP-ULP28

TAKEUCHI
TS60R Skid Steer
TS60V Skid Steer

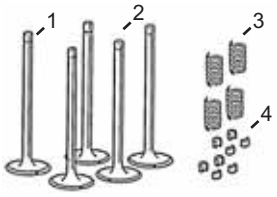
TEREX
TSR-60 Skid Steer
TSV-60 Skid Steer
PT-60 Posi-Track



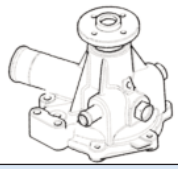
1) Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	1) Thrust Washer 2) Crank Bushing
2) Basic Engine Kit	a) **P115017581** Std. **P115017581B** 0.50	P198586140 Std.	PU5ME0011 Std.	1) P199266200/10
1) **POK466** Std. **POK467** 0.50		P198586150 .010 P198586160 .020	PU5ME0011A .010 PU5ME0011B .020	**Set of 3 Pcs**
2) **PBK466** Std. **PBK467** 0.50	b) **P115104021** Std. **P115104021B** 0.50			2) P198517222 Std. P198517226 .010 P198517229 .020
	4 Per Engine	**Set of 4 Pairs**	**Set of 4 Pairs**	



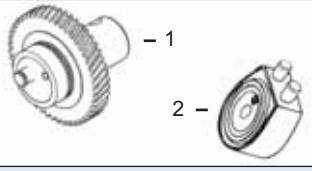
1) Front Seal 2) Rear Seal 3) Crankshaft 4) Crankshaft Gear 5) Key, Crankshaft Gear	1) O/H Gasket Set 2) Cylinder Head Gasket 3) Seal Rocker Box 4) Seal, Cyl Head Cover 5) Oil Pan Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Nut, Con Rod 4) Con Rod	1) Tappet 2) Seal, Intake Valve 3) Seal, Exhaust Valve
1) P198636160 2) P050209083 3) P115256990 (2) 4) PU15276270 5) P030509020	1) P404DTOG (1) 2) P111147771 3) P120996130 4) P111996401 5) P110996920	1) P198517265 *X4* 2) P115176140 *X8* 3) P020109120 *X8* 4) P115026330	1) P120116160 2) P120406070 *X4* 3) P120406050 *X4*



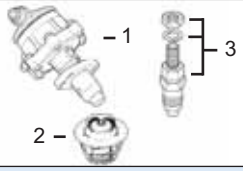
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
PVTK440	1) P120166350 *X4* 2) P120176360 *X4*	3) P198216700 *X8*	4) P120226070 *X16*



Water Pump



1) Oil Pump
2) Oil Cooler



1) Lift Pump
2) Thermostat
3) Injector



Repair Sleeve



Glowplug

PU45010062	1) PU5MK8267 2) P2486A218	1) P130506351 2) P145206230 3) P131406490	84RS	P185366190 (2)

(1) Does not include Crankshaft Oil Seals.
(2) Do not use in applications that requiere a Crankshaft Driven Balancer Unit.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

404D-22TA (GR)

TURBOCHARGED AFTERCOOLED

4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.9 in
100.00 mm

Displacement: 134.25 in^3
2.2 Liter

Compression Ratio: 23.3:1

APPLICATIONS:

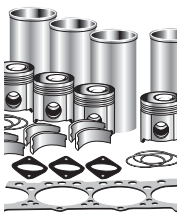
AKSA
APD-EPAP28
APD-EPAP28S
ADP-ULP28

CASE-IH

DX55	SR150
DX60	SR175
FARMALL 60	SR185

NEW HOLLAND

C175	L218
L175	L220
L215	T2420

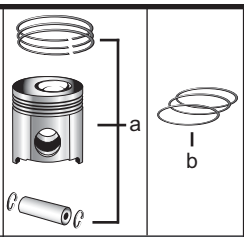


1) Engine O/H Kit

2) Basic Engine Kit

1) **POK468** Std.
POK469 0.50

2) **PBK468** Std.
PBK469 0.50

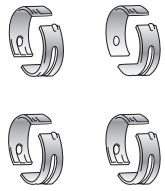


a) Piston Kit
b) Ring Set

a) **P115017581** Std.
P115017581B 0.50

b) **P115104021** Std.
P115104021B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

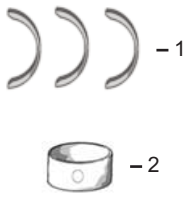
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs

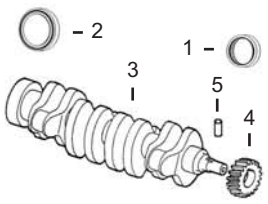


1) Thrust Washer
2) Crank Bushing

1) P199266200/10

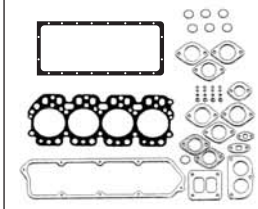
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



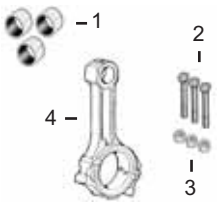
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) P198636160
2) P050209083
3) P115256990 (2)
4) PU15276270
5) P030509020



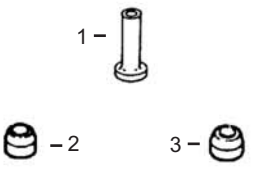
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) P404DTOG (1)
2) P111147771
3) P120996130
4) P111996401
5) P110996920



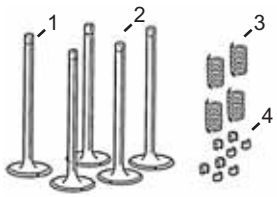
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026330



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK441

1) Valve, Intake
2) Valve, Exhaust

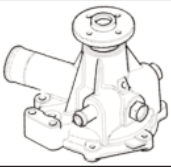
1) P120166350 *X4*
2) P120176410 *X4*

3) Spring, Valve

3) P198216700 *X8*

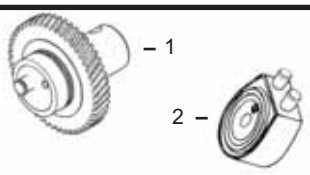
4) Lock, Valve

4) P120226070 *X16*



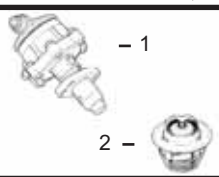
Water Pump

PU45010062



1) Oil Pump
2) Oil Cooler

1) PU5MK8267
2) P2486A218



1) Lift Pump
2) Thermostat

1) P130506351
2) P145206230



Repair Sleeve

84RS



Glowplug

P185366190

(1) Does not include Crankshaft Oil Seals.
(2) Do not use in applications that requiere a Crankshaft Driven Balancer Unit.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

N844

SHIBAURA

TIER 1 & 2

NATURALLY ASPIRATED

4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.54 in
90.00 mm

Displacement: 121.7 in^3
2.0 Liter

Compression Ratio: 22.5:1

APPLICATIONS:

CASE IH

D40	Skid Steer
DX40	Skid Steer
FARMALL 40	Skid Steer

NEW HOLLAND

1920	Tractor
BOOMER 3040	Tractor
L160	Skid Steer
LS160	Skid Steer
L565	Skid Steer
LX565	Skid Steer
T2310	Tractor
TC40A	Tractor
TC40D	Tractor
TC40DA	Tractor

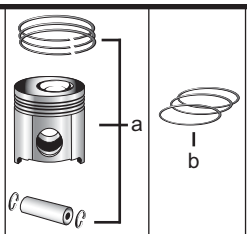


1) Engine O/H Kit

2) Basic Engine Kit

1) POK844 Std.
POK845 0.50

2) PBK844 Std.
PBK845 0.50

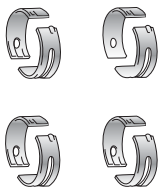


a) Piston Kit
b) Ring Set

a) P115017541 Std.
P115017541B 0.50

b) P115107970 Std.
P115107970B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

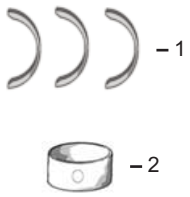
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs



1) Thrust Washer
2) Crank Bushing

1) P199266200/10

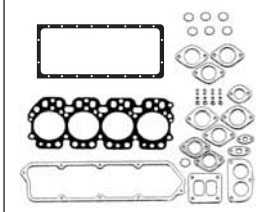
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



1) Front Seal
2) Rear Seal

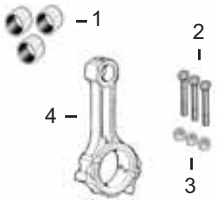
1) P198636160
2) P198636170



1) O/H Gasket Set

2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

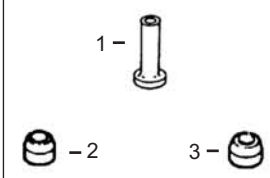
1) P195907110 (1)
2) P111147520
3) P120996130
4) P111996401
5) P110996920



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

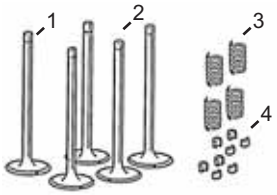
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026251



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK440 (2)

1) Valve, Intake
2) Valve, Exhaust

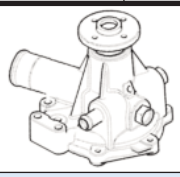
1) P120166350 *X4* (2)
2) P120176360 *X4* (2)

3) Spring, Valve

3) P198216700 *X8*

4) Lock, Valve

4) P120226070 *X16*



Water Pump

P145017951



Oil Pump

PU5MK8266 (2)
PU5MK8267 (2)



Thermostat

P145206182



Repair Sleeve

84RS

(1) Does not include Crankshaft Oil Seals.
(2) Check application for proper usage.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

N844T

SHIBAURA

TIER 1 & 2

TURBOCHARGED

4 Cyl

Bore: 3.3 in
84.00 mm

Stroke: 3.54 in
90.00 mm

Displacement: 121.7 in^3
2.0 Liter

Compression Ratio: 22.5:1

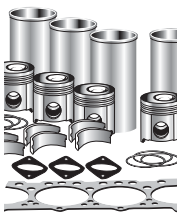
APPLICATIONS:

CASE IH

SR150 Skid Steer

NEW HOLLAND

L170 Skid Steer
LS170 Skid Steer
LX665 Skid Steer

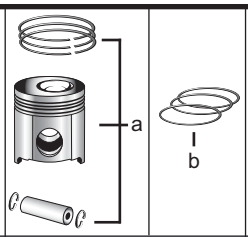


1) Engine O/H Kit

2) Basic Engine Kit

1) **POK848** Std.
POK849 0.50

2) **PBK848** Std.
PBK849 0.50



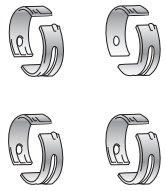
a) Piston Kit

b) Ring Set

a) **P115017581** Std.
P115017581B 0.50

b) **P115104021** Std.
P115104021B 0.50

4 Per Engine



Main Bearing Set

P198586140 Std.
P198586150 .010
P198586160 .020

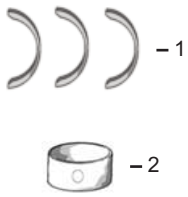
Set of 4 Pairs



Con Rod Bearing Set

PU5ME0011 Std.
PU5ME0011A .010
PU5ME0011B .020

Set of 4 Pairs



1) Thrust Washer

2) Crank Bushing

1) P199266200/10

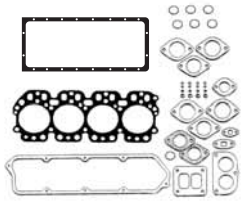
Set of 3 Pcs

2) P198517222 Std.
P198517226 .010
P198517229 .020



1) Front Seal
2) Rear Seal

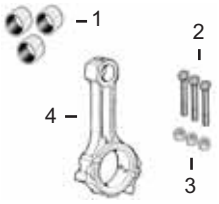
1) P198636160
2) P198636170



1) O/H Gasket Set

2) Cylinder Head Gasket
3) Seal Rocker Box
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

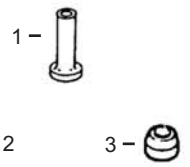
1) P195907110 (1)
2) P111147520
3) P120996130
4) P111996401
5) P110996920



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

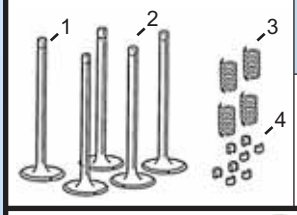
4) Con Rod

1) P198517265 *X4*
2) P115176140 *X8*
3) P020109120 *X8*
4) P115026251



1) Tappet
2) Seal, Intake Valve
3) Seal, Exhaust Valve

1) P120116160
2) P120406070 *X4*
3) P120406050 *X4*



Valve Train Kit

PVTK440 (2)

1) Valve, Intake
2) Valve, Exhaust

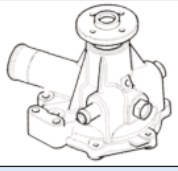
1) P120166350 *X4* (2)
2) P120176360 *X4* (2)

3) Spring, Valve

3) P198216700 *X8*

4) Lock, Valve

4) P120226070 *X16*



Water Pump

P145017951



Oil Pump

PU5MK8266 (2)
PU5MK8267 (2)



Thermostat

P145206182



Repair Sleeve

84RS

(1) Does not include Crankshaft Oil Seals.
(2) Check application for proper usage.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1004.40

(AA)

NATURALLY ASPIRATED

4 Cyl, Lip Seal

Kits include both rear seals

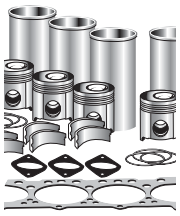
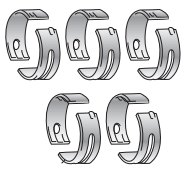
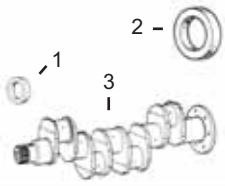
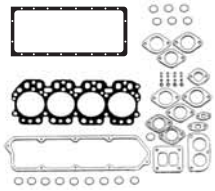
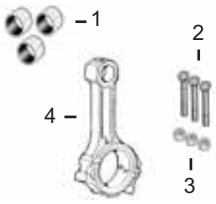
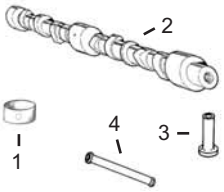
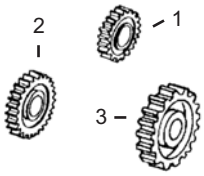
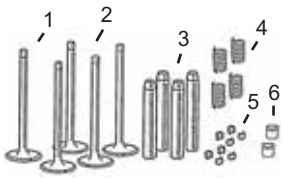
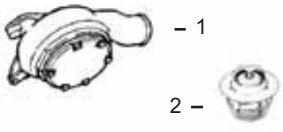
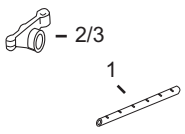
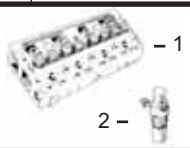
Bore: 3.937 in
100 mm

APPLICATIONS:

CLARK EQUIPMENT
CY500Y 110-155 (Balanced) (AA70370)

HYSTER
H70-155XL (AA70218)
S80-S155XL (AA70216)

JCB
3CX Backhoe (AA50508)
Backhoe Loader (AA50608)

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK142**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK470	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK470	a) PMXF0015 b) P4181A019 c) P3135X042 **(1)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 **(3)** P2418F701 **(4)** 3) PZZ90202	1) PU5LT0178 2) PU5LB0151 3) P3681A021 4) P3681E025 5) PU5MK0600	1) P31134123 ***X4*** 2) P32762144 ***X8*** 3) P33221328 ***X8*** 4) PZZ90009	1) P31134132 ***X1*** 2) P31415361 3) P31434163 4) P31434307	1) N/A 2) P31171353 3) N/A
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve **(2)** a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK415	1) P3142L051 ***X4*** 2) P3142A051 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744133 ***X8*** b) P31745122 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
				
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug
1) P4132F051 2) P2486A218 **(6)** P2486A222 **(5)** P2486A241 **(6)**	P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80221 **(6)** 2) P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner available, **P3135X041**.
(2) Use Single Spring, Valve **P3174P405** for low speed applications (Not included in Kit).
(3) To ESN U176356H.
(4) From ESN U176357H.
(5) Applies to AA50608 ONLY.
(6) Check build list for proper applicaction.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1004.40

(AA)

NATURALLY ASPIRATED

4 Cyl, Lip Seal

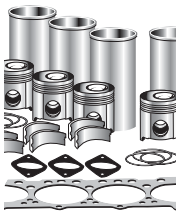
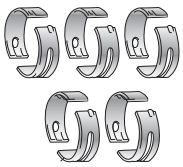
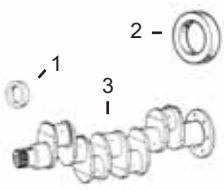
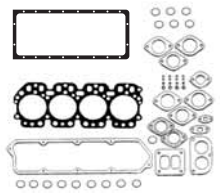
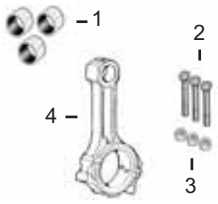
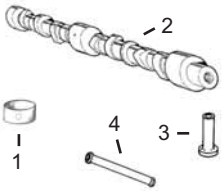
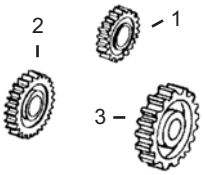
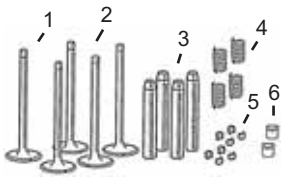
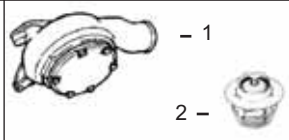
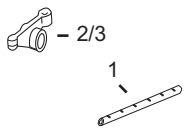
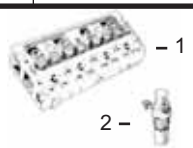
Kits include both rear seals

Bore: 3.937 in
100 mm

APPLICATIONS:

GENSETS
FG WILSON (AA50721)
GENSET (AA37530)

PERKINS SABRE
44GM ELECTROPAK
(AA30415)
(AA30416)

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit				
2) Basic Engine Kit	**PCK1562**	P81558 **Std.**	P85042 **Std.**	P31137551/61 **Std.**
1) POK478	Consists of:	P81558A **.010**	P85042A **.010**	P31137312/22 **.007**
2) PBK478	a) PMXF0015 b) P4181A019 c) P3135X062 **(1)**	P81558B **.020** P81558C **.030**	P85042B **.020** P85042C **.030**	
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket** **3) Valve Cover Gsk**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	4) Head Gasket 5) Oil Pan Set	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod	
1) P2418F436 2) P2418F475 **(2)** P2418F701 **(3)** 3) PZZ90202	1) PU5LT0178 2) PU5LB0151 3) P3681A021 4) P3681E025 5) PU5MK0600	1) P31134123 ***x4*** 2) P32762144 ***x8*** 3) P33221328 ***x8*** 4) PZZ90009	1) P31134132 ***x1*** 2) P31415361 3) P31434163 4) P31434307	1) N/A 2) P31171353 3) N/A
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve **(2)** a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	PVTK415	1) P3142L051 ***X4*** 2) P3142A051 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744133 ***X8*** b) P31745122 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***
				
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH	1) Cylinder Head 2) Glowplug
1) P4132F051 2) P2486A218 **(4)** P2486A222 **(4)** P2486A241 **(4)**	P2641A067	1) P4131E012 2) P2485613	1) PZZ90032 2) P41151483 3) P41151484	1) PZZ80221 **(4)** 2) P2666108 **(Bayonet Fitting)**

(1) Flanged, Semi Finished Liner available, **P3135X063**.
(2) To ESN U176356H.
(3) From ESN U176357H.
(4) Check build list for proper applicaction.

Engine & Equipment Application

1004.40T
(AB, AH)

TURBOCHARGED

4 Cyl, Lip Seal

Bore: 3.937 in
100 mm

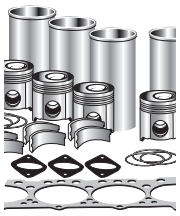
To ESN U608300W (1992)

APPLICATIONS:

BOBCAT
963 Skid Steer

JCB
3CX Backhoe (AB50609)
3CX Backhoe (AB50279)
415 Loader (AB50253)

TOVEL
TL20-22-25 Tovelazer
TL6-44-36 Tovelazer



1) Engine O/H Kit

2) Basic Engine Kit

1) POK471

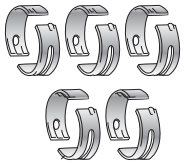
2) PBK471



Piston-Liner Kit

PCK245
Consists of:
a) PMXF0013
b) P4181A021
c) P3135X042 (1)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

PU5ME0006 **Std.**

PU5ME0006A **.010**
PU5ME0006B **.020**
PU5ME0006C **.030**

Set of 4 Pairs

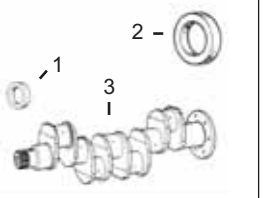


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

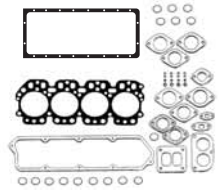
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

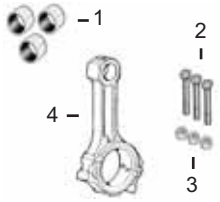
1) P2418F436
2) P2418F475
3) PZZ90212



1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk

4) Head Gasket
5) Oil Pan Set

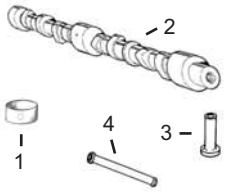
1) PU5LT0178
2) PU5LB0152
3) P3681A021
4) P3681E025
5) PU5MK0600



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

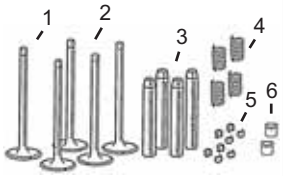
4) Con Rod

1) P31134131 ***X4***
P3112A006 ***X4*** **(6)**
2) P32762144 ***X8***
3) P33221328 ***X8***
4) PZZ90013 **(3)**
PZZ90058 **(3) (4)**



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***X1***
2) P31415361
3) P31434163
4) P31434307



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve **(2)** a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK416	1) P3142L071 ***X4*** 2) P3142A051 ***X4***	a) P3343F002 ***X4*** b) P3343J002 ***X4***	a) P31744133 ***X8*** b) P31745122 ***X8***	5) P33173108 ***X16*** 6) P33817117 ***X8***



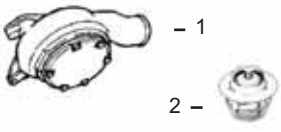
1) Oil Pump
2) Oil Cooler

1) P4132F056
2) P2486A218 **(3)**
P2486A219 **(3)**
P2486A222 **(5)**
P2486A241 **(7)**



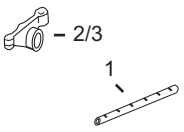
Lift Pump

P2641A067



1) Water Pump
2) Thermostat

1) P4131E012 **(3)**
PU5MW0195 **(3)**
2) P2485613



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90032
2) P41151483
3) P41151484



1) Cylinder Head
2) Glowplug

1) PZZ80221 **(3)**
2) P2666108
(Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X041**.
(2) Use Single Spring, Valve **3174P405** for low speed applications.
(3) Check with Build List.
(4) Fracture Split Type.
(5) Applies to AB50609 ONLY.
(6) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.
(7) Use for AB builds only.

Engine & Equipment Application

1004.40T
(AB, AH)

TURBOCHARGED

4 Cyl, Lip Seal

Kits include both rear seals

Bore: 3.937 in
100 mm

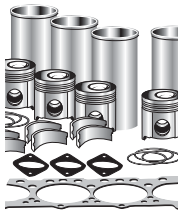
From ESN U608301W (1992)

APPLICATIONS:

BOBCAT
963 Skid Steer

JCB
3CX Backhoe (AB50609)
3CX Backhoe (AB50279)
415 Loader (AB50253)

TOVEL
TL20-22-25 Tovelazer
TL6-44-36 Tovelazer



1) Engine O/H Kit

2) Basic Engine Kit

1) POK472

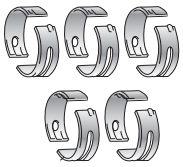
2) PBK472



Piston-Liner Kit

PCK275
Consists of:
a) PMXF0014
b) P4181A026
c) P3135X042 (1)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

PU5ME0006 **Std.**

PU5ME0006A **.010**
PU5ME0006B **.020**
PU5ME0006C **.030**

Set of 4 Pairs

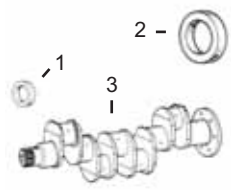


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

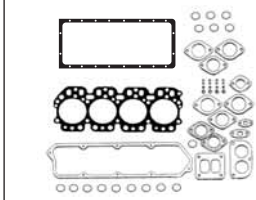
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

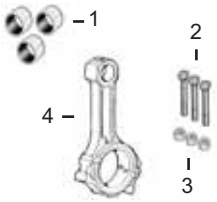
1) P2418F436
2) P2418F475 (4)
P2418F701 (5)
3) PZZ90212



1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk

4) Head Gasket
5) Oil Pan Set

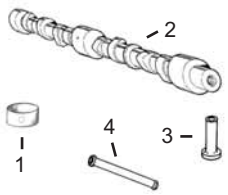
1) PU5LT0178
2) PU5LB0152
3) P3681A021
4) P3681E025
5) PU5MK0600



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

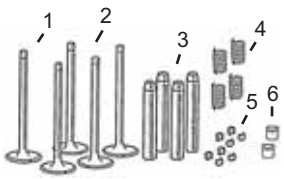
1) P31134131 ***X4***
P3112A006 ***X4*** (7)
2) P32762144 ***X8***
3) P33221328 ***X8***
4) PZZ90013 (3)



1) Bushing, Cam

2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***X1***
2) P31415361
3) P31434163
4) P31434307



Valve Train Kit

PVTK417

1) Valve, Intake
2) Valve, Exhaust

1) P3142L072 ***X4***
2) P3142A051 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***X4***
b) P3343J002 ***X4***

4) Spring, Valve (2)
a) Inner
b) Outer

a) P31744133 ***X8***
b) P31745122 ***X8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X16***
6) P33817117 ***X8***



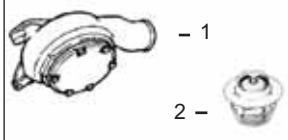
1) Oil Pump
2) Oil Cooler

1) P4132F056
2) P2486A218 (3)
P2486A219 (3)
P2486A222 (6)
P2486A241 (3)



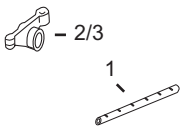
Lift Pump

P2641A067



1) Water Pump
2) Thermostat

1) P4131E012 (3)
PU5MW0195 (3)
2) P2485613



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90032
2) P41151483
3) P41151484



1) Cylinder Head
2) Glowplug

1) PZZ80221 (3)
2) P2666108
(Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X041**.
(2) Use Single Spring, Valve 3174P405 for low speed applications.
(3) Check with Build List.
(4) To ESN U176356H.
(5) From ESN U176357H.
(6) Applies to AB50609 ONLY.
(7) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1004.40T
(AB)

TURBOCHARGED / INTERCOOLED

4 Cyl, Lip Seal

Bore: 3.9370 in
100.00 mm

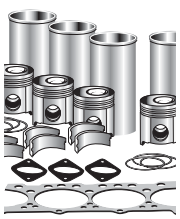
Stroke: 5.00 in
127.00 mm

GRADE "L"
Piston height: 70.161 mm
2.762 in

APPLICATIONS:

BOBCAT
963 (AK70383)

TOVEL
TL20-22-25 Tovelazer
TL6-44-36 Tovelazer



1) Engine O/H Kit

2) Basic Engine Kit

1) POK496

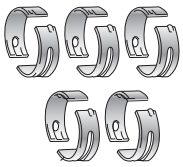
2) PBK496



Piston-Liner Kit

PCK624
Consists of:
a) PU5LF0024
b) P4181A026
c) P3135X062 (1)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

PU5ME0006 **Std.**

PU5ME0006A **.010**
PU5ME0006B **.020**
PU5ME0006C **.030**

Set of 4 Pairs

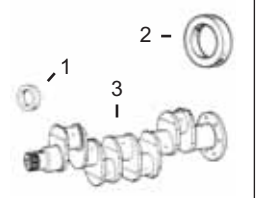


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

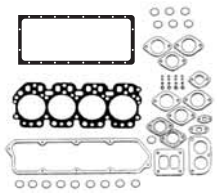
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

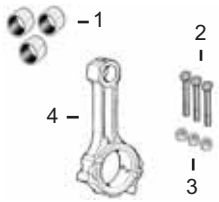
1) P2418F436
2) P2418F475
3) PZZ90212



1) Top Gasket Set
2) Bottom Gasket
3) Valve Cover Gsk

4) Head Gasket
5) Oil Pan Set

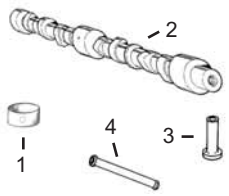
1) PU5LT0178
2) PU5LB0152
3) P3681A021
4) P3681E025
5) PU5MK0600



1) Bush, Con Rod
2) Bolt, Con Rod
3) Dowel, Con Rod

4) Con Rod

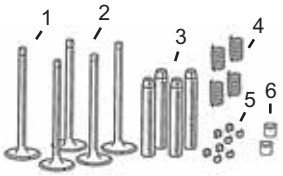
1) P3112E005 ***X4*** **(2)**
2) P32186142 ***X8***
3) P3246A001 ***X8***
4) PZZ90146



1) Bushing, Cam

2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***X1***
2) P31415361
3) P31434163
4) P31434307



Valve Train Kit

PVTK417

1) Valve, Intake
2) Valve, Exhaust

1) P3142L072 ***X4***
2) P3142A051 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3343F002 ***X4***
b) P3343J002 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) P31744133 ***X8***
b) P31745122 ***X8***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X16***
6) P33817117 ***X8***



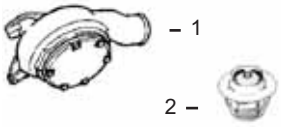
1) Oil Pump
2) Oil Cooler

1) P4132F056
2) P2486A218 **(4)**
P2486A219 **(4)**
P2486A222 **(4)**
P2486A241 **(5)**



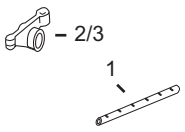
Lift Pump

P2641A067



1) Water Pump
2) Thermostat

1) P4131E012
2) P2485613



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) PZZ90032
2) P41151483
3) P41151484



1) Glowplug

1) P2666108
(Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X063**.
(2) Use with Con Rod ZZ90146.
(3) 30° Angle.
(4) Check with Build List.
(5) Use for AB builds only. check your application for proper use.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1004.40/40T
(AJ, AK, AM, AP, AQ)

TURBOCHARGED or NATURALLY ASPIRATED

4 Cyl, Lip Seal

Kits include both rear seals

Bore: 3.937 in
100 mm

ENGINES	BUILDS
4.401	AJ
T4.401	AK
CCW4.401	AM
N4.401	AP
TN4.401	AQ

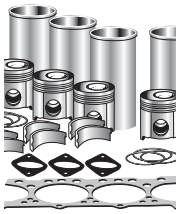
APPLICATIONS:

BOBCAT
963 (AK70383)

JCB
Backhoe (AK50628)
Shovel Loader (AM50610)

MF AGRICULTURAL
Tractor (AK31299)

TOVEL
TL20-22-25 Tovelazer
TL6-44-36 Tovelazer



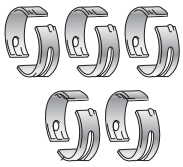
1) Engine O/H Kit
2) Basic Engine Kit
1) POK473/45
POK473/30
2) PBK473



Piston-Liner Kit

PCK5762
Consists of:
a) PU5LP0057
b) P4181A033
c) P3135X062 (1)

4 Per Engine



Main Bearing Set

P81558 **Std.**

P81558A **.010**
P81558B **.020**
P81558C **.030**

Set of 5 Pairs



Con Rod Bearing Set

PU5ME0006 **Std.**

PU5ME0006A **.010**
PU5ME0006B **.020**
PU5ME0006C **.030**

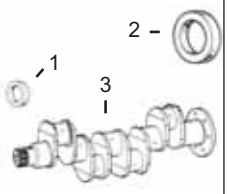
Set of 4 Pairs



Thrust Washer Set

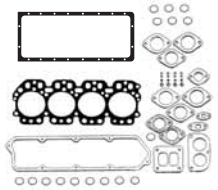
P31137551/61 **Std.**
P31137312/22 **.007**

Set of 2 Pairs



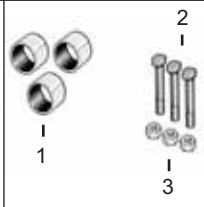
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F475 (3)
P2418F701 (4)
3) PZZ90212 (5)



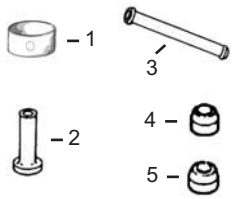
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gsk

1) PU5LT0202
2) PU5LB1171 (6)
3) P3681E025
4) P3681A049



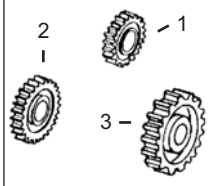
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

1) P3112E011 *X4*
2) P32762144 *X8*
3) P33221328 *X8*



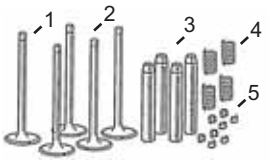
1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P31134132 *X1*
2) P31434163
3) P31434307
4) P2418M505 *X4*
5) P2418M506 *X4*



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) N/A
2) P3117L023
3) N/A



Valve Train Kit
a) 45° Angle
b) 30° Angle

a) PVTK423
b) PVTK424

1) Valve, Intake
2) Valve, Exhaust
a) 45°Angle b) 30°Angle

1a) P3142D041 *X4*
b) P3142L081 *X4*
2a) P3142D031 *X4*
b) P3142D051 *X4*

3) Guide, Valve
a) Intake
b) Exhaust

a) P3313A012 *X4*
b) P3318A705 *X4*

4) Spring, Valve

4) P3174P409 *X8*

5) Lock, Valve

5) P3142W004 *X16*



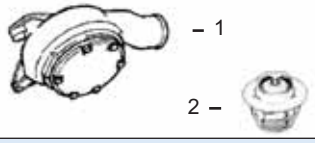
1) Oil Pump
2) Oil Cooler

1) P4132F056
P4132F041 (2)
2) P2486A218 (7)
P2486A219 (8)
P2486A222 (8)
P2486A241 (9)



Lift Pump

P2641A067



1) Water Pump
2) Thermostat

1) PU5MW0192
PU5MW0195
2) P2485C036



1) Glowplug

1) P2666108
(Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X063**.
(2) Use in engines with Balancer Units.
(3) To ESN U176356H.
(4) From ESN U176357H.
(5) To ESN U284277J.
(6) May use Bottom Gasket Set **PU5LB1310.**
(7) Used on builds AK and AP Only.
(8) Check build number for proper application.
(9) Use for AJ, AK, and AM builds only. check your application for proper use.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1004.42

(AR, AS)

NATURALLY ASPIRATED

4 Cyl, Lip Seal

Kits include both rear seals

Sleeveless Engines

Bore: 4.055 in
103 mm

ENGINES	***BUILDS***
4.421	AR
N4.421	AS

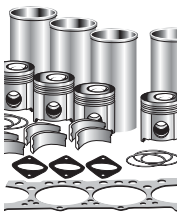
APPLICATIONS:

BOBCAT
1800 Scat Track-low Emission (AR70419)

HYSTER
H80-155XL/XM (AR70417)
S80-155XL/XM (AR70414)

JCB (AR50690)

TOVEL
TS6-44 TS8-44

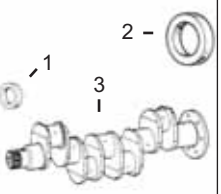


1) Engine O/H Kit

2) Basic Kit

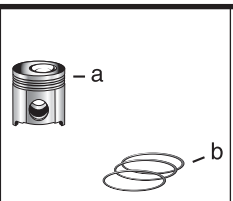
1) POK474 Std.
POK475 0.50
POK476 1.00

2) PBK474 Std.
PBK475 0.50
PBK476 1.00



1) Front Seal
2) Rear Seal
3) Crankshaft Kit

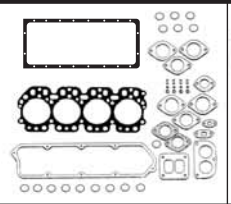
1) P2418F436
2) P2418F475 (1)
P2418F701 (2)
3) PZZ90202 (3)



a) Piston
b) Ring Set

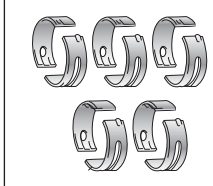
a) PU5LP0058 Std.
PU5LP0058B 0.50
PU5LP0058D 1.00
b) P4181A045 Std.
P4181A046 0.50
P4181A047 1.00

4 Per Engine



1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gsk

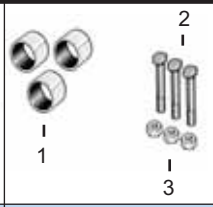
1) PU5LT0317
2) PU5LB1171 (4)
3) P3681E042
4) P3681A049



Main Bearing Set

P81558 Std.
P81558A .010
P81558B .020
P81558C .030

Set of 5 Pairs



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

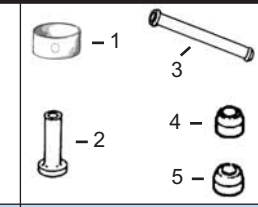
1) P3112E011 *x4*
2) P32762144 *x8*
3) P33221328 *x8*



Con Rod Bearing Set

P85042 Std.
P85042A .010
P85042B .020
P85042C .030

Set of 4 Pairs



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

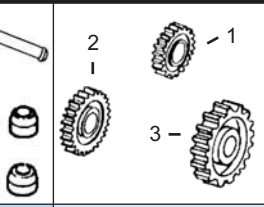
1) P31134132 *x1*
2) P31434163
3) P31434307
4) P2418M505 *x4*
5) P2418M506 *x4*



Thrust Washer Set

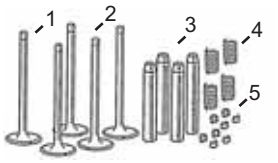
P31137551/61 Std.
P31137312/22 .007

Set of 2 Pairs



1) Crankshaft Gear
2) Camshaft Gear
3) Idler Gear

1) P31171681
2) P3117L023
3) N/A



Valve Train Kit

PVTK422

1) Valve, Intake
2) Valve, Exhaust

1) P3142H041 *x4*
2) P3142D061 *x4*

3) Guide, Valve
a) Intake
b) Exhaust

a) P3313A012 *x4*
b) P3318A705 *x4*

4) Spring, Valve

4) P3174P412 *x8*

5) Lock, Valve

5) P3142W004 *x16*



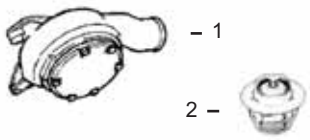
1) Oil Pump
2) Oil Cooler

1) P4132F051
2) P2486A218 (5)
P2486A219 (5)
P2486A222 (5)
P2486A241 (6)



Lift Pump

P2641A067



1) Water Pump
2) Thermostat

1) PU5MW0192
PU5MW0195 (5)
2) P2485C036



1) Glowplug

1) P2666108
(Bayonet Fitting)

(1) To ESN U176356H.
(2) From ESN U176357H.
(3) To ESN U284277J.
(4) May use Bottom Gasket Set **PU5LB1310.**
(5) Check build number for proper application.
(6) Use for AR builds only. check your application for proper use.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1006.60 (YA)

6 Cyl, Lip Seal

Kits include both rear seals

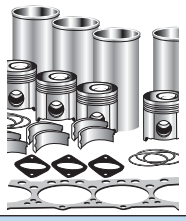
Bore: 3.9370 in
100.00 mm

APPLICATIONS:

HYSTER
H165-280 Forklift (YA70217)
H165-360XL (YA70337)

JCB
Wheeled Loader (YA50214)
Industrial (YA50339)

MF AGRICULTURAL
396 (YA31257)
399 (YA31240)



1) Engine O/H Kit
2) Basic Engine Kit
1) POK690
2) PBK690



Piston-Liner Kit

PCK142
Consists of:
a) PMXF0015
b) P4181A019
c) P3135X042 (1)

6 Per Engine



Main Bearing Set

PU5MB0030 **Std.**
PU5MB0030A **.010**
PU5MB0030B **.020**
PU5MB0030C **.030**

Set of 7 Pairs



Con Rod Bearing Set

P85043 **Std.**
P85043A **.010**
P85043B **.020**
P85043C **.030**

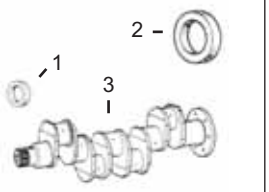
Set of 6 Pairs



Thrust Washer Set

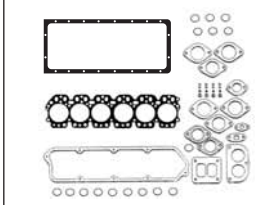
P31137551/61 **Std.**
P31137312/22 **.007**

Set of 2 Pairs



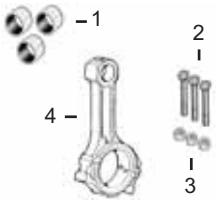
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F475 (3)
P2418F701 (4)
3) PZZ90087



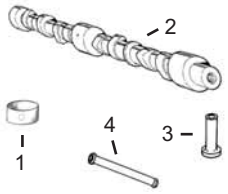
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket

1) PU5LT1179
2) PU5LB0153
3) P3681H205



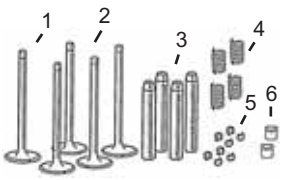
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) P31134123 ***X6***
2) P32762144 ***X12***
3) P33221328 ***X12***
4) PZZ90009



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***X1***
2) P31416307
3) P31434163
4) P31434307



Valve Train Kit

PVTK612

1) Valve, Intake
2) Valve, Exhaust

1) P3142L051 ***X6***
2) P3142A051 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

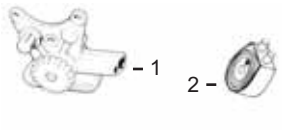
a) P3343F002 ***X6***
b) P3343J002 ***X6***

4) Spring, Valve (2)
a) Inner
b) Outer

a) P31744133 ***X12***
b) P31745122 ***X12***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X24***
6) P33817117 ***X12***



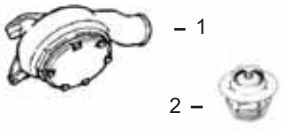
1) Oil Pump
2) Oil Cooler

1) P4132F043
2) P2486A219 (5)
P2486A241 (5)



Lift Pump

P2641729



1) Water Pump
2) Thermostat

1) PU5MW0092
2) P2485613 ***X2***



1) Rocker Arm LH
2) Rocker Arm RH

1) P41151483
2) P41151484



1) Cylinder Head
2) Glowplug

1) PZZ80299 (5)
2) P2666108
(Bayonet Fitting)

(1) Flanged, Semi Finished Liner available, **P3135X041**.
(2) Use Single Valve Spring, 3174P405 for low speed applications, not available from Maxiforce.
(3) To ESN U764751H.
(4) From ESN U764752H.
(5) Check build list for proper application.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1006.60T
(YB)

TURBOCHARGED

6 Cyl, Lip Seal

Bore: 3.9370 in
100.00 mm

To ESN 557976X

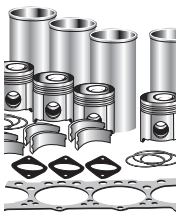
APPLICATIONS:

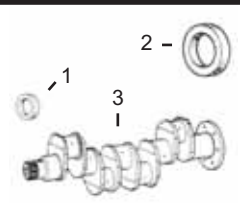
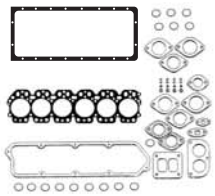
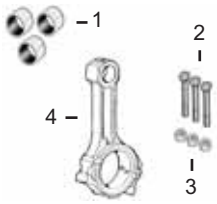
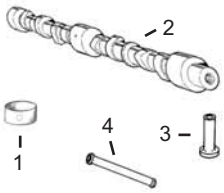
JCB
435 Front Loader (YB50292)

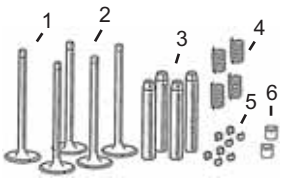
MF AGRICULTURAL
3625 (YB31245)

PERKINS USA
Power Units (YB30127)
Power Units (YB30650)

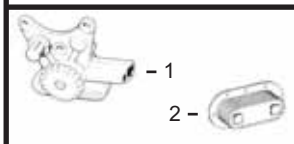
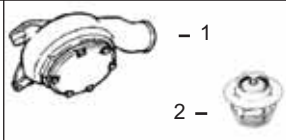
TOVEL
TS18-44

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**PCK245**	PU5MB0030 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
1) POK691	Consists of:	PU5MB0030A **.010**	PU5ME0003A **.010**	P31137312/22 **.007**
2) PBK691	a) PMXF0013 b) P4181A021 c) P3135X042 **(3)**	PU5MB0030B **.020** PU5MB0030C **.030**	PU5ME0003B **.020** PU5ME0003C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**

			
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod
1) P2418F436 2) P2418F475 3) PZZ90085	1) PU5LT1179 2) PU5LB0153 3) P3681H205	1) P31134131 ***x6*** P3112A006 ***x6*** **(6)** 2) P32762144 ***x12*** 3) P33221328 ***x12*** 4) PZZ90013 **(1)**	1) P31134132 ***x1*** 2) P31416307 3) P31434163 4) P31434307



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK613	1) P3142L071 ***x6*** **(2)** 2) P3142A051 ***x6***	a) P3343F002 ***x6*** b) P3343J002 ***x6***	a) P31744133 ***x12*** b) P31745122 ***x12***	5) P33173108 ***x24*** 6) P33817117 ***x12***

				
1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Arm LH 2) Rocker Arm RH	1) Cylinder Head 2) Glowplug
1) P4132F057 2) P2486A992 **(4)** P2486A993 **(5)**	P2641729	1) PU5MW0092 2) P2485613 ***x2***	1) P41151483 2) P41151484	1) PZZ80299 **(5)** 2) P2666108 **(Bayonet Fitting)**

(1) Check with Build List.
(2) 45° Angle.
(3) Flanged, Semi Finished Liner available, **P3135X041**.
(4) Applies to YB31245 ONLY.
(5) Check build list for proper application.
(6) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1006.60T (YB)

TURBOCHARGED

6 Cyl, Lip Seal

Kits include both rear seals

Bore: 3.9370 in
100.00 mm

From ESN 557977X

APPLICATIONS:

FG WILSON
XP110E

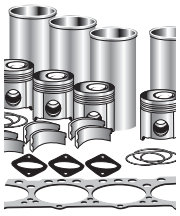
HYSTER
H165-360XL (YB70344)

JCB
435 Front Loader (YB50292)

MF AGRICULTURAL
3625 (YB31245)

PERKINS USA
Power Units (YB30127)

TOVEL
TS18-44



1) Engine O/H Kit

2) Basic Engine Kit

1) POK692

2) PBK692



Piston-Liner Kit

PCK275
Consists of:
a) PMXF0014
b) P4181A026
c) P3135X042 (3)

6 Per Engine



Main Bearing Set

PU5MB0030 **Std.**

PU5MB0030A **.010**
PU5MB0030B **.020**
PU5MB0030C **.030**

Set of 7 Pairs



Con Rod Bearing Set

PU5ME0003 **Std.**

PU5ME0003A **.010**
PU5ME0003B **.020**
PU5ME0003C **.030**

Set of 6 Pairs

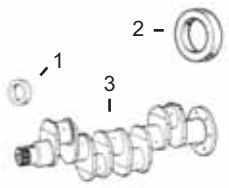


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

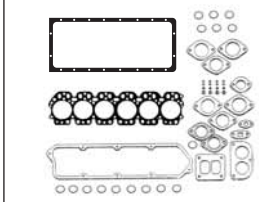
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

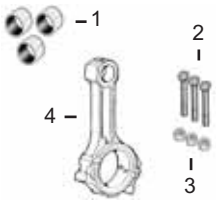
1) P2418F436
2) P2418F475 (4)
P2418F701 (5)
3) PZZ90085



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket

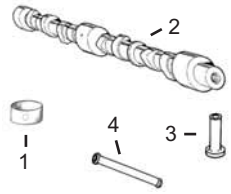
1) PU5LT1179
2) PU5LB0153
3) P3681H205



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

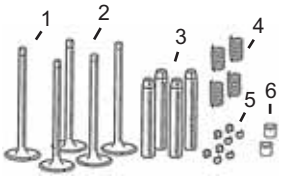
1) P31134131 ***X6***
P3112A006 ***X6*** (8)
2) P32762144 ***X12***
3) P33221328 ***X12***
4) PZZ90013 (1)



1) Bushing, Cam

2) Camshaft
3) Tappet
4) Push Rod

1) P31134132 ***X1***
2) P31416307
3) P31434163
4) P31434307



Valve Train Kit

PVTK614

1) Valve, Intake
2) Valve, Exhaust

1) P3142L072 ***X6*** (2)
2) P3142A051 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

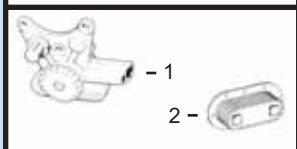
a) P3343F002 ***X6***
b) P3343J002 ***X6***

4) Spring, Valve
a) Inner
b) Outer

a) P31744133 ***X12***
b) P31745122 ***X12***

5) Lock, Valve
6) Seal, Valve

5) P33173108 ***X24***
6) P33817117 ***X12***



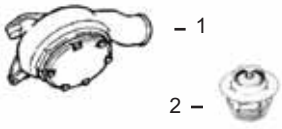
1) Oil Pump
2) Oil Cooler

1) P4132F057
2) P2486A992 (6)
P2486A993 (7)



Lift Pump

P2641729



1) Water Pump
2) Thermostat

1) PU5MW0092
2) P2485613



1) Rocker Arm LH
2) Rocker Arm RH

1) P41151483
2) P41151484



1) Cylinder Head
2) Glowplug

1) PZZ80299 (7)
2) P2666108
(Bayonet Fitting)

(1) Check with Build List.
(2) 30° Angle.
(3) Flanged, Semi Finished Liner available, **P3135X041**.
(4) To ESN U764751H.
(5) From ESN U764752H.
(6) Applies to YB31245 ONLY.
(7) Check build list for proper application.
(8) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1006.60T

(YE, YD)

TURBOCHARGED / INTERCOOLED

6 Cyl, Lip Seal

Kits include both rear seals

Bore: 3.9370 in
100.00 mm

Stroke: 5.00 in
127.00 mm

GRADE "L"

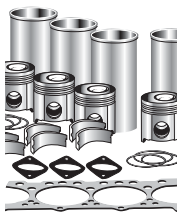
Piston height: 70.161 mm
2.762 in

APPLICATIONS:

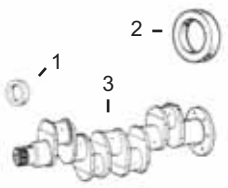
FG WILSON

P96SP1	P165E1
P150-1	P188E1
P150E	XP110E
P150P1	XP135
P165-1	XP150E
P165-2	XP150P1

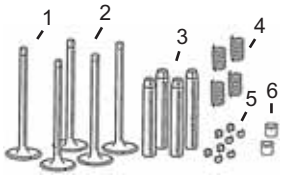
TOVEL
TS18-44



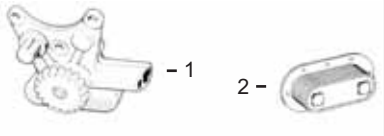
1) Engine O/H Kit	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	**PCK624**	PU5MB0030 **Std.**	PU5ME0003 **Std.**	P31137551/61 **Std.**
1) POK696	Consists of:	PU5MB0030A **.010**	PU5ME0003A **.010**	P31137312/22 **.007**
2) PBK696	a) PU5LF0024 b) P4181A026 c) P3135X062 **(3)**	PU5MB0030B **.020** PU5MB0030C **.030**	PU5ME0003B **.020** PU5ME0003C **.030**	
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**



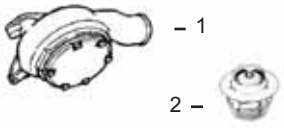
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Dowel, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket	4) Con Rod	2) Camshaft 3) Tappet 4) Push Rod
1) P2418F436 2) P2418F475 **(4)** P2418F701 **(5)** 3) PZZ90085	1) PU5LT1179 2) PU5LB0153 3) P3681H205	1) P3112E005 ***X6*** **(1)** P3112A006 ***X6*** **(6) (7)** 2) P32186142 ***X12*** 3) P3246A001 ***X12*** 4) PZZ90146	1) P31134132 ***X1*** 2) P31416307 3) P31434163 4) P31434307



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
PVTK614	1) P3142L072 ***X6*** **(2)** 2) P3142A051 ***X6***	a) P3343F002 ***X6*** b) P3343J002 ***X6***	a) P31744133 ***X12*** b) P31745122 ***X12***	5) P33173108 ***X24*** 6) P33817117 ***X12***











1) Oil Pump 2) Oil Cooler	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Arm LH 2) Rocker Arm RH	1) Glowplug
1) P4132F057 2) P2486A993	P2641729	1) PU5MW0092 2) P2485613	1) P41151483 2) P41151484	1) P2666108 **(Bayonet Fitting)**

(1) Use with Con Rod ZZ90146.
(2) 30° Angle.
(3) Flanged, Semi Finished Liner available, **P3135X063**.
(4) To ESN U764751H.
(5) From ESN U764752H.
(6) Do not used on YE build.
(7) On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1006.60T

(YG, YH, YK, YJ)

TURBOCHARGED or NATURALLY ASPIRATED

6 Cyl, Lip Seal

Kits include both rear seals

Bore: 3.9370 in
100.00 mm

ENGINES ***BUILDS***

6.601	YG
T6.601	YH
CCW6.601	YK
CCA6.601	YJ

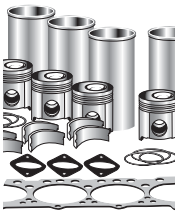
APPLICATIONS:

M^C CORMICK

MTX 110	(YH50918)
MTX 125	(YH50919)
MTX 140	(YH50920)
MTX 155	(YK50921)
MTX 170	(YJ51192)

MF AGRICULTURAL

6180	(YH31310)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK693/45
POK693/30

2) PBK693



Piston-Liner Kit

PCK5762

Consists of:

a) PU5LP0057
b) P4181A033
c) P3135X062 (1)

6 Per Engine



Main Bearing Set

PU5MB0030 **Std.**

PU5MB0030A **.010**
PU5MB0030B **.020**
PU5MB0030C **.030**

Set of 7 Pairs



Con Rod Bearing Set

PU5ME0003 **Std.**

PU5ME0003A **.010**
PU5ME0003B **.020**
PU5ME0003C **.030**

Set of 6 Pairs

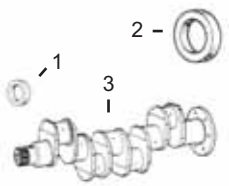


Thrust Washer Set

P31137551/61 **Std.**

P31137312/22 **.007**

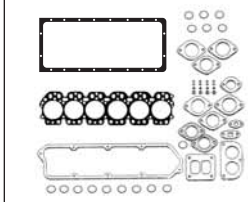
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

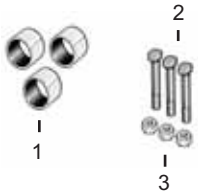
1) P2418F436
2) P2418F475 (2)
P2418F701 (3)
3) PZZ90085



1) Top Gasket Set
2) Bottom Gasket

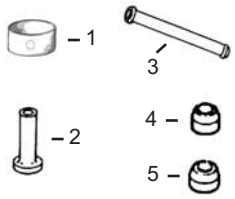
3) Head Gasket

1) PU5LT1300
2) PU5LB1301
3) P3681H205



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

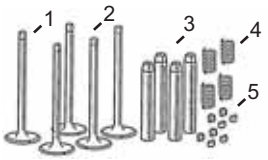
1) P3112E011 ***X6***
2) P32762144 ***X12***
3) P33221328 ***X12***



1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P31134132 ***X1***
2) P31434163
3) P31434307
4) P2418M505 ***X6***
5) P2418M506 ***X6***



Valve Train Kit
a) 45^0 Angle
b) 30^0 Angle

a) PVTK618
b) PVTK619

1) Valve, Intake
2) Valve, Exhaust
a) 45^0 Angle b) 30^0 Angle

1a) P3142D041 ***X6***
b) P3142L081 ***X6***
2a) P3142D031 ***X6***
b) P3142D051 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3313A012 ***X6***
b) P3318A705 ***X6***

4) Spring, Valve

4) P3174P409 ***X12***

5) Lock, Valve

5) P3142W004 ***X24***



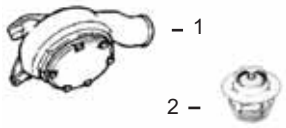
1) Oil Pump
2) Oil Cooler

1) P4132F057
2) P2486A992
P2486A993



Lift Pump

P2641729



1) Water Pump
2) Thermostat

1) PU5MW0192
2) P2485C036

(1) Flanged, Semi Finished Liner available, **P3135X063**.
(2) To ESN U764751H.
(3) From ESN U764752H.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1103C - 33 (DC)
1103B - 33 (DF)
1103A - 33 (DJ)
1103D - 33 (XK)

NATURALLY ASPIRATED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 201 in^3
3.3 Liter

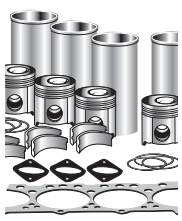
APPLICATIONS:

FG WILSON

P24P2S	P33-2
P26-1S	P33E1
P26-2S	P33E2
P26E1S	XP24P1S
P27P1	XP26E1S
P30E1	XP27P1
P30E2	XP30E1
P30P1	XP30P1
P30P2	XP33E1
P33-1	

MF AGRICULTURAL

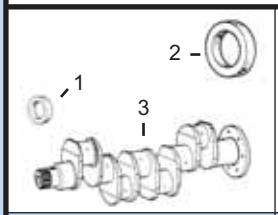
410	(DC38077)
431	(DC38027)



1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Kit	**P4115P011 Std.**	PU5MB0019 **Std.**	PU5ME0018 **Std.**	P31137551/61 **Std.**
1) POK320 Std. **POK321 0.50** **POK322 1.00**	**P4115P012 0.50 mm** **P4115P013 1.00 mm**	PU5MB0019A **.010** PU5MB0019B **.020** PU5MB0019C **.030**	PU5ME0018A **.010** PU5ME0018B **.020** PU5ME0018C **.030**	P31137312/22 **.007**
2) PBK320 Std. **PBK321 0.50** **PBK322 1.00**	**3 Per Engine**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

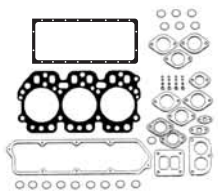
*** Piston Kit consists of:**

1)	**1 X** P3135M105	Piston Std,	**1 X** PUPRK0003	Ring Set Std.
2)	**1 X** P3135M106	Piston 0.50 mm,	**1 X** PUPRK0003B	Ring Set 0.50 mm.
3)	**1 X** P3135M107	Piston 1.00 mm,	**1 X** PUPRK0003D	Ring Set 1.00 mm.



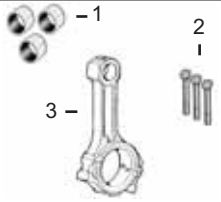
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) P4181V017



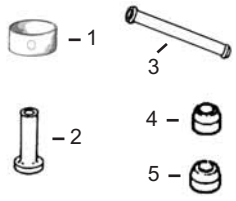
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0355
2) PU5LB0379
3) P3681E049
4) P3681A057
5) P3681K038



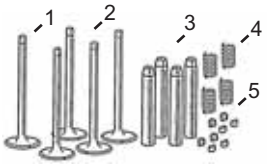
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 ***X3***
2) P3212V003 ***X6***
3) P4115C314 **(2)**

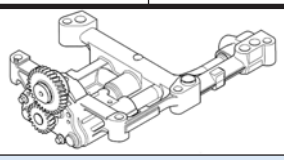


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 ***X1***
2) P31434163
3) P31434307
4) P2418M517 ***X3***
5) P2418M519 ***X3***

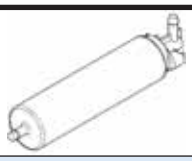


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK307	1) P3142H071 ***X3*** 2) P3142A151 ***X3***	3) P3313A012 ***X6***	4) P3174A016 ***X6***	5) P3142W004 ***X12***



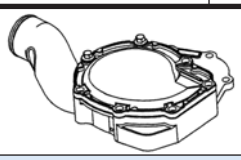
Oil Pump

P4132F071 **(1) (3)**



Lift Pump

P2641A203 **(4)**



Water Pump

PU5MW0197



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Check with Build List.
(4) Do Not Used with Build **DF**.

Engine & Equipment Application

1103C - 33 (DC)
1103D - 33 (XK)

NATURALLY ASPIRATED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

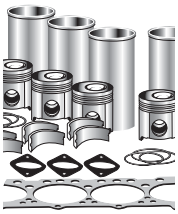
Displacement: 201 in^3
3.3 Liter

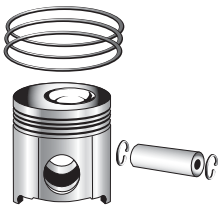
APPLICATIONS:

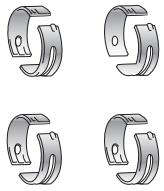
Used in Wheeled Tractors

FG WILSON

P24P2S	P33-2
P26-1S	P33E1
P26-2S	P33E2
P26E1S	XP24P1S
P27P1	XP26E1S
P30E1	XP27P1
P30E2	XP30E1
P30P1	XP30P1
P30P2	XP33E1
P33-1	







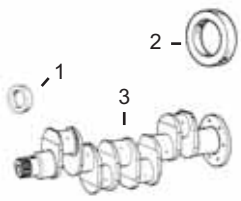


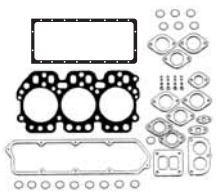


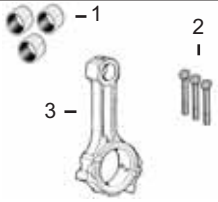
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Kit	**P4115P011 Std.**	PU5MB0019 **Std.**	PU5ME0018 **Std.**	P31137551/61 **Std.**
1) POK331 Std. **POK332 0.50** **POK333 1.00**	**P4115P012 0.50 mm** **P4115P013 1.00 mm**	PU5MB0019A **.010** PU5MB0019B **.020** PU5MB0019C **.030**	PU5ME0018A **.010** PU5ME0018B **.020** PU5ME0018C **.030**	P31137312/22 **.007**
2) PBK331 Std. **PBK332 0.50** **PBK333 1.00**	**3 Per Engine**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

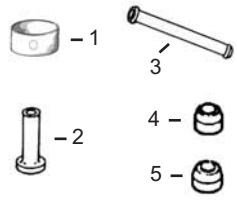
*** Piston Kit consists of:**

1) **1 X** P3135M105 Piston Std, **1 X** PUPRK0003 Ring Set Std.
2) **1 X** P3135M106 Piston 0.50 mm, **1 X** PUPRK0003B Ring Set 0.50 mm.
3) **1 X** P3135M107 Piston 1.00 mm, **1 X** PUPRK0003D Ring Set 1.00 mm.

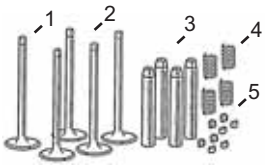




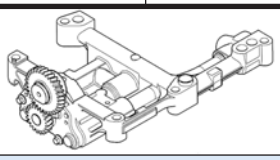


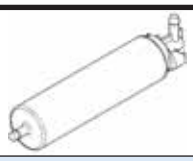


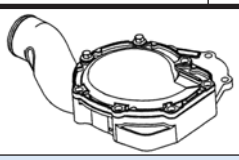
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Con Rod Kit	**1) Bushing, Cam** 2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0380 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 ***X3*** 2) P3212V003 ***X6*** 3) P4115C314 **(2)**	1) P3112D071 ***X1*** 2) P31434163 3) P31434307 4) P2418M517 ***X3*** 5) P2418M519 ***X3***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK307	1) P3142H071 ***X3*** 2) P3142A151 ***X3***	3) P3313A012 ***X6***	4) P3174A016 ***X6***	5) P3142W004 ***X12***











Oil Pump	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 **(1) (3)**	P2641A203	PU5MW0197	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Check with Build List.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1103C - 33T (DD)

1103C - 33TA (DE)

1103B - 33T (DG)

1103A - 33T (DK)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 201 in^3
3.3 Liter

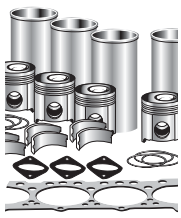
APPLICATIONS:

MF AGRICULTURAL

3425S/F/GE/GEV (DD37992)
420/461 (DD38078)
430 (DD38311)

KZ POWER

KZP-G50 KZP-G66

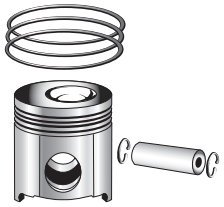


1) Engine O/H Kit

2) Basic Kit

1) POK325 Std.
POK326 0.50
POK327 1.00

2) PBK325 Std.
PBK326 0.50
PBK327 1.00

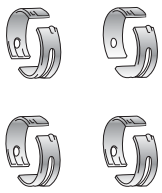


Piston & Ring Kit

P4115P015 Std.

P4115P016 0.50 mm
P4115P017 1.00 mm

3 Per Engine



Main Bearing Set

PU5MB0019 **Std.**
PU5MB0019A **.010**
PU5MB0019B **.020**
PU5MB0019C **.030**

Set of 4 Pairs



Con Rod Bearing Set

PU5ME0018 **Std.**
PU5ME0018A **.010**
PU5ME0018B **.020**
PU5ME0018C **.030**

Set of 3 Pairs



Thrust Washer Set

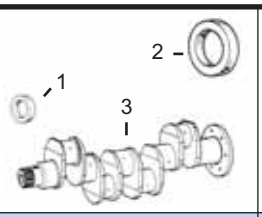
P31137551/61 **Std.**
P31137312/22 **.007**

Set of 2 Pairs

*** Piston Kit consists of:**

1) **1 X** P3135M111 Piston Std,
2) **1 X** P3135M116 Piston 0.50 mm,
3) **1 X** P3135M117 Piston 1.00 mm,

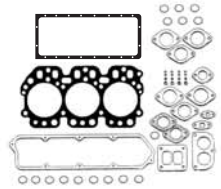
1 X PUPRK0002 Ring Set Std.
1 X PUPRK0002B Ring Set 0.50 mm.
1 X PUPRK0002D Ring Set 1.00 mm.



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

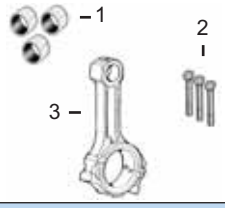
1) P2418F436
2) P2418F704
3) P4181V017



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

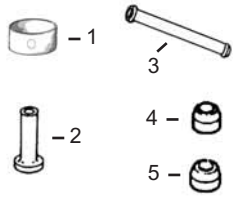
1) PU5LT0355
2) PU5LB0379
3) P3681E049
4) P3681A057
5) P3681K038



1) Bush, Con Rod
2) Bolt, Con Rod

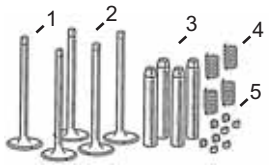
3) Con Rod Kit

1) P3112A005 ***x3***
2) P3212V003 ***x6***
3) P4115C314 **(2)**

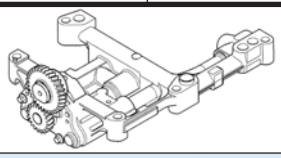


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 ***X1***
2) P31434163
3) P31434307
4) P2418M517 ***x3***
5) P2418M519 ***x3***

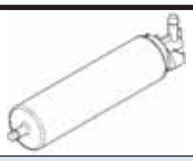


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK307	1) P3142H071 ***x3*** 2) P3142A151 ***x3***	3) P3313A012 ***x6***	4) P3174A016 ***x6***	5) P3142W004 ***x12***



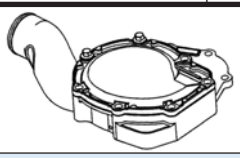
Oil Pump

P4132F071 **(1)**



Lift Pump

P2641A203 **(3)**



Water Pump

PU5MW0197



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **DE** or **DG**.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1103C - 33T (DD)

TURBOCHARGED

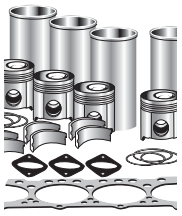
Bore: 4.133 in
105.00 mm

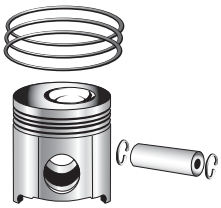
Stroke: 5.00 in
127.00 mm

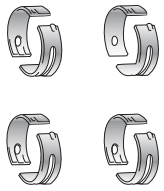
Displacement: 201 in^3
3.3 Liter

APPLICATIONS:

Used in Wheeled Tractors







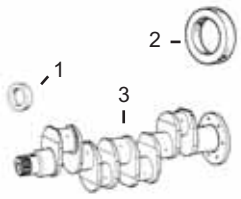


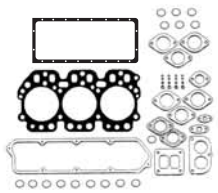


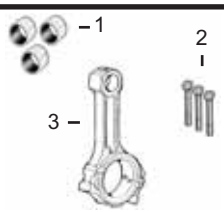
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Kit	**P4115P015 Std.**	PU5MB0019 **Std.**	PU5ME0018 **Std.**	P31137551/61 **Std.**
1) POK334 Std. **POK335 0.50** **POK336 1.00**	**P4115P016 0.50 mm** **P4115P017 1.00 mm**	PU5MB0019A **.010** PU5MB0019B **.020** PU5MB0019C **.030**	PU5ME0018A **.010** PU5ME0018B **.020** PU5ME0018C **.030**	P31137312/22 **.007**
2) PBK334 Std. **PBK335 0.50** **PBK336 1.00**	**3 Per Engine**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

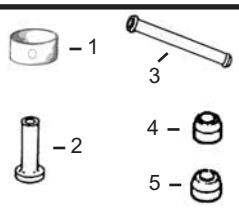
*** Piston Kit consists of:**

1) **1 X** P3135M111 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M116 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M117 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.

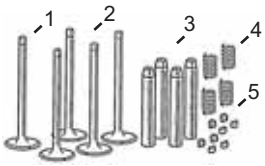




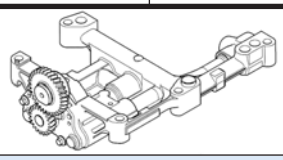


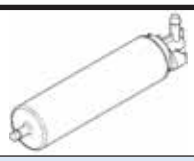


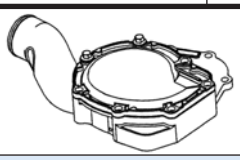
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	**1) Bushing, Cam**
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0380 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 ***X3*** 2) P3212V003 ***X6*** 3) P4115C314 **(2)**	1) P3112D071 ***X1*** 2) P31434163 3) P31434307 4) P2418M517 ***X3*** 5) P2418M519 ***X3***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK307	1) P3142H071 ***X3*** 2) P3142A151 ***X3***	3) P3313A012 ***X6***	4) P3174A016 ***X6***	5) P3142W004 ***X12***











Oil Pump	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 **(1)**	P2641A203	PU5MW0197	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application

1103C - 33T (DD)

1103A - 33T (DK)

TURBOCHARGED

Bore: 4.133 in / 105 mm

Stroke: 5.00 in / 127 mm

Displacement: 201 in^3
3.3 Liter

APPLICATIONS:

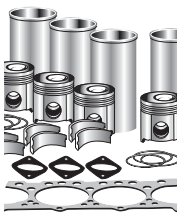
FG WILSON

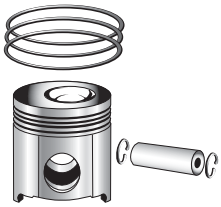
P32P2S/3S	P60P3
P35-1S/2S	P65-1
P35E2S/3S	P65E3
P40P1S	XP32P3S
P40P2/P3	XP35E3S
P44E1S	XP40P1S
P44E2/E3	XP40P3
P45P2/P3	XP44E1S
P45P3S	XP44E3
P50-1/1S	XP45P3/S
P50-2	XP50E3/S
P50E2/3	XP50P1
P50E3S	XP55E1
P50P1	XP60P3
P55-1	XP65E3
P55E1	

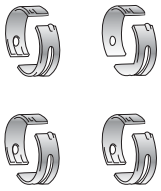
Genset (DK51280)

KZ POWER

KZP-G50	KZP-G66







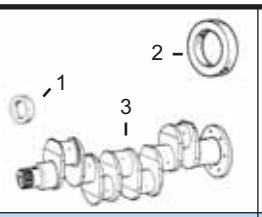


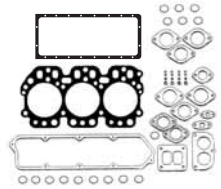


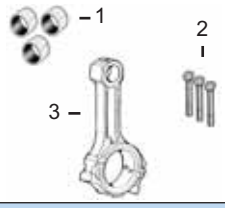
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Kit	**P4115P025** Std.	PU5MB0019 Std.	PU5ME0018 Std.	P31137551/61 Std.
1) POK340 Std. **POK341** 0.50 **POK342** 1.00	**P4115P026** 0.50 mm **P4115P027** 1.00 mm	PU5MB0019A .010 PU5MB0019B .020 PU5MB0019C .030	PU5ME0018A .010 PU5ME0018B .020 PU5ME0018C .030	P31137312/22 .007
2) PBK340 Std. **PBK341** 0.50 **PBK342** 1.00	**3 Per Engine**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

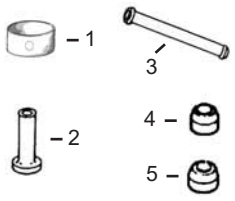
*** Piston Kit consists of:**

1)	**1 X** P3135M121	Piston Std,	**1 X** PUPRK0002	Ring Set Std.
2)	**1 X** P3135M122	Piston 0.50 mm,	**1 X** PUPRK0002B	Ring Set 0.50 mm.
3)	**1 X** P3135M123	Piston 1.00 mm,	**1 X** PUPRK0002D	Ring Set 1.00 mm.

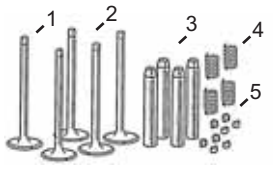




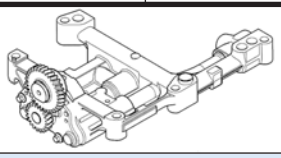




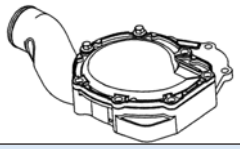
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0379 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 *X3* 2) P3212V003 *X6* 3) P4115C314 (2)	1) P3112D071 *X1* 2) P31434163 3) P31434307 4) P2418M517 *X3* 5) P2418M519 *X3*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK307	1) P3142H071 *X3* 2) P3142A151 *X3*	3) P3313A012 *X6*	4) P3174A016 *X6*	5) P3142W004 *X12*











Oil Pump	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 (1)	P2641A203	PU5MW0197	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

Engine & Equipment Application

1103D - 33T (XL)

1103D - 33TA (XM)

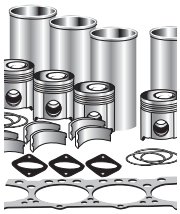
TURBOCHARGED

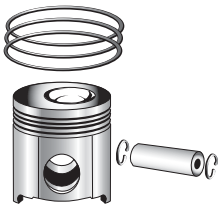
Tier 3

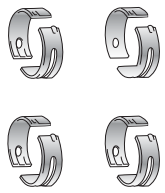
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 201 in^3
3.3 Liter







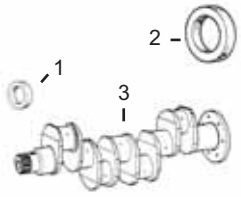


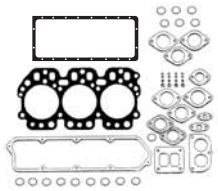


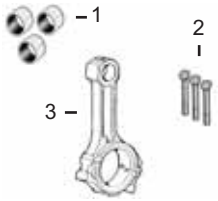
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Kit	**PU5PR0064 Std.**	PU5MB0037 **Std.**	PU5ME0033 **Std.**	P31137551/61 **Std.**
1) POK343 Std. **POK344 0.50** **POK345 1.00**	**PU5PR0064B 0.50** **PU5PR0064D 1.00**	PU5MB0037A **.010** PU5MB0037B **.020** PU5MB0037C **.030**	PU5ME0033A **.010** PU5ME0033B **.020** PU5ME0033C **.030**	P31137312/22 **.007**
2) PBK343 Std. **PBK344 0.50** **PBK345 1.00**	**3 Per Engine**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

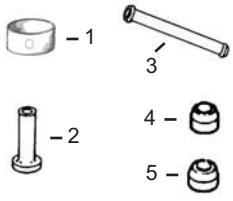
*** Piston Kit consists of:**

1) **1 X** P3135M171 Piston Std, **1 X** PUPRK0005 Ring Set Std.
2) **1 X** P3135M172 Piston 0.50 mm, **1 X** PUPRK0005B Ring Set 0.50 mm.
3) **1 X** P3135M173 Piston 1.00 mm, **1 X** PUPRK0005D Ring Set 1.00 mm.

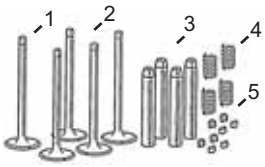




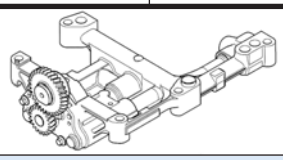


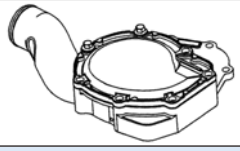


1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) P4181V017	1) PU5LT0355 2) PU5LB0379 3) P3681E049 4) P3681A057 5) P3681K038	1) P3112A005 ***X3*** 2) P3212V003 ***X6*** 3) P4115C314 **(2)**	1) P3112D071 ***X1*** 2) P3142U061 3) P3142V011 4) P2418M517 ***X3*** 5) P2418M519 ***X3***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK310	1) P3142H111 ***X3*** 2) P3142A171 ***X3***	3) P3313A012 ***X6***	4) P3174A031 ***X6***	5) P2714A002 ***X12***









Oil Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 **(1)**	PU5MW0208	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1103D - 33T (XL)

1103D - 33TA (XM)

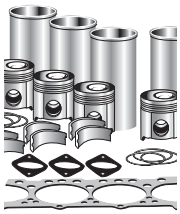
TURBOCHARGED

Tier 3

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 201 in^3
3.3 Liter

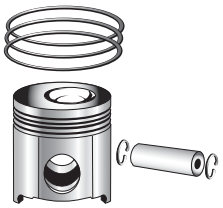


1) Engine O/H Kit

2) Basic Kit

1) **POK346** Std.
POK347 0.50
POK348 1.00

2) **PBK346** Std.
PBK347 0.50
PBK348 1.00

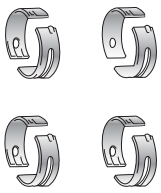


Piston & Ring Kit

PU5PR0064 Std.

PU5PR0064B 0.50
PU5PR0064D 1.00

3 Per Engine



Main Bearing Set

PU5MB0037 Std.

PU5MB0037A .010
PU5MB0037B .020
PU5MB0037C .030

Set of 4 Pairs



Con Rod Bearing Set

PU5ME0033 Std.

PU5ME0033A .010
PU5ME0033B .020
PU5ME0033C .030

Set of 3 Pairs



Thrust Washer Set

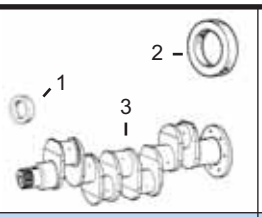
P31137551/61 Std.

P31137312/22 .007

Set of 2 Pairs

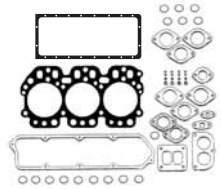
*** Piston Kit consists of:**

1) **1 X** P3135M171 Piston Std, **1 X** PUPRK0005 Ring Set Std.
2) **1 X** P3135M172 Piston 0.50 mm, **1 X** PUPRK0005B Ring Set 0.50 mm.
3) **1 X** P3135M173 Piston 1.00 mm, **1 X** PUPRK0005D Ring Set 1.00 mm.



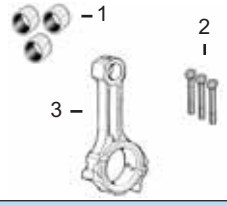
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) P4181V017



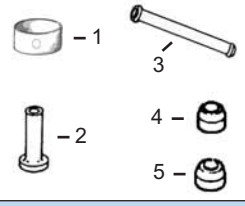
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0355
2) PU5LB0380
3) P3681E049
4) P3681A057
5) P3681K038



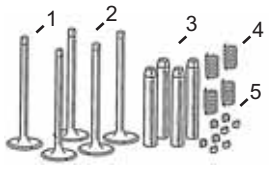
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 ***X3***
2) P3212V003 ***X6***
3) P4115C314 **(2)**

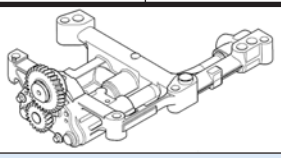


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 ***X1***
2) P3142U061
3) P3142V011
4) P2418M517 ***X3***
5) P2418M519 ***X3***

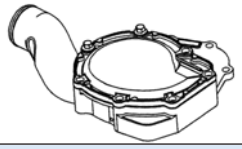


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK310	1) P3142H111 ***X3*** 2) P3142A171 ***X3***	3) P3313A012 ***X6***	4) P3174A031 ***X6***	5) P2714A002 ***X12***



Oil Pump

P4132F071 **(1)**



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



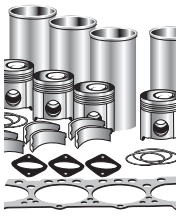
Repair Sleeve

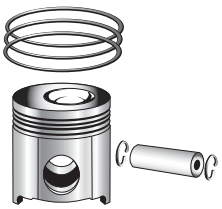
105RS

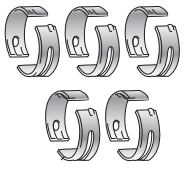
(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application
1104C - 44 (RE)
1104C - E44 (RF)
1104A - 44 (RR)
NATURALLY ASPIRATED
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Liter
APPLICATIONS:
INDUSTRIAL
BACKHOE LOADER (RE38238)
GENSET (RE51215)







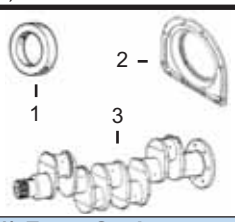


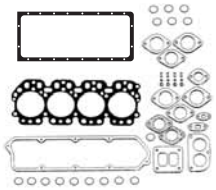


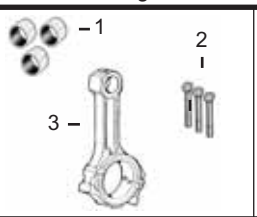
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (5)	Thrust Washer Set
2) Basic Kit	**P4115P011 Std.**	PU5MB0018 **Std.**	PU5ME0013 **Std.**	P31137551/61 **Std.**
1) POK412 Std. **POK413 0.50** **POK414 1.00**	**P4115P012 0.50 mm** **P4115P013 1.00 mm**	PU5MB0018A **.010** PU5MB0018B **.020** PU5MB0018C **.030**	PU5ME0013A **.010** PU5ME0013B **.020** PU5ME0013C **.030**	P31137312/22 **.007**
2) PBK412 Std. **PBK413 0.50** **PBK414 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

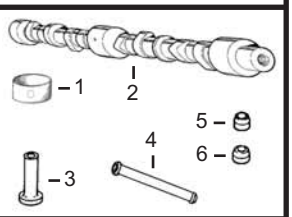
*** Piston Kit consists of:**

1) **1 X** P3135M105 Piston Std, **1 X** PUPRK0003 Ring Set Std.
2) **1 X** P3135M106 Piston 0.50 mm, **1 X** PUPRK0003B Ring Set 0.50 mm.
3) **1 X** P3135M107 Piston 1.00 mm, **1 X** PUPRK0003D Ring Set 1.00 mm.

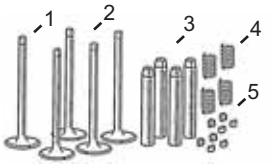




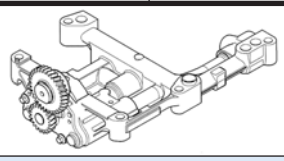


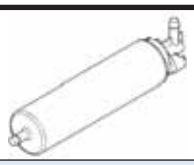


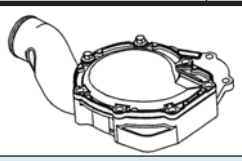
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 (4) 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 *X4* 2) P3212V003 *X8* 3) P4115C314 (2)	1) P3112D071 *X1* 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 *X4* 6) P2418M519 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *X4* 2) P3142A151 *X4*	3) P3313A012 *X8*	4) P3174A016 *X8*	5) P3142W004 *X16*











Oil Pump	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 (1)	P2641A203 (3)	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green. To ESN U491476T.
(3) Do Not Used with Builds **RF**.
(4) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104C - 44 (RE)

1104C - E44 (RF)

1104A - 44 (RR)

NATURALLY ASPIRATED

Bore: 4.133 in
105.00 mm

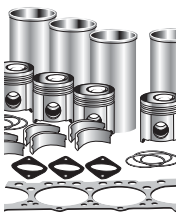
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

TRACTORS
(RE38396)

INDUSTRIAL
(RE38082/RE38108)

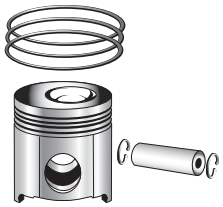


1) Engine O/H Kit

2) Basic Kit

1) POK415 Std.
POK416 0.50
POK417 1.00

2) PBK415 Std.
PBK416 0.50
PBK417 1.00

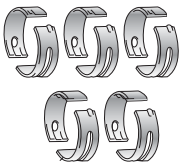


Piston & Ring Kit

P4115P011 Std.

P4115P012 0.50 mm
P4115P013 1.00 mm

4 Per Engine



Main Bearing Set

PU5MB0018 Std.

PU5MB0018A .010
PU5MB0018B .020
PU5MB0018C .030

Set of 5 Pairs



Con Rod Bearing Set (4)

PU5ME0013 Std.

PU5ME0013A .010
PU5ME0013B .020
PU5ME0013C .030

Set of 4 Pairs



Thrust Washer Set

P31137551/61 Std.

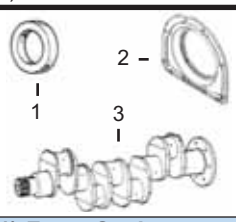
P31137312/22 .007

Set of 2 Pairs

*** Piston Kit consists of:**

1) **1 X** P3135M105 Piston Std,
2) **1 X** P3135M106 Piston 0.50 mm,
3) **1 X** P3135M107 Piston 1.00 mm,

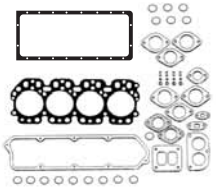
1 X PUPRK0003 Ring Set Std.
1 X PUPRK0003B Ring Set 0.50 mm.
1 X PUPRK0003D Ring Set 1.00 mm.



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

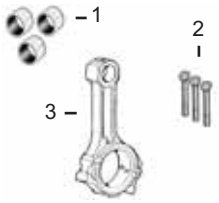
1) P2418F436
2) P2418F704
3) PZZ90239



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

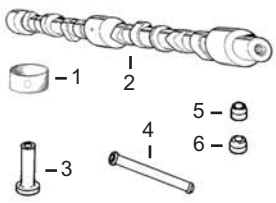
1) PU5LT0357
2) PU5LB0384
3) P3681E051
4) P3681A055
5) P3681K036



1) Bush, Con Rod
2) Bolt, Con Rod

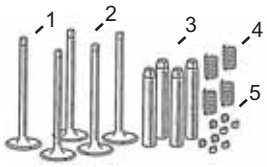
3) Con Rod Kit

1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)

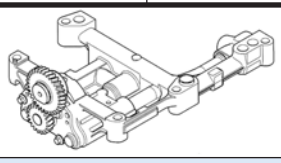


1) Bushing, Cam
2) Camshaft
3) Tappet
4) Pushrod
5) Seal, Exhaust Valve
6) Seal, Intake Valve

1) P3112D071 *X1*
2) P3141D211
3) P31434163
4) P31434307
5) P2418M517 *X4*
6) P2418M519 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *X4* 2) P3142A151 *X4*	3) P3313A012 *X8*	4) P3174A016 *X8*	5) P3142W004 *X16*



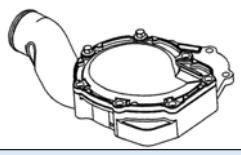
Oil Pump

P4132F071 (1)



Lift Pump

P2641A203 (3)



Water Pump

PU5MW0206



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RF**.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104C - 44 (RE)

1104C - E44 (RF)

1104A - 44 (RR)

NATURALLY ASPIRATED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

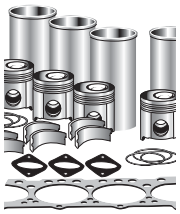
AGRICULTURAL

AGCO

3435S/F/V	(RE37990)
3435GE/GEV	(RE37990)
3425C	(RE38157)
471	(RE37827)
481	(RE37830)
5425	(RE37873/RE37917)
5435	(RE37831/RE37919)

JCB

Telehandler (RE51141)

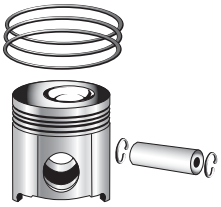


1) Engine O/H Kit

2) Basic Kit

1) POK480 Std.
POK481 0.50
POK482 1.00

2) PBK480 Std.
PBK481 0.50
PBK482 1.00

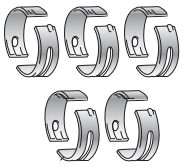


Piston & Ring Kit

P4115P011 Std.

P4115P012 0.50 mm
P4115P013 1.00 mm

4 Per Engine



Main Bearing Set

PU5MB0018 Std.

PU5MB0018A .010
PU5MB0018B .020
PU5MB0018C .030

Set of 5 Pairs



Con Rod Bearing Set (4)

PU5ME0013 Std.

PU5ME0013A .010
PU5ME0013B .020
PU5ME0013C .030

Set of 4 Pairs



Thrust Washer Set

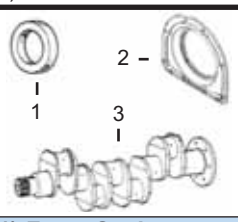
P31137551/61 Std.

P31137312/22 .007

Set of 2 Pairs

*** Piston Kit consists of:**

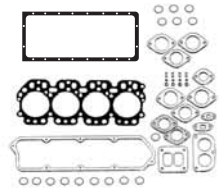
1) **1 X** P3135M105 Piston Std, **1 X** PUPRK0003 Ring Set Std.
2) **1 X** P3135M106 Piston 0.50 mm, **1 X** PUPRK0003B Ring Set 0.50 mm.
3) **1 X** P3135M107 Piston 1.00 mm, **1 X** PUPRK0003D Ring Set 1.00 mm.



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

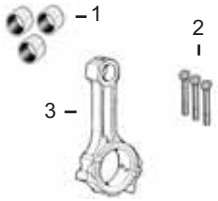
1) P2418F436
2) P2418F704
3) PZZ90239



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

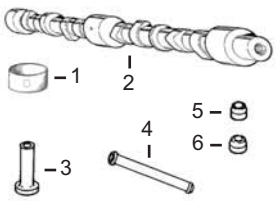
1) PU5LT0357
2) PU5LB0383
3) P3681E051
4) P3681A055
5) P3681K036



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod Kit

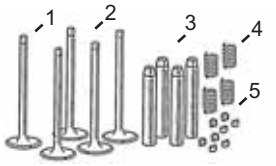
1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)



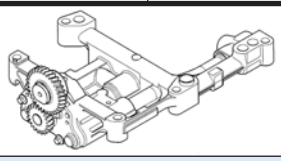
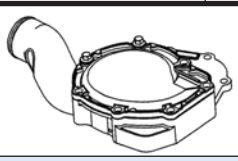
1) Bushing, Cam

2) Camshaft
3) Tappet
4) Pushrod
5) Seal, Exhaust Valve
6) Seal, Intake Valve

1) P3112D071 *X1*
2) P3141D211
3) P31434163
4) P31434307
5) P2418M517 *X4*
6) P2418M519 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *X4* 2) P3142A151 *X4*	3) P3313A012 *X8*	4) P3174A016 *X8*	5) P3142W004 *X16*

				
Oil Pump	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
P4132F071 (1)	P2641A203 (3)	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RF**.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104C - 44 (RE)

1104C - E44 (RF)

1104A - 44 (RR)

NATURALLY ASPIRATED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

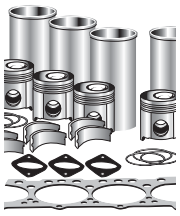
Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

INDUSTRIAL

GEHL
Skid Steer Loader (RE37911)

HYSTER
Forklift (RE38037)

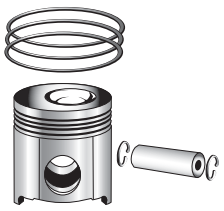


1) Engine O/H Kit

2) Basic Kit

1) POK483 Std.
POK484 0.50
POK485 1.00

2) PBK483 Std.
PBK484 0.50
PBK485 1.00

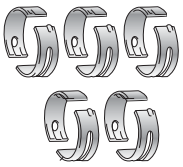


Piston & Ring Kit

P4115P011 Std.

P4115P012 0.50 mm
P4115P013 1.00 mm

4 Per Engine



Main Bearing Set

PU5MB0018 Std.

PU5MB0018A .010
PU5MB0018B .020
PU5MB0018C .030

Set of 5 Pairs



Con Rod Bearing Set (5)

PU5ME0013 Std.

PU5ME0013A .010
PU5ME0013B .020
PU5ME0013C .030

Set of 4 Pairs



Thrust Washer Set

P31137551/61 Std.

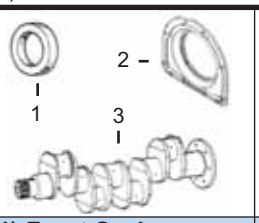
P31137312/22 .007

Set of 2 Pairs

*** Piston Kit consists of:**

1) **1 X** P3135M105 Piston Std,
2) **1 X** P3135M106 Piston 0.50 mm,
3) **1 X** P3135M107 Piston 1.00 mm,

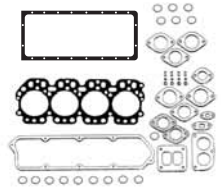
1 X PUPRK0003 Ring Set Std.
1 X PUPRK0003B Ring Set 0.50 mm.
1 X PUPRK0003D Ring Set 1.00 mm.



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

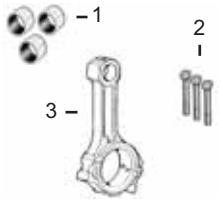
1) P2418F436
2) P2418F704
3) PZZ90239



1) Top Gasket Set
2) Bottom Gasket

3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

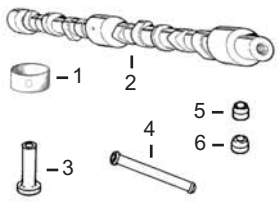
1) PU5LT0357
2) PU5LB0381 (4)
3) P3681E051
4) P3681A055
5) P3681K037



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod Kit

1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)

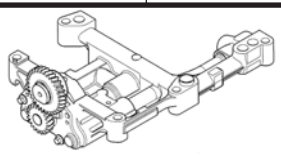


1) Bushing, Cam
2) Camshaft
3) Tappet
4) Pushrod
5) Seal, Exhaust Valve
6) Seal, Intake Valve

1) P3112D071 *X1*
2) P3141D211
3) P31434163
4) P31434307
5) P2418M517 *X4*
6) P2418M519 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *X4* 2) P3142A151 *X4*	3) P3313A012 *X8*	4) P3174A016 *X8*	5) P3142W004 *X16*



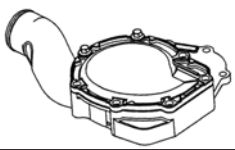
Oil Pump

P4132F071 (1)



Lift Pump

P2641A203 (3)



Water Pump

PU5MW0206



Water Pump Gasket

P3682A011



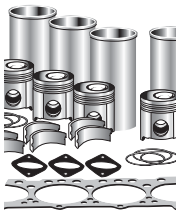
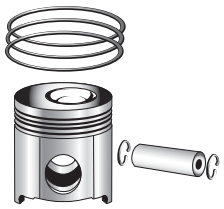
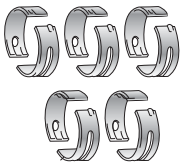
Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RF**.
(4) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application					
1104C - 44T (RG) **1104C - E44T (RH)** **1104C - E44TA (RK)** **1104A - 44T (RS)** **1104A - 44TA (RT)** **TURBOCHARGED**	**1) Engine O/H Kit** **2) Basic Kit** **1) POK418 Std.** **POK419 0.50** **POK420 1.00** **2) PBK418 Std.** **PBK419 0.50** **PBK420 1.00**	**Piston & Ring Kit** **P4115P015 Std.** **P4115P016 0.50 mm** **P4115P017 1.00 mm** **4 Per Engine**	**Main Bearing Set** PU5MB0018 **Std.** PU5MB0018A **.010** PU5MB0018B **.020** PU5MB0018C **.030** **Set of 5 Pairs**	**Con Rod Bearing Set (5)** PU5ME0013 **Std.** PU5ME0013A **.010** PU5ME0013B **.020** PU5ME0013C **.030** **Set of 4 Pairs**	**Thrust Washer Set** P31137551/61 **Std.** P31137312/22 **.007** **Set of 2 Pairs**

*** Piston Kit consists of:**

1) **1 X** P3135M111 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M116 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M117 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.

Bore: 4.133 in / 105.00 mm

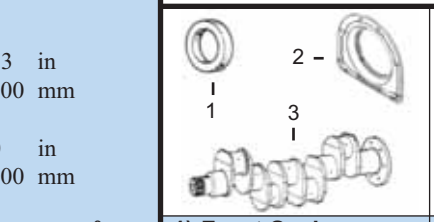
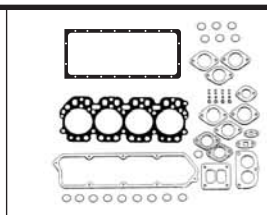
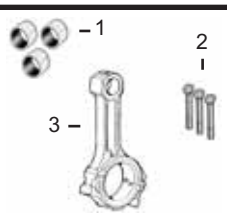
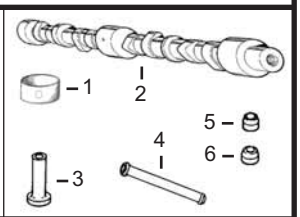
Stroke: 5.00 in / 127.00 mm

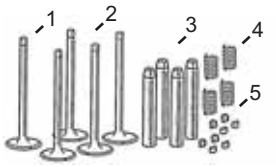
Displacement: 269 in^3 / 4.4 Liter

APPLICATIONS:

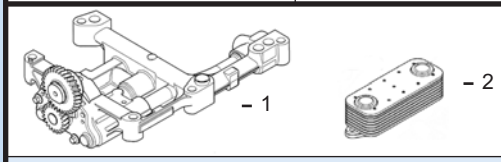
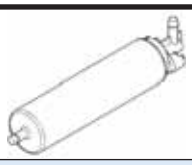
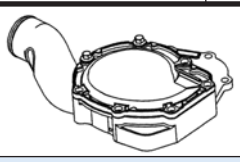
Telehandler (RG37985)
Bobcat V723 Forklift (RG)
Genset (RG51247)

PERKINS SABRE
44TW2GM (RJ30890)

			
1) Front Seal **2) Rear Seal** 3) Crankshaft Kit	**1) Top Gasket Set** **2) Bottom Gasket** 3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	**1) Bush, Con Rod** **2) Bolt, Con Rod** 3) Con Rod Kit	**1) Bushing, Cam** 2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 (4) 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 *x4* 2) P3212V003 *x8* 3) P4115C314 (2)	1) P3112D071 *x1* 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 *x4* 6) P2418M519 *x4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *x4* 2) P3142A151 *x4*	3) P3313A012 *x8*	4) P3174A016 *x8*	5) P3142W004 *x16*

				
1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) P4132F071 (1) 2) P2486A017	P2641A203 (3)	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RH** or **RK** or **RT**.
(4) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104C - 44T (RG)

1104C - 44TA (RJ)

1104C - E44TA (RK)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

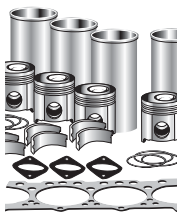
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

Telehandler (RG38084)
Tractors (RG38397)
JCB Telehandler (RJ51136)

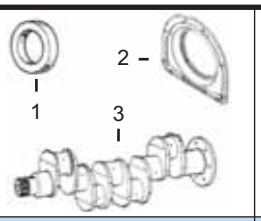
KZ Power
KZP-G110



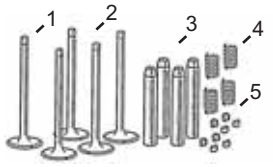
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (5)	Thrust Washer Set
2) Basic Kit	**P4115P015 Std.**	PU5MB0018 **Std.**	PU5ME0013 **Std.**	P31137551/61 **Std.**
1) POK421 Std. **POK422 0.50** **POK423 1.00**	**P4115P016 0.50 mm** **P4115P017 1.00 mm**	PU5MB0018A **.010** PU5MB0018B **.020** PU5MB0018C **.030**	PU5ME0013A **.010** PU5ME0013B **.020** PU5ME0013C **.030**	P31137312/22 **.007**
2) PBK421 Std. **PBK422 0.50** **PBK423 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

*** Piston Kit consists of:**

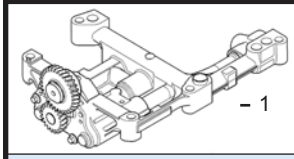
1) **1 X** P3135M111 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M116 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M117 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.



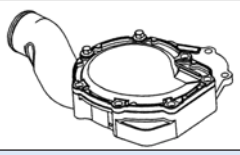
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0384 (4) 3) P3681E051 4) P3681A055 5) P3681K036	1) P3112A005 *x4* 2) P3212V003 *x8* 3) P4115C314 (2)	1) P3112D071 *x1* 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 *x4* 6) P2418M519 *x4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *x4* 2) P3142A151 *x4*	3) P3313A012 *x8*	4) P3174A016 *x8*	5) P3142W004 *x16*











1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) P4132F071 (1) 2) P2486A017	P2641A203 (3)	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RK**.
(4) Bottom gasket contains: 3681P047 Timing Cover Gasket and P3681K036 Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104A - 44T (RS)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

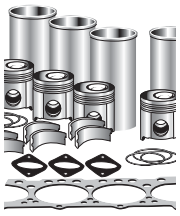
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

GENSETS

KZ Power
KZP-G72
KZP-G88

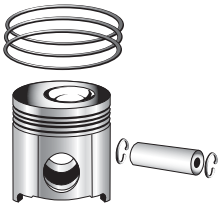


1) Engine O/H Kit

2) Basic Kit

1) POK424 Std.
POK425 0.50
POK426 1.00

2) PBK424 Std.
PBK425 0.50
PBK426 1.00

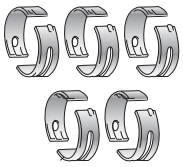


Piston & Ring Kit

P4115P025 Std.

P4115P026 0.50 mm
P4115P027 1.00 mm

4 Per Engine



Main Bearing Set

PU5MB0018 **Std.**

PU5MB0018A **.010**
PU5MB0018B **.020**
PU5MB0018C **.030**

Set of 5 Pairs



Con Rod Bearing Set (4)

PU5ME0013 **Std.**

PU5ME0013A **.010**
PU5ME0013B **.020**
PU5ME0013C **.030**

Set of 4 Pairs



Thrust Washer Set

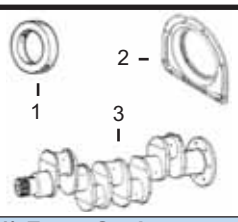
P31137551/61 **Std.**

P31137312/22 **.007**

Set of 2 Pairs

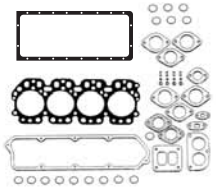
*** Piston Kit consists of:**

1) **1 X** P3135M121 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M122 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M123 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.



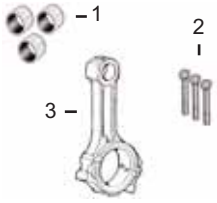
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239



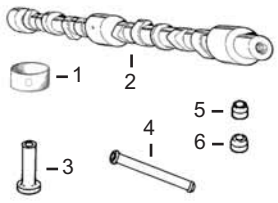
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0381 **(3)**
3) P3681E051
4) P3681A055
5) P3681K037



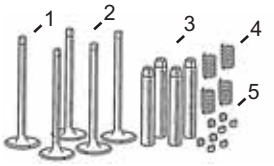
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 ***X4***
2) P3212V003 ***X8***
3) P4115C314 **(2)**

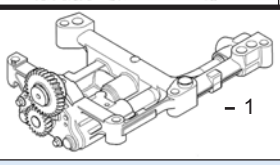


1) Bushing, Cam
2) Camshaft
3) Tappet
4) Pushrod
5) Seal, Exhaust Valve
6) Seal, Intake Valve

1) P3112D071 ***X1***
2) P3141D211
3) P31434163
4) P31434307
5) P2418M517 ***X4***
6) P2418M519 ***X4***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 ***X4*** 2) P3142A151 ***X4***	3) P3313A012 ***X8***	4) P3174A016 ***X8***	5) P3142W004 ***X16***



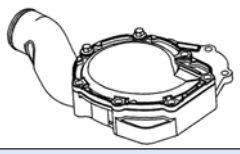
1) Oil Pump
2) Oil Cooler

1) P4132F071 **(1)**
2) P2486A017



Lift Pump

P2641A203



Water Pump

PU5MW0206



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104A - 44T (RS)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

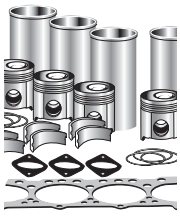
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

GENSETS

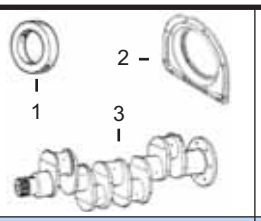
KZ Power
KZP-G72
KZP-G88



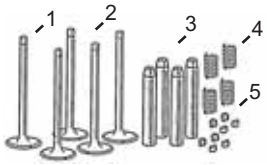
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (4)	Thrust Washer Set
2) Basic Kit	**P4115P025 Std.**	PU5MB0018 **Std.**	PU5ME0013 **Std.**	P31137551/61 **Std.**
1) POK427 Std. **POK428 0.50** **POK429 1.00**	**P4115P026 0.50 mm** **P4115P027 1.00 mm**	PU5MB0018A **.010** PU5MB0018B **.020** PU5MB0018C **.030**	PU5ME0013A **.010** PU5ME0013B **.020** PU5ME0013C **.030**	P31137312/22 **.007**
2) PBK427 Std. **PBK428 0.50** **PBK429 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

*** Piston Kit consists of:**

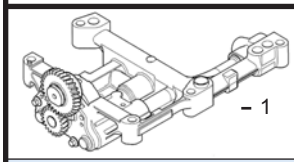
1) **1 X** P3135M121 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M122 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M123 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.

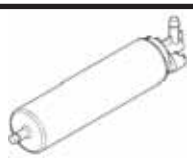


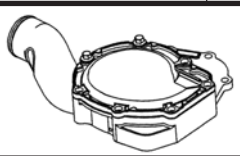
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 (3) 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 *x4* 2) P3212V003 *x8* 3) P4115C314 (2)	1) P3112D071 *x1* 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 *x4* 6) P2418M519 *x4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *x4* 2) P3142A151 *x4*	3) P3313A012 *x8*	4) P3174A016 *x8*	5) P3142W004 *x16*











1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) P4132F071 (1) 2) P2486A017	P2641A203	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104C - 44T (RG)

1104C - E44T (RH)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

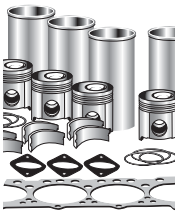
Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

AGRICULTURAL

AGCO

3455/F/GE/GEV	(RG37989)
3455S/F/GE/GEV	(RG37991)
491	(RG37828)
492	(RG37829/RG38179)
5445/6445	(RG37832/RG37915)
5445/6445	(RG38120/RG38121)
5435T	(RG38401/RG38402)
5460	(RG37833/RG51400)

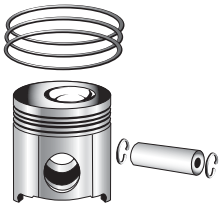


1) Engine O/H Kit

2) Basic Kit

1) POK486 Std.
POK487 0.50
POK488 1.00

2) PBK486 Std.
PBK487 0.50
PBK488 1.00

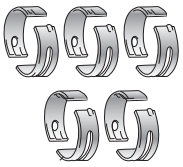


Piston & Ring Kit

P4115P015 Std.

P4115P016 0.50 mm
P4115P017 1.00 mm

4 Per Engine



Main Bearing Set

PU5MB0018 Std.
PU5MB0018A .010
PU5MB0018B .020
PU5MB0018C .030

Set of 5 Pairs



Con Rod Bearing Set (5)

PU5ME0013 Std.
PU5ME0013A .010
PU5ME0013B .020
PU5ME0013C .030

Set of 4 Pairs



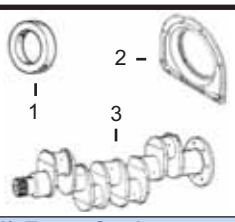
Thrust Washer Set

P31137551/61 Std.
P31137312/22 .007

Set of 2 Pairs

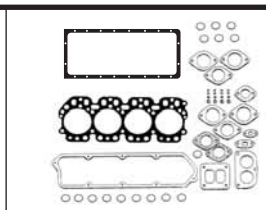
*** Piston Kit consists of:**

1) **1 X** P3135M111 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M116 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M117 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.



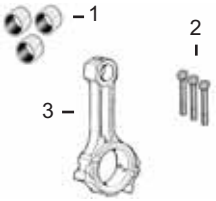
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239



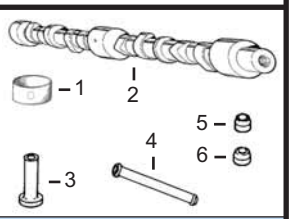
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0383 (4)
3) P3681E051
4) P3681A055
5) P3681K036



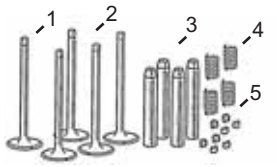
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)

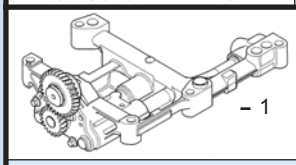


1) Bushing, Cam
2) Camshaft
3) Tappet
4) Pushrod
5) Seal, Exhaust Valve
6) Seal, Intake Valve

1) P3112D071 *X1*
2) P3141D211
3) P31434163
4) P31434307
5) P2418M517 *X4*
6) P2418M519 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *X4* 2) P3142A151 *X4*	3) P3313A012 *X8*	4) P3174A016 *X8*	5) P3142W004 *X16*





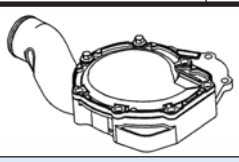
1) Oil Pump
2) Oil Cooler

1) P4132F071 (1)
2) P2486A017



Lift Pump

P2641A203 (3)



Water Pump

PU5MW0206



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RH**.
(4) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K036** Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104C - 44T (RG)

1104C - E44T (RH)

TURBOCHARGED

Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

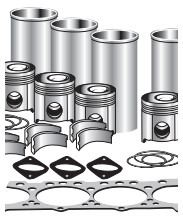
INDUSTRIAL

ASV POSI-TRACK
RC-100 Comp Track Loader
PT-100 Comp Track Loader

GEHL
7810 Skid Steer

PERKINS SABRE
4.4TGM (RG30881)

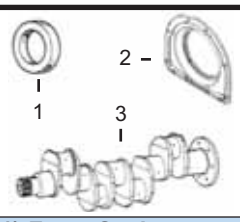
TEREX
PT-100G Posi-Track



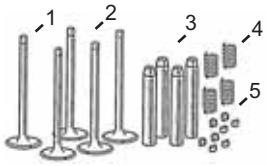
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (5)	Thrust Washer Set
2) Basic Kit	**P4115P015 Std.**	PU5MB0018 **Std.**	PU5ME0013 **Std.**	P31137551/61 **Std.**
1) POK491 Std. **POK492 0.50** **POK493 1.00**	**P4115P016 0.50 mm** **P4115P017 1.00 mm**	PU5MB0018A **.010** PU5MB0018B **.020** PU5MB0018C **.030**	PU5ME0013A **.010** PU5ME0013B **.020** PU5ME0013C **.030**	P31137312/22 **.007**
2) PBK491 Std. **PBK492 0.50** **PBK493 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

*** Piston Kit consists of:**

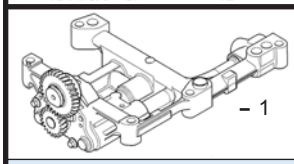
1) **1 X** P3135M111 Piston Std, **1 X** PUPRK0002 Ring Set Std.
2) **1 X** P3135M116 Piston 0.50 mm, **1 X** PUPRK0002B Ring Set 0.50 mm.
3) **1 X** P3135M117 Piston 1.00 mm, **1 X** PUPRK0002D Ring Set 1.00 mm.



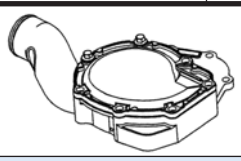
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Camshaft 3) Tappet 4) Pushrod 5) Seal, Exhaust Valve 6) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0381 (4) 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 *x4* 2) P3212V003 *x8* 3) P4115C314 (2)	1) P3112D071 *x1* 2) P3141D211 3) P31434163 4) P31434307 5) P2418M517 *x4* 6) P2418M519 *x4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK425	1) P3142H071 *x4* 2) P3142A151 *x4*	3) P3313A012 *x8*	4) P3174A016 *x8*	5) P3142W004 *x16*











1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) P4132F071 (1) 2) P2486A017	P2641A203 (3)	PU5MW0206	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Do Not Used with Builds **RH**.
(4) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(5) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104D - 44 (NK)

NATURALLY ASPIRATED

Tier 3

Bore: 4.133 in
105.00 mm

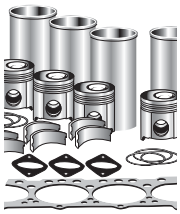
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

AG Tractors
Backhoe Loaders
Forklifts
Telehandlers

JLG
G5-18A

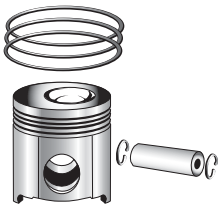


1) Engine O/H Kit

2) Basic Kit

1) POK500 Std.
POK501 0.50
POK502 1.00

2) PBK500 Std.
PBK501 0.50
PBK502 1.00

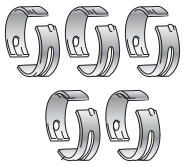


Piston & Ring Kit

PU5PR0063 Std.

PU5PR0063B 0.50
PU5PR0063D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 Std.

PU5MB0033A .010
PU5MB0033B .020
PU5MB0033C .030

Set of 5 Pairs



Con Rod Bearing Set (4)

PU5ME0034 Std.

PU5ME0034A .010
PU5ME0034B .020
PU5ME0034C .030

Set of 4 Pairs



Thrust Washer Set

P31137551/61 Std.

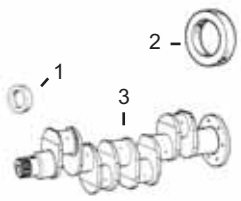
P31137312/22 .007

Set of 2 Pairs

*** Piston Kit consists of:**

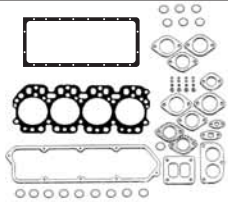
1) **1 X** P3135M165 Piston Std,
2) **1 X** P3135M166 Piston 0.50 mm,
3) **1 X** P3135M167 Piston 1.00 mm,

1 X PUPRK0003 Ring Set Std.
1 X PUPRK0003B Ring Set 0.50 mm.
1 X PUPRK0003D Ring Set 1.00 mm.



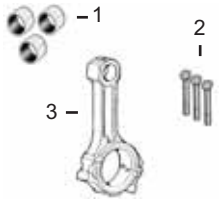
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239



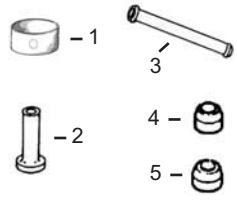
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0381 (3)
3) P3681E051
4) P3681A055
5) P3681K037



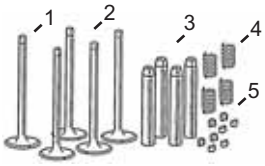
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 *X1*
2) P3142U061
3) P3142V011
4) P2418M517 *X4*
5) P2418M519 *X4*



Valve Train Kit

PVTK426

1) Valve, Intake
2) Valve, Exhaust

1) P3142H101 *X4*
2) P3142A171 *X4*

3) Guide, Valve (Intake & Exhaust)

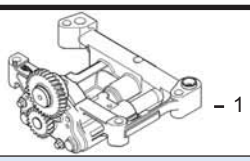
3) P3313A012 *X8*

4) Spring, Valve

4) P3174A031 *X8*

5) Lock, Valve

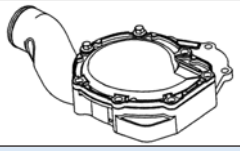
5) P2714A002 *X16*





1) Oil Pump
2) Oil Cooler

1) P4132F073 (1)
2) P2486A017



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104D - 44 (NK)

NATURALLY ASPIRATED

Tier 3

Bore: 4.133 in
105.00 mm

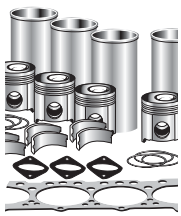
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

AG Tractors
Backhoe Loaders
Forklifts
Telehandlers

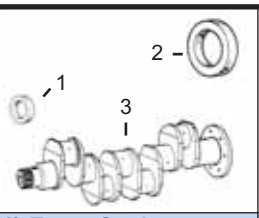
JLG
G5-18A



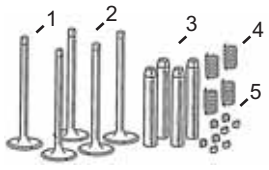
1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (4)	Thrust Washer Set
2) Basic Kit	**PU5PR0063 Std.**	PU5MB0033 **Std.**	PU5ME0034 **Std.**	P31137551/61 **Std.**
1) POK503 Std. **POK504 0.50** **POK505 1.00**	**PU5PR0063B 0.50** **PU5PR0063D 1.00**	PU5MB0033A **.010** PU5MB0033B **.020** PU5MB0033C **.030**	PU5ME0034A **.010** PU5ME0034B **.020** PU5ME0034C **.030**	P31137312/22 **.007**
2) PBK503 Std. **PBK504 0.50** **PBK505 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

*** Piston Kit consists of:**

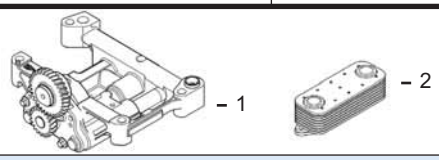
1) **1 X** P3135M165 Piston Std, **1 X** PUPRK0003 Ring Set Std.
2) **1 X** P3135M166 Piston 0.50 mm, **1 X** PUPRK0003B Ring Set 0.50 mm.
3) **1 X** P3135M167 Piston 1.00 mm, **1 X** PUPRK0003D Ring Set 1.00 mm.

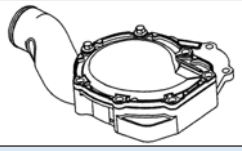


1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Head Gasket 4) Valve Cover Gasket 5) Oil Pan Gasket	3) Con Rod Kit	2) Tappet 3) Push Rod 4) Seal, Exhaust Valve 5) Seal, Intake Valve
1) P2418F436 2) P2418F704 3) PZZ90239	1) PU5LT0357 2) PU5LB0382 (3) 3) P3681E051 4) P3681A055 5) P3681K037	1) P3112A005 *x4* 2) P3212V003 *x8* 3) P4115C314 (2)	1) P3112D071 *x1* 2) P3142U061 3) P3142V011 4) P2418M517 *x4* 5) P2418M519 *x4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK426	1) P3142H101 *x4* 2) P3142A171 *x4*	3) P3313A012 *x8*	4) P3174A031 *x8*	5) P2714A002 *x16*









1) Oil Pump 2) Oil Cooler	Water Pump	Water Pump Gasket	Repair Sleeve
1) P4132F073 (1) 2) P2486A017	PU5MW0208	P3682A011	105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104D - 44 (NK)

NATURALLY ASPIRATED

Tier 3

Bore: 4.133 in
105.00 mm

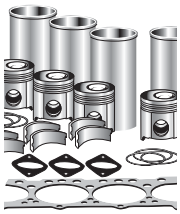
Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

AG Tractors
Backhoe Loaders
Forklifts
Telehandlers

JLG
G5-18A

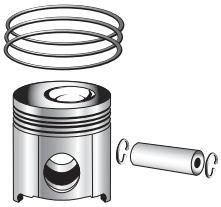


1) Engine O/H Kit

2) Basic Kit

1) POK506 Std.
POK507 0.50
POK508 1.00

2) PBK506 Std.
PBK507 0.50
PBK508 1.00

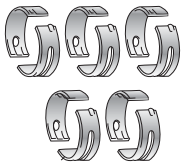


Piston & Ring Kit

PU5PR0063 Std.

PU5PR0063B 0.50
PU5PR0063D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 **Std.**

PU5MB0033A **.010**
PU5MB0033B **.020**
PU5MB0033C **.030**

Set of 5 Pairs



Con Rod Bearing Set (4)

PU5ME0034 **Std.**

PU5ME0034A **.010**
PU5ME0034B **.020**
PU5ME0034C **.030**

Set of 4 Pairs



Thrust Washer Set

P31137551/61 **Std.**

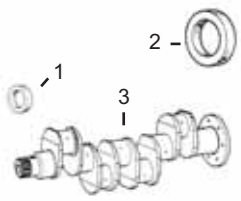
P31137312/22 **.007**

Set of 2 Pairs

*** Piston Kit consists of:**

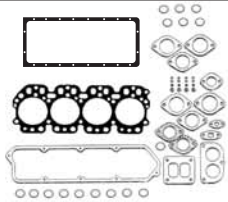
1) **1 X** P3135M165 Piston Std,
2) **1 X** P3135M166 Piston 0.50 mm,
3) **1 X** P3135M167 Piston 1.00 mm,

1 X PUPRK0003 Ring Set Std.
1 X PUPRK0003B Ring Set 0.50 mm.
1 X PUPRK0003D Ring Set 1.00 mm.



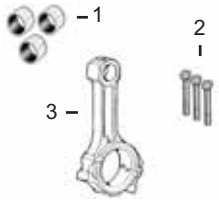
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239



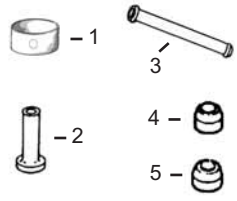
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0383 (3)
3) P3681E051
4) P3681A055
5) P3681K036



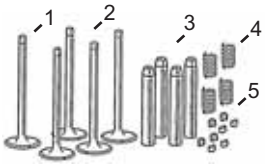
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *X4*
2) P3212V003 *X8*
3) P4115C314 (2)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 *X1*
2) P3142U061
3) P3142V011
4) P2418M517 *X4*
5) P2418M519 *X4*



Valve Train Kit

PVTK426

1) Valve, Intake
2) Valve, Exhaust

1) P3142H101 *X4*
2) P3142A171 *X4*

3) Guide, Valve (Intake & Exhaust)

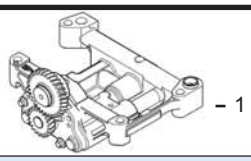
3) P3313A012 *X8*

4) Spring, Valve

4) P3174A031 *X8*

5) Lock, Valve

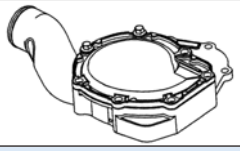
5) P2714A002 *X16*





1) Oil Pump
2) Oil Cooler

1) P4132F073 (1)
2) P2486A017



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104D - 44T (NL)

1104D - 44TA (NM)

TURBOCHARGED

Tier 3

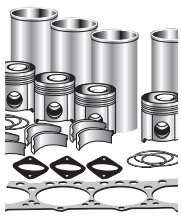
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

Backhoe Loaders
Excavators
Forklifts
MF5425
Telehandlers
Skid Steer Loaders
Pump Sets
Woodchippers
Wheel Loaders

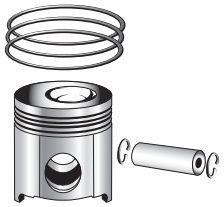


1) Engine O/H Kit

2) Basic Kit

1) POK509 Std.
POK510 0.50
POK511 1.00

2) PBK509 Std.
PBK510 0.50
PBK511 1.00

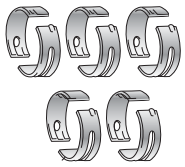


Piston & Ring Kit

PU5PR0062 Std.

PU5PR0062B 0.50
PU5PR0062D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 **Std.**

PU5MB0033A **.010**
PU5MB0033B **.020**
PU5MB0033C **.030**

Set of 5 Pairs



Con Rod Bearing Set (6)

PU5ME0034 **Std.**

PU5ME0034A **.010**
PU5ME0034B **.020**
PU5ME0034C **.030**

Set of 4 Pairs



Thrust Washer Set

P31137551/61 **Std.**

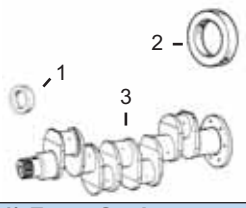
P31137312/22 **.007**

Set of 2 Pairs

*** Piston Kit consists of:**

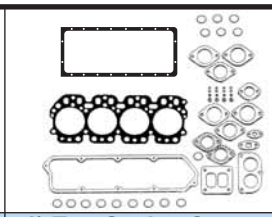
1) **1 X** P3135M161 Piston Std,
2) **1 X** P3135M162 Piston 0.50 mm,
3) **1 X** P3135M163 Piston 1.00 mm,

1 X PUPRK0005 Ring Set Std.
1 X PUPRK0005B Ring Set 0.50 mm.
1 X PUPRK0005D Ring Set 1.00 mm.



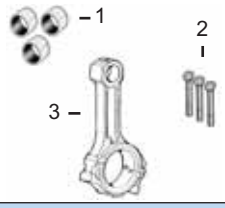
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239 **(3)**



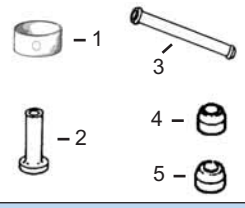
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0381 **(5)**
3) P3681E051
4) P3681A055
5) P3681K037



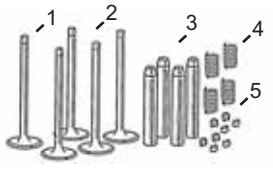
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 ***x4*** **(3)**
2) P3212V003 ***x8*** **(3)**
3) P4115C314 **(2) (3)**

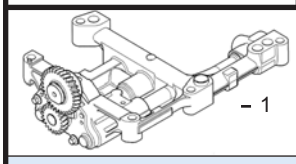


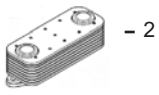
1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 ***x1***
2) P3142U061
3) P3142V011
4) P2418M517 ***x4***
5) P2418M519 ***x4***



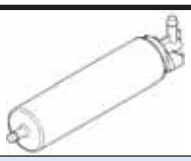
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK426	1) P3142H101 ***x4*** 2) P3142A171 ***x4***	3) P3313A012 ***x8***	4) P3174A031 ***x8***	5) P2714A002 ***x16***





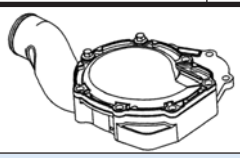
1) Oil Pump
2) Oil Cooler

1) P4132F071 **(1)**
2) P2486A017



Lift Pump

P2641A203 **(4)**



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) To ESN U056074T.
(4) Do Not Used with Build **NM**.
(5) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(6) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104D - 44T (NL)

1104D - 44TA (NM)

TURBOCHARGED

Tier 3

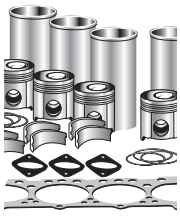
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

Backhoe Loaders
Excavators
Forklifts
MF5425
Telehandlers
Skid Steer Loaders
Pump Sets
Woodchippers
Wheel Loaders

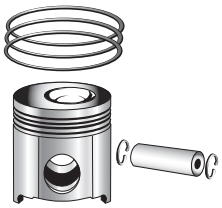


1) Engine O/H Kit

2) Basic Kit

1) POK512 Std.
POK513 0.50
POK514 1.00

2) PBK512 Std.
PBK513 0.50
PBK514 1.00

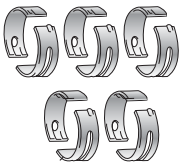


Piston & Ring Kit

PU5PR0062 Std.

PU5PR0062B 0.50
PU5PR0062D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 Std.

PU5MB0033A .010
PU5MB0033B .020
PU5MB0033C .030

Set of 5 Pairs



Con Rod Bearing Set (6)

PU5ME0034 Std.

PU5ME0034A .010
PU5ME0034B .020
PU5ME0034C .030

Set of 4 Pairs



Thrust Washer Set

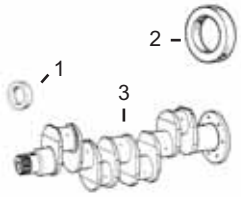
P31137551/61 Std.

P31137312/22 .007

Set of 2 Pairs

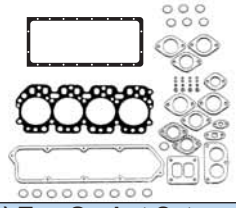
*** Piston Kit consists of:**

1) **1 X** P3135M161 Piston Std, **1 X** PUPRK0005 Ring Set Std.
2) **1 X** P3135M162 Piston 0.50 mm, **1 X** PUPRK0005B Ring Set 0.50 mm.
3) **1 X** P3135M163 Piston 1.00 mm, **1 X** PUPRK0005D Ring Set 1.00 mm.



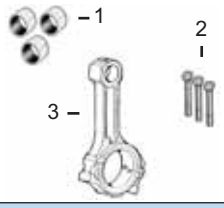
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239 (3)



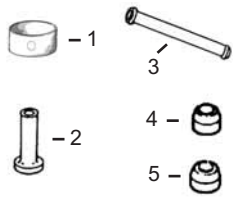
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0382 (5)
3) P3681E051
4) P3681A055
5) P3681K037



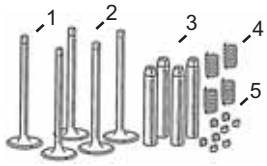
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *X4* (3)
2) P3212V003 *X8* (3)
3) P4115C314 (2) (3)

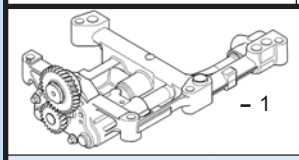


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 *X1*
2) P3142U061
3) P3142V011
4) P2418M517 *X4*
5) P2418M519 *X4*



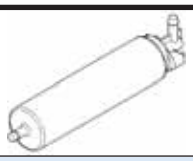
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK426	1) P3142H101 *X4* 2) P3142A171 *X4*	3) P3313A012 *X8*	4) P3174A031 *X8*	5) P2714A002 *X16*





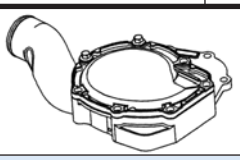
1) Oil Pump
2) Oil Cooler

1) P4132F071 (1)
2) P2486A017



Lift Pump

P2641A203 (4)



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) To ESN U056074T.
(4) Do Not Used with Build **NM**.
(5) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K037** Oil Pan Gasket.
(6) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

Engine & Equipment Application

1104D - 44T (NL)

1104D - 44TA (NM)

TURBOCHARGED

Tier 3

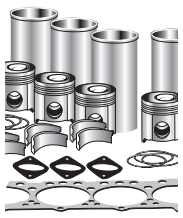
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

Backhoe Loaders
Excavators
Forklifts
MF5425
Telehandlers
Skid Steer Loaders
Pump Sets
Woodchippers
Wheel Loaders

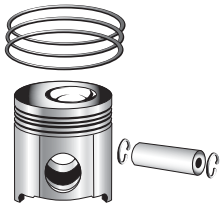


1) Engine O/H Kit

2) Basic Kit

1) POK515 Std.
POK516 0.50
POK517 1.00

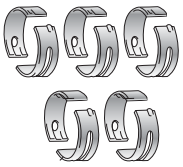
2) PBK515 Std.
PBK516 0.50
PBK517 1.00



Piston & Ring Kit

PU5PR0062 Std.
PU5PR0062B 0.50
PU5PR0062D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 Std.
PU5MB0033A .010
PU5MB0033B .020
PU5MB0033C .030

Set of 5 Pairs



Con Rod Bearing Set (6)

PU5ME0034 Std.
PU5ME0034A .010
PU5ME0034B .020
PU5ME0034C .030

Set of 4 Pairs



Thrust Washer Set

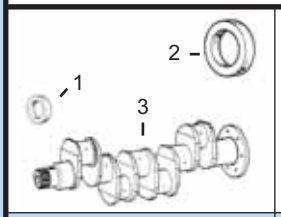
P31137551/61 Std.
P31137312/22 .007

Set of 2 Pairs

*** Piston Kit consists of:**

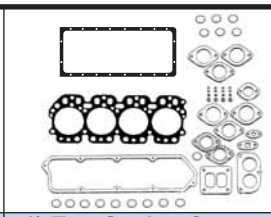
1) **1 X** P3135M161 Piston Std,
2) **1 X** P3135M162 Piston 0.50 mm,
3) **1 X** P3135M163 Piston 1.00 mm,

1 X PUPRK0005 Ring Set Std.
1 X PUPRK0005B Ring Set 0.50 mm.
1 X PUPRK0005D Ring Set 1.00 mm.



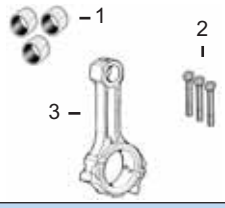
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239 (3)



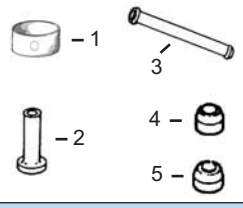
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0383 (5)
3) P3681E051
4) P3681A055
5) P3681K036



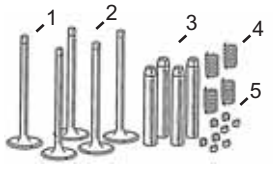
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *x4* (3)
2) P3212V003 *x8* (3)
3) P4115C314 (2) (3)

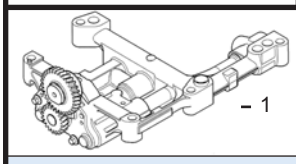


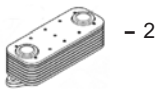
1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 *x1*
2) P3142U061
3) P3142V011
4) P2418M517 *x4*
5) P2418M519 *x4*



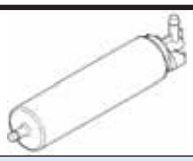
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK426	1) P3142H101 *x4* 2) P3142A171 *x4*	3) P3313A012 *x8*	4) P3174A031 *x8*	5) P2714A002 *x16*





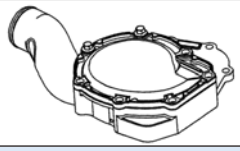
1) Oil Pump
2) Oil Cooler

1) P4132F071 (1)
2) P2486A017



Lift Pump

P2641A203 (4)



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) To ESN U056074T.
(4) Do Not Used with Build **NM**.
(5) Bottom gasket contains: **3681P046** Timing Cover Gasket and **P3681K036** Oil Pan Gasket.
(6) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

1104D - 44T (NL)

1104D - 44TA (NM)

TURBOCHARGED

Tier 3

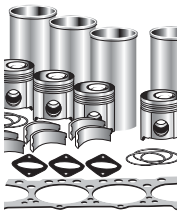
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

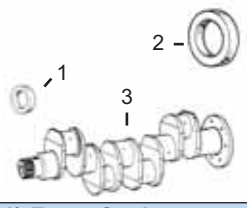
Backhoe Loaders
Excavators
Forklifts
MF5425
Telehandlers
Skid Steer Loaders
Pump Sets
Woodchippers
Wheel Loaders



1) Engine O/H Kit	Piston & Ring Kit	Main Bearing Set	Con Rod Bearing Set (6)	Thrust Washer Set
2) Basic Kit	**PU5PR0062 Std.**	PU5MB0033 **Std.**	PU5ME0034 **Std.**	P31137551/61 **Std.**
1) POK518 Std. **POK519 0.50** **POK520 1.00**	**PU5PR0062B 0.50** **PU5PR0062D 1.00**	PU5MB0033A **.010** PU5MB0033B **.020** PU5MB0033C **.030**	PU5ME0034A **.010** PU5ME0034B **.020** PU5ME0034C **.030**	P31137312/22 **.007**
2) PBK518 Std. **PBK519 0.50** **PBK520 1.00**	**4 Per Engine**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

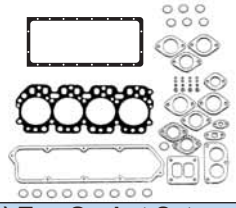
*** Piston Kit consists of:**

1) **1 X** P3135M161 Piston Std, **1 X** PUPRK0005 Ring Set Std.
2) **1 X** P3135M162 Piston 0.50 mm, **1 X** PUPRK0005B Ring Set 0.50 mm.
3) **1 X** P3135M163 Piston 1.00 mm, **1 X** PUPRK0005D Ring Set 1.00 mm.



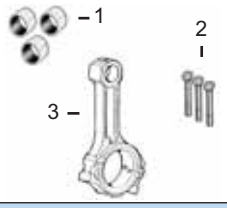
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239 (3)



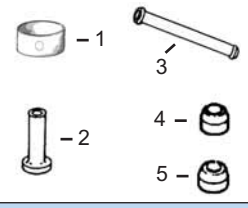
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Oil Pan Gasket

1) PU5LT0357
2) PU5LB0384 (5)
3) P3681E051
4) P3681A055
5) P3681K036



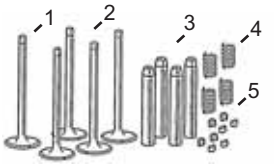
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 *X4* (3)
2) P3212V003 *X8* (3)
3) P4115C314 (2) (3)

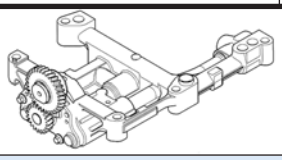


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P3112D071 *X1*
2) P3142U061
3) P3142V011
4) P2418M517 *X4*
5) P2418M519 *X4*



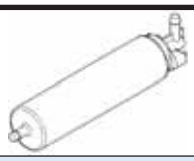
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
PVTK426	1) P3142H101 *X4* 2) P3142A171 *X4*	3) P3313A012 *X8*	4) P3174A031 *X8*	5) P2714A002 *X16*





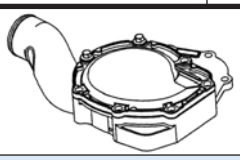
1) Oil Pump
2) Oil Cooler

1) P4132F071 (1)
2) P2486A017



Lift Pump

P2641A203 (4)



Water Pump

PU5MW0208



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) To ESN U056074T.
(4) Do Not Used with Build **NM**.
(5) Bottom gasket contains: **3681P047** Timing Cover Gasket and **P3681K036** Oil Pan Gasket.
(6) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

Engine & Equipment Application

1104D - E44T
(NH)

1104D - E44TA
(NJ)

TURBOCHARGED

Tier 3

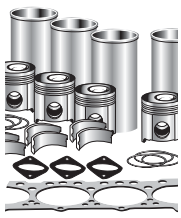
Bore: 4.133 in
105.00 mm

Stroke: 5.00 in
127.00 mm

Displacement: 269 in^3
4.4 Liter

APPLICATIONS:

AKSA
APD-EPAP65
APD-EPAP82
APD-EPAP100
APD-EPAP65S
APD-EPAP100S
ADP-ULP65
ADP-ULP82
ADP-ULP100
AT65
AT82
AT100

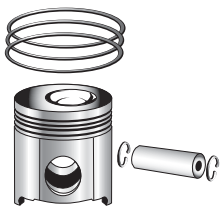


1) Engine O/H Kit

2) Basic Kit

1) POK521 Std.
POK522 0.50
POK523 1.00

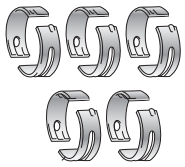
2) PBK521 Std.
PBK522 0.50
PBK523 1.00



Piston & Ring Kit

PU5PR0060 Std.
PU5PR0060B 0.50
PU5PR0060D 1.00

4 Per Engine



Main Bearing Set

PU5MB0033 **Std.**
PU5MB0033A **.010**
PU5MB0033B **.020**
PU5MB0033C **.030**

Set of 5 Pairs



Con Rod Bearing Set (3)

PU5ME0034 **Std.**
PU5ME0034A **.010**
PU5ME0034B **.020**
PU5ME0034C **.030**

Set of 4 Pairs



Thrust Washer Set

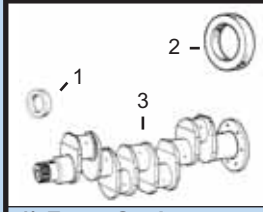
P31137551/61 **Std.**
P31137312/22 **.007**

Set of 2 Pairs

*** Piston Kit consists of:**

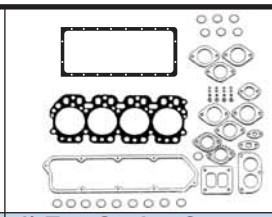
1) **1 X** P3135M151 Piston Std,
2) **1 X** P3135M152 Piston 0.50 mm,
3) **1 X** P3135M153 Piston 1.00 mm,

1 X PUPRK0005 Ring Set Std.
1 X PUPRK0005B Ring Set 0.50 mm.
1 X PUPRK0005D Ring Set 1.00 mm.



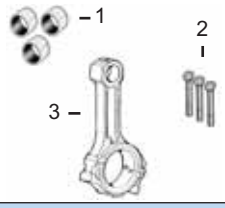
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F704
3) PZZ90239



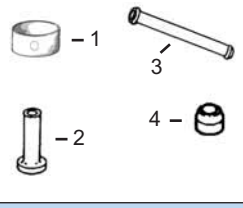
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Valve Cover Gasket
5) Timming Cover Gasket
6) Oil Pan Gasket

1) PU5LT1104D
2) PU5LB1104D
3) P3681E074
4) P3681A067
5) P3681P047
6) P3681K037



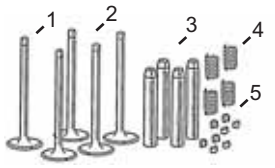
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod Kit

1) P3112A005 ***x4***
2) P3212V003 ***x8***
3) P4115C314 **(2)**

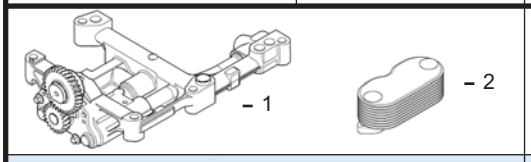


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Stem

1) P3112D071 ***x1***
2) P3142U061
3) P3142V011
4) P2418M522 ***x8***

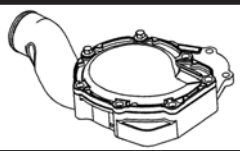


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Valve, Insert In 5) Valve, Insert Ex	6) Spring, Valve 7) Lock, Valve
PVTK442	1) P3142H091 ***x8*** 2) P3142A181 ***x8***	3) P3313A035 ***x16***	4) P3314A251 ***x8*** 5) P3314A261 ***x8***	4) P3174A028 ***x16*** 5) P3142W005 ***x32***



1) Oil Pump
2) Oil Cooler

1) P4132F071 **(1)**
2) P2486A015



Water Pump

PU5MW0204
PU5MW0205



Water Pump Gasket

P3682A011



Repair Sleeve

105RS

(1) Not to be used on engines with balancer units.
(2) Grade J, Color Coded Green.
(3) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional PERKINS® Products Refer to Page P105

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

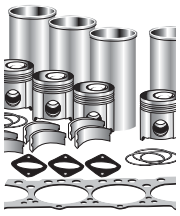
1106 - E60TA
(VK)

Bore: 3.9370 in
100.00 mm

APPLICATIONS:

MF AGRICULTURAL
5465/6465 (VK31483/VK31486)
5465/6465 (VK31505)
6360 (VK31483)
6370 (VK31484)
6380 (VK31485)
6475 (VK31484)
6480 (VK31485)
6475/7475 (VK31487/VK31503)
6475/7475 (VK31506)
6480/7480 (VK31507)
7465 (VK31486/VK31505)

McCORMICK
Wheeled Tractors
(VK 37779 to 37787)



1) Engine O/H Kit

2) Basic Engine Kit

1) POK694

2) PBK694



Piston-Liner Kit

PCK0162
Consists of:
a) P4115P001
b) PUPRK0001
c) P3135X062 (4)

6 Per Engine



Main Bearing Set

PU5MB0030 **Std.**

PU5MB0030A **.010**
PU5MB0030B **.020**
PU5MB0030C **.030**

Set of 7 Pairs



Con Rod Bearing Set

PU5ME0025 **Std.**

PU5ME0025A **.010**
PU5ME0025B **.020**
PU5ME0025C **.030**

Set of 6 Pairs

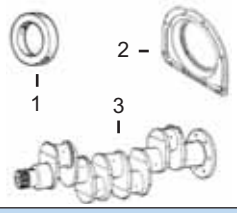


Thrust Washer Set

P31137551/61 **Std.**

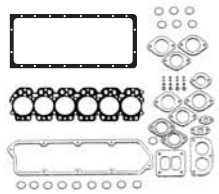
P31137312/22 **.007**

Set of 2 Pairs



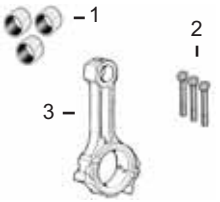
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) P2418F436
2) P2418F701
3) PZZ90228 (1)



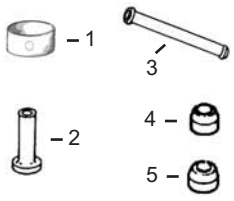
1) Top Gasket Set
2) Bottom Gasket
3) Head Gasket
4) Oil Pan Gasket

1) PU5LT0349
2) PU5LB0374 (2)
3) P3681E043
4) P3681M007



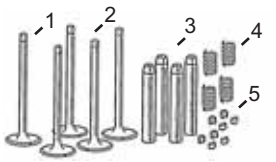
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) P3112A005 ***X6***
2) P3212V003 ***X12***
3) P4115C314 (3)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Exhaust Valve
5) Seal, Intake Valve

1) P31134132 ***X1***
2) P31434163
3) P31434307
4) P2418M505 ***X6***
5) P2418M506 ***X6***



Valve Train Kit

PVTK620

1) Valve, Intake
2) Valve, Exhaust

1) P3142L081 ***X6***
2) P3142D031 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

a) P3313A012 ***X6***
b) P3318A705 ***X6***

4) Spring, Valve
Inner & Outer

4) P3174P409 ***X12***

5) Lock, Valve

5) P3142W004 ***X24***



1) Oil Pump
2) Oil Cooler

1) P4132F067
2) P2486A993



Lift Pump

PULPK0036



Water Pump

PU5MW0196

(1) From ESN U090154J.
(2) For Builds (VK37779 to VK37787) use U5LB0370.
(3) Grade J, Color Coded Green.
(4) Semi-Finished liner available, **P3135X063**.

Miscellaneous Parts

Available from Maxiforce

Part Number	Description	Engines
P0410236	Starter Ring Gear 115 Teeth	All
P0410264	Starter Ring Gear 122 Teeth	All
P69042	Top Gasket Set	V8.540
P92508	Piston	V8.540
P165990A	Gasket, Rocker Cover	6.354 (Oliver Tractor)
P2557181	Bearing, Balancer Unit	4.236/4.248
P2557182	Bearing, Balancer Unit	4.236/4.248
P31134121	Bushing, Idler Gear	6.354
P31162121	Starter Ring Gear 126 Teeth	All
P31165461	Gear, Balancer Unit	4.236/4.248
P31171211	Gear, Crankshaft	6.354 Series **(1)**
P31171276	Shaft, Balancer Unit	4.236/4.248
P31171682	Gear, Crankshaft	6.354 Series **(2)**
P3117C071	Gear, Balancer Unit	4.236/1000 Series
P31358126	Cylinder Liner	V8.540
P31431385	Exhaust Valve	V8.540
P31431822	Intake Valve	V8.540
P32731127	Shaft, Balancer Unit	4.236/4.248
P33124428	Insert, Valve Seat, Exhaust	D3.152/D4.203/4.203.2
P33125121	Insert, Valve Seat	6.354
P33152153	Insert, Valve Seat	G4.236/C4.236/T4.236
P33152154	Insert, Valve Seat, Exhaust	6.354.2/6.354.4/T6.354.4
P33152155	Insert, Valve Seat, Intake	6.354.2/6.354.4/T6.354.4
P33246423	Hub, Idler Upper	6.354
P33431505	Valve Guide	V8.540
P36811428	Gasket, Rocker Cover	6.354/T6.354
P41115006	Gear, Idler Upper	6.354 Series **(3)**
P41115007	Gear, Idler Lower	6.354 Series **(3)**
P41115056	Gear, Idler Upper	6.354 Series **(4)**
P41115057	Gear, Idler Lower	6.354 Series **(4)**
P41158137	Ring Set	V8.540
P41371077	Relief Valve, Oil Pressure	4.236
P41371115	Relief Valve, Oil Pressure	6.354.1/6.354.2/T6.354.1/TC6.354.1
P41371158	Relief Valve, Oil Pressure	6.354.2
P41371193	Relief Valve, Oil Pressure	6.354.4
P41371194	Relief Valve, Oil Pressure	T6.354.4
P41371195	Relief Valve, Oil Pressure	6.354.4
PU5LB0027	Bottom Gasket Set	V8.540
PU5MK0073	Cylinder, Kit	V8.540

(1) Use on Original and Early Style Crankshaft.
(2) Use on Later Style Crankshaft Prefixed ZZ.
(3) For Early Blocks.
(4) For Late Blocks Prefixed ZZ.

Torque Information

				
ENGINE MODEL	**CRANKSHAFT**	**CONROD**	**TIMING GEARS**	**CAMSHAFT**
	Lb / Ft	**Lb / Ft**	**Lb / Ft**	**Lb / Ft**
3.152, D3.152, G3.152	110	45	50	21
4.108	85	42	36	21
4.203, 4.203.2, D4.203	115	45	21	21
4.212, 4.236, C4.236, G4.236, 4.248, 4.248.2	180 (1)	95 (1)	30	50
T4.236	180	95	30	50
6.354, T6.354, 6.354.2	180 (1)	95 (1)	(2) 50 (3) 65 (4) 24	50
6.354.4, T6.354.4	200	95 (1)	36	50
1004.40, 1006.60	196	92	33	58
1103, 1104, 1106	180	***Step 1*** Tighten to 13 ***Step 2*** Tighten to 52 ***Step 3*** Advance an additional 120 degrees	33	70

(1) Early Engines Have Different Torque Specifications.
(2) 7/16 ” Nuts.
(3) 1/2 ” Nuts.
(4) 1/8 ” Heavy Duty Nuts.

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Introduction to Caterpillar® Section

BORE DIAMETER mm / In	NUMBER OF CYLINDERS	ENGINE MODEL
84.000 / 3.3000	3	3013C
84.000 / 3.3000	4	3024/C
84.000 / 3.3000	4	3024C/T
84.000 / 3.3000	4	C2.2
98.476 / 3.8770	4	3054
98.476 / 3.8770	3	3054T
100.000 / 3.9370	4	3054
100.000 / 3.9370	4	3054T
100.000 / 3.9370	6	3056
100.000 / 3.9370	6	3056T
100.000 / 3.9370	6	3056E
103.000 / 4.0550	4	3054B
105.000 / 4.1330	3	C3.3
105.000 / 4.1330	3	C3.3T
105.000 / 4.1330	4	3054C/E
105.000 / 4.1330	4	C4.4T/TA

Maxiforce Engine Kit Composition for Caterpillar® Engine Applications

BOK: **Engine Overhaul Kits Include:** Piston Liner Kits or Piston Ring Kits, Main and Connecting Rod Bearings, Thrust Washer, Front and Rear Crankshaft Seals, Top and Bottom Gasket Sets, Connecting Rod Bushing, Bolts and Nuts, Camshaft Bushing and Complete Valve Train Kit.

BBK: **Basic Engine Kits Include:** All components in the **overhaul kit** with the exception of the valve train kit.

BVTK: **Valve Train Kits Include:** All valves, springs, guides, keepers and stem seals (Where Offered).

Crankshaft Kits Include: The crankshaft, main and con rod bearings and thrust washer sets.

NB: Should engine kits be required without engine bearings and thrust washers, please specify by adding the **NB** suffix on kit part number. i.e: BOK ___ **NB**.

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MAXIFORCE® DIESELENGINEPARTS

Engine models covered by this User's Guide

MODEL	ASPIRATION	ENGINE SERIAL NUMBER	PAGE
3013C (C1.5)	Naturally Aspirated	G3P, 313, C5N, G7N, E1M	B01
3013C (C1.7)	Naturally Aspirated		B02
3024/C	Naturally Aspirated	E2M1-UP, 4RF, GGA	B03
3024C/T	Turbocharged	E6K1-UP, GGA1-UP, CSD	B04
3054	Naturally Aspirated	5PC1-UP	B05
3054	Naturally Aspirated	7BC1-UP	B05
3054T	Turbocharged	5PC1-UP	B06
3054T	Turbocharged	7BC1-UP	B06
3054	Naturally Aspirated	6FK1-UP	B07
3054T	Turbocharged	6FK1-UP	B08
3054T	Turbocharged	7BJ1-UP	B09
3054T	Turbocharged	7BJ1-UP	B10
3054 *	Turbocharged or Naturally Aspirated	5YS1-13498	B11
3054 *	Turbocharged or Naturally Aspirated	5YS13499-UP	B12
3054B *	Naturally Aspirated	5MF1-10869	B13
3054B *	Naturally Aspirated	5MF10870-UP	B14
3054C/E	Naturally Aspirated	3341-UP	B15
3054C/E	Naturally Aspirated	3341-UP	B16
3054C/E	Turbocharged	3341-UP	B17
3054C/E	Turbocharged	3341-UP	B18
3054C/E	Naturally Aspirated	CRS1-UP, G4D, D1K, E4M	B19
3054C/E	Turbocharged	CRX107-UP, BLN, FPD, 304, J1Z	B20
3056	Naturally Aspirated	1ML1-UP	B21
3056T	Turbocharged	1ML1-UP	B22
3056T	Turbocharged		B23
3056	Turbocharged or Naturally Aspirated	7MS1-2098	B24
3056	Turbocharged or Naturally Aspirated	7MS2099-UP	B25
3056E	Turbocharged	CPT1-843	B26
3056E	Turbocharged	CPT844-UP	B27
C2.2	Naturally Aspirated		B28
C2.2	Turbocharged		B29
C2.2	Turbocharged Aftercooled		B30
C3.3	Naturally Aspirated	N3C, NCC, N3X, X3B	B31
C3.3	Naturally Aspirated	E3J1-UP	B32
C3.3T	Turbocharged	E3J1-UP	B33
C3.3T	Turbocharged	E3J1-UP	B34
C4.4T/TA	Turbocharged		B35
C4.4T/TA	Turbocharged		B36
C4.4T/TA	Turbocharged		B37

* Industrial and vehicular applications.

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
BACKHOE LOADERS				
414E	3054C/E	ELB	176-3180	B20
414E	3054C/E	ELB	194-9477	B20
414E	3054C/E	ELB	234-3060	B20
414E	3054C/E	ELB	273-3610	B20
414E	3054C/E	ELB	273-3611	B20
414E	3054C/E	ELB	323-5725	B20
414E	3054C/E	ELB	325-5121	B20
416B	3054	8SG1-11999	7E7702	B07
416B	3054	8SG1-11999	7E9558	B07
416B	3054	8SG1-11999	7E9559	B07
416B	3054	8SG1-11999	7E9650	B07
416B	3054T	8SG1-11999	7E7702	B08
416B	3054T	8SG1-11999	7E9558	B08
416B	3054T	8SG1-11999	7E9559	B08
416B	3054T	8SG1-11999	7E9650	B08
416B	3054	8SG12000-14798	7E7702	B07
416B	3054	8ZK1-5999	7E7702	B07
416B	3054	8ZK6000-11031	7E7702	B07
416B	3054T	8ZK6000-11031	7E9559	B08
416B	3054	8ZK06000-11031	7E7702	B07
416C	3054	1WR1-8115	106-5001	B07
416C	3054T	1WR8116-10736	106-5002	B08
416C	3054T	5YJ1-2299		B08
416C	3054	1WR8116-10736	106-5001	B07
416C	3054T	1XR1-2183	106-5002	B08
416C	3054T	1XR1-2183	153-5364	B08
416C	3054	1XR1-2183	106-5001	B07
416D	3054	CXP1-939	188-0883	B11
416D	3054	CXP1-939	188-0883	B12
416D	3054	CXP940-UP	187-8016	B11
416D	3054	CXP940-UP	187-8016	B12
416D	3054C/E	CXP940-UP	234-3058	B19
416D	3054C/E	B2D	234-3058	B19
416D	3054C/E	B2D	234-3059	B19
416D	3054	BFP1-5177	188-0883	B11
416D	3054	BFP1-5177	188-0883	B12
416D	3054	BFP5178-12899	187-8016	B11
416D	3054	BFP5178-12899	187-8016	B12
416D	3054	BFP12900-UP	188-0883	B11
416D	3054	BFP12900-UP	188-0883	B12
416D	3054	BGJ1-522	188-0883	B11
416D	3054	BGJ1-522	204-5372	B11
416D	3054	BGJ1-522	188-0883	B12
416D	3054	BGJ1-522	204-5372	B12
416D	3054	BGJ523-UP	187-8016	B11
416D	3054	BGJ523-UP	204-5371	B11
416D	3054	BGJ523-UP	187-8016	B12
416D	3054	BGJ523-UP	204-5371	B12
416D	3054	BKG1-1299	187-8016	B11
416D	3054	BKG1-1299	204-5371	B11

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
BACKHOE LOADERS continued				
416D	3054	BKG1-1299	187-8016	B12
416D	3054	BKG1-1299	204-5371	B12
416D	3054	BKG1300-UP	188-0883	B11
416D	3054	BKG1300-UP	188-0883	B12
416D	3054	CXP940-UP	187-8016	B11
416D	3054	CXP940-UP	187-8016	B12
416E	3054C/E	CBD	273-3610	B20
416E	3054C/E	CBD	323-5725	B20
416E	3054C/E	SHA	320-8414	B17
416E	3054C/E	SHA	323-5725	B17
420D	3054	FDP1-7198	187-8014	B11
420D	3054	FDP1-7198	187-8014	B12
420D	3054	FDP7199-18399	187-8014	B11
420D	3054	FDP7199-18399	187-8014	B12
420D	3054C/E	FDP-184000-UP	234-3060	B20
420D	3054C/E	FDP-184000-UP	273-3611	B20
420D	3054	BKC1-501	187-8014	B11
420D	3054	BKC1-501	204-5369	B11
420D	3054	BKC1-501	187-8014	B12
420D	3054	BKC1-501	204-5369	B12
420D	3054	BKC5002-UP	187-8014	B11
420D	3054	BKC5002-UP	204-5369	B11
420D	3054	BKC5002-UP	187-8014	B12
420D	3054	BKC5002-UP	204-5369	B12
420D	3054	BLN1-4543	187-8014	B11
420D	3054	BLN1-4543	187-8014	B12
420D	3054	BLN4544-10299	187-8014	B11
420D	3054	BLN4544-10299	187-8014	B12
420D	3054C/E	BLN10300-UP	234-3060	B20
420D	3054C/E	BLN10300-UP	273-3611	B20
420D	3054	BMC1-610	187-8014	B11
420D	3054	BMC1-610	204-5369	B11
420D	3054	BMC1-610	187-8014	B12
420D	3054	BMC1-610	204-5369	B12
420D	3054	BMC611-UP	187-8014	B11
420D	3054	BMC611-UP	204-5369	B11
420D	3054	BMC611-UP	187-8014	B12
420D	3054	BMC611-UP	204-5369	B12
420D	3054C/E	HLS	273-3610	B20
420D	3054C/E	HLS	320-8414	B20
420D	3054C/E	HLS	323-5725	B20
420D	3054C/E	HLS	325-5121	B20
420D	3054C/E	KMW	273-3610	B20
420D	3054C/E	KMW	320-8414	B20
420D	3054C/E	KMW	323-5725	B20
420D	3054C/E	KMW	325-5121	B20
422E	3054C/E	HBE	319-2121	B17
422E	3054C/E	HBE	227-4805	B17
424D	3054C/E	CJZ	234-5039	B19
424D	3054C/E	RXA	234-3059	B19

MAXIFORCE® DIESELENGINEPARTS

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
BACKHOE LOADERS continued				
426B	3054T	5YJ1-2299		B08
426B	3054T	5YJ2300-UP		B08
426B	3054T	6KL1-1199		B08
426B	3054T	6KL1200-UP	7E9559	B08
426C	3054	1CR1-863	122-8804	B11
426C	3054	1CR1-863	122-8804	B12
426C	3054	1CR864-1085	122-8805	B11
426C	3054	1CR864-1085	122-8805	B12
426C	3054	1CR864-1085	158-6066	B11
426C	3054	1CR864-1085	158-6066	B12
426C	3054	1ER1-863	106-5002	B11
426C	3054	1ER1-863	106-5002	B12
426C	3054	1ER864-899	122-8805	B11
426C	3054	1ER864-899	122-8805	B12
426C	3054	1ER900-UP	122-8805	B11
426C	3054	1ER900-UP	122-8805	B12
426C	3054	1MR1-955	122-8804	B11
426C	3054	1MR1-955	122-8804	B12
426C	3054	1MR956-1179	122-8805	B11
426C	3054	1MR956-1179	122-8805	B12
426C	3054	1NR1-953	122-8804	B11
426C	3054	1NR1-953	122-8804	B12
426C	3054	1NR954-1049	122-8805	B11
426C	3054	1NR954-1049	122-8805	B12
426C	3054	1NR1050-UP	122-8805	B11
426C	3054	1NR1050-UP	122-8805	B12
426C	3054	1YR1-1516	122-8804	B11
426C	3054	1YR1-1516	122-8804	B12
426C	3054	1YR1517-2191	122-8805	B11
426C	3054	1YR1517-2191	122-8805	B12
426C	3054	1NR1-953	122-8804	B11
426C	3054	1NR1-953	122-8804	B12
426C	3054	1NR954-1049	122-8805	B11
426C	3054	1NR954-1049	122-8805	B12
426C	3054	1NR1050-UP	122-8805	B11
426C	3054	1NR1050-UP	122-8805	B12
426C	3054	1ZR1-925	122-8804	B11
426C	3054	1ZR1-925	122-8804	B12
426C	3054	1ZR926-999	122-8805	B11
426C	3054	1ZR926-999	122-8805	B12
426C	3054	1ZR1000-1017	122-8805	B11
426C	3054	1ZR1000-1017	122-8805	B12
426C	3054	6XN1-3615	122-8804	B11
426C	3054	6XN1-3615	122-8804	B12
426C	3054	6XN3616-4980	122-8805	B11
426C	3054	6XN3616-4980	122-8805	B12
426C	3054T	7WN1-938	106-5002	B08
426C	3054T	7WN1-938	153-5364	B08
426C	3054	7WN939-1099	122-8805	B11
426C	3054	7WN939-1099	122-8805	B12

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
BACKHOE LOADERS continued				
426C	3054	7WN1100-1110	122-8805	B11
426C	3054	7WN1100-1110	122-8805	B12
428B	3054T	7EJ1-5999		B08
428B	3054	7EJ6000-9446	7E7702	B07
428C	3054	2CR1-16211	106-5001	B07
428C	3054	2CR16212-19309	106-5001	B07
428C	3054	2CR19310-UP	122-8803	B11
428C	3054T	8RN1-4088	106-5002	B08
428C	3054T	8RN4089-4989	106-5002	B08
428C	3054T	8RN4990-UP	106-5001	B08
428D	3054	BNS1-1117	188-0883	B11
428D	3054	BNS1-1117	204-5372	B11
428D	3054	BNS1-1117	188-0883	B12
428D	3054	BNS1-1117	204-5372	B12
428D	3054	BNS1118-1851	188-0883	B11
428D	3054	BNS1118-1851	204-5372	B11
428D	3054	BNS1118-1851	188-0883	B12
428D	3054	BNS1118-1851	204-5372	B12
428D	3054C/E	BXC	234-3059	B17
428D	3054C/E	BXC	234-3061	B20
428D	3054C/E	MBM	234-3059	B17
428D	3054C/E	MBM	234-3061	B20
428D	3054	BLL1-650	188-0883	B11
428D	3054	BLL1-650	204-5372	B11
428D	3054	BLL1-650	188-0883	B12
428D	3054	BLL1-650	204-5372	B12
428D	3054	BLL651-712	188-0883	B11
428D	3054	BLL651-712	204-5372	B11
428D	3054	BLL651-712	188-0883	B12
428D	3054	BLL651-712	204-5372	B12
428D	3054	BMT1-1617	188-0883	B11
428D	3054	BMT1-1617	204-5372	B11
428D	3054	BMT1-1617	188-0883	B12
428D	3054	BMT1-1617	204-5372	B12
428D	3054	BMT1618-3227	188-0883	B11
428D	3054	BMT1618-3227	204-5372	B11
428D	3054	BMT1618-3227	188-0883	B12
428D	3054	BMT1618-3227	204-5372	B12
428D	3054	BNB1-699	188-0883	B11
428D	3054	BNB1-699	204-5372	B11
428D	3054	BNB1-699	188-0883	B12
428D	3054	BNB1-699	204-5372	B12
428D	3054	BNB700-UP	188-0883	B11
428D	3054	BNB700-UP	204-5372	B11
428D	3054	BNB700-UP	188-0883	B12
428D	3054	BNB700-UP	204-5372	B12
428E	3054C/E	SNL	227-4805	B17
428E	3054C/E	SNL	245-6842	B20
428E	3054C/E	SNL	319-2121	B17

TEL 305.592.7027 800.414.2095, FAX 305.592.0244

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
COMPACT TRACK LOADERS				
PT100	3054C/E	CRX107-UP		B20
RC-50	3024/C	E2M1-UP, 4RF		B03
RC-60	3024C/T	E6K1-UP		B04
RC-85	3054C/E	3341-UP		B15
RC-85	3054C/E	3341-UP		B16
RC-100	3054C/E	3341-UP		B17
RC-100	3054C/E	3341-UP		B18
HYDRAULIC EXCAVATORS				
307	3054	2WM1-1000		B07
312B/L	3054	6SW	130-4666	B11
312B/L	3054	6SW	130-4666	B12
312B/L	3054	9FS	130-4666	B11
312B/L	3054	9FS	130-4666	B12
312B/L	3054	9NW	130-4666	B11
312B/L	3054	9NW	130-4666	B12
312B/L	3054	BNN	139-4666	B11
312B/L	3054	BNN	139-4666	B12
312B/L	3054	CBT	189-6184	B11
312B/L	3054	CBT	189-6184	B12
313C	3054C/E	H2A	188-5099	B17
315B	3054	5SW	130-6340	B11
315B	3054	5SW	130-6340	B12
315C	3054C/E	BDM1-2000	188-5100	B17
315C	3054C/E	BDM2001-UP	188-5100	B17
315C	3054C/E	H2B	188-5100	B17
315L	3054C/E	ANF	176-3172	B17
317	3054T	4MM	105-7971	B08
317N	3054T	4MM	105-7971	B08
317	3054T	9SR	105-7971	B08
317N	3054T	9SR	105-7971	B08
M312	3054T	6BL	107-9664	B08
M312	3054T	6TL1-409	107-9665	B09
M312	3054	6TL-410-UP	165-7604	B11
M313C	3054C/E	BDR1-2000	188-5099	B17
M313C	3054C/E	BDR2001-UP	188-5099	B17
M315	3054T	3ZM	105-7971	B08
M315	3054T	7ML1-859	107-9665	B09
M315	3054T	7ML1-859	107-9665	B10
M315	3054T	7ML860-UP	165-7604	B09
M315	3054T	7ML860-UP	165-7604	B10
M316C	3056E	H2C	188-5097	B27
M316C	3056E	BDX1-2000	188-5097	B27
M316C	3056E	BDX2001-UP	188-5097	B26
M316C	3056E	BDX2001-UP	188-5097	B27
M318C	3056E	BCZ1-2000	188-5096	B27
M318C	3056E	BCZ2001-UP	188-5096	B27
M318C	3056E	BEB1-2000	188-5096	B26
M318C	3056E	BEB1-2000	188-5096	B27
M318C	3056E	BEB2001-UP	188-5096	B26
M318C	3056E	BEB2001-UP	188-5096	B27

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
HYDRAULIC EXCAVATORS continued				
M318C	3056E	H2D	188-5096	B26
M318C	3056E	H2D	188-5096	B27
M318C	3056E	H2F	188-5096	B26
M318C	3056E	H2F	188-5096	B27
M322C	3056E	BDK1-2000	188-5098	B26
M322C	3056E	BDK1-2000	188-5098	B27
M322C	3056E	BDK2001-UP	188-5098	B26
M322C	3056E	BDK2001-UP	188-5098	B27
M322C	3056E	BDY1-2000	188-5098	B26
M322C	3056E	BDY1-2000	188-5098	B27
M322C	3056E	BDY2001-UP	188-5098	B26
M322C	3056E	BDY2001-UP	188-5098	B27
M322C	3056E	H2G	188-5098	B27
OLYMPIAN				
GE105SP1	3056T			B23
GEP7.5SP2	3013C			B01
GEP9.5-2	3013C			B01
GEP11.6SP6	3013C			B01
GEP11.5SP-2	3013C			B01
GEP11SP-2	3013C			B01
GEP11SP-4	3013C			B01
GEP13.5-2	3013C			B01
GEP13.5-4	3013C			B01
GEP13.5-6	3013C			B01
GEP14-6SP6	3024/C			B03
GEP14SP-2	3024/C			B03
GEP14SP4	3024/C			B03
GEP16.5-6SP6	3024/C			B03
GEP16SP-2	3024/C			B03
GEP16SP-4	3024/C			B03
GEP18-2	3024/C			B03
GEP18-4	3024/C			B03
GEP22-2	3024/C			B03
GEP22-4	3024/C			B03
GEP22-6	3024/C			B03
GEP26SP1	C3.3			B31
GEP26SP1	C3.3			B32
GEP26SP2	C3.3			B31
GEP26SP2	C3.3			B32
GEP26SP3	C3.3			B31
GEP26SP3	C3.3			B32
GEP26SP4	C3.3			B31
GEP26SP4	C3.3			B32
GEP30-1	C3.3			B31
GEP30-1	C3.3			B32
GEP30-2	C3.3			B31
GEP30-2	C3.3			B32
GEP30SP-3	3054			B07
GEP33-1	C3.3			B31
GEP33-1	C3.3			B32

MAXIFORCE® DIESELENGINEPARTS

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
OLYMPIAN continued				
GEP33-2	C3.3			B31
GEP33-2	C3.3			B32
GEP33-3	C3.3			B31
GEP33-3	C3.3			B32
GEP33-4	C3.3			B31
GEP33-4	C3.3			B32
GEP35SP-3	3054			B07
GEP35SP-7	C3.3			B31
GEP35SP-7	C3.3			B32
GEP35SP11	C3.3			B31
GEP35SP11	C3.3			B32
GEP35SP2	C3.3T			B34
GEP35SP4	C3.3T			B34
GEP35SP5	C3.3T			B34
GEP35SP9	C3.3T			B34
GEP35SP-3	3054			B07
GEP40SP-3	3054			B07
GEP44-2	C3.3T			B34
GEP44-3	3054			B07
GEP44-5	C3.3T			B34
GEP44-7	3054C/E			B19
GEP44-9	3054C/E			B19
GEP44SP2	3054C/E			B17
GEP44SP2	3054C/E			B18
GEP44SP2	3054C/E			B20
GEP50-3	3054			B07
GEP50-4	C3.3T			B34
GEP50-5	C3.3T			B34
GEP50-7	C3.3T			B34
GEP50SP2	3054C/E			B17
GEP50SP2	3054C/E			B18
GEP50SP2	3054C/E			B20
GEP50SP4	3054C/E			B17
GEP50SP4	3054C/E			B18
GEP50SP4	3054C/E			B20
GEP50SP5	C3.3T			B34
GEP50SP9	C3.3T			B34
GEP55-1	C3.3T			B34
GEP55-2	3054C/E			B17
GEP55-2	3054C/E			B18
GEP55-2	3054C/E			B20
GEP55-3	C3.3T			B34
GEP55-4	3054C/E			B17
GEP55-4	3054C/E			B18
GEP55-4	3054C/E			B20
GEP64SP2	3054C/E			B17
GEP64SP2	3054C/E			B18
GEP64SP2	3054C/E			B20
GEP65-2	3054C/E			B17
GEP65-2	3054C/E			B18

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
OLYMPIAN continued				
GEP65-2	3054C/E			B20
GEP65-4	3054C/E			B17
GEP65-4	3054C/E			B18
GEP65-4	3054C/E			B20
GEP65-5	C3.3T			B34
GEP65-9	C3.3T			B34
GEP80SP2	3054C/E			B17
GEP80SP2	3054C/E			B18
GEP80SP2	3054C/E			B20
GEP80SP4	3054C/E			B17
GEP80SP4	3054C/E			B18
GEP80SP4	3054C/E			B20
GEP88-2	3054C/E			B17
GEP88-2	3054C/E			B18
GEP88-2	3054C/E			B20
GEP88-3	3054C/E			B17
GEP88-3	3054C/E			B18
GEP88-3	3054C/E			B20
GEP88-4	3054C/E			B17
GEP88-4	3054C/E			B18
GEP88-4	3054C/E			B20
GEP88SP1	3056T			B22
GEP105SP1	3056T			B23
GEP110	3056T			B22
GEP110-1	3054C/E			B17
GEP110-1	3054C/E			B18
GEP110-1	3054C/E			B20
GEP110-2	3054C/E			B17
GEP110-2	3054C/E			B18
GEP110-2	3054C/E			B20
GEP110-4	3054C/E			B17
GEP110-4	3054C/E			B18
GEP110-4	3054C/E			B20
GEP150	3056T			B23
GEP150-1	3056T			B23
GEP165	3056T			B23
GEP165-1	3056T			B23
GEP188-1	3056T			B23
GEPH17SP	3013C			B01
GEPH24SP	3024/C			B03
GEPH28SP	3024/C			B03
GEPH30-2	3024/C			B03
GEPH35-2	3024/C			B03
GEPK22-2	3013C			B01
SKID STEER				
216B	3024/C			B03
216B	3024C/T			B04
216B2	3024/C			B03
216B2	3024C/T			B04
216B3	3024/C			B03

TEL 305.592.7027 800.414.2095, FAX 305.592.0244

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
SKID STEER continued				
216B3	3024C/T			B04
226B	3024/C			B03
226B	3024C/T			B04
226B2	3024/C			B03
226B2	3024C/T			B04
226B3	3024/C			B03
226B3	3024C/T			B04
232B	3024/C			B03
232B	3024C/T			B04
232B2	3024/C			B03
232B2	3024C/T			B04
242B	3024/C			B03
242B	3024C/T			B04
242B2	3024C/T			B04
247B	3024C/T			B04
247B2	3024C/T			B04
257B2	3024C/T			B04
TELEHANDLERS				
TH62	3054	3LN, 4TM1-6013	107-3778	B07
TH62	3054	3LN, 4TM1-6013	118-2942	B07
TH63	3054	3JN	118-2942	B11
TH63	3054	3JN	118-2942	B12
TH63	3054	3JN	130-6342	B11
TH63	3054	3JN	130-6342	B12
TH82	3054	3KN	118-2942	B11
TH82	3054	3KN	118-2942	B12
TH82	3054	3KN	107-3778	B11
TH82	3054	3KN	107-3778	B12
TH83	3054	3NN, 3RN1-6014	118-2942	B11
TH83	3054	3NN, 3RN1-6014	118-2942	B12
TH83	3054	3NN, 3RN1-6014	130-6342	B11
TH83	3054	3NN, 3RN1-6014	130-6342	B12
TH103	3054	3PN1-3026	130-6342	B11
TH103	3054	3PN1-3026	130-6342	B12
TH210	3054C/E	MHT	230-3483	B15
TH215	3054C/E	MHS	230-3483	B15
TH220B	3054C/E	SLA	176-3180	B20
TH220B	3054C/E	SLA	194-9477	B20
TH330B	3054C/E	SLB	176-3180	B20
TH330B	3054C/E	SLB	194-9477	B20
TH350B	3054	SLD	178-9011	B11
TH350B	3054	SLD	178-9011	B12
TH460B	3054C/E	SLF	176-3180	B17
TH460B	3054C/E	SLF	178-9011	B17
TH460B	3054C/E	SLF	194-9477	B17
TH560B	3054C/E	SLG	176-3180	B17
TH560B	3054C/E	SLG	194-9477	B17
TH580B	3054C/E	SLH	176-3180	B17
TH580B	3054C/E	SLH	194-9477	B17

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
VIBRATORY COMPACTORS				
AP600	3054	B2B, B2S		B11
AP600	3054	B2B, B2S		B12
AP650B	3054	5GN, 9DN, A7P		B11
AP650B	3054	5GN, 9DN, A7P		B12
AP655C	3054	AYP, B9G, CDG		B11
AP655C	3054	AYP, B9G, CDG		B12
AP800C	3054	1PM, 9AL		B11
AP800C	3054	1PM, 9AL		B12
AP800D	3054	A5P, B4G		B11
AP800D	3054	A5P, B4G		B12
CB214E	C1.5			B01
CB224E	C1.5			B01
CB225E	C1.5			B01
CB234E	C1.5			B01
CB235E	C1.5			B01
CB334E	C1.5			B01
CB335E	C1.5			B01
CB434B	3054	6AL1-87, 7YN	100-4276	B07
CB434C	3054	4MW	130-4799	B11
CB434C	3054	4MW	130-4799	B12
CB434D	3054	4DN	100-4276	B07
CB434D	3054	4DN	100-4276	B11
CB434D	3054	4DN	100-4276	B12
CB434D	3054	4DN	130-4799	B07
CB434D	3054	4DN	130-4799	B11
CB434D	3054	4DN	130-4799	B12
CB534B	3054	4JL	100-8184	B11
CB534B	3054	4JL	100-8184	B12
CB534C	3054	1WS	130-4800	B11
CB534C	3054	1WS	130-4800	B12
CB534D	3054	5HN, C2B, C4B		B11
CB534D	3054	C8M, FEA, FGH		B11
CB534D	3054	5HN, C2B, C4B		B12
CB534D	3054	C8M, FEA, FGH		B12
CB535B	3054	3AR		B11
CB535B	3054	3AR		B12
CB544	3054	8FM		B11
CB544	3054	8FM		B12
CB545	3054	2FS		B11
CB545	3054	2FS		B12
CB564D	3054	C6D, D4M		B11
CB564D	3054	C6D, D4M		B12
CP323C	3054	1EN		B11
CP323C	3054	1EN		B12
CS323C	3054	6DM		B11
CS323C	3054	6DM		B12
CS/CP323E	3054	EAS		B11
CS/CP323E	3054	EAS		B12
CS423E	3054	AST, BWG		B11
CS423E	3054	AST, BWG		B12

MAXIFORCE® DIESELENGINEPARTS

Caterpillar® Equipment Application Chart

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
VIBRATORY COMPACTORS continued				
CS431C	3054	9XL, 3WZ, 6EN		B11
CS431C	3054	9XL, 3WZ, 6EN		B12
CS433C	3054	3TM, 1FS		B11
CS433C	3054	3TM, 1FS		B12
CS583E	3056E			B26
CP323C	3054			B11
CP323C	3054			B12
CS/CP433C	3054	1XZ, 2JM		B11
CS/CP433C	3054	1ZN, 5BZ		B11
CS/CP433C	3054	2TN, BTY, 4JZ		B11
CS/CP433C	3054	1XZ, 2JM		B12
CS/CP433C	3054	1ZN, 5BZ		B12
CS/CP433C	3054	2TN, BTY, 4JZ		B12
CS/CP433E	3054	CFK, CFP, CYE		B11
CS/CP433E	3054	DAC, BTT		B11
CS/CP433E	3054	CFK, CFP, CYE		B12
CS/CP433E	3054	DAC, BTT		B12
CS/CP533E	3054	ASL, ASM		B11
CS/CP533E	3054	ASN, ASR		B11
CS/CP533E	3054	BZE, BZG		B11
CS/CP533E	3054	DAK, DAM		B11
CS/CP533E	3054	ASL, ASM		B12
CS/CP533E	3054	ASN, ASR		B12
CS/CP533E	3054	BZE, BZG		B12
CS/CP533E	3054	DAK, DAM		B12
CS/CP563E	3054	ASA, BWE		B11
CS/CP563E	3054	CNG, CNT,		B11
CS/CP563E	3054	ASA, BWE		B12
CS/CP563E	3054	CNG, CNT,		B12
CS/CP573E	3054	ASZ, ASY		B11
CS/CP573E	3054	CEB, CNN		B11
CS/CP573E	3054	ASZ, ASY		B12
CS/CP573E	3054	CEB, CNN		B12
CS/CP583E	3054	CNX, DAJ		B11
CS/CP583E	3054	CNX, DAJ		B12
CS/CP663E	3054	AEF, AFL		B11
CS/CP663E	3054	ASB, ASF		B11
CS/CP663E	3054	DAF, DAG, ASB		B11
CS/CP663E	3054	AEF, AFL		B12
CS/CP663E	3054	ASB, ASF		B12
CS/CP663E	3054	DAF, DAG, ASB		B12
CS683E	3054	AGR, ASG, DAD		B11
CS683E	3054	AGR, ASG, DAD		B12
PF/PS300C	3054	6HM00001-00412		B11
PF/PS300C	3054	6HM00001-00412		B12
PF/PS300C	3054	6HM00413-UP		B11
PF/PS300C	3054	6HM00413-UP		B12
PF/PS300C	3054	PFB1-UP		B11
PF/PS300C	3054	PFB1-UP		B12
PF/PS300C	3054	PFS1-UP		B11

EQUIPMENT MODEL	ENGINE	MACHINE SERIAL #	ENGINE AR#	PAGE
VIBRATORY COMPACTORS continued				
PF/PS300C	3054	PFS1-UP		B12
PF290B	3054	1XW00001-UP		B11
PF290B	3054	1XW00001-UP		B12
PF300B	3054	4PN00001-01025		B11
PF300B	3054	4PN00001-01025		B12
PS150B	3054	3XR00001-UP		B11
PS150B	3054	3XR00001-UP		B12
PS150C	3054	FPS00001-UP		B11
PS150C	3054	FPS00001-UP		B12
PS200B	3054	5JR00001-UP		B11
PS200B	3054	5JR00001-UP		B12
PS360B	3054	9LS00001-UP		B11
PS360B	3054	9LS00001-UP		B12
PS360C	3054	PJF00001-UP		B11
PS360C	3054	PJF00001-UP		B12
WHEEL LOADERS				
902	3024/C	7ES00430		B03
908	3054	8BS	139-9582	B11
908	3054	8BS	212-3603	B11
908	3054	8BS	139-9582	B12
908	3054	8BS	212-3603	B12
914G	3054T	7ZM1-439	107-4860	B09
914G	3054T	7ZM1-439	203-0762	B09
914G	3054T	7ZM1-439	203-0762	B09
914G	3054T	7ZM440-UP	203-0762	B09
914G	3054T	9WN1-3012		B09
914G	3054T	PDF		B09
924G	3056			B24
924G	3056			B25
930G	3056E			B26
930G	3056E			B27
IT14G	3054T	1WN1-659	107-4860	B09
IT14G	3054T	1WN1-659	203-0762	B09
IT14G	3054T	1WN660-UP	107-4860	B09
IT14G	3054T	1WN660-UP	203-0762	B09
IT14G	3054T	8ZM1-331	107-4860	B09
IT14G	3054T	8ZM1-331	203-0762	B09
IT14G	3054T	8ZM332-UP	203-0762	B09
IT14G	3054T	FWL	356-9742	B09
IT14G	3054C/E	FWL	179-1795	B17
IT14G	3054C/E	FWL	318-5435	B17
IT14G	3054C/E	FWL	318-5436	B17
IT14G	3054C/E	FWL	323-6954	B17
M313C	3054C/E	BDR1-2000	188-5099	B17
M313C	3054C/E	BDR2001-UP	188-5099	B17

TEL 305.592.7027 800.414.2095, FAX 305.592.0244

Engine & Equipment Application

CATERPILLAR 3013C C1.5

NATURALLY ASPIRATED

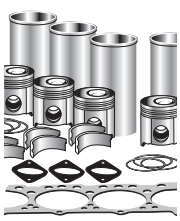
3 Cyl

ESN: G3P, 313, C5N, G7N, E1M

Bore:	3.3	in
	84.00	mm
Stroke:	3.5	in
	90.00	mm
Displacement:	91	in^3
	1.496	Liter

ENGINE ARRANGEMENT

214-4665	230-9551
216-6387	230-9552
225-0574	234-1828
225-0576	241-8612
225-0579	242-3134
225-0583	242-3139
225-0584	242-3140
225-0595	242-6041
225-0604	242-6048
226-8701	257-8333
228-0879	264-4473

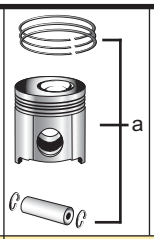


1) Engine O/H Kit

2) Basic Engine Kit

1) BOK525 Std.
BOK526 0.50

2) BBK525 Std.
BBK526 0.50



a) Piston Kit

b) Ring Set

a) B293-5884 Std.
B293-5884B 0.50

b) B154-0943 Std.
B154-0943B 0.50

3 Per Engine



Main Bearing Set

B156-6977 Std.

B161-2628 .010
B161-2629 .020

Set of 3 Pairs

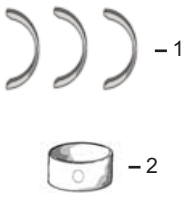


Con Rod Bearing Set

B156-6978 Std.

B161-2630 .010
B161-2631 .020

Set of 3 Pairs

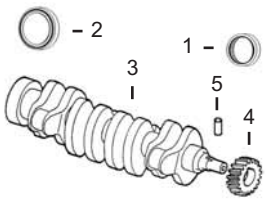


1) Thrust Washer
2) Crank Bushing

1) B154-1231 Std.

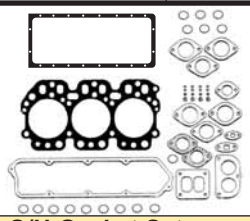
Set of 2 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



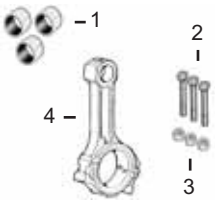
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) B154-1675
2) B156-6973
3) B235-6967
4) B308-1853
5) B153-5518



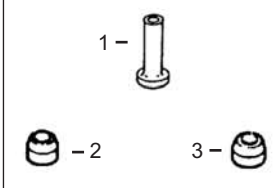
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Oil Pan Gasket

1) B155-8078
2) B218-8537 (1)
3) B215-2604



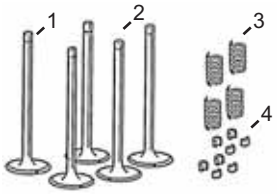
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X3*
2) B154-0870 *X6*
3) B154-0871 *X6*
4) B156-6980



1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X3*
3) B153-5554 *X3*



Valve Train Kit

BVTK559

1) Valve, Intake
2) Valve, Exhaust

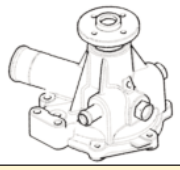
1) B156-6985 *X3*
2) B156-6986 *X3*

3) Spring, Valve

3) B190-3748 *X6*

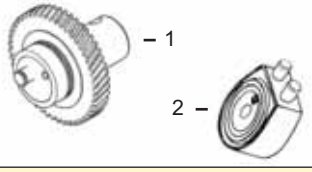
4) Lock, Valve

4) B153-5556 *X12*



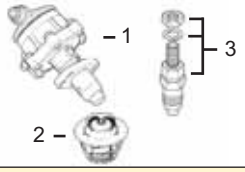
Water Pump

B311-0053



1) Oil Pump
2) Oil Cooler

1) B297-3050
2) B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) 1.4mm Thickness.

For Additional CATERPILLAR® Products Refer to Page B38

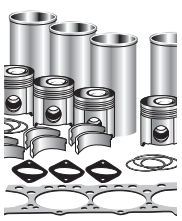
Engine & Equipment Application

CATERPILLAR 3013C C1.7

NATURALLY ASPIRATED

3 Cyl

Bore:	3.3	in
	84.00	mm
Stroke:	3.5	in
	90.00	mm
Displacement:	91	in^3
	1.496	Liter

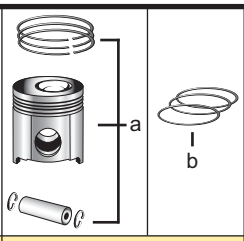


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK540** Std.
BOK541 0.50

2) **BBK540** Std.
BBK541 0.50



a) Piston Kit

b) Ring Set

a) **B297-3080** Std.
B297-3080B 0.50

b) **B154-0943** Std.
B154-0943B 0.50

3 Per Engine



Main Bearing Set

B156-6977 Std.

B161-2628 .010
B161-2629 .020

Set of 3 Pairs

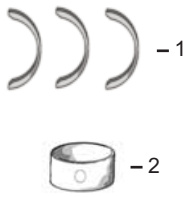


Con Rod Bearing Set

B156-6978 Std.

B161-2630 .010
B161-2631 .020

Set of 3 Pairs

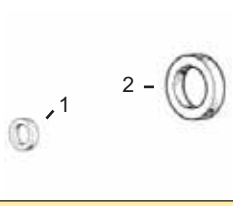


1) Thrust Washer
2) Crank Bushing

1) B154-1231 Std.

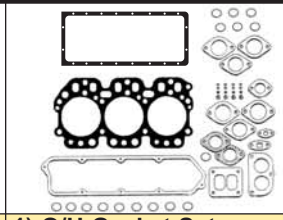
Set of 2 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



1) Front Seal
2) Rear Seal

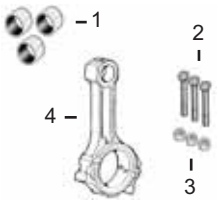
1) B154-1675
2) B154-0178



1) O/H Gasket Set

2) Cylinder Head Gasket
3) Oil Pan Gasket

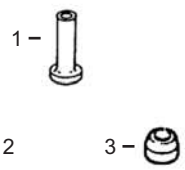
1) B155-8078
2) B218-8537 (1)
3) B215-2604



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

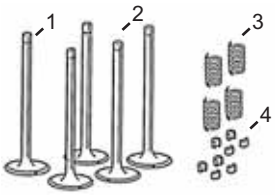
4) Con Rod

1) B154-0869 *X3*
2) B154-0870 *X6*
3) B154-0871 *X6*
4) B154-0867

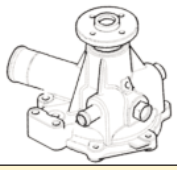


1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X3*
3) B153-5554 *X3*

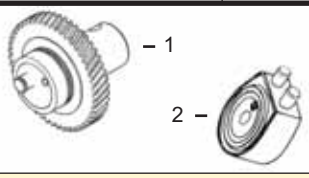


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
BVTK560	1) B156-6985 *X3* 2) B156-6986 *X3*	3) B153-5558 *X6*	4) B153-5556 *X12*



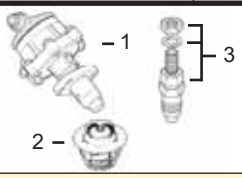
Water Pump

B311-0053



1) Oil Pump
2) Oil Cooler

1) B297-3050
2) B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) 1.4mm Thickness.

Engine & Equipment Application

CATERPILLAR 3024/C

NATURALLY ASPIRATED

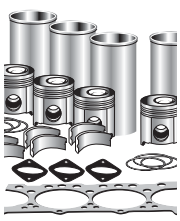
4 Cyl

ESN: E2M1-UP, 4RF, GGA05643

Bore:	3.3	in
	84.00	mm
Stroke:	3.9	in
	100.00	mm
Displacement:	134	in^3
	2.216	Liter

ENGINE ARRANGEMENT

177-3269	199-2653
177-3272	199-9054
177-3273	213-3185
177-3274	214-2362
177-3275	216-6386
177-3278	224-5881
177-3287	225-0581
177-3297	233-6648
177-3298	266-4535
177-3306	310-5635
179-1808	318-1708
183-1335	348-2243
196-8763	425-7997
197-7203	

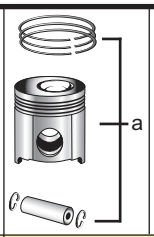


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK536** Std.
BOK537 0.50

2) **BBK536** Std.
BBK537 0.50

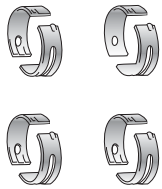


a) Piston Kit
b) Ring Set

a) **B297-3080** Std.
B297-3080B 0.50

b) **B154-0943** Std.
B154-0943B 0.50

4 Per Engine



Main Bearing Set

B154-1203 Std.

B161-7163 .010
B161-7164 .020

Set of 4 Pairs

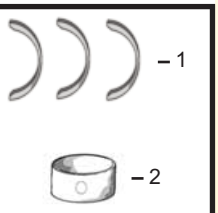


Con Rod Bearing Set

B146-7808 Std.

B307-9855 .010
B307-9856 .020

Set of 4 Pairs

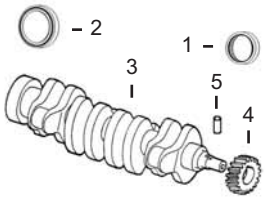


1) Thrust Washer
2) Crank Bushing

1) B154-1230/31 Std.

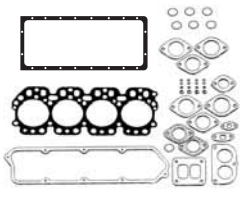
Set of 3 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



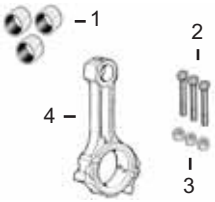
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) B154-1675
2) B154-0178
3) B308-1852 (1)
4) B308-1853
5) B153-5518



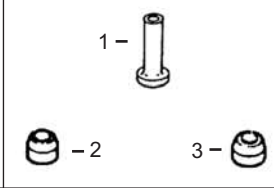
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) B164-8900
2) B311-1685
3) B217-2752
4) B233-0695
5) B215-2605



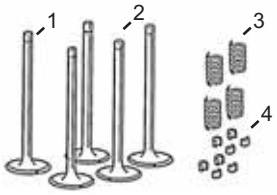
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X4*
2) B154-0870 *X8*
3) B154-0871 *X8*
4) B154-0867

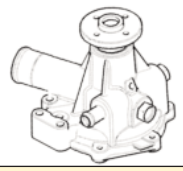


1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X4*
3) B153-5554 *X4*

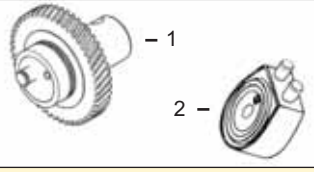


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
BVTK558	1) B154-0888 *X4* 2) B154-0889 *X4*	3) B153-5558 *X8*	4) B153-5556 *X16*



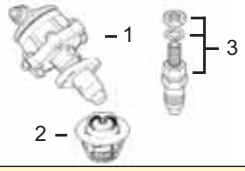
Water Pump

1) B311-0053



1) Oil Pump
2) Oil Cooler

1) B297-3050
2) B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B225-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) Do not use in applications that require a Crankshaft Driven Balancer Unit.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3024C/T

TURBOCHARGED

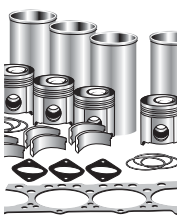
4 Cyl

ESN: E6K1-UP, GGA1-UP, CSD1-UP

Bore:	3.3	in
	84.00	mm
Stroke:	3.9	in
	100.00	mm
Displacement:	134	in³
	2.216	Liter

ENGINE ARRANGEMENT

177-3269	199-2653
177-3272	199-9054
177-3273	213-3185
177-3274	214-2362
177-3275	216-6386
177-3278	224-5881
177-3287	225-0581
177-3297	233-6648
177-3298	266-4535
177-3306	310-5635
179-1808	318-1708
183-1335	348-2243
196-8763	425-7997
197-7203	

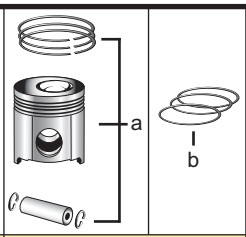


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK538** Std.
BOK539 0.50

2) **BBK538** Std.
BBK539 0.50



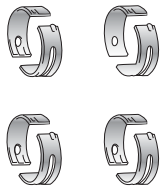
a) Piston Kit

b) Ring Set

a) **B270-6968** Std.
B270-6968B 0.50

b) **B270-6970** Std.
B270-6970B 0.50

4 Per Engine



Main Bearing Set

B154-1203 Std.
B161-7163 .010
B161-7164 .020

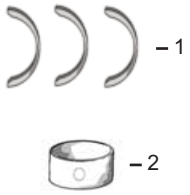
Set of 4 Pairs



Con Rod Bearing Set

B146-7808 Std.
B307-9855 .010
B307-9856 .020

Set of 4 Pairs

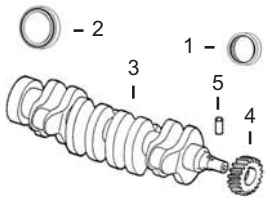


1) Thrust Washer
2) Crank Bushing

1) B154-1230/31 Std.

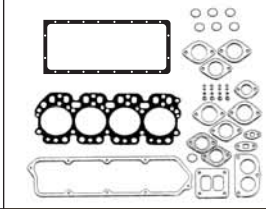
Set of 3 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



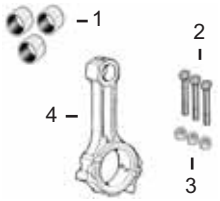
1) Front Seal
2) Rear Seal
3) Crankshaft

1) B154-1675
2) B154-0178
3) B308-1852 (1)
4) B308-1853
5) B153-5518



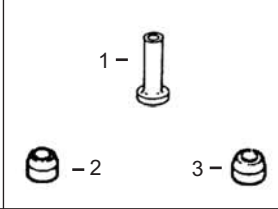
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) B3024TOG
2) B311-1685
3) B217-2752
4) B233-0695
5) B215-2605



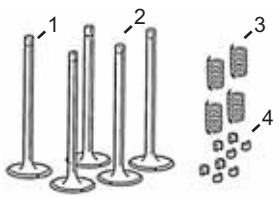
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X4*
2) B154-0870 *X8*
3) B154-0871 *X8*
4) B154-0867

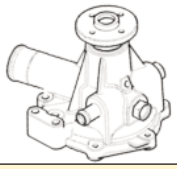


1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X4*
3) B153-5554 *X4*

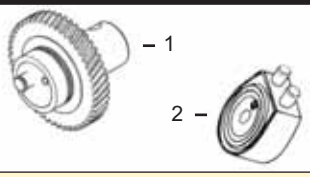


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Spring, Valve	4) Lock, Valve
BVTK558	1) B154-0888 *X4* 2) B154-0889 *X4*	3) B153-5558 *X8*	4) B153-5556 *X16*



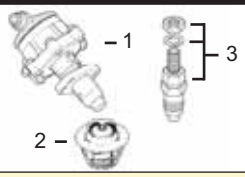
Water Pump

B311-0053



1) Oil Pump
2) Oil Cooler

1) B297-3050
2) B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) Do not use in applications that require a Crankshaft Driven Balancer Unit.

Engine & Equipment Application

CATERPILLAR 3054

416/426 BACKHOES

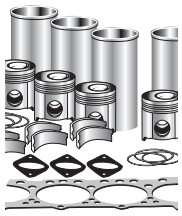
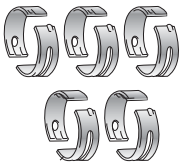
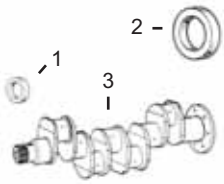
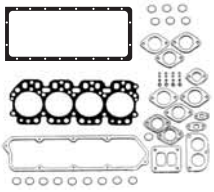
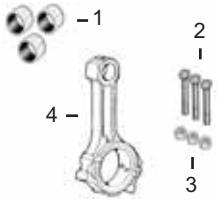
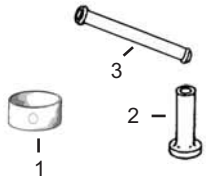
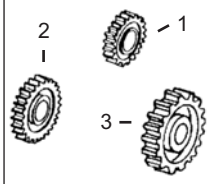
NATURALLY ASPIRATED

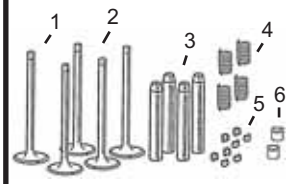
Bore: 3.877 in
98.476 mm

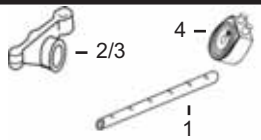
MODEL 416
ESN 5PC1 - UP

MODEL 426
ESN 7BC1 - UP

ENGINE ARRANGEMENT
2W-9777
2W-9778
7C-6074

				
1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**BCK819**	B067-6869 **Std.**	B4P-9944 **Std.**	B032-9090/91 **Std.**
1) BOK500	Consists of:	B033-2379 **.010**	B4P-9945 **.010**	B067-6873/74 **.007**
2) BBK500	a) B4W-5819	B033-2380 **.020**	B4P-9946 **.020**	
	b) B7W-7732	B033-2381 **.030**	B4P-9947 **.030**	
	c) B7C-3182 **(1)**			
	4 Per Engine	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Valve Cover Gsk 4) Head Gasket 5) Oil Pan Gasket	4) Con Rod	2) Tappet 3) Push Rod	
1) B4W-5359 2) B4W-5360 3) B7C-8214	1) B4P-7577 2) B7C-3801 3) B4P-3676 4) B7C-3803 5) B032-9946	1) B067-6158 ***X4*** 2) B067-6883 ***X8*** 3) B7W-2505 ***X8*** 4) B067-6879	1) B036-5802 ***X1*** 2) B138-2053 3) B067-6095	1) B067-9579 2) B7C-3187 3) B2W-1529

			
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
BVTK550	1) B2W-6988 ***X4*** 2) B7W-2522 ***X4***	a) B160-5436 ***X4*** b) B160-5438 ***X4***	a) B067-6053 ***X8*** b) B067-6052 ***X8***	5) B067-6834 ***X16*** 6) B1W-5849 ***X8***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head **(With Valves)** 2) Glowplug
B067-6925	B7C-2798	1) B7E-9195 2) B4W-8063	1) B032-9007 2) B150-1217 3) B150-1218 4) B7E-5584	1) B7C-3188 2) B035-8059

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B7C-3182UF**.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054T

416/426 BACKHOES

TURBOCHARGED

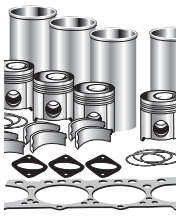
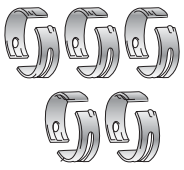
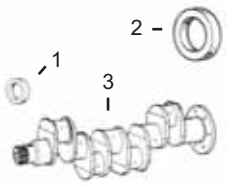
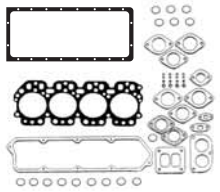
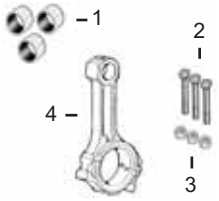
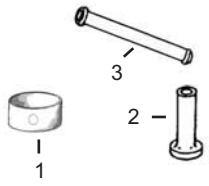
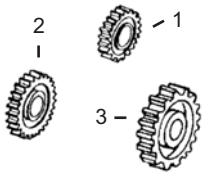
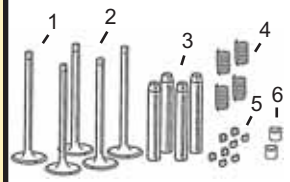
Bore: 3.877 in
98.476 mm

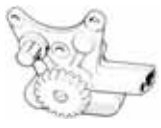
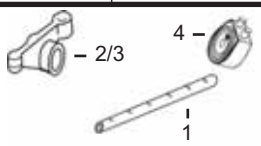
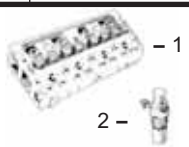
MODEL 416
ESN 5PC1 - UP

MODEL 426
ESN 7BC1 - UP

ENGINE ARRANGEMENT

7C-6076
7W-8998

	Piston-Liner Kit	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
				
1) Engine O/H Kit	**BCK107**	B067-6869 **Std.**	B4P-9944 **Std.**	B032-9090/91 **Std.**
2) Basic Engine Kit	Consists of:	B033-2379 **.010**	B4P-9945 **.010**	B067-6873/74 **.007**
1) BOK501	a) B116-6107	B033-2380 **.020**	B4P-9946 **.020**	
2) BBK501	b) B7W-2513	B033-2381 **.030**	B4P-9947 **.030**	
	c) B7C-3182 **(1)**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**
				
1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Nut, Con Rod**	**1) Bushing, Cam**	1) Crankshaft Gear 2) Camshaft Gear 3) Idler Gear
3) Crankshaft Kit	3) Valve Cover Gsk 4) Head Gasket 5) Oil Pan Gasket	4) Con Rod	2) Tappet 3) Push Rod	
1) B4W-5359 2) B4W-5360 3) B7C-8214	1) BTG-0236 2) B7C-3801 3) B4P-3676 4) BCH-0236 5) B032-9946	1) B7W-2510 ***X4*** 2) B067-6883 ***X8*** 3) B7W-2505 ***X8*** 4) B7W-2514	1) B036-5802 ***X1*** 2) B138-2053 3) B067-6095	1) B067-9579 2) B7C-3187 3) B2W-1529
	**Valve Train Kit**	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
	BVTK550	1) B2W-6988 ***X4*** 2) B7W-2522 ***X4***	a) B160-5436 ***X4*** b) B160-5438 ***X4***	a) B067-6053 ***X8*** b) B067-6052 ***X8***	5) B067-6834 ***X16*** 6) B1W-5849 ***X8***

				
Oil Pump	Lift Pump	1) Water Pump 2) Thermostat	1) Rocker Shaft 2) Rocker Arm LH 3) Rocker Arm RH 4) Oil Cooler	1) Cylinder Head **(With Valves)** 2) Glowplug
B067-6925	B7C-2798	1) B7E-9195 2) B4W-8063	1) B032-9007 2) B150-1217 3) B150-1218 4) B7E-5584	1) B7C-3188 2) B035-8059

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B7C-3182UF**.

Engine & Equipment Application

CATERPILLAR 3054

INDUSTRIAL ENGINE
NATURALLY ASPIRATED

4 Cyl

Bore: 3.937 in
100.00 mm

ESN 6FK1-UP

ENGINE ARRANGEMENT

6I-2215	100-4276
6I-2220	106-5001
7E-7702	107-3778
7E-9558	108-0495
7E-9559	115-1697
7E-9650	118-2942

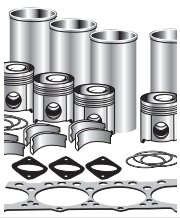
APPLICATIONS:

BACKHOE LOADERS
416B 416C 428B
428C

OLYMPIAN
GEP30SP-3
GEP35SP-3
GEP40SP-3
GEP44SP-3
GEP50SP-3

TELEHANDLERS
TH62

VIBRATORY COMPACT
CB434B CB434D



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK502

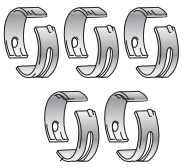
2) BBK502



Piston-Liner Kit

BCK264
Consists of:
a) B135-0264
b) B146-1780
c) B6I-0164 (1)

4 Per Engine



Main Bearing Set

B067-6869	Std.
B033-2379	.010
B033-2380	.020
B033-2381	.030

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944	Std.
B4P-9945	.010
B4P-9946	.020
B4P-9947	.030

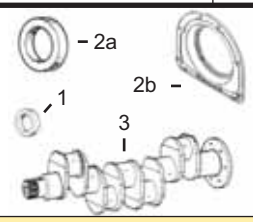
Set of 4 Pairs



Thrust Washer Set

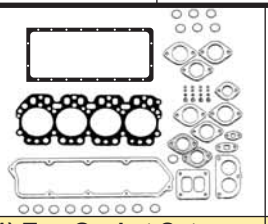
B032-9090/91	Std.
B067-6873/74	.007

Set of 2 Pairs



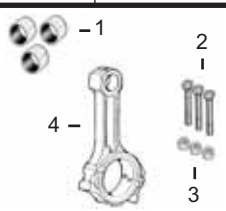
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (2)
2b) B209-9218 (3)
3) B7C-8214



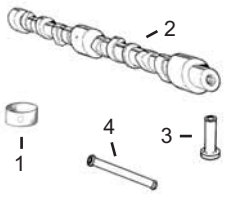
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B177-3310
2) B173-9716
3) B126-6671
4) B160-0161
5) B032-9946



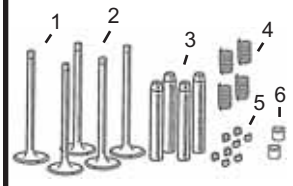
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B067-6158 *X4*
2) B067-6883 *X8*
3) B7W-2505 *X8*
4) B067-6879



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 *X1*
2) B132-3930
3) B138-2053
4) B067-6095



Valve Train Kit

BVTK551

1) Valve, Intake
2) Valve, Exhaust

1) B6I-0282 *X4*
2) B7W-4602 *X4*

3) Guide, Valve
a) Intake
b) Exhaust

a) B160-5436 *X4*
b) B160-5438 *X4*

4) Spring, Valve
a) Inner
b) Outer

a) B6I-0284 *X8*
b) B6I-0283 *X8*

5) Lock, Valve
6) Seal, Valve

5) B067-6834 *X16*
6) B1W-5849 *X8*



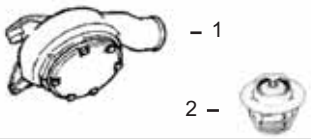
Oil Pump

B6I-0253



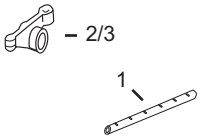
Lift Pump

B201-0877



1) Water Pump
2) Thermostat

1) B151-4825
2) B4W-8063



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) B032-9007
2) B150-1217
3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B6I-0164UF**.
(2) To ESN: 6FK10030.
(3) From ESN: 6FK10031.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054T

INDUSTRIAL ENGINE

TURBOCHARGED

4 Cyl

Bore: 3.937 in
100.0 mm

ESN 6FK1 - UP

ENGINE ARRANGEMENT

6I-2216	105-7971
6I-2221	106-5002
7E-7702	107-9664
7E-9558	108-0496
7E-9559	108-2783
7E-9650	115-1697
106-5001	153-5364

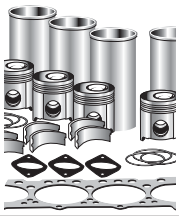
APPLICATIONS:

BACKHOE LOADERS

416B 416C 426B
426C 428B 428C

HYDRAULIC EXCAVATORS

317 317N M312
M315



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK503/45° BOK503/30°

2) BBK503



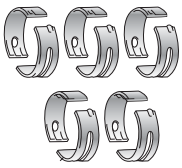
Piston-Liner Kit

BCK553

Consists of:

a) B107-2553
b) B112-7020
c) B6I-0164 (1)

4 Per Engine



Main Bearing Set

B067-6869	**Std.**
B033-2379	**.010**
B033-2380	**.020**
B033-2381	**.030**

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944	**Std.**
B4P-9945	**.010**
B4P-9946	**.020**
B4P-9947	**.030**

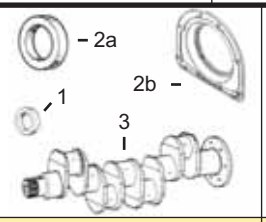
Set of 4 Pairs



Thrust Washer Set

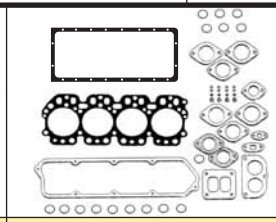
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



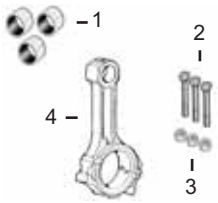
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (2)
2b) B209-9218 (3)
3) B4P-9948



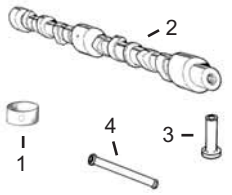
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B177-3310
2) B173-9716
3) B126-6671
4) B160-0161
5) B032-9946



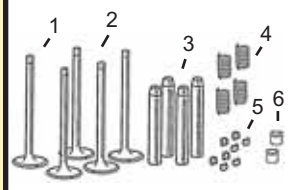
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B7W-2510 ***X4***
2) B067-6883 ***X8***
3) B7W-2505 ***X8***
4) B7W-2514



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B132-3930
3) B138-2053
4) B067-6095



Valve Train Kit
a) 45° b) 30°

a) BVTK552
b) BVTK556

1) Valve, Intake
a) 45° b) 30°
2) Valve, Exhaust

1a) B6I-1196 ***X4***
b) B100-4626 ***X4***
2) B7W-4602 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) B160-5436 ***X4***
b) B160-5438 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) B6I-0284 ***X8***
b) B6I-0283 ***X8***

5) Lock, Valve
6) Seal, Valve

5) B067-6834 ***X16***
6) B1W-5849 ***X8***



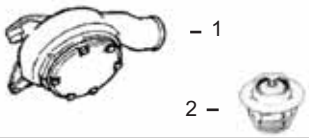
Oil Pump

B6I-0912



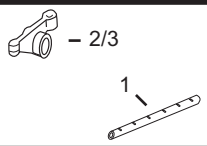
Lift Pump

B201-0877



1) Water Pump
2) Thermostat

1) B151-4825
2) B4W-8063



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) B032-9007
2) B150-1217
3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B6I-0164UF**.
(2) To ESN: 6FK10030.
(3) From ESN: 6FK1031.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054T

Used in CAT Wheel Loader Model 914G / IT14G

4 Cyl

Bore: 3.937 in / 100.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 365 in³ / 6 Liter

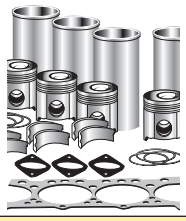
PISTON GRADE K

(m) 3135J185

ENGINE ARRANGEMENT
107-4860 203-0762
107-9665 356-9742
165-7604

APPLICATIONS:
HYDRAULIC EXCAVATORS
M312 M315

WHEEL LOADERS
914G IT14G



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK528

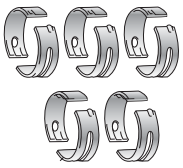
2) BBK528



Piston-Liner Kit

BCK528
Consists of:
a) B124-3528
b) B112-7020
c) B111-1815 (1)

4 Per Engine



Main Bearing Set

B067-6869 **Std.**
B033-2379 **.010**
B033-2380 **.020**
B033-2381 **.030**

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944 **Std.**
B4P-9945 **.010**
B4P-9946 **.020**
B4P-9947 **.030**

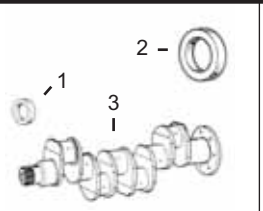
Set of 4 Pairs



Thrust Washer Set

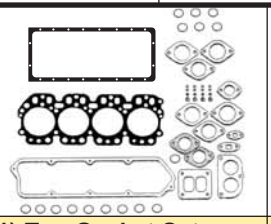
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



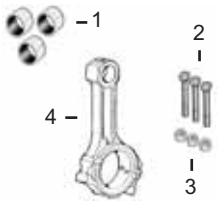
1) Front Seal
2) Rear Seal
3) Crankshaft

1) B4W-5359
2) B4W-5360
3) B139-7018



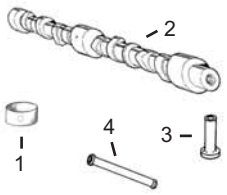
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B177-3310
2) B173-9716
3) B126-6671
4) B160-0161
5) B032-9946



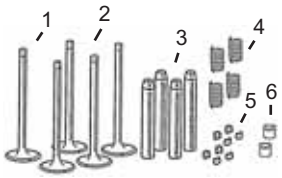
1) Bush, Con Rod
2) Bolt, Con Rod
3) Dowel, Con Rod
4) Con Rod

1) B124-3531 ***X4***
2) B124-3532 ***X8***
3) B124-3533 ***X8***
4) B124-3530



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B132-3930
3) B138-2053
4) B067-6095



Valve Train Kit

BVTK556

1) Valve, Intake
2) Valve, Exhaust

1) B100-4626 ***X4***
2) B7W-4602 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) B160-5436 ***X4***
b) B160-5438 ***X4***

4) Spring, Valve
a) Inner
b) Outer

a) B6I-0284 ***X8***
b) B6I-0283 ***X8***

5) Lock, Valve
6) Seal, Valve

5) B067-6834 ***X16***
6) B1W-5849 ***X8***



Oil Pump

B6I-0912



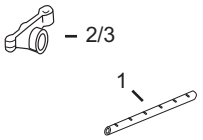
Lift Pump

B201-0877



Water Pump

B151-4825



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) B032-9007
2) B150-1217
3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054T

Used in CAT Wheel Loader Model 914G / IT14G

4 Cyl

Bore: 3.937 in 100.00 mm

Stroke: 5.00 in 127.00 mm

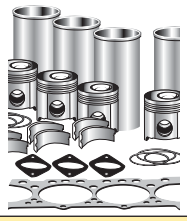
Displacement: 365 in 6 Liter

PISTON GRADE L [3]

(m) 3135J186

ENGINE ARRANGEMENT
107-4860
107-9665
165-7604

APPLICATIONS:
HYDRAULIC EXCAVATORS
M315



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK529

2) BBK529



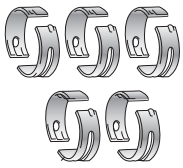
Piston-Liner Kit

BCK529

Consists of:

a) B124-3529
b) B112-7020
c) B111-1815 (1)

4 Per Engine



Main Bearing Set

B067-6869 **Std.**
B033-2379 **.010**
B033-2380 **.020**
B033-2381 **.030**

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944 **Std.**
B4P-9945 **.010**
B4P-9946 **.020**
B4P-9947 **.030**

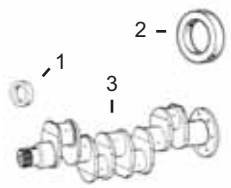
Set of 4 Pairs



Thrust Washer Set

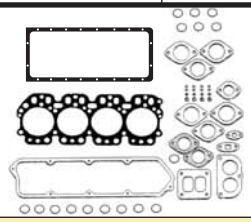
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



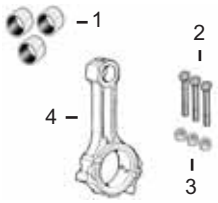
1) Front Seal
2) Rear Seal
3) Crankshaft

1) B4W-5359
2) B4W-5360
3) B139-7018



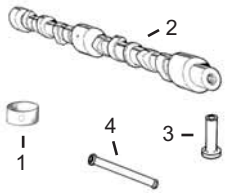
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B177-3310
2) B173-9716
3) B126-6671
4) B160-0161
5) B032-9946



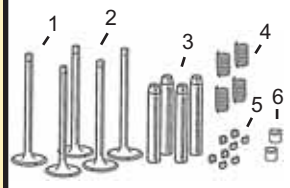
1) Bush, Con Rod
2) Bolt, Con Rod
3) Dowel, Con Rod
4) Con Rod

1) B124-3531 ***X4***
2) B124-3532 ***X8***
3) B124-3533 ***X8***
4) B124-3530



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B132-3930
3) B138-2053
4) B067-6095



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve a) Inner b) Outer	5) Lock, Valve 6) Seal, Valve
BVTK556	1) B100-4626 ***X4*** 2) B7W-4602 ***X4***	a) B160-5436 ***X4*** b) B160-5438 ***X4***	a) B6I-0284 ***X8*** b) B6I-0283 ***X8***	5) B067-6834 ***X16*** 6) B1W-5849 ***X8***



Oil Pump

B6I-0912



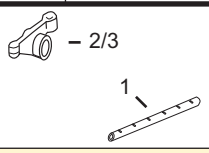
Lift Pump

B201-0877



Water Pump

B151-4825



1) Rocker Shaft
2) Rocker Arm LH
3) Rocker Arm RH

1) B032-9007
2) B150-1217
3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.

Engine & Equipment Application

CATERPILLAR 3054

INDUSTRIAL ENGINE

TURBOCHARGED or NATURALLY ASPIRATED

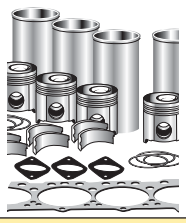
4 Cyl

Bore: 3.937 in
100.00 mm

ESN 5YS1 - 13498

ENGINE ARRANGEMENT

100-8184	178-9011
106-5002	187-1696
107-3778	186-0601
118-2942	187-8014
122-8803	187-8016
122-8804	188-0883
122-8805	189-6184
130-4666	204-5369
130-4799	204-5371
130-4800	204-5372
130-6340	212-3603
130-6342	220-5713
130-6343	221-8141
139-9582	222-3717
158-6066	223-5544
162-9785	224-4011
163-0555	231-6116
163-0949	234-1969
163-1652	235-0598
165-7604	238-6808



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK504/45° BOK504/30°

2) BBK504

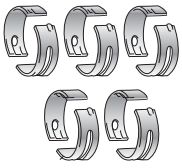


Piston-Liner Kit

BCK390
Consists of:

a) B152-1390
b) B138-2073
c) B111-1815 **(1)**

4 Per Engine



Main Bearing Set

B067-6869	**Std.**
B033-2379	**.010**
B033-2380	**.020**
B033-2381	**.030**

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944	**Std.**
B4P-9945	**.010**
B4P-9946	**.020**
B4P-9947	**.030**

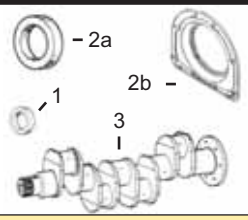
Set of 4 Pairs



Thrust Washer Set

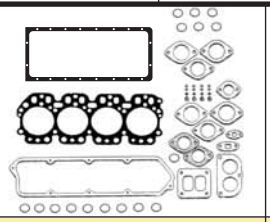
B032-9090/91	**Std.**
B067-6873/74	**.007**

Set of 2 Pairs



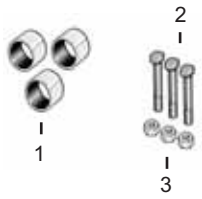
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 **(2)**
2b) B209-9218 **(3)**
3) B4P-9948



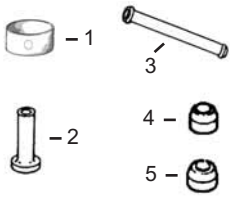
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B175-1321
2) B187-4968
3) B200-6374
4) B160-0161
5) B032-9946



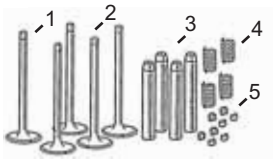
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

1) B138-2048 ***X4***
2) B067-6883 ***X8***
3) B7W-2505 ***X8***



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 ***X1***
2) B138-2053
3) B067-6095
4) B145-6856 ***X4***
5) B145-6858 ***X4***



Valve Train Kit
a) 45° b) 30°

a) BVTK553
b) BVTK554

1) Valve, Intake
2) Valve, Exhaust
a) 45° b) 30°

1a) B138-2052 ***X4***
b) B145-6855 ***X4***
2a) B138-2050 ***X4***
b) B145-6857 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) B185-0882 ***X4***
b) B163-9256 ***X4***

4) Spring, Valve

4) B206-4127 ***X8***

5) Lock, Valve

5) B147-1979 ***X16***



Oil Pump

B6I-0912



Lift Pump

B201-0877



Water Pump

B239-6142

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.
(2) To ESN: 5YS11021.
(3) From ESN: 5YS11022.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054

INDUSTRIAL ENGINE

TURBOCHARGED or NATURALLY ASPIRATED

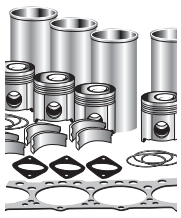
4 Cyl

Bore: 3.937 in
100.00 mm

ESN 5YS13499 - UP

ENGINE ARRANGEMENT

100-8184	139-9582
106-5002	158-6066
107-3778	178-9011
118-2942	187-8014
122-8804	187-8016
122-8805	188-0883
130-4666	189-6184
130-4799	204-5369
130-4800	204-5371
130-6340	204-5372
130-6342	212-6303
139-4666	



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK505/45° BOK505/30°

2) BBK505



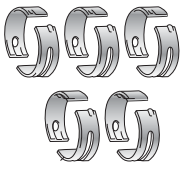
Piston-Liner Kit

BCK390

Consists of:

a) B152-1390
b) B138-2073
c) B111-1815 **(1)**

4 Per Engine



Main Bearing Set

B067-6869 **Std.**

B033-2379 **.010**
B033-2380 **.020**
B033-2381 **.030**

Set of 5 Pairs



Con Rod Bearing Set

B225-7781 **Std.** **(6)**

B233-3788 **.010** **(6)**
B233-3789 **.020** **(6)**
B233-3790 **.030** **(6)**

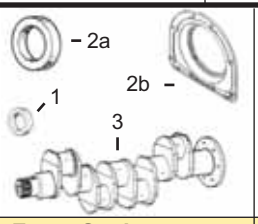
Set of 4 Pairs



Thrust Washer Set

B032-9090/91 **Std.**
B067-6873/74 **.007**

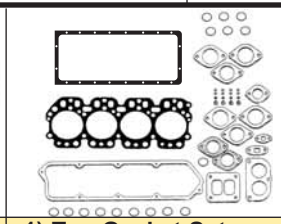
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

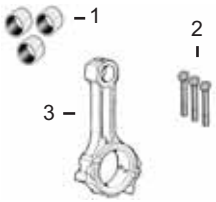
1) B4W-5359
2a) B4W-5360 **(2)**
2b) B209-9218 **(3)**
3) B254-0252



1) Top Gasket Set
2) Bottom Gasket Set

3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

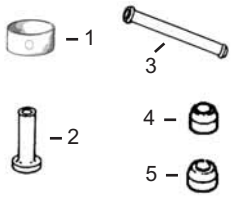
1) B175-1321
2) B187-4968
3) B200-6374
4) B160-0161
5) B032-9946



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod

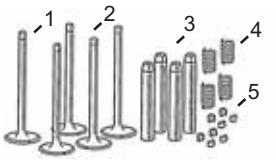
1) B225-5438 ***X4***
2) B225-5439 ***X8***
3) B225-5453 **(4)** **(5)**



1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 ***X1***
2) B138-2053
3) B067-6095
4) B145-6856 ***X4***
5) B145-6858 ***X4***



Valve Train Kit
a) 45° b) 30°

a) BVTK553
b) BVTK554

1) Valve, Intake
2) Valve, Exhaust
a) 45° b) 30°

1a) B138-2052 ***X4***
b) B145-6855 ***X4***
2a) B138-2050 ***X4***
b) B145-6857 ***X4***

3) Guide, Valve
a) Intake
b) Exhaust

a) B185-0882 ***X4***
b) B163-9256 ***X4***

4) Spring, Valve

4) B206-4127 ***X8***

5) Lock, Valve

5) B147-1979 ***X16***



Oil Pump

B6I-0912



Lift Pump

B201-0877



Water Pump

B239-6142

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.
(2) To ESN: 5YS11021.
(3) From ESN: 5YS11022.
(4) Fracture Split Type.
(5) For machine split rods use Con Rod Bearing **B4P-9944**.
(6) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054B

INDUSTRIAL ENGINE

NATURALLY ASPIRATED

4 Cyl

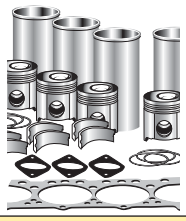
Bore: 4.055 in
103.00 mm

Stroke: 5.00 in
127.00 mm

ESN 5MF1 - 10869

ENGINE ARRANGEMENT

185-0462, 185-1651, 185-3173, 185-3197, 185-3969, 185-3972, 185-4092, 185-4093, 185-4388, 185-4624, 185-4788, 185-5465, 191-5836

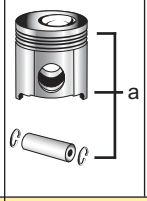


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK506** Std.
BOK508 0.50
BOK509 1.00

2) **BBK506** Std.
BBK508 0.50
BBK509 1.00

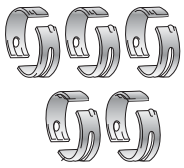


a) Piston
b) Ring Set

a) B185-0104 Std.
B185-0106 0.50
B185-0107 1.00

b) B185-0109 Std.
B185-0110 0.50
B185-0111 1.00

4 Per Engine



Main Bearing Set

B067-6869 Std.

B033-2379 .010
B033-2380 .020
B033-2381 .030

Set of 5 Pairs



Con Rod Bearing Set

B4P-9944 Std.

B4P-9945 .010
B4P-9946 .020
B4P-9947 .030

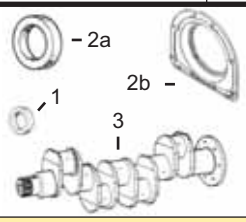
Set of 4 Pairs



Thrust Washer Set

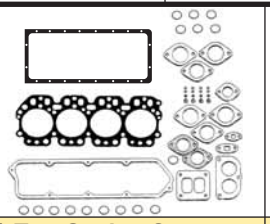
B032-9090/91 Std.
B067-6873/74 .007

Set of 2 Pairs



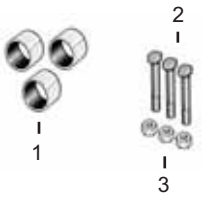
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (1)
2b) B209-9218 (2)
3) B4P-9948



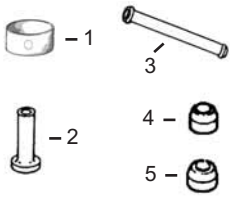
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket

1) B187-1290
2) B187-4968
3) B200-6374
4) B185-0885



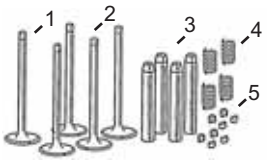
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

1) B138-2048 *X4*
2) B067-6883 *X8*
3) B7W-2505 *X8*



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 *X1*
2) B138-2053
3) B067-6095
4) B145-6856 *X4*
5) B145-6858 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
BVTK555	1) B176-3134 *X4* 2) B176-3137 *X4*	a) B185-0882 *X4* b) B163-9256 *X4*	4) B176-3139 *X8*	5) B147-1979 *X16*



Oil Pump

B6I-0253



Lift Pump

B201-0877



Water Pump

B239-6142

(1) To ESN: 5MF1183.
(2) From ESN: 5MF1184.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054B

INDUSTRIAL ENGINE

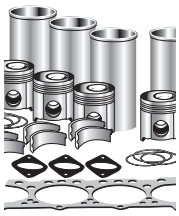
NATURALLY ASPIRATED

4 Cyl

Bore: 4.055 in
103.00 mm

Stroke: 5.00 in
127.00 mm

ESN 5MF10870 -UP

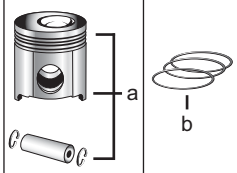


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK507** Std.
BOK510 0.50
BOK511 1.00

2) **BBK507** Std.
BBK510 0.50
BBK511 1.00

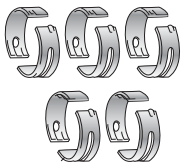


a) Piston
b) Ring Set

a) B185-0104 **Std.**
B185-0106 **0.50**
B185-0107 **1.00**

b) B185-0109 **Std.**
B185-0110 **0.50**
B185-0111 **1.00**

4 Per Engine



Main Bearing Set

B067-6869 **Std.**

B033-2379 **.010**
B033-2380 **.020**
B033-2381 **.030**

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 **Std.** (4)

B233-3788 **.010** (4)
B233-3789 **.020** (4)
B233-3790 **.030** (4)

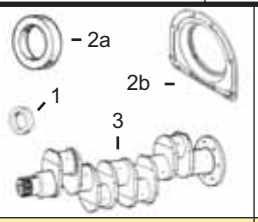
Set of 4 Pairs



Thrust Washer Set

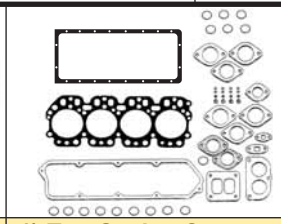
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



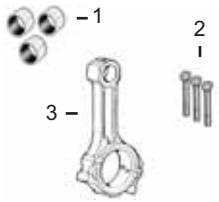
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (1)
2b) B209-9218 (2)
3) B254-0252



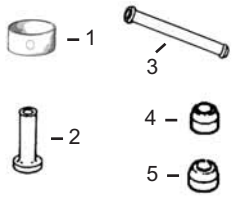
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket

1) B187-1290
2) B187-4968
3) B200-6374
4) B185-0885



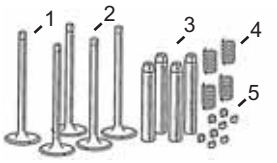
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (3)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 *X1*
2) B138-2053
3) B067-6095
4) B145-6856 *X4*
5) B145-6858 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
BVTK555	1) B176-3134 *X4* 2) B176-3137 *X4*	a) B185-0882 *X4* b) B163-9256 *X4*	4) B176-3139 *X8*	5) B147-1979 *X16*



Oil Pump

B6I-0253



Lift Pump

B201-0877



Water Pump

B239-6142

(1) To ESN: 5MF1183.
(2) From ESN: 5MF1184.
(3) Fracture Split Type; Grade J.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054C/E

INDUSTRIAL ENGINE
NATURALLY ASPIRATED

4 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

ESN 3341-UP

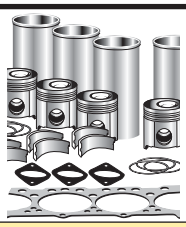
ENGINE ARRANGEMENT

207-1080	207-1173
207-1101	219-7588
207-1102	219-7589
207-1104	230-3483
207-1108	230-5540
207-1126	241-8593
207-1149	241-8594
207-1151	241-8596
207-1159	244-3104
207-1170	257-8360
207-1171	257-8370

APPLICATIONS:

COMPACT TRACK
RC-85

TELEHANDLERS
TH210 TH215

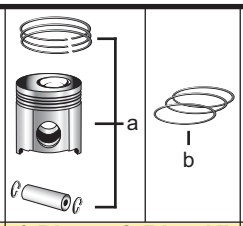


1) Engine O/H Kit

2) Basic Engine Kit

1) BOK512 Std.
BOK513 0.50
BOK514 1.00

2) BBK512 Std.
BBK513 0.50
BBK514 1.00

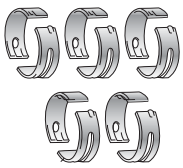


a) Piston & Ring Kit

b) Ring Set

a) B233-7232 Std.
B288-9942 0.50
B288-9943 1.00
4 Per Engine

b) B233-7231 Std.
B233-7231B 0.50
B233-7231D 1.00



Main Bearing Set

B225-7772 Std.

B233-3784 .010
B233-3785 .020
B233-3786 .030

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 Std. (4)

B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)

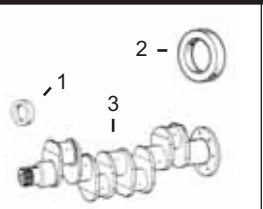
Set of 4 Pairs



Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007

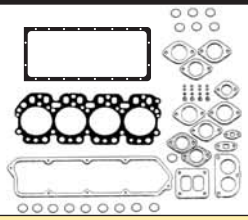
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

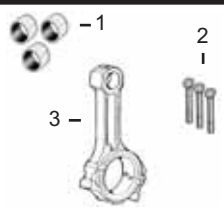
1) B4W-5359
2) B232-7449
3) B232-7400



1) Top Gasket Set
2) Bottom Gasket Set

3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

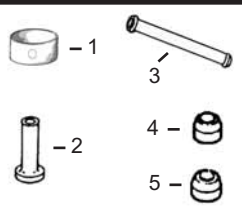
1) B276-3420
2) B233-0333 (3)
3) B225-6451
4) B240-7194
5) B225-6005



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod

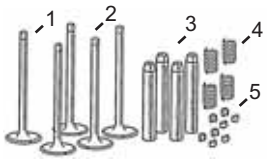
1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (2)



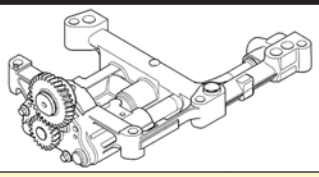
1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X4*
5) B254-3954 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK557	1) B225-5495 *X4* 2) B225-5499 *X4*	B185-0882 *X8*	4) B225-5496 *X8*	5) B147-1979 *X16*



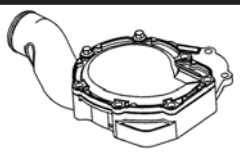
Oil Pump

B225-8329 (1)



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019



Repair Sleeve

105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Bottom gasket contains: **226-8766** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054C/E

INDUSTRIAL ENGINE

NATURALLY ASPIRATED

4 Cyl

Bore: 4.133 in / 105.00 mm

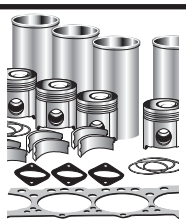
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in³ / 4.4 Liter

ESN 3341-UP

ENGINE ARRANGEMENT
207-1101
207-1102

APPLICATIONS:
COMPACT TRACK LOADERS
RC-85

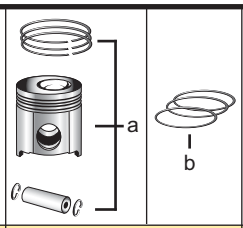


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK515** Std.
BOK516 0.50
BBK517 1.00

2) **BBK515** Std.
BBK516 0.50
BBK517 1.00

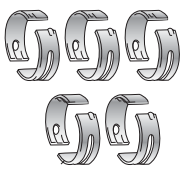


a) Piston & Ring Kit

b) Ring Set

a) B233-7232 Std.
B288-9942 0.50
B288-9943 1.00
4 Per Engine

b) B233-7231 Std.
B233-7231B 0.50
B233-7231D 1.00



Main Bearing Set

B225-7772 Std.
B233-3784 .010
B233-3785 .020
B233-3786 .030
Set of 5 Pairs



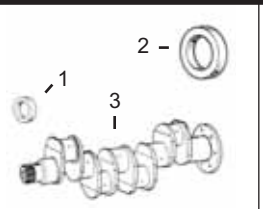
Con Rod Bearing Set

B255-7781 Std. (4)
B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)
Set of 4 Pairs



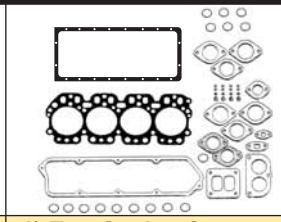
Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007
Set of 2 Pairs



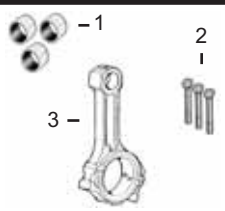
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B232-7400



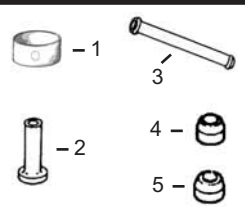
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B276-3420
2) B237-5942 (3)
3) B225-6451
4) B240-7194
5) B237-5932



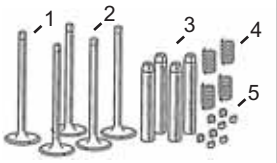
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (2)

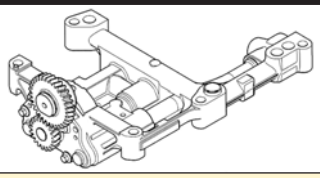


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X4*
5) B254-3954 *X4*



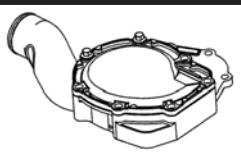
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK557	1) B225-5495 *X4* 2) B225-5499 *X4*	B185-0882 *X8*	4) B225-5496 *X8*	5) B147-1979 *X16*



Oil Pump: B225-8329 (1)



Lift Pump: B350-4315



Water Pump: B225-8016



Water Pump Gasket: B225-8019



Repair Sleeve: 105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Bottom gasket contains: **225-8287** Timing Cover Gasket and **B237-5932** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

Engine & Equipment Application

CATERPILLAR 3054C/E

INDUSTRIAL ENGINE TURBOCHARGED

4 Cyl

Bore: 4.133 in / 105.00 mm

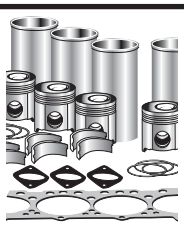
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

ESN 3341 - UP

ENGINE ARRANGEMENT

177-9752	241-8582
207-1175	241-8584
213-0296	241-8585
219-7590	241-8586
219-7591	244-3103
223-6467	244-3105
223-6511	256-4720
223-7570	257-8359
230-5539	257-8362
231-0178	257-8364
231-0179	257-8369
231-0180	257-8374
231-0181	257-8375
231-0182	257-8376
231-0183	257-8380
231-0184	257-8381
231-0186	270-0073
232-4502	307-2279

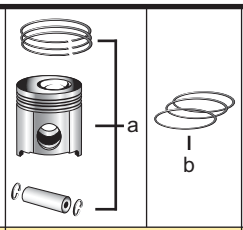


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK518** Std.
BOK519 0.50
BOK520 1.00

2) **BBK518** Std.
BBK519 0.50
BBK520 1.00

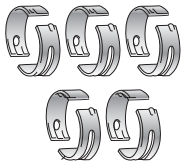


a) Piston & Ring Kit

b) Ring Set

a) B225-5437 Std.
B288-1394 0.50
B288-1395 1.00
4 Per Engine

b) B225-5436 Std.
B225-5436B 0.50
B225-5436D 1.00



Main Bearing Set

B225-7772 Std.
B233-3784 .010
B233-3785 .020
B233-3786 .030
Set of 5 Pairs



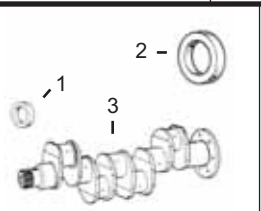
Con Rod Bearing Set

B255-7781 Std. (4)
B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)
Set of 4 Pairs



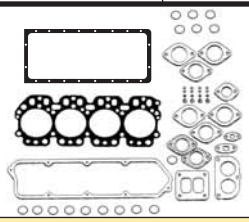
Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007
Set of 2 Pairs



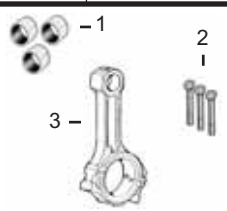
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B232-7400



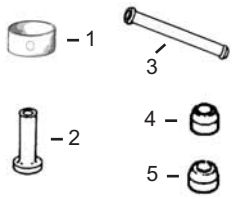
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B276-3420
2) B233-0333 (3)
3) B225-6451
4) B240-7194
5) B225-6005 (3)



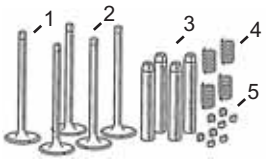
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (2)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X4*
5) B254-3954 *X4*



Valve Train Kit

BVTK557

1) Valve, Intake
2) Valve, Exhaust

1) B225-5495 *X4*
2) B225-5499 *X4*

3) Guide, Valve (Intake & Exhaust)

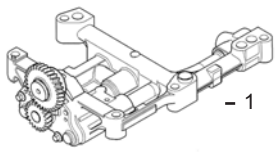
B185-0882 *X8*

4) Spring, Valve

4) B225-5496 *X8*

5) Lock, Valve

5) B147-1979 *X16*





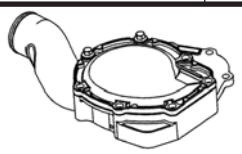
1) Oil Pump
2) Oil Cooler

1) B225-8329 (1)
2) B225-6817



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019



Repair Sleeve

105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Industrial Application. Bottom gasket contains: **226-8766** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3054C/E

TURBOCHARGED

4 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

ESN 3341-UP

ENGINE ARRANGEMENT

207-1097, 207-1098, 207-1099, 207-1100, 207-1103

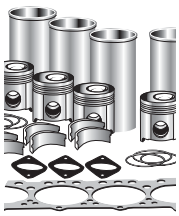
APPLICATIONS:

COMPACT TRACK LOADERS

RC-100

OLYMPIAN

GEP44SP2, GEP50SP2, GEP50SP4, GEP55-2, GEP55-4, GEP64SP2, GEP65-2, GEP65-4, GEP80SP2, GEP80SP4, GEP88-2, GEP88-3, GEP88-4, GEP110-1, GEP110-2, GEP110-4

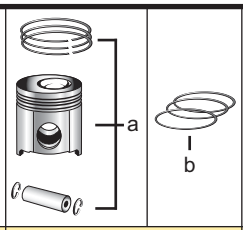


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK521** Std.
BOK522 0.50
BOK523 1.00

2) **BBK521** Std.
BBK522 0.50
BBK523 1.00



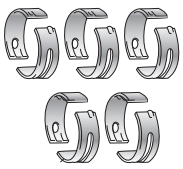
a) Piston & Ring Kit

b) Ring Set

a) B225-5437 Std.
B288-1394 0.50
B288-1395 1.00

4 Per Engine

b) B225-5436 Std.
B225-5436B 0.50
B225-5436D 1.00



Main Bearing Set

B225-7772 Std.
B233-3784 .010
B233-3785 .020
B233-3786 .030

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 Std. (4)
B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)

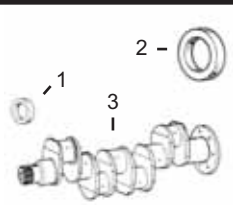
Set of 4 Pairs



Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007

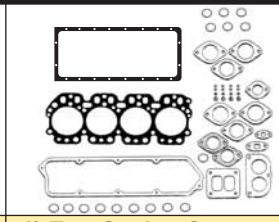
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

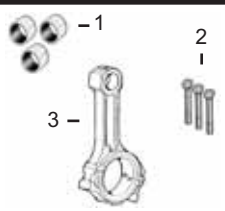
1) B4W-5359
2) B232-7449
3) B232-7400



1) Top Gasket Set
2) Bottom Gasket Set

3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

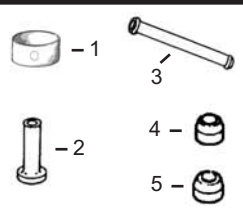
1) B276-3420
2) B237-5942 (3)
3) B225-6451
4) B240-7194
5) B237-5932 (3)



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod

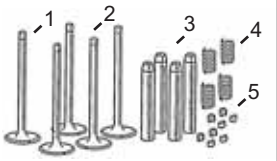
1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (2)



1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X4*
5) B254-3954 *X4*



Valve Train Kit

BVTK557

1) Valve, Intake
2) Valve, Exhaust

1) B225-5495 *X4*
2) B225-5499 *X4*

3) Guide, Valve (Intake & Exhaust)

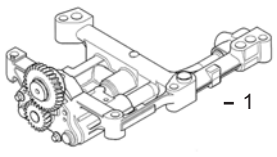
B185-0882 *X8*

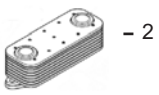
4) Spring, Valve

4) B225-5496 *X8*

5) Lock, Valve

5) B147-1979 *X16*





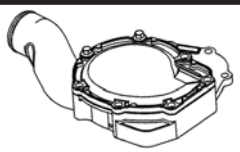
1) Oil Pump
2) Oil Cooler

1) B225-8329 (1)
2) B225-6817



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019



Repair Sleeve

105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Non Industrial Application. Bottom gasket contains: **225-8287** Timing Cover Gasket and **B237-5932** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054C/E

INDUSTRIAL, MARINE, GENSET ENGINE NATURALLY ASPIRATED

4 Cyl

ESN: CRS1-UP, G4D1-UP, D1K, E4M

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 269 in³ / 4.4 Liter

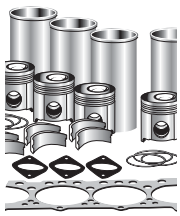
ENGINE ARRANGEMENT

176-3163	291-0357
234-3058	292-7768
234-3059	297-4050
245-6841	309-0731
266-4538	322-1922
266-4539	329-9929
273-0872	

APPLICATIONS:

BACKHOE LOADERS
416D 424D

OLYMPIAN
GEP44-7 GEP44-9

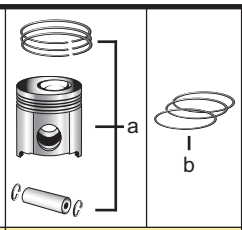


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK530** Std.
BOK531 0.50
BOK532 1.00

2) **BBK530** Std.
BBK531 0.50
BBK532 1.00

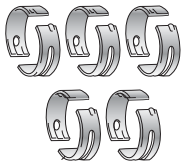


a) Piston & Ring Kit

b) Ring Set

a) B233-7232 Std.
B288-9942 0.50
B288-9943 1.00
4 Per Engine

b) B233-7231 Std.
B233-7231B 0.50
B233-7231D 1.00



Main Bearing Set

B225-7772 Std.
B233-3784 .010
B233-3785 .020
B233-3786 .030
Set of 5 Pairs



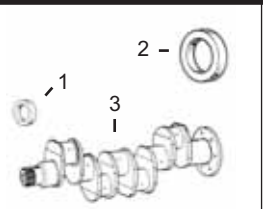
Con Rod Bearing Set

B255-7781 Std. (4)
B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)
Set of 4 Pairs



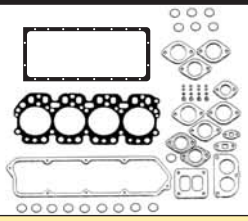
Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007
Set of 2 Pairs



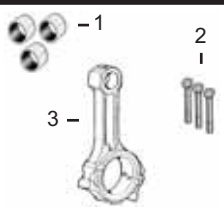
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B232-7400



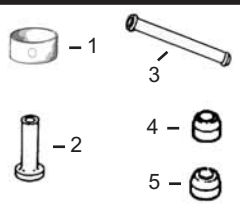
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B276-3420
2) B272-2232 (3)
3) B225-6451
4) B240-7194
5) B225-6005



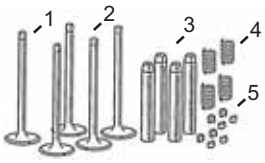
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *x4*
2) B225-5439 *x8*
3) B225-5453 (2)

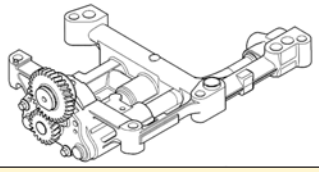


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *x1*
2) B138-2053
3) B067-6095
4) B252-6438 *x4*
5) B254-3954 *x4*



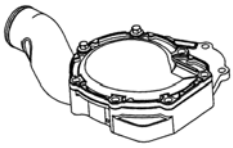
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK557	1) B225-5495 *x4* 2) B225-5499 *x4*	B185-0882 *x8*	4) B225-5496 *x8*	5) B147-1979 *x16*



Oil Pump
B225-8329 (1)



Lift Pump
B350-4315



Water Pump
B225-8016



Water Pump Gasket
B225-8019



Repair Sleeve
105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Bottom gasket contains: **225-8287** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3054C/E

INDUSTRIAL, MARINE, GENSET ENGINE TURBOCHARGED

4 Cyl

ESN CRX107-UP, BLN, FDP, 304, E4M, G4D, J1Z, CRS

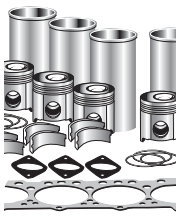
Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 269 in³ / 4.4 Liter

ENGINE ARRANGEMENT

176-3180	273-1454
194-9477	273-3610
207-1082	273-3611
227-1368	286-2370
234-3060	291-0358
234-3061	291-0359
245-6842	291-0360
266-4540	292-7769
266-4541	319-2122
266-4542	320-8415
266-4544	322-1923
272-2837	322-1924
272-2839	323-5725
272-2841	325-5122

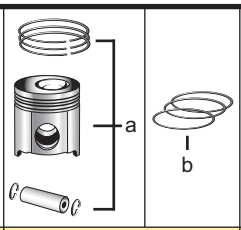


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK533** Std.
BOK534 0.50
BOK535 1.00

2) **BBK533** Std.
BBK534 0.50
BBK535 1.00

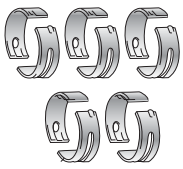


a) Piston & Ring Kit

b) Ring Set

a) B225-5437 Std.
B288-1394 0.50
B288-1395 1.00
4 Per Engine

b) B225-5436 Std.
B225-5436B 0.50
B225-5436D 1.00



Main Bearing Set

B225-7772 Std.

B233-3784 .010
B233-3785 .020
B233-3786 .030

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 Std. (4)

B233-3788 .010 (4)
B233-3789 .020 (4)
B233-3790 .030 (4)

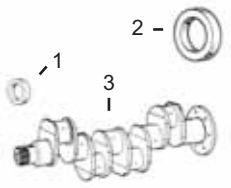
Set of 4 Pairs



Thrust Washer Set

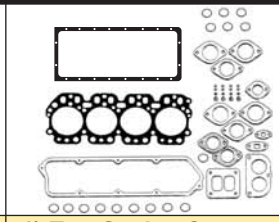
B032-9090/91 Std.
B067-6873/74 .007

Set of 2 Pairs



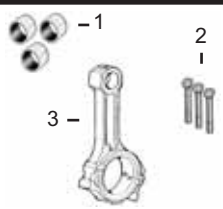
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B232-7400



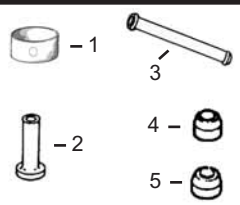
1) Top Gasket Set
2) Bottom Gasket Set
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B276-3420
2) B272-2232 (3)
3) B225-6451
4) B240-7194
5) B225-6005



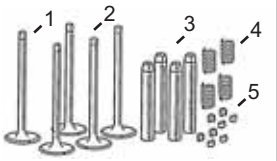
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453 (2)

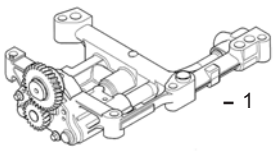


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X4*
5) B254-3954 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK557	1) B225-5495 *X4* 2) B225-5499 *X4*	B185-0882 *X8*	4) B225-5496 *X8*	5) B147-1979 *X16*





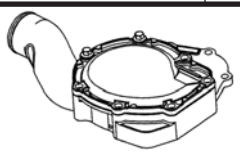
1) Oil Pump
2) Oil Cooler

1) B225-8329 (1)
2) B225-6817



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019



Repair Sleeve

105RS

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Bottom gasket contains: **225-8287** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.
(4) Check your connecting rod journal outside diameter for the proper connecting rod bearings.

Engine & Equipment Application

CATERPILLAR 3056

INDUSTRIAL ENGINE

NATURALLY ASPIRATED

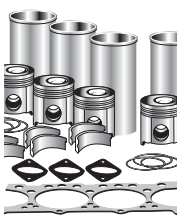
6 Cyl

Bore: 3.937 in
100.0 mm

ESN 1ML1-UP

ENGINE ARRANGEMENT

6I-2217
6I-2222
108-0497



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK700

2) BBK700



Piston-Liner Kit

BCK264

Consists of:

a) B135-0264
b) B146-1780
c) B6I-0164 **(1)**

6 Per Engine



Main Bearing Set

B7W-4589 **Std.**
B7W-4590 **.010**
B7W-4591 **.020**
B7W-4592 **.030**

Set of 7 Pairs



Con Rod Bearing Set

B7W-4816 **Std.**
B7W-4817 **.010**
B7W-4818 **.020**
B7W-4819 **.030**

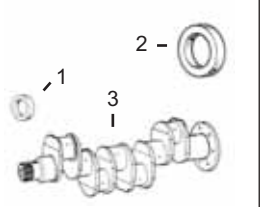
Set of 6 Pairs



Thrust Washer Set

B032-9090/91 **Std.**
B067-6873/74 **.007**

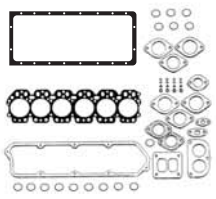
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

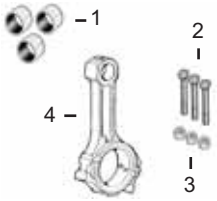
1) B4W-5359
2) B4W-5360
3) B193-0159



1) Top Gasket Set
2) Bottom Gasket Set

3) Head Gasket

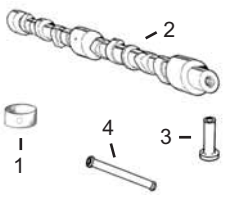
1) B103-0081
2) B103-0080
3) B6I-3875



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

4) Con Rod

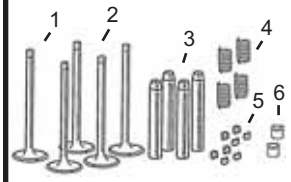
1) B067-6158 ***X6***
2) B067-6883 ***X12***
3) B7W-2505 ***X12***
4) B067-6879



1) Bushing, Cam

2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B6I-4353
3) B138-2053
4) B067-6095



Valve Train Kit

BVTK750

1) Valve, Intake
2) Valve, Exhaust

1) B6I-0282 ***X6***
2) B7W-4602 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

a) B160-5436 ***X6***
b) B160-5438 ***X6***

4) Spring, Valve
a) Inner
b) Outer

a) B6I-0284 ***X12***
b) B6I-0283 ***X12***

5) Lock, Valve
6) Seal, Valve

5) B067-6834 ***X24***
6) B1W-5849 ***X12***



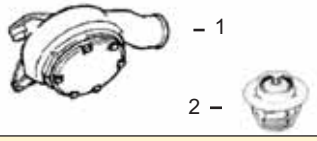
Oil Pump

B100-3717



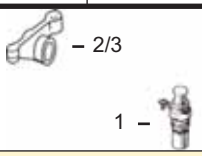
Lift Pump

B132-9447



1) Water Pump
2) Thermostat

1) B149-0539
2) B4W-8063



1) Glowplug
2) Rocker Arm LH
3) Rocker Arm RH

1) B035-8059
2) B150-1217
3) B150-1218

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B6I-0164UF**.

Engine & Equipment Application

CATERPILLAR 3056T

INDUSTRIAL ENGINE

TURBOCHARGED

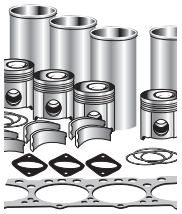
6 Cyl

Bore: 3.937 in
100.0 mm

ESN 1ML1-UP

ENGINE ARRANGEMENT
6I-2218
6I-2219
6I-2223
6I-2224
103-8804

APPLICATIONS:
OLYMPIAN
GEP88-SP1
GEP110



1) Engine O/H Kit
2) Basic Engine Kit
1) BOK701/45° BOK701/30°
2) BBK701



Piston-Liner Kit

BCK553
Consists of:
a) B107-2553
b) B112-7020
c) B6I-0164 (1)
6 Per Engine



Main Bearing Set

B7W-4589 **Std.**
B7W-4590 **.010**
B7W-4591 **.020**
B7W-4592 **.030**
Set of 7 Pairs



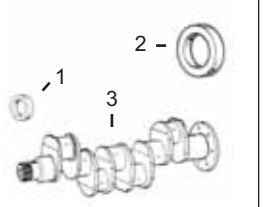
Con Rod Bearing Set

B7W-4816 **Std.**
B7W-4817 **.010**
B7W-4818 **.020**
B7W-4819 **.030**
Set of 6 Pairs



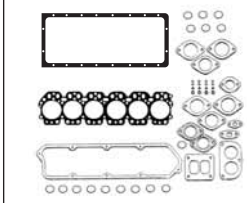
Thrust Washer Set

B032-9090/91 **Std.**
B067-6873/74 **.007**
Set of 2 Pairs



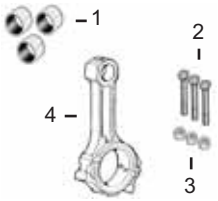
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B4W-5360
3) B193-0159



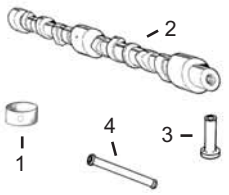
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket

1) B103-0081
2) B103-0080
3) B6I-3875



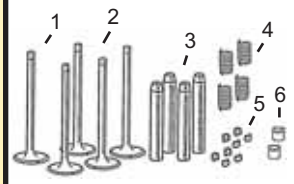
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B7W-2510 ***X6***
2) B067-6883 ***X12***
3) B7W-2505 ***X12***
4) B7W-2514



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B6I-4353
3) B138-2053
4) B067-6095



Valve Train Kit
a) 45° b) 30°
a) BVTK751
b) BVTK754

1) Valve, Intake
a) 45° b) 30°
2) Valve, Exhaust
1a) B6I-1196 ***X6***
b) B100-4626 ***X6***
2) B7W-4602 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust
a) B160-5436 ***X6***
b) B160-5438 ***X6***

4) Spring, Valve
a) Inner
b) Outer
a) B6I-0284 ***X12***
b) B6I-0283 ***X12***

5) Lock, Valve
6) Seal, Valve
5) B067-6834 ***X24***
6) B1W-5849 ***X12***



Oil Pump

B100-3717



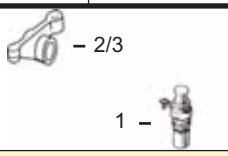
Lift Pump

B132-9447



1) Water Pump
2) Thermostat

1) B149-0539
2) B4W-8063



1) Glowplug
2) Rocker Arm LH
3) Rocker Arm RH

1) B035-8059
2) B150-1217
3) B150-1218

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3056T

INDUSTRIAL ENGINE

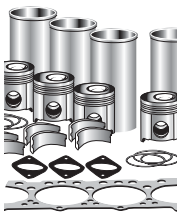
TURBOCHARGED

6 Cyl

Bore: 3.937 in
100.0 mm

APPLICATIONS:

OLYMPIAN
GEP105SP1
GEP150
GEP150-1
GEP165
GEP165-1
GEP188-1



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK706

2) BBK706



Piston-Liner Kit

BCK529
Consists of:
a) B124-3529
b) B112-7020
c) B111-1815 **(1)**

6 Per Engine



Main Bearing Set

B7W-4589 **Std.**
B7W-4590 **.010**
B7W-4591 **.020**
B7W-4592 **.030**

Set of 7 Pairs



Con Rod Bearing Set

B7W-4816 **Std.**
B7W-4817 **.010**
B7W-4818 **.020**
B7W-4819 **.030**

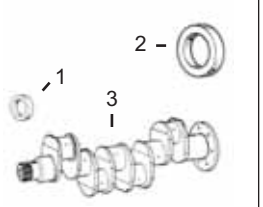
Set of 6 Pairs



Thrust Washer Set

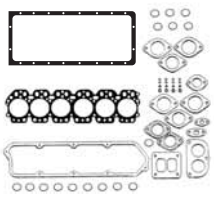
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



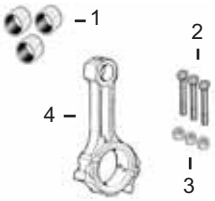
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B4W-5360
B209-9218
3) B193-0159



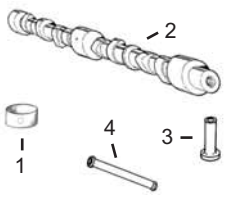
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket

1) B103-0081
2) B103-0080
3) B6I-3875



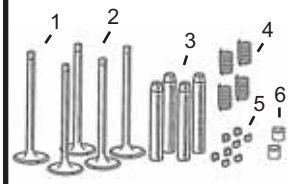
1) Bush, Con Rod
2) Bolt, Con Rod
3) Dowel, Con Rod
4) Con Rod

1) B124-3531 ***X6***
2) B124-3532 ***X12***
3) B124-3533 ***X12***
4) B124-3530



1) Bushing, Cam
2) Camshaft
3) Tappet
4) Push Rod

1) B036-5802 ***X1***
2) B6I-4353
3) B138-2053
4) B067-6095



Valve Train Kit

BVTK754

1) Valve, Intake
2) Valve, Exhaust

1) B100-4626 ***X6*** **(2)**
2) B7W-4602 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

a) B160-5436 ***X6***
b) B160-5438 ***X6***

4) Spring, Valve
a) Inner
b) Outer

a) B6I-0284 ***X12***
b) B6I-0283 ***X12***

5) Lock, Valve
6) Seal, Valve

5) B067-6834 ***X24***
6) B1W-5849 ***X12***



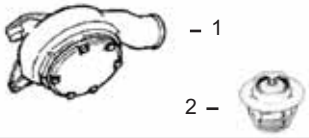
Oil Pump

B100-3717



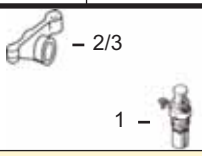
Lift Pump

B132-9447



1) Water Pump
2) Thermostat

1) B149-0539
2) B4W-8063



1) Glowplug
2) Rocker Arm LH
3) Rocker Arm RH

1) B035-8059
2) B150-1217
3) B150-1218

(1) Flanged, Semi Finished Liner available, **B6I-0164UF**.
(2) 30° Angle.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3056

INDUSTRIAL ENGINE

TURBOCHARGED or NATURALLY ASPIRATED

6 Cyl

Bore: 3.937 in
100.00 mm

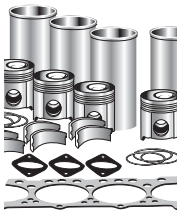
ESN 7MS1 - 2098

ENGINE ARRANGEMENT

145-9235	204-5211
163-0101	205-8747
163-0870	206-7850
173-9705	208-5963
183-5132	218-4670
184-5444	223-1158
185-3600	234-9528
187-1338	236-6617
194-2050	239-6060
196-5004	

APPLICATIONS:

924G Wheeled Loader



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK702/45° BOK702/30°

2) BBK702



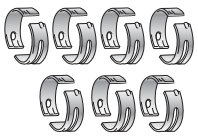
Piston-Liner Kit

BCK390

Consists of:

a) B152-1390
b) B138-2073
c) B111-1815 (1)

6 Per Engine



Main Bearing Set

B7W-4589	**Std.**	
B7W-4590	**.010**	
B7W-4591	**.020**	
B7W-4592	**.030**	

Set of 7 Pairs



Con Rod Bearing Set

B7W-4816	**Std.**	
B7W-4817	**.010**	
B7W-4818	**.020**	
B7W-4819	**.030**	

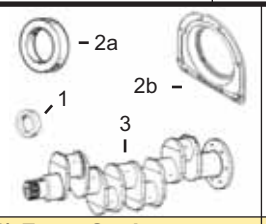
Set of 6 Pairs



Thrust Washer Set

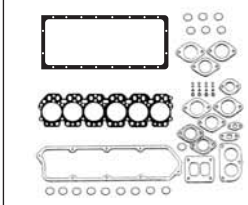
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



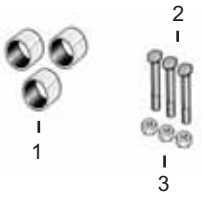
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (2)
2b) B209-9218 (3)
3) B193-0159



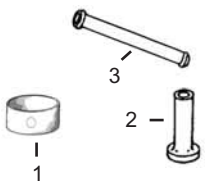
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket

1) B187-1963
2) B232-3073
3) B6I-3875



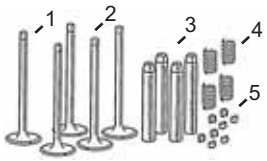
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

1) B138-2048 ***X6***
2) B067-6883 ***X12***
3) B7W-2505 ***X12***



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 ***X1***
2) B138-2053
3) B067-6095
4) B145-6856 ***X6***
5) B145-6858 ***X6***



Valve Train Kit
a) 45° b) 30°

a) BVTK752
b) BVTK753

1) Valve, Intake
2) Valve, Exhaust
a) 45° b) 30°

1a) B138-2052 ***X6***
b) B145-6855 ***X6***
2a) B138-2050 ***X6***
b) B145-6857 ***X6***

3) Guide, Valve
a) Intake
b) Exhaust

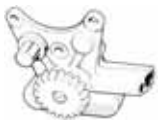
a) B185-0882 ***X6***
b) B163-9256 ***X6***

4) Spring, Valve

4) B206-4127 ***X12***

5) Lock, Valve

5) B147-1979 ***X24***



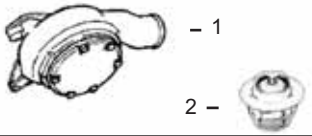
Oil Pump

B100-3717



Lift Pump

B132-9447



1) Water Pump
2) Thermostat

1) B239-6142
2) B4W-8063

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.
(2) To ESN: 7MS1285.
(3) From ESN: 7MS1286.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR 3056

INDUSTRIAL ENGINE

TURBOCHARGED or NATURALLY ASPIRATED

6 Cyl

Bore: 3.937 in
100.00 mm

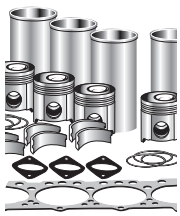
ESN 7MS2099 - UP

ENGINE ARRANGEMENT

163-0101	204-5211
163-0870	205-8747
173-9705	206-7850
183-5132	208-5963
184-5444	218-4670
185-3600	223-1158
187-1338	234-9528
194-2050	236-6617
196-5004	239-6060

APPLICATIONS:

924G Wheeled Loader



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK703/45° BOK703/30°

2) BBK703



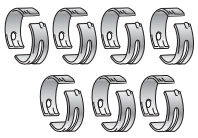
Piston-Liner Kit

BCK390

Consists of:

a) B152-1390
b) B138-2073
c) B111-1815 (1)

6 Per Engine



Main Bearing Set

B7W-4589	Std.
B7W-4590	.010
B7W-4591	.020
B7W-4592	.030

Set of 7 Pairs



Con Rod Bearing Set

B236-4397	Std.
B236-4397A	.010
B236-4397B	.020
B236-4397C	.030

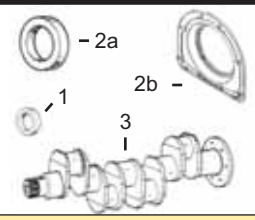
Set of 6 Pairs



Thrust Washer Set

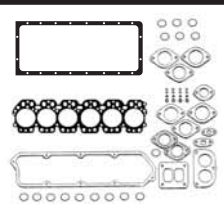
B032-9090/91 Std.
B067-6873/74 .007

Set of 2 Pairs



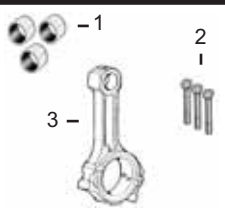
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2a) B4W-5360 (2)
2b) B209-9218 (3)
3) B193-0159



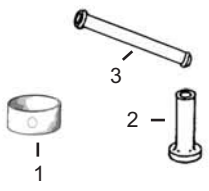
1) Top Gasket Set
2) Bottom Gasket Set
3) Head Gasket

1) B187-1963
2) B232-3073
3) B6I-3875



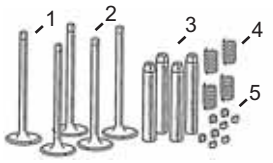
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X6*
2) B225-5439 *X12*
3) B225-5453 (4)



1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 *X1*
2) B138-2053
3) B067-6095
4) B145-6856 *X6*
5) B145-6858 *X6*



Valve Train Kit
a) 45° b) 30°

a) BVTK752
b) BVTK753

1) Valve, Intake
2) Valve, Exhaust
a) 45° b) 30°

1a) B138-2052 *X6*
b) B145-6855 *X6*
2a) B138-2050 *X6*
b) B145-6857 *X6*

3) Guide, Valve
a) Intake
b) Exhaust

a) B185-0882 *X6*
b) B163-9256 *X6*

4) Spring, Valve

4) B206-4127 *X12*

5) Lock, Valve

5) B147-1979 *X24*



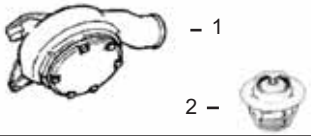
Oil Pump

B100-3717



Lift Pump

B132-9447



1) Water Pump
2) Thermostat

1) B239-6142
2) B4W-8063

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.
(2) To ESN: 7MS1285.
(3) From ESN: 7MS1286.
(4) Grade J; Fracture Split Type ESN 7MS2099-UP.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR 3056E

INDUSTRIAL ENGINE

TURBOCHARGED

6 Cyl

Bore: 3.937 in / 100.00 mm

Stroke: 5.00 in / 127.00 mm

Compression Ratio: 17.25:1

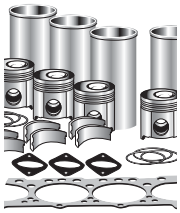
ESN CPT1 - 843

ENGINE ARRANGEMENT

176-3165	207-1166
176-3166	254-2236
179-1797	295-9745
188-5096	297-4053
188-5097	297-4054
188-5098	302-0524
206-2745	302-0525
207-1121	

APPLICATIONS:

930G Wheeled Loader
CS583E Vibratory Compactor



1) Engine O/H Kit

2) Basic Engine Kit

1) BOK704

2) BBK704



Piston-Liner Kit

BCK323

Consists of:

a) B216-8323
b) B217-1573
c) B111-1815 (1)

6 Per Engine



Main Bearing Set

B7W-4589 **Std.**
B7W-4590 **.010**
B7W-4591 **.020**
B7W-4592 **.030**

Set of 7 Pairs



Con Rod Bearing Set

B7W-4816 **Std.**
B7W-4817 **.010**
B7W-4818 **.020**
B7W-4819 **.030**

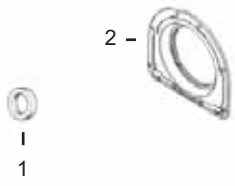
Set of 6 Pairs



Thrust Washer Set

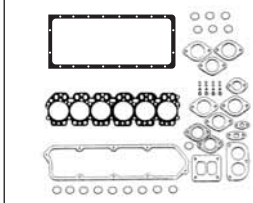
B032-9090/91 **Std.**
B067-6873/74 **.007**

Set of 2 Pairs



1) Front Seal
2) Rear Seal

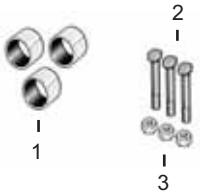
1) B4W-5359
2) B209-9218



1) Top Gasket Set
2) Bottom Gasket Set

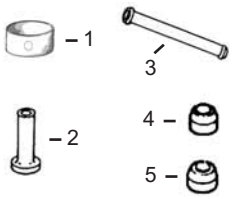
3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B216-9612
2) B236-6930
3) B216-9604
4) B240-0205
5) B6I-4710



1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod

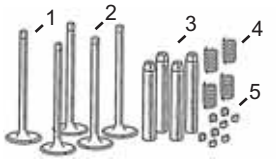
1) B138-2048 ***X6***
2) B067-6883 ***X12***
3) B7W-2505 ***X12***



1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B036-5802 ***X1***
2) B138-2053
3) B067-6095
4) B145-6856 ***X6***
5) B145-6858 ***X6***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
BVTK755	1) B145-6855 ***X6*** 2) B138-2050 ***X6***	a) B185-0882 ***X6*** b) B163-9256 ***X6***	4) B206-4127 ***X12***	5) B147-1979 ***X24***



Oil Pump

B216-8625



Lift Pump

B216-9043



Water Pump

B234-6110

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.

Engine & Equipment Application

CATERPILLAR 3056E

INDUSTRIAL ENGINE

TURBOCHARGED

6 Cyl

Bore: 3.937 in / 100.00 mm

Stroke: 5.00 in / 127.00 mm

Compression Ratio: 17.25:1

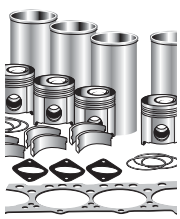
ESN CPT844 - UP

ENGINE ARRANGEMENT

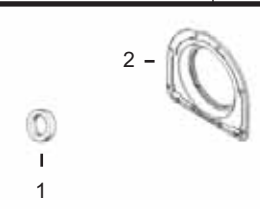
176-3165, 176-3166, 179-1797, 188-5096, 188-5097, 188-5098, 206-2745, 207-1121, 207-1166, 254-2236, 295-9745, 297-4053, 297-4054, 302-0524, 302-0525

APPLICATIONS:

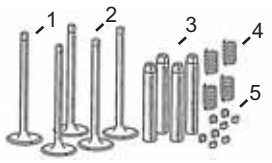
930G Wheeled Loader
CS583E Vibratory Compactor



1) Engine O/H Kit	**Piston-Liner Kit**	**Main Bearing Set**	**Con Rod Bearing Set**	**Thrust Washer Set**
2) Basic Engine Kit	**BCK323**	B7W-4589 **Std.**	B236-4397 **Std.**	B032-9090/91 **Std.**
1) BOK705	Consists of:	B7W-4590 **.010**	B236-4397A **.010**	B067-6873/74 **.007**
2) BBK705	a) B216-8323	B7W-4591 **.020**	B236-4397B **.020**	
	b) B217-1573	B7W-4592 **.030**	B236-4397C **.030**	
	c) B111-1815 **(1)**			
	6 Per Engine	**Set of 7 Pairs**	**Set of 6 Pairs**	**Set of 2 Pairs**



1) Front Seal **2) Rear Seal**	**1) Top Gasket Set** **2) Bottom Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod**	**1) Bushing, Cam**
	3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust
1) B4W-5359 2) B209-9218	1) B216-9612 2) B236-6930 3) B216-9604 4) B240-0205 5) B6I-4710	1) B225-5438 ***X6*** 2) B225-5439 ***X12*** 3) B225-5453 **(2)**	1) B036-5802 ***X1*** 2) B138-2053 3) B067-6095 4) B145-6856 ***X6*** 5) B145-6858 ***X6***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve a) Intake b) Exhaust	4) Spring, Valve	5) Lock, Valve
BVTK755	1) B145-6855 ***X6*** 2) B138-2050 ***X6***	a) B185-0882 ***X6*** b) B163-9256 ***X6***	4) B206-4127 ***X12***	5) B147-1979 ***X24***



Oil Pump

B216-8625



Lift Pump

B216-9043



Water Pump

B234-6110

(1) Flanged Fully Finished Liner. Semi Finished Liner available **B111-1815UF**.
(2) Fracture Split Type; Grade J.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR C2.2

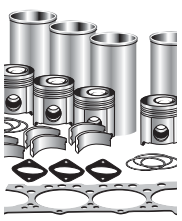
NATURALLY ASPIRATED

4 Cyl

Bore: 3.3 in / 84.00 mm

Stroke: 3.9 in / 100.00 mm

Displacement: 134.25 in³ / 2.2 Liter

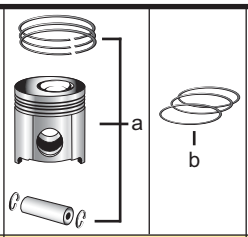


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK554** Std. / **BOK555** 0.50

2) **BBK554** Std. / **BBK555** 0.50



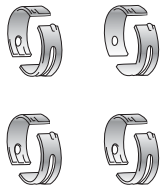
a) Piston Kit

b) Ring Set

a) **B297-3080** Std. / **B297-3080B** 0.50

b) **B154-0943** Std. / **B154-0943B** 0.50

4 Per Engine



Main Bearing Set

B154-1203 **Std.**

B161-7163 **.010**

B161-7164 **.020**

Set of 4 Pairs



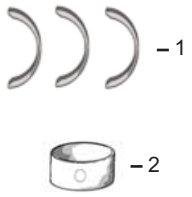
Con Rod Bearing Set

B146-7808 **Std.**

B307-9855 **.010**

B307-9856 **.020**

Set of 4 Pairs



1) Thrust Washer

2) Crank Bushing

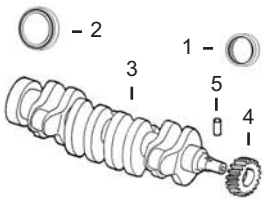
1) B154-1230/31 **Std.**

Set of 3 Pcs

2) B294-4916 **Std.**

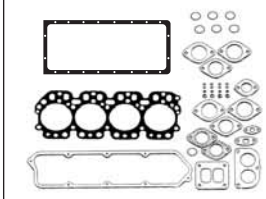
B302-4181 **.010**

B302-4182 **.020**



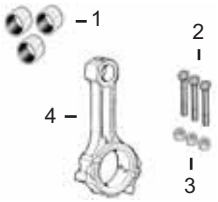
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) B154-1675
2) B154-0178
3) B308-1852 (1)
4) B308-1853
5) B153-5518



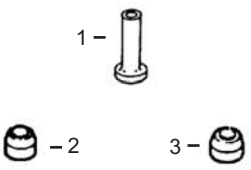
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) BC22TOG
2) B322-7486
3) B217-2752
4) B233-0695
5) B215-2605



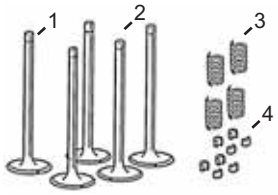
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X4*
2) B154-0870 *X8*
3) B154-0871 *X8*
4) B154-0867



1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X4*
3) B153-5554 *X4*



Valve Train Kit

BVTK558

1) Valve, Intake
2) Valve, Exhaust

1) B154-0888 *X4*
2) B154-0889 *X4*

3) Spring, Valve

3) B153-5558 *X8*

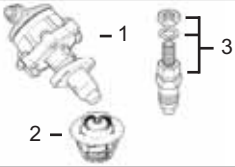
4) Lock, Valve

4) B153-5556 *X16*



Oil Cooler

B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) Do not use in applications that require a Crankshaft Driven Balancer Unit.

Engine & Equipment Application

CATERPILLAR C2.2

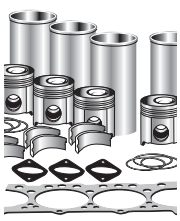
TURBOCHARGED

4 Cyl

Bore: 3.3 in / 84.00 mm

Stroke: 3.9 in / 100.00 mm

Displacement: 134.25 in^3 / 2.2 Liter

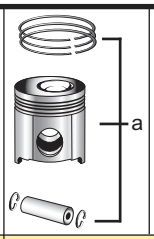


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK556** Std.
BOK557 0.50

2) **BBK556** Std.
BBK557 0.50



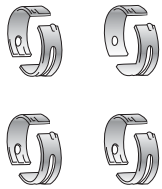
a) Piston Kit

b) Ring Set

a) **B270-6968** Std.
B270-6968B 0.50

b) **B270-6970** Std.
B270-6970B 0.50

4 Per Engine



Main Bearing Set

B154-1203 Std.

B161-7163 .010
B161-7164 .020

Set of 4 Pairs

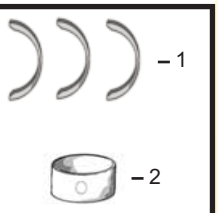


Con Rod Bearing Set

B146-7808 Std.

B307-9855 .010
B307-9856 .020

Set of 4 Pairs

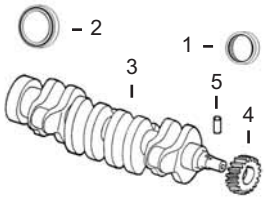


1) Thrust Washer
2) Crank Bushing

1) B154-1230/31 Std.

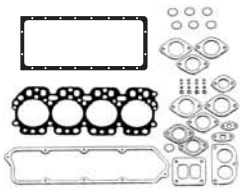
Set of 3 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



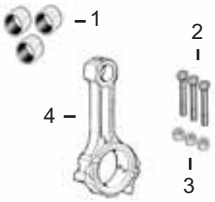
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) B154-1675
2) B154-0178
3) B308-1852 (1)
4) B308-1853
5) B153-5518



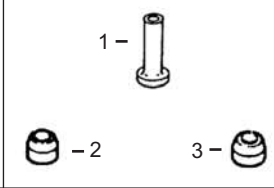
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) BC22TOG
2) B322-7486
3) B217-2752
4) B233-0695
5) B215-2605



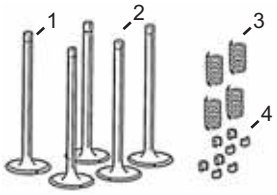
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X4*
2) B154-0870 *X8*
3) B154-0871 *X8*
4) B154-0867



1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X4*
3) B153-5554 *X4*



Valve Train Kit

BVTK558

1) Valve, Intake
2) Valve, Exhaust

1) B154-0888 *X4*
2) B154-0889 *X4*

3) Spring, Valve

3) B153-5558 *X8*

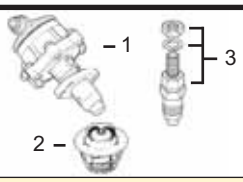
4) Lock, Valve

4) B153-5556 *X16*



Oil Cooler

B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) Do not use in applications that require a Crankshaft Driven Balancer Unit.

Engine & Equipment Application

CATERPILLAR C2.2

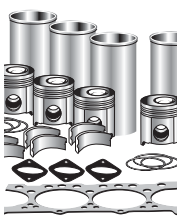
TURBOCHARGED AFTERCOOLED

4 Cyl

Bore: 3.3 in / 84.00 mm

Stroke: 3.9 in / 100.00 mm

Displacement: 134.25 in^3 / 2.2 Liter

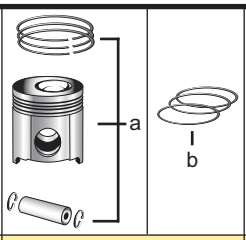


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK558** Std.
BOK559 0.50

2) **BBK558** Std.
BBK559 0.50



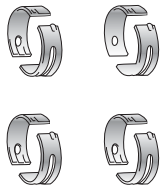
a) Piston Kit

b) Ring Set

a) **B270-6968** Std.
B270-6968B 0.50

b) **B270-6970** Std.
B270-6970B 0.50

4 Per Engine



Main Bearing Set

B154-1203 Std.
B161-7163 .010
B161-7164 .020

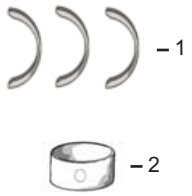
Set of 4 Pairs



Con Rod Bearing Set

B146-7808 Std.
B307-9855 .010
B307-9856 .020

Set of 4 Pairs

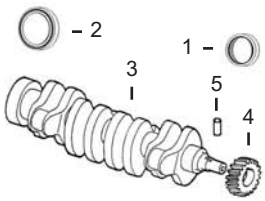


1) Thrust Washer
2) Crank Bushing

1) B154-1230/31 Std.

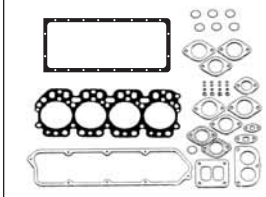
Set of 3 Pcs

2) B294-4916 Std.
B302-4181 .010
B302-4182 .020



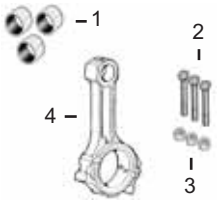
1) Front Seal
2) Rear Seal
3) Crankshaft
4) Crankshaft Gear
5) Key, Crankshaft Gear

1) B154-1675
2) B154-0178
3) B308-1852 (1)
4) B308-1853
5) B153-5518



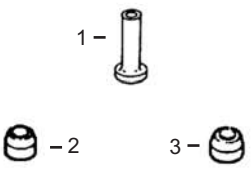
1) O/H Gasket Set
2) Cylinder Head Gasket
3) Seal Rocker
4) Seal, Cyl Head Cover
5) Oil Pan Gasket

1) BC22TOG
2) B322-7486
3) B217-2752
4) B233-0695
5) B215-2605



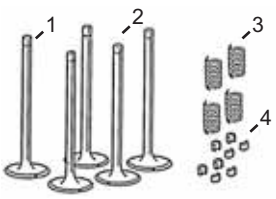
1) Bush, Con Rod
2) Bolt, Con Rod
3) Nut, Con Rod
4) Con Rod

1) B154-0869 *X4*
2) B154-0870 *X8*
3) B154-0871 *X8*
4) B154-0867



1) Tappet
2) Seal, Valve Intake
3) Seal, Valve Exhaust

1) B154-1249
2) B153-5559 *X4*
3) B153-5554 *X4*



Valve Train Kit

BVTK568

1) Valve, Intake
2) Valve, Exhaust

1) B154-0888 *X4*
2) B344-1624 *X4*

3) Spring, Valve

3) B153-5558 *X8*

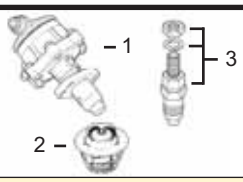
4) Lock, Valve

4) B153-5556 *X16*



Oil Cooler

B245-1361



1) Lift Pump
2) Thermostat
3) Injector

1) B176-7712
2) B249-5541
3) B252-1446



Repair Sleeve

84RS



Glowplug

B172-4585

(1) Do not use in applications that require a Crankshaft Driven Balancer Unit.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR C3.3

GENSET
NATURALLY ASPIRATED

3 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 201 in^3 / 3.3 Liter

ESN: N3C, NCC, N3X, X3B

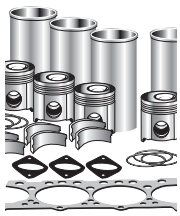
ENGINE ARRANGEMENT

266-4536 291-0356
266-4537 292-7767

APPLICATIONS:

OLYMPIAN

GEP26SP1 GEP33-1
GEP26SP2 GEP33-2
GEP26SP3 GEP33-3
GEP26SP4 GEP33-4
GEP30-1 GEP35SP-7
GEP30-2 GEP35SP-11

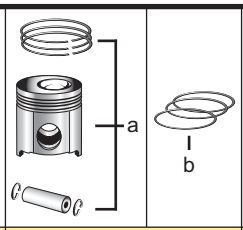


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK542** Std.
BOK543 0.50
BOK544 1.00

2) **BBK542** Std.
BBK543 0.50
BBK544 1.00

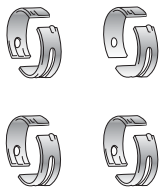


a) Piston & Ring Kit

b) Ring Set

a) B233-7232 Std.
B288-9942 0.50
B288-9943 1.00
3 Per Engine

b) B233-7231 Std.
B233-7231B 0.50
B233-7231D 1.00



Main Bearing Set

B261-6963 Std.
B275-0880 .010
B275-0881 .020
B275-0882 .030

Set of 4 Pairs



Con Rod Bearing Set

B273-9299 Std.
B273-9306 .010
B273-9307 .020
B273-9308 .030

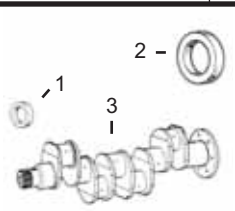
Set of 3 Pairs



Thrust Washer Set

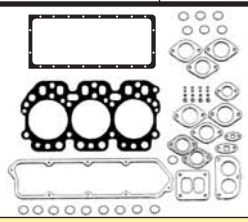
B032-9090/91 Std.
B067-6873/74 .007

Set of 2 Pairs



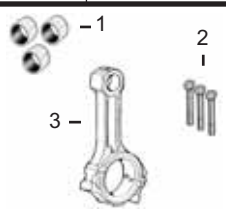
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B273-9297



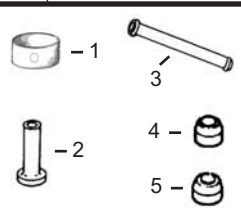
1) Top Gasket Set
2) Bottom Gasket Set
3) Timing Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B291-8885
2) B275-0885
3) B225-8287
4) B273-9375
5) B274-4695



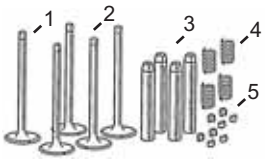
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *x3*
2) B225-5439 *x6*
3) B225-5453 (2)

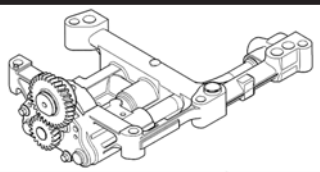


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *x1*
2) B138-2053
3) B067-6095
4) B252-6438 *x3*
5) B254-3954 *x3*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK561	1) B225-5495 *x3* 2) B225-5499 *x3*	3) B185-0882 *x6*	4) B225-5496 *x6*	5) B147-1979 *x12*



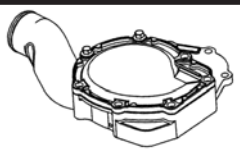
Oil Pump

B225-8329 (1) (3)
B231-0141 (3)



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Check with Build List.

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR C3.3

INDUSTRIAL NATURALLY ASPIRATED

3 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 201 in³ / 3.3 Liter

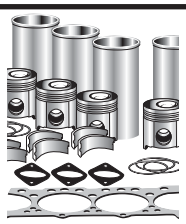
ESN: E3J1-UP

ENGINE ARRANGEMENT
284-5162

APPLICATIONS:

OLYMPIAN

GEP26SP1	GEP33-1
GEP26SP2	GEP33-2
GEP26SP3	GEP33-3
GEP26SP4	GEP33-4
GEP30-1	GEP35SP-7
GEP30-2	GEP35SP-11

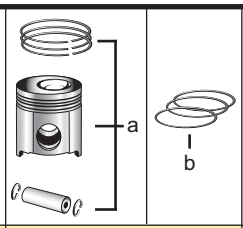


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK545** Std.
BOK546 0.50
BOK547 1.00

2) **BBK545** Std.
BBK546 0.50
BBK547 1.00

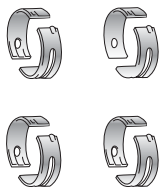


a) Piston & Ring Kit

b) Ring Set

a) B233-7232 Std.
B288-9942 0.50
B288-9943 1.00
3 Per Engine

b) B233-7231 Std.
B233-7231B 0.50
B233-7231D 1.00



Main Bearing Set

B261-6963 Std.

B275-0880 .010
B275-0881 .020
B275-0882 .030

Set of 4 Pairs



Con Rod Bearing Set

B273-9299 Std.

B273-9306 .010
B273-9307 .020
B273-9308 .030

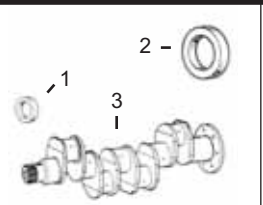
Set of 3 Pairs



Thrust Washer Set

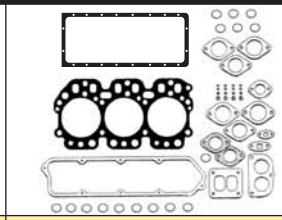
B032-9090/91 Std.
B067-6873/74 .007

Set of 2 Pairs



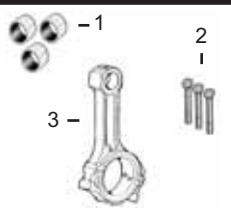
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B273-9297



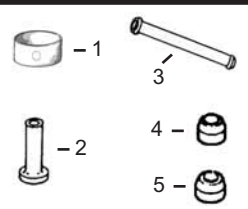
1) Top Gasket Set
2) Bottom Gasket Set
3) Timing Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B291-8885
2) B275-0885/2
3) B226-8766
4) B273-9375
5) B274-4695



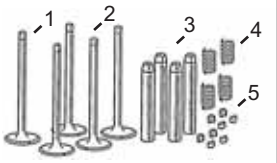
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *X3*
2) B225-5439 *X6*
3) B225-5453 (2)

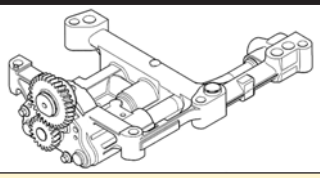


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) B138-2053
3) B067-6095
4) B252-6438 *X3*
5) B254-3954 *X3*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK561	1) B225-5495 *X3* 2) B225-5499 *X3*	3) B185-0882 *X6*	4) B225-5496 *X6*	5) B147-1979 *X12*



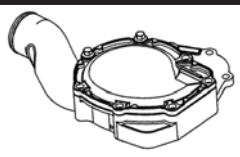
Oil Pump

B225-8329 (1) (3)
B231-0141 (3)



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.
(3) Check with Build List.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR C3.3T

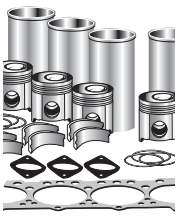
INDUSTRIAL TURBOCHARGED

3 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 201 in^3 / 3.3 Liter

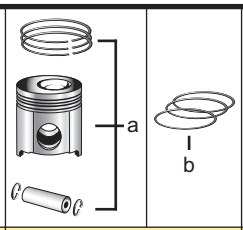


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK548** Std.
BOK549 0.50
BOK550 1.00

2) **BBK548** Std.
BBK549 0.50
BBK550 1.00

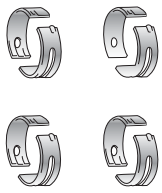


a) Piston & Ring Kit

b) Ring Set

a) B225-5437 Std.
B288-1394 0.50
B288-1395 1.00
3 Per Engine

b) B225-5436 Std.
B225-5436B 0.50
B225-5436D 1.00



Main Bearing Set

B261-6963 Std.
B275-0880 .010
B275-0881 .020
B275-0882 .030
Set of 4 Pairs



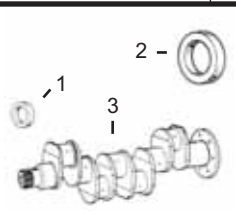
Con Rod Bearing Set

B273-9299 Std.
B273-9306 .010
B273-9307 .020
B273-9308 .030
Set of 3 Pairs



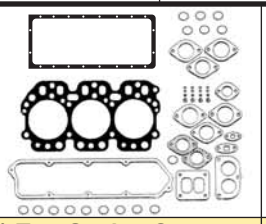
Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007
Set of 2 Pairs



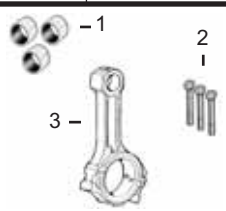
1) Front Seal
2) Rear Seal
3) Crankshaft Kit

1) B4W-5359
2) B232-7449
3) B273-9297



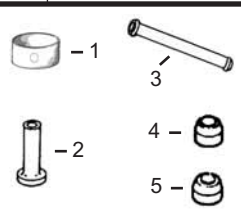
1) Top Gasket Set
2) Bottom Gasket Set
3) Timing Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

1) B291-8885
2) B275-0885
3) B225-8287
4) B273-9375
5) B274-4695



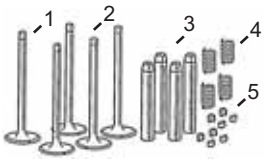
1) Bush, Con Rod
2) Bolt, Con Rod
3) Con Rod

1) B225-5438 *x3*
2) B225-5439 *x6*
3) B225-5453 (2)

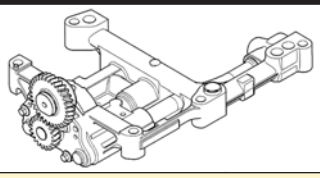


1) Bushing, Cam
2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *x1*
2) B138-2053
3) B067-6095
4) B252-6438 *x3*
5) B254-3954 *x3*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK561	1) B225-5495 *x3* 2) B225-5499 *x3*	3) B185-0882 *x6*	4) B225-5496 *x6*	5) B147-1979 *x12*



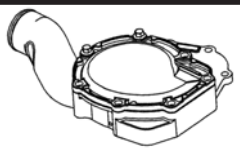
Oil Pump

B225-8329 (1)



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

For Additional CATERPILLAR® Products Refer to Page B38

MAXIFORCE® DIESELENGINEPARTS

Engine & Equipment Application

CATERPILLAR C3.3T

INDUSTRIAL TURBOCHARGED

3 Cyl

Bore: 4.133 in / 105.00 mm

Stroke: 5.00 in / 127.00 mm

Displacement: 201 in³ / 3.3 Liter

ESN: E3J1-UP

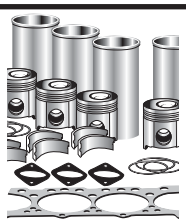
ENGINE ARRANGEMENT

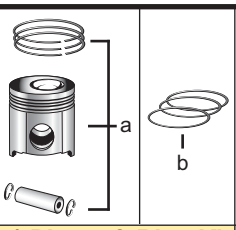
284-5163 284-5164

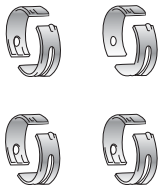
APPLICATIONS:

OLYMPIAN

GEP44-2, GEP44-5, GEP35SP2, GEP35SP4, GEP35SP5, GEP35SP9, GEP50-4, GEP50-5, GEP50-7, GEP50SP5, GEP50SP9, GEP55-1, GEP55-3, GEP65-5, GEP65-9



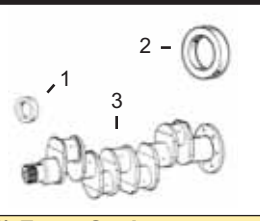


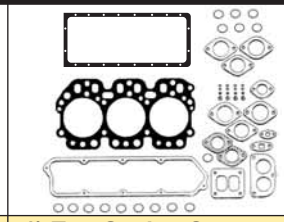


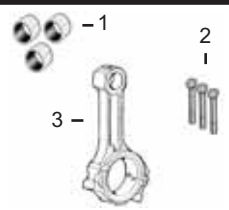


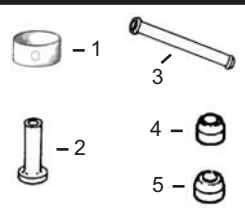


1) Engine O/H Kit	a) Piston & Ring Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	a) B225-5437 **Std.** B288-1394 **0.50** B288-1395 **1.00** **3 Per Engine**	B261-6963 **Std.**	B273-9299 **Std.**	B032-9090/91 **Std.**
1) **BOK551** **Std.** **BOK552** **0.50** **BOK553** **1.00**		B275-0880 **.010** B275-0881 **.020** B275-0882 **.030**	B273-9306 **.010** B273-9307 **.020** B273-9308 **.030**	B067-6873/74 **.007**
2) **BBK551** **Std.** **BBK552** **0.50** **BBK553** **1.00**	b) B225-5436 **Std.** B225-5436B **0.50** B225-5436D **1.00**	**Set of 4 Pairs**	**Set of 3 Pairs**	**Set of 2 Pairs**

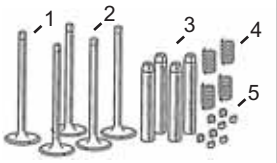




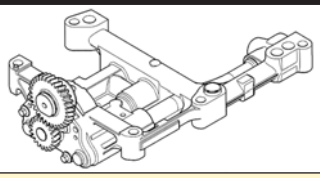




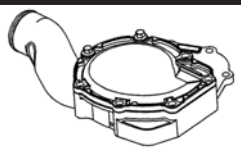
1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Timing Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust
1) B4W-5359 2) B232-7449 3) B273-9297	1) B291-8885 2) B275-0885/2 3) B226-8766 4) B273-9375 5) B274-4695	1) B225-5438 ***X3*** 2) B225-5439 ***X6*** 3) B225-5453 **(2)**	1) B232-7440 ***X1*** 2) B138-2053 3) B067-6095 4) B252-6438 ***X3*** 5) B254-3954 ***X3***



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK561	1) B225-5495 ***X3*** 2) B225-5499 ***X3***	3) B185-0882 ***X6***	4) B225-5496 ***X6***	5) B147-1979 ***X12***









Oil Pump	Lift Pump	Water Pump	Water Pump Gasket
B225-8329 **(1)**	B350-4315	B225-8016	B225-8019

(1) Not to be used on Engines with Balancer Units.
(2) Grade J.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR C4.4T/TA

TURBOCHARGED

4 Cyl

Tier 3

ESN: CRS1-UP, G4D1-UP, D1K, E4M

Bore: 4.133 in / 105.00 mm

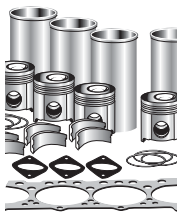
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

APPLICATIONS:

BACKHOE LOADERS

SKID STEER

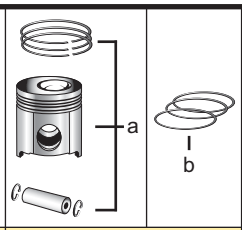


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK600** Std.
BOK601 0.50

2) **BBK600** Std.
BBK601 0.50



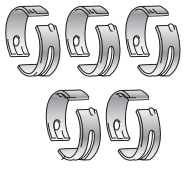
a) Piston & Ring Kit

b) Ring Set

a) B315-3395 Std.
B396-4592 0.50

4 Per Engine

b) B276-7476 Std.
B380-2065 0.50



Main Bearing Set

B353-7423 Std.
B353-7424 .010
B353-7425 .020
B353-7426 .030

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 Std. (1)
B233-3788 .010 (1)
B233-3789 .020 (1)
B233-3790 .030 (1)

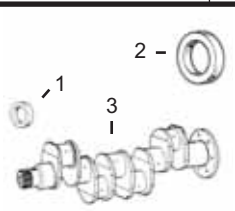
Set of 4 Pairs



Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007

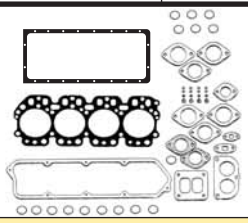
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

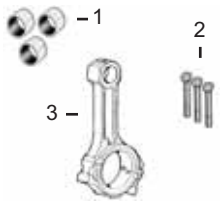
1) B4W-5359
2) B232-7449
3) B232-7400



1) Top Gasket Set
2) Bottom Gasket Set

3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

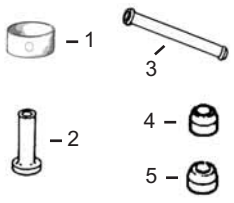
1) B276-3420
2) B272-2232 (1)
3) B225-6451
4) B240-7194
5) B225-6005



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod

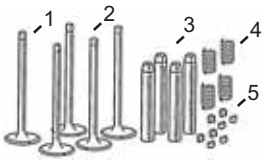
1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453



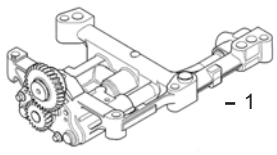
1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) N/A
3) N/A
4) B252-6438 *X4*
5) B254-3954 *X4*



Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK562	1) B315-3390 *X4* 2) B315-3394 *X4*	B185-0882 *X8*	4) N/A	5) N/A





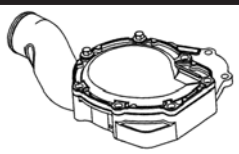
1) Oil Pump
2) Oil Cooler

1) B225-8329
2) B225-6817



Lift Pump

B350-4315



Water Pump

B225-8016



Water Pump Gasket

B225-8019



Repair Sleeve

105RS

(1) Check your connecting rod journal outside diameter for the proper connecting rod bearings **B225-7781**: Journal OD is 63.48 mm (2.4992 in); if journal OD is 67.99 mm (2.6768 in) order **B360-3986**.
(2) Bottom gasket contains: **225-8287** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.

For Additional CATERPILLAR® Products Refer to Page B38

Engine & Equipment Application

CATERPILLAR C4.4T/TA

TURBOCHARGED

4 Cyl

Tier 3

ESN: CRS1-UP, G4D1-UP, D1K, E4M

Bore: 4.133 in / 105.00 mm

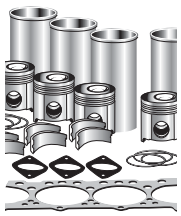
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

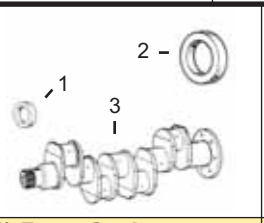
APPLICATIONS:

BACKHOE LOADERS

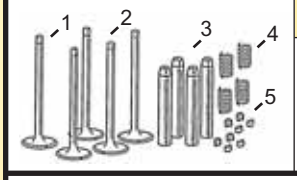
SKID STEER



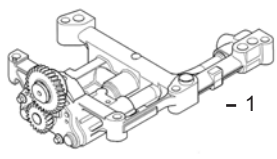
1) Engine O/H Kit	a) Piston & Ring Kit b) Ring Set	Main Bearing Set	Con Rod Bearing Set	Thrust Washer Set
2) Basic Engine Kit	a) B315-3395 **Std.** B396-4592 **0.50**	B353-7423 **Std.**	B255-7781 **Std.** (1)	B032-9090/91 **Std.**
1) **BOK603** **Std.** **BOK604** **0.50**	**4 Per Engine**	B353-7424 **.010** B353-7425 **.020** B353-7426 **.030**	B233-3788 **.010** (1) B233-3789 **.020** (1) B233-3790 **.030** (1)	B067-6873/74 **.007**
2) **BBK603** **Std.** **BBK604** **0.50**	b) B276-7476 **Std.** B380-2065 **0.50**	**Set of 5 Pairs**	**Set of 4 Pairs**	**Set of 2 Pairs**

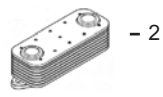


1) Front Seal 2) Rear Seal	1) Top Gasket Set 2) Bottom Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod	1) Bushing, Cam
3) Crankshaft Kit	3) Valve Cover Gasket 4) Head Gasket 5) Oil Pan Gasket	3) Con Rod	2) Tappet 3) Push Rod 4) Seal, Valve Intake 5) Seal, Valve Exhaust
1) B4W-5359 2) B232-7449 3) B232-7400	1) B276-3420 2) B237-5942 (1) 3) B225-6451 4) B240-7194 5) B237-5932	1) B225-5438 ***X4*** 2) B225-5439 ***X8*** 3) B225-5453	1) B232-7440 ***X1*** 2) N/A 3) N/A 4) B252-6438 ***X4*** 5) B254-3954 ***X4***

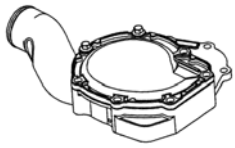


Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK562	1) B315-3390 ***X4*** 2) B315-3394 ***X4***	B185-0882 ***X8***	4) N/A	5) N/A













1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) B225-8329 2) B225-6817	B350-4315	B225-8016	B225-8019	105RS

(1) Check your connecting rod journal outside diameter for the proper connecting rod bearings **B225-7781**: Journal OD is 63.48 mm (2.4992 in); if journal OD is 67.99 mm (2.6768 in) order **B360-3986**.
(2) Bottom gasket contains: **225-8287** Timing Cover Gasket and **B237-5932** Oil Pan Gasket.

Engine & Equipment Application

CATERPILLAR C4.4T/TA

TURBOCHARGED

4 Cyl

Tier 3

ESN: CRS1-UP, G4D1-UP, D1K, E4M

Bore: 4.133 in / 105.00 mm

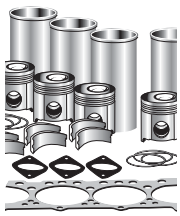
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in^3 / 4.4 Liter

APPLICATIONS:

BACKHOE LOADERS

SKID STEER

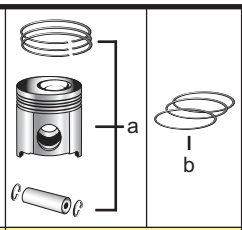


1) Engine O/H Kit

2) Basic Engine Kit

1) **BOK606** Std.
BOK607 0.50

2) **BBK606** Std.
BBK607 0.50



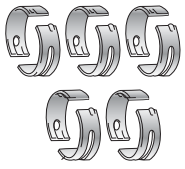
a) Piston & Ring Kit

b) Ring Set

a) B315-3395 Std.
B396-4592 0.50

4 Per Engine

b) B276-7476 Std.
B380-2065 0.50



Main Bearing Set

B353-7423 Std.
B353-7424 .010
B353-7425 .020
B353-7426 .030

Set of 5 Pairs



Con Rod Bearing Set

B255-7781 Std. (1)
B233-3788 .010 (1)
B233-3789 .020 (1)
B233-3790 .030 (1)

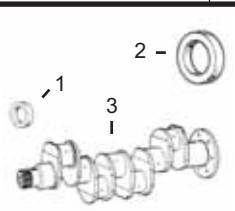
Set of 4 Pairs



Thrust Washer Set

B032-9090/91 Std.
B067-6873/74 .007

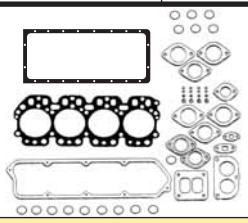
Set of 2 Pairs



1) Front Seal
2) Rear Seal

3) Crankshaft Kit

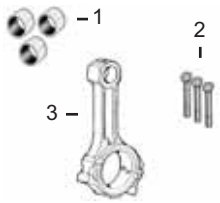
1) B4W-5359
2) B232-7449
3) B232-7400



1) Top Gasket Set
2) Bottom Gasket Set

3) Valve Cover Gasket
4) Head Gasket
5) Oil Pan Gasket

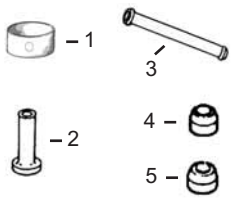
1) B276-3420
2) B233-0333 (2)
3) B225-6451
4) B240-7194
5) B225-6005



1) Bush, Con Rod
2) Bolt, Con Rod

3) Con Rod

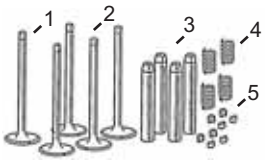
1) B225-5438 *X4*
2) B225-5439 *X8*
3) B225-5453



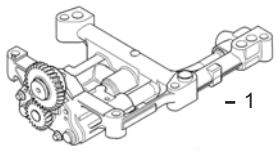
1) Bushing, Cam

2) Tappet
3) Push Rod
4) Seal, Valve Intake
5) Seal, Valve Exhaust

1) B232-7440 *X1*
2) N/A
3) N/A
4) B252-6438 *X4*
5) B254-3954 *X4*



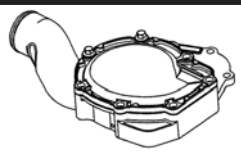
Valve Train Kit	1) Valve, Intake 2) Valve, Exhaust	3) Guide, Valve (Intake & Exhaust)	4) Spring, Valve	5) Lock, Valve
BVTK562	1) B315-3390 *X4* 2) B315-3394 *X4*	B185-0882 *X8*	4) N/A	5) N/A



1) Oil Pump
2) Oil Cooler



Lift Pump



Water Pump



Water Pump Gasket



Repair Sleeve

1) Oil Pump 2) Oil Cooler	Lift Pump	Water Pump	Water Pump Gasket	Repair Sleeve
1) B225-8329 2) B225-6817	B350-4315	B225-8016	B225-8019	105RS

(1) Check your connecting rod journal outside diameter for the proper connecting rod bearings **B225-7781**: Journal OD is 63.48 mm (2.4992 in); if journal OD is 67.99 mm (2.6768 in) order **B360-3986**.
(2) Bottom gasket contains: **226-8766** Timing Cover Gasket and **B225-6005** Oil Pan Gasket.

For Additional CATERPILLAR® Products Refer to Page B38

Miscellaneous Parts

Available from Maxiforce

Part Number	Description
B033-7687	Starter Motor Ring Gear (126 Teeth)
B7W-6247	Starter Motor Ring Gear (115 Teeth)
B186-2374	Starter Motor Ring Gear (122 Teeth)
B194-5390	Turbocharger Gasket
B225-6820	Oil Cooler Housing Gasket
B225-8282	Timing Cover Gasket
B225-8287	Timing Cover Gasket
B225-8536	Exhaust Manifold Gasket
B226-8766	Timing Cover Gasket

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Introduction to Yanmar® Section

Engine models covered by this User's Guide

ENGINE MODEL	*COMMENTS*	*BORE*	*PAGE*
3TNE84/T	KOMATSU **3D84E, 3D84N**	84 mm	**Y01**
4TNE84/T	KOMATSU **4D84E**	84 mm	**Y02**
TK486	Thermo King SB110, SB190, SB200,SB210, SB300 SB310, SB430	86 mm	**Y03**
3TNE88	KOMATSU **3D88E, 3D88**	88 mm	**Y04**
4TNE88	KOMATSU **4D88E**	88 mm	**Y05**
4TNE94	KOMATSU **4D94E**	94 mm	**Y06**
4TNE98	DIRECT INJECTION, KOMATSU **4D98E**	98 mm	**Y07**
4TNE98	INDIRECT INJECTION, KOMATSU **4D98E**	98 mm	**Y08**
4TNE106D	KOMATSU **4D106D**	106 mm	**Y09**
4TNE106T	KOMATSU **4D106T**	106 mm	**Y10**
3TNV84	MARINE PLEASURE **3JH3 *, 3JH3E *, 3JH3CE ***	84 mm	**Y11**
4TNV84	MARINE PLEASURE **4JH3 ***	84 mm	**Y12**
4TNV84T	KOMATSU **S4D84E**	84 mm	**Y13**
TK486V	Thermo King SB130, SB200TG, SB210+,SB230, SB310+, SB400, SPECTRUM	86 mm	**Y14**
3TNV88	KOMATSU **3D88E**, MARINE PLEASURE **3JH4, 3JH5**	88 mm	**Y15**
4TNV88	MARINE PLEASURE **4JH4E, 4JH5E**	88 mm	**Y16**
4TNV94L	KOMATSU **4D94LE**	94 mm	**Y17**
4TNV98	PISTON KIT 129927-22080 Std.	98 mm	**Y18**
4TNV98	PISTON KIT 129907-22090 Std.	98 mm	**Y19**
4TNV98T	PISTON KIT 129908-22080 Std., KOMATSU **S4D98E**	98 mm	**Y20**
4TNV98T	PISTON KIT 129928-22080 Std.	98 mm	**Y21**
4TNV106	KOMATSU **4D106**. **Tier 1 & 2**	106 mm	**Y22**

*** Maxiforce Top Ring is Rectangular Shaped.**

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MAXIFORCE® DIESELENGINEPARTS

YANMAR engines are OS (Original Suppliers) to several OEM'S (Original Equipment Manufacturers) as:

Broadcrown	Ingersoll Rand	Komatsu	Takeuchi
Carrier	John Deere	Mustang	Thermo King
Cub Cadet	Kobelco	Northern Lights	Vermeer
Gehl	Kohler	Onan	Volvo
High Power			

Maxiforce Engine Kit Composition for Yanmar® Engine Applications

YOK: <u>Engine Overhaul Kits Include</u>: Piston Kits, Main and Connecting Rod Bearings, Thrust Washer, Front and Rear Crankshaft Seal, Connecting Rod Bushing and Bolts, Camshaft Bushing, Overhaul Gasket Set, and Liquid gasket.

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	ENGINE	PAGE
Gehl			
3640E	Skid Steer	3TNV88	**Y15**
4240E	Skid Steer	4TNV88	**Y16**
7600	Skid Steer	4TNE106D	**Y09**
7800	Skid Steer	4TNE106T	**Y10**
SL3635	Skid Steer	3TNE88	**Y04**
SL3635	Skid Steer	3TNV88	**Y15**
SL3840	Skid Steer	3TNV88	**Y15**
SL3935	Skid Steer	3TNV88	**Y15**
SL4240	Skid Steer	4TNV88	**Y16**
HI POWER GENSET MODEL			
HYW-13 M5	HI Power	3TNV88	**Y15**
HYW-20 M5	HI Power	4TNV88	**Y16**
HYW-25 M5	HI Power	4TNV84T	**Y13**
HYW-30 M5	HI Power	4TNV98	**Y18**
HYW-30 M5	HI Power	4TNV98	**Y19**
HYW-40 M5	HI Power	4TNV98T	**Y20**
HYW-40 M5	HI Power	4TNV98T	**Y21**
HYW-14 M6	HI Power	3TNV88 BGGEH	**Y15**
HYW-20 M6	HI Power	4TNV88 BGGEH	**Y16**
HYW-25 M6	HI Power	4TNV84	**Y12**
HYW-25 M6	HI Power	4TNV84T	**Y13**
HYW-35 M6	HI Power	4TNV98	**Y18**
HYW-35 M6	HI Power	4TNV98	**Y19**
HYW-45 M6	HI Power	4TNV98T	**Y20**
HYW-45 M6	HI Power	4TNV98T	**Y21**
HYW-13 T5	HI Power	3TNV88	**Y15**
HYW-17 T5	HI Power	4TNV88	**Y16**
HYW-20 T5	HI Power	4TNV84T	**Y13**
HYW-35 T5	HI Power	4TNV98	**Y18**
HYW-35 T5	HI Power	4TNV98	**Y19**

MODEL	DESCRIPTION	ENGINE	PAGE
HI POWER GENSET MODEL continued			
HYW-45 T5	HI Power	4TNV98T	**Y20**
HYW-45 T5	HI Power	4TNV98T	**Y21**
HYW-14 T6	HI Power	3TNV88	**Y15**
HYW-20 T6	HI Power	4TNV88 BGGEH	**Y16**
HYW-25 T6	HI Power	4TNV84T BGGEH	**Y13**
HYW-35 T6	HI Power	4TNV98	**Y18**
HYW-35 T6	HI Power	4TNV98	**Y19**
HYW-45 T6	HI Power	4TNV98T	**Y20**
HYW-45 T6	HI Power	4TNV98T	**Y21**
HRYW-17 T5	HI Power	4TNV88	**Y16**
HRYW-20 T5	HI Power	4TNV84T	**Y13**
HRYW-35 T5	HI Power	4TNV98	**Y18**
HRYW-35 T5	HI Power	4TNV98	**Y19**
HRYW-45 T5	HI Power	4TNV98T	**Y20**
HRYW-45 T5	HI Power	4TNV98T	**Y21**
HRYW-20 T6	HI Power	4TNV88	**Y16**
HRYW-25 T6	HI Power	4TNV84T	**Y13**
HRYW-35 T6	HI Power	4TNV98	**Y18**
HRYW-35 T6	HI Power	4TNV98	**Y19**
HRYW-45 T6	HI Power	4TNV98T	**Y20**
HRYW-45 T6	HI Power	4TNV98T	**Y21**
HITACHI			
ZX27U-2	Mini Excavator	3TNV88	**Y15**
ZX30U-2	Mini Excavator	3TNV88	**Y15**
ZX30UR-2	Mini Excavator	3TNV88	**Y15**
ZX35U-2	Mini Excavator	3TNV88	**Y15**
ZX40U-2	Mini Excavator	4TNV88	**Y16**
ZX50U-2	Mini Excavator	4TNV88	**Y16**

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	ENGINE	PAGE
HYUNDAI			
HSL810	Skid Steer	4TNE98	**Y07**
R60-9S	Mini Excavator	4TNV94L	**Y17**
R60W-9S	Mini Excavator	4TNV94L	**Y17**
R80-CR-9	Mini Excavator	4TNE98	**Y07**
KOMATSU			
CD30R-1	Tracked Dumper	4TNE88	**Y05**
CK30-1	Compact Track Loader	4TNV98T	**Y20**
CK35-1	Compact Track Loader	4TNV98T	**Y20**
CR30R-1	Tracked Dumper	4TNE88	**Y05**
D20A-7-M	Crawler Tractor	4TNE94	**Y06**
D20A-8	Crawler Tractor	4TNV94L	**Y17**
D20P-7A-M	Crawler Tractor	4TNE94	**Y06**
D20P-8	Crawler Tractor	4TNV94L	**Y17**
D20PL-7-M	Crawler Tractor	4TNE94	**Y06**
D20PL-8	Crawler Tractor	4TNV94L	**Y17**
D20PLL-7-M	Crawler Tractor	4TNE94	**Y06**
D20PLL-8	Crawler Tractor	4TNV94L	**Y17**
D20Q-7-M	Crawler Tractor	4TNE94	**Y06**
D20S-7-M	Crawler Loader	4TNE94	**Y06**
D21A-7-M	Crawler Tractor	4TNE94	**Y06**
D21A-8	Crawler Tractor	4TNV94L	**Y17**
D21A-8E0	Crawler Tractor	4TNV94L	**Y17**
D21A-8T	Crawler Tractor	4TNV94L	**Y17**
D21P-7A-M	Crawler Tractor	4TNE94	**Y06**
D21PL-7-M	Crawler Tractor	4TNE94	**Y06**
D21A-7T-M	Crawler Tractor	4TNE98	**Y07**
D21P-7T-M	Crawler Tractor	4TNE98	**Y07**
D21Q-7-M	Crawler Tractor	4TNE94	**Y06**
D21S-7-M	Crawler Loader	4TNE94	**Y06**
D21A-8-W	Crawler Dozer	4TNV94L	**Y17**
D21P-8	Crawler Dozer	4TNV94L	**Y17**
D21P-8E0	Crawler Dozer	4TNV94L	**Y17**
D21P-8T	Crawler Dozer	4TNV94L	**Y17**
D21P-8-W	Crawler Dozer	4TNV94L	**Y17**
D21PL-8	Crawler Dozer	4TNV94L	**Y17**
GC50-1	Road Cutter	3TNE84	**Y01**
JV25CW-3	Vibratory Roller	3TNV84	**Y11**
JV25DW-3	Vibratory Roller	3TNV84	**Y11**
PC25-1	Excavator	3TNE84	**Y01**
PC30-7	Excavator	3TNE84	**Y01**
PC30MR-1-K	Excavator	3TNE84	**Y01**
PC30MR-2	Mini Excavator	3TNV84	**Y11**
PC30MR-2-A	Mini Excavator	3TNV84	**Y11**
PC30MR-2-B	Mini Excavator	3TNV84	**Y11**
PC30MR-2-C	Mini Excavator	3TNV84	**Y11**
PC30MR-2-D	Mini Excavator	3TNV84	**Y11**
PC30MR-3	Mini Excavator	3TNV88	**Y15**
PC30MRX-1	Excavator	3TNE84	**Y01**
PC30MRX-1A	Excavator	3TNE84	**Y01**
PC35MR-2	Mini Excavator	3TNV88	**Y15**

MODEL	DESCRIPTION	ENGINE	PAGE
KOMATSU continued			
PC35MR-2-A	Mini Excavator	3TNV88	**Y15**
PC35MR-2-B	Mini Excavator	3TNV88	**Y15**
PC35MR-2NA	Mini Excavator	3TNV88	**Y15**
PC35MR-2NB	Mini Excavator	3TNV88	**Y15**
PC35MR-2SA	Mini Excavator	3TNV88	**Y15**
PC35MR-2SB	Mini Excavator	3TNV88	**Y15**
PC35MR-3	Mini Excavator	3TNV88	**Y15**
PC35R-8	Excavator	3TNE84	**Y01**
PC35R-8	Mini Excavator	3TNV88	**Y15**
PC40-7	Mini Excavator	4TNE84	**Y02**
PC40FR-1	Mini Excavator	3TNE88	**Y04**
PC40FR-2	Mini Excavator	3TNE88	**Y04**
PC40MR-1	Mini Excavator	4TNE88	**Y05**
PC40MR-2	Mini Excavator	4TNV88	**Y16**
PC40MR-2-AC	Mini Excavator	4TNV88	**Y16**
PC40MR-A	Mini Excavator	4TNE88	**Y05**
PC40MRX-1	Mini Excavator	4TNE88	**Y05**
PC40MRX-1-E	Mini Excavator	4TNE84	**Y02**
PC40MRX-1-E	Mini Excavator	4TNE88	**Y05**
PC40MRX-1-N	Mini Excavator	4TNE88	**Y05**
PC40R-8	Mini Excavator	4TNE84	**Y02**
PC45-1	Mini Excavator	4TNE84	**Y02**
PC45MR-1	Mini Excavator	4TNE88	**Y05**
PC40MR-3	Mini Excavator	4TNV88	**Y16**
PC45MRX-1	Mini Excavator	4TNE88	**Y05**
PC45MRX-1-E	Mini Excavator	4TNE84	**Y02**
PC45R-8	Mini Excavator	4TNE84	**Y02**
PC45R-8	Mini Excavator	4TNV88	**Y16**
PC50FR-1	Mini Excavator	4TNE88	**Y05**
PC50FR-2	Mini Excavator	4TNE88	**Y05**
PC50MR-2	Skid Steer	4TNV84T	**Y13**
PC50MR-2	Mini Excavator	4TNV88	**Y16**
PC50MR-2-AC	Mini Excavator	4TNV88	**Y16**
PC50UD-2	Mini Excavator	4TNE88	**Y05**
PC50UG-2	Mini Excavator	4TNE88	**Y05**
PC50UU-2	Mini Excavator	4TNE88	**Y05**
PC50UU-2E	Mini Excavator	4TNE88	**Y05**
PC50UUM-2	Mini Excavator	4TNE88	**Y05**
PC55MR-3	Mini Excavator	4TNV88	**Y16**
PC58SF-1	Mini Excavator	4TNE88	**Y05**
PC58UU-3	Mini Excavator	4TNE88	**Y05**
PC58UU-3	Mini Excavator	4TNV88	**Y16**
PC58UU-3-N	Mini Excavator	4TNE88	**Y05**
PC70FR-1	Midi Excavator	4TNE98	**Y07**
PC75R-1	Midi Excavator	4TNE98	**Y07**
PC75R-2	Midi Excavator	4TNE98	**Y07**
PC75R-2	Midi Excavator	4TNV98D	**Y19**
PC75R-2HD	Midi Excavator	4TNV98D	**Y19**
PC95R-2	Midi Excavator	4TNE106D	**Y09**
PC110R-1	Midi Excavator	4TNE106T	**Y10**

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	ENGINE	PAGE
KOMATSU continued			
PC110R-1	Midi Excavator	4TNV106T	Y22
PW75-1	Mobile Excavator	4TNE98	Y07
PW75R-2	Mobile Excavator	4TNE98	Y07
PW75R-2	Mobile Excavator	4TNV98D	Y19
PC80MR-3	Midi Excavator	4TNV98	Y18
PW95R-2	Mobile Excavator	4TNE106D	Y09
PW110R-1	Mobile Excavator	4TNE106T	Y10
PW110R-1	Mobile Excavator	4TNV106T	Y22
SK09J-2	Skid Steer Loader	4TNE98	Y07
SK510	Skid Steer	4TNE84	Y02
SK714	Skid Steer	4TNE88	Y05
SK714-5	Skid Steer Loader	4TNV88	Y16
SK815	Skid Steer	4TNE84	Y02
SK815-5	Skid Steer	4TNV84T	Y13
SK815-5	Skid Steer Loader	4TNV88	Y16
SK818-5	Skid Steer Loader	4TNV88	Y16
SK820	Skid Steer	4TNE84	Y02
SK820-5	Skid Steer	4TNE84	Y02
SK820-5	Skid Steer	4TNV84T	Y13
SK1020-5	Skid Steer Loader	4TNV98T	Y20
SK1020-5N	Skid Steer Loader	4TNV98T	Y20
SK1026-5	Skid Steer Loader	4TNV98T	Y20
SK1026-5N	Skid Steer Loader	4TNV98T	Y20
WA30-5	Wheel Loader	3TNV84	Y11
WA30-5-NA	Wheel Loader	3TNE84	Y01
WA30-5-W	Wheel Loader	3TNE84	Y01
WA30-5-X	Wheel Loader	3TNE84	Y01
WA40-3	Wheel Loader	3TNE84	Y01
WA40-3	Wheel Loader	3TNV84	Y11
WA40-3-CB	Wheel Loader	3TNV84	Y11
WA40-3-CN	Wheel Loader	3TNV84	Y11
WA40-3RS-X	Wheel Loader	3TNE84	Y01
WA40-3SF-X	Wheel Loader	3TNE84	Y01
WA40-3-X	Wheel Loader	3TNE84	Y01
WA50-3	Wheel Loader	3TNE84	Y01
WA50-3	Wheel Loader	3TNV84	Y11
WA50-3-CB	Wheel Loader	3TNV84	Y11
WA50-3-CN	Wheel Loader	3TNV84	Y11
WA50-3-X	Wheel Loader	3TNE84	Y01
WA50-6	Wheel Loader	4TNV88	Y16
WA65-3	Wheel Loader	4TNE94	Y06
WA65PT-3	Wheel Loader	4TNE94	Y06
WA75-3	Wheel Loader	4TNE94	Y06
WA75-3	Wheel Loader	4TNE98	Y07
WA85-3	Wheel Loader	4TNE98	Y07
WA90-3	Wheel Loader	4TNE106D	Y09
WA90-3	Wheel Loader	4TNV98D	Y19
WA90-3	Wheel Loader	4TNV98T	Y20
WA95-3	Wheel Loader	4TNE106D	Y09
WA95-3	Wheel Loader	4TNV98D	Y19

MODEL	DESCRIPTION	ENGINE	PAGE
KOMATSU continued			
WA95-3	Wheel Loader	4TNV98T	Y20
WA115-3	Wheel Loader	4TNE106D	Y09
WB70A-1	Backhoe	4TNE98	Y07
WB70A-1	Backhoe	4TNV98D	Y19
WB91R-2	Backhoe	4TNE106D	Y09
WB93R-2	Backhoe	4TNE106T	Y10
WB93R-2	Backhoe	4TNV106T	Y22
WB97R-2	Backhoe	4TNE106T	Y10
WB97R-2	Backhoe	4TNV106T	Y22
WB97S-2	Backhoe	4TNE106T	Y10
WB97S-2	Backhoe	4TNV106T	Y22
WB98A-2	Backhoe	4TNE106T	Y10
WB98A-2	Backhoe	4TNV106T	Y22
WB140-2	Backhoe	4TNE106D	Y09
WB140-2N	Backhoe	4TNE106D	Y09
WB140-2N	Backhoe	4TNE106T	Y22
WB140PS-2	Backhoe	4TNE106D	Y09
WB140PS-2N	Backhoe	4TNE106D	Y09
WB140PS-2N	Backhoe	4TNE106T	Y22
WB150-2	Backhoe	4TNE106D	Y09
WB150-2N	Backhoe	4TNE106D	Y09
WB150-2N	Backhoe	4TNE106T	Y22
WB150AWS-2	Backhoe	4TNE106D	Y09
WB150AWS-2N	Backhoe	4TNE106D	Y09
WB150AWS-2N	Backhoe	4TNE106T	Y22
WB150PS-2	Backhoe	4TNE106D	Y09
WB150PS-2	Backhoe	4TNE106T	Y10
WB150PS-2N	Backhoe	4TNE106D	Y09
WB150PS-2N	Backhoe	4TNE106T	Y22
WB150WSC-2	Backhoe	4TNE106T	Y10
KOBELCO			
SK030-2	Excavator	3TNE84	Y01
SK40SR-2	Excavator	4TNE84	Y02
SK45SR-2	Excavator	4TNE88	Y05
SK50UR-3	Excavator	4TNE88	Y05
MUSTANG			
350Z NXT2	Compact Excavator	3TNV88F-ESBV	Y15
450Z NXT2	Compact Excavator	4TNV88C-PBV	Y16
1350R	Skid Steer	4TNV88C-KMS	Y16
1500R	Skid Steer	4TNV88C-KMS	Y16
2026	Skid Steer	3TNV88	Y15
2041	Skid Steer	4TNV88	Y16
2044	Skid Steer	4TNV88	Y16
2054	Skid Steer	4TNV88	Y16
NEW HOLLAND			
T3010	Tractor	3TNV88	Y15
T3020	Tractor	4TNV84	Y12
T3030	Tractor	4TNV88	Y16
T3040	Tractor	4TNV84T	Y13

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

Equipment Application Chart

Agricultural Equipment

MODEL	*DESCRIPTION*	*ENGINE*	*PAGE*
TAKEUCHI			
TB53FR	Compact Excavator	4TNV88-QTB	**Y16**
TB135	Mini Excavator	3TNE88	**Y04**
TB135	Compact Excavator	3TNV88-QTB	**Y15**
TB145	Compact Excavator	4TNV88-QTB	**Y16**
TL120	Compact Loader	4TNV84T	**Y13**
TL150	Compact Loader	4TNV106T	**Y22**
THERMO KING			
SB-110		TK486	**Y03**
SB-130		TK486V	**Y14**
SB-190		TK486	**Y03**
SB-200		TK486	**Y03**
SB-200TG		TK486V	**Y14**
SB-210		TK486	**Y03**
SB-210+		TK486V	**Y14**
SB-230		TK486V	**Y14**
SB-300		TK486	**Y03**
SB-310		TK486	**Y03**
SB-310+		TK486V	**Y14**
SB-330		TK486V	**Y14**
SB-400		TK486V	**Y14**
SB-430		TK486	**Y03**

MODEL	*DESCRIPTION*	*ENGINE*	*PAGE*

MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	ENGINE	PAGE

MODEL	DESCRIPTION	ENGINE	PAGE

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

3TNE84/T

Bore: 3.30 in
84.00 mm

Stroke: 3.54 in
90.00 mm

G1, GH, G1AZ

KOMATSU Engine Model:

3D84E-1FB, 2FB, 3A, 3B, 3F, 3K, 3LN, FX-AB, 5X-AB, 3D84N-2AA

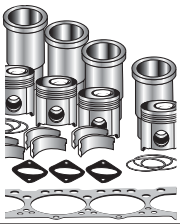
APPLICATIONS:

KOMATSU

GC50-1	*Excavator*
PC25-1	*Excavator*
PC30-7	*Excavator*
PC30MR-1-K	*Excavator*
PC30MRX-1	*Excavator*
PC30MRX-1A	*Excavator*
PC35R-8	*Excavator*
WA30-5-NA	*Wheel Loader*
WA30-5-W	*Wheel Loader*
WA30-5-X	*Wheel Loader*
WA40-3	*Wheel Loader*
WA40-3RS-X	*Wheel Loader*
WA40-3SF-X	*Wheel Loader*
WA40-3-X	*Wheel Loader*
WA50-3	*Wheel Loader*
WA40-3X	*Wheel Loader*

KOBELCO

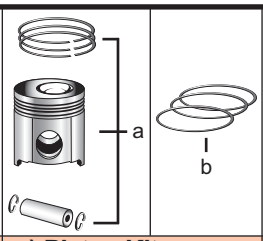
SK030-2	*Excavator*



Engine O/H Kit

YOK3TNE84D

YOK3TNE84D/25



a) Piston Kit

b) Ring Set

Y129002-22090 Std.

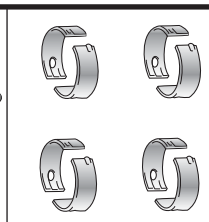
Y129002-22910 0.25

Use 3

b) Y129002-22510 **Std.**

Y129002-22960 **0.25**

See note (1) below



Main Bearing

Y129001-02931 **Std.**

Y129150-02871 **0.25**

Use 4
Sold by Pairs



Con Rod Bearing

Y129150-23601 **Std.**

Y129150-23611 **0.25**

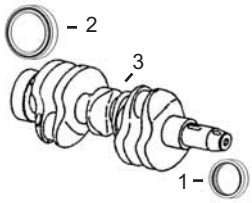
Use 3
Sold by Pairs



Thrust Washers

Y129150-02931

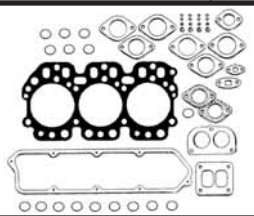
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

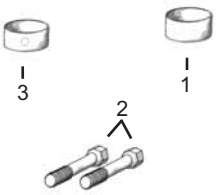
1) Y129795-01800
2) Y129795-01780
3) Y129001-21100 **(4)**



1) O/H Gasket Set

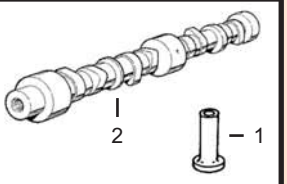
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS3TNE84
2) Y129002-01331
3) Y977770-1207F
4) Y129150-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 ***x3***
2) Y121550-23200 ***x6***
3) Y129795-02412 ***x1***

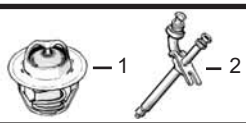


1) Tappet
2) Camshaft

1) Y129150-14200 ***x6***
2) Y129129-14580 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129100-11100 ***x3***	Y129100-11130 ***x3***	1) Y120130-11860 ***x3*** 2) Y129150-11810 ***x3***	1) Y27310-080001 ***x12*** 2) Y124460-11340 ***x3*** 3) Y121400-11340 ***x3***	Y129795-11120 ***x6***



1) Thermostat
2) Injector

1) Y129155-49801
2) Y729503-53100 **(2)**



Oil Pump

Y129001-32001



Lift Pump

Y129100-52101-Z



Water Pump

1) Y129001-42004 **(2)**
2) Y129100-42004 **(2)**
3) Y129263-42000 **(2)**
4) Y129508-42001 **(3)**



Repair Sleeve

84RS

(1) We will offer current piston kit until stock is depleted. After that use Ring Set part number **Y129002-22510A Std.** and **Y129002-22960A 0.25** for Alfin Pistons.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.
(4) Gear not included.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNE84/T

Bore: 3.30 in
84.00 mm

Stroke: 3.54 in
90.00 mm

KOMATSU Engine Model:

4D84E-3FB
4D84E-3B
4D84E-3C
4D84E-3D
4D84E-3D
4D84E-3E
4D84E-3E

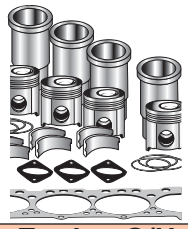
APPLICATIONS:

KOMATSU

PC40-7	*Mini Excavator*
PC40MRX-1-E	*Mini Exc*
PC40R-8	*Mini Excavator*
PC45-1	*Mini Excavator*
PC45MRX-1-E	*Mini Exc*
PC45R-8	*Mini Excavator*
SK510	*Skid Steer*
SK815	*Skid Steer*
SK820	*Skid Steer*
SK820-5	*Skid Steer*

KOBELCO

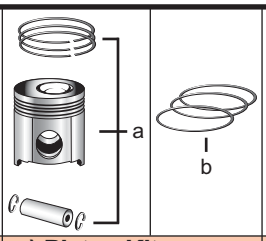
SK40-SR2	*Excavator*



Engine O/H Kit

YOK4TNE84D

YOK4TNE84D/25



a) Piston Kit

b) Ring Set

Y129002-22090 Std.

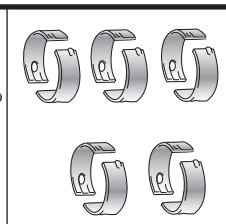
Y129002-22910 0.25

Use 4

b) Y129002-22510 **Std.**

Y129002-22960 **0.25**

See note (1) below



Main Bearing

Y129001-02931 **Std.**

Y129150-02871 **0.25**

Use 5
Sold by Pairs



Con Rod Bearing

Y129150-23601 **Std.**

Y129150-23611 **0.25**

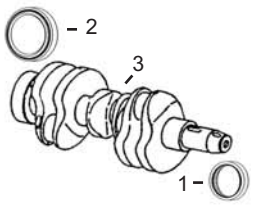
Use 4
Sold by Pairs



Thrust Washers

Y129150-02931

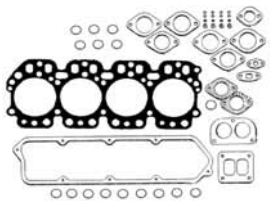
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

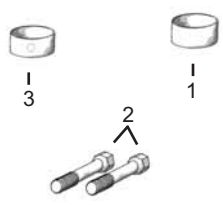
1) Y129795-01800
2) Y129795-01780
3) Y129407-21000 **(4)**



1) O/H Gasket Set

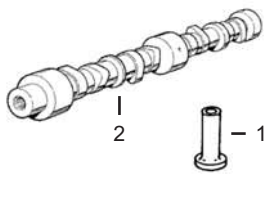
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE84
2) Y129408-01330
3) Y977770-1207F
4) Y129550-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 ***x4***
2) Y121550-23200 ***x8***
3) Y129795-02412 ***x1***

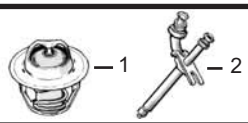


1) Tappet
2) Camshaft

1) Y129150-14200 ***x8***
2) Y729402-14580 **(4)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129100-11100 ***x4***	Y129100-11130 ***x4***	1) Y120130-11860 ***x4*** 2) Y129150-11810 ***x4***	1) Y27310-080001 ***x16*** 2) Y124460-11340 ***x4*** 3) Y121400-11340 ***x4***	Y129795-11120 ***x8***



1) Thermostat
2) Injector

1) Y129155-49801
2) Y729503-53100 **(2)**



Oil Pump

Y129001-32001



Lift Pump

Y129100-52101-Z



Water Pump

1) Y129001-42004 **(2)**
2) Y129100-42004 **(2)**
3) Y129263-42000 **(2)**
4) Y129508-42001 **(3)**



Repair Sleeve

84RS

(1) We will offer current piston kit until stock is depleted. After that use Ring Set part number **Y129002-22510A Std.** and **Y129002-22960A 0.25** for Alfin Pistons.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.
(4) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

TK486

Thermo King

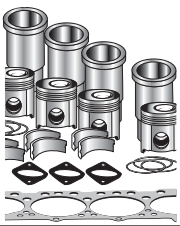
Bore: 3.38 in
86.00 mm

Stroke: 3.54 in
90.00 mm

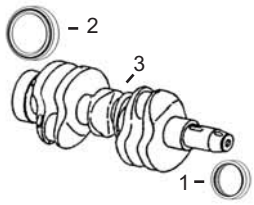
APPLICATIONS:

THERMO KING

SB-110
SB-190
SB-200
SB-210
SB-300
SB-310
SB-430



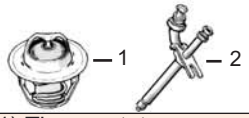
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOKTK486 **YOKTK486/25** **YOKTK486/50**	**a) Y11-8948 Std.** **Y11-8955 0.25** **Y11-8958 0.50** **Use 4** b) Y13-355 Std. Y13-461 0.25 Y13-455 0.50	Y129001-02931 **Std.** (13-920) Y129150-02871 **0.25** (13-921) **Use 5 Sold by Pairs**	Y129150-23601 **Std.** (13-924) Y129150-23611 **0.25** (13-925) **Use 4 Sold by Pairs**	Y129150-02931 (13-927) **Set of 4**



1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129795-01800 (33-4088) 2) Y129795-01780 (33-2974) 3) Y129407-21000 **(1)** (13-351)	1) YMGS4TNE88 2) Y129407-01340 (33-4122) 3) Y977770-1207F 4) Y129160-11310 (13-340)	1) Y129100-23910 ***x4*** (11-8953) 2) Y121550-23200 ***x8*** 3) Y129795-02412 ***x1*** (13-926)	1) Y129150-14200 ***x8*** (11-6717) 2) Y729402-14580 **(1)** (11-9261)

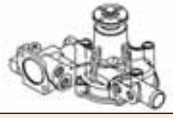


Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129100-11100 ***x4*** (11-8930)	Y129100-11130 ***x4*** (13-659)	1) Y120130-11860 ***x4*** (11-8928) 2) Y129150-11810 ***x4*** (11-8929)	1) Y124460-11340 ***x4*** (11-8935) 2) Y121400-11340 ***x4*** (11-8934)	Y129795-11120 ***x8*** (11-8932)









1) Thermostat 2) Injector	Oil Pump	Water Pump High Mount	Water Pump Low Mount
1) Y129155-49801 (13-385) 2) Y729503-53100 (11-8715)	Y129001-32001 (11-9249)	Y129263-42000 (11-9451)	Y129001-42004 (13-509)

(1) Gear not included.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

3TNE88

Bore: 3.46 in
88.00 mm

ACG, ACGD, AGD, AMU, BUE, EG1A, GIA, G1AO1, LAN, MC-EK, MC-K, NSR, PG, SA, TB, YC

APPLICATIONS:

GEHL

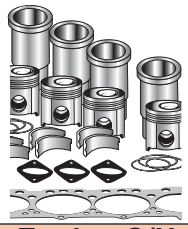
SL3635 *Skid Steer*

TAKEUCHI

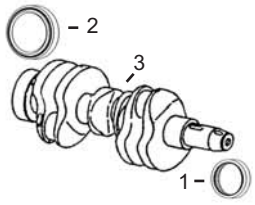
TB135 *Mini Excavator*

KOMATSU

PC40FR-1 *Mini Excavator*
PC40FR-2 *Mini Excavator*



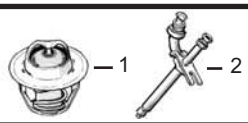
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOK3TNE88 **YOK3TNE88/25**	**a) Y129001-22081** Std. **Y129001-22901** 0.25 **Use 3** b) Y129001-22500 Std. Y129001-22950 0.25	Y129001-02931 Std. Y129150-02871 0.25 **Use 4** **Sold by Pairs**	Y129150-23601 Std. Y129150-23611 0.25 **Use 3** **Sold by Pairs**	Y129150-02931 **Set of 4**



1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129795-01800 2) Y129795-01780 3) Y129001-21100 (1)	1) YMGS3TNE88 2) Y129001-01340 3) Y977770-1207F 4) Y129150-11310	1) Y129100-23910 *x3* 2) Y121550-23200 *x6* 3) Y129795-02412 *x1*	1) Y129150-14200 *x6* 2) Y129129-14580 (1)



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129100-11100 *x3*	Y129100-11130 *x3*	1) Y120130-11860 *x3* 2) Y129150-11810 *x3*	1) Y124460-11340 *x3* 2) Y121400-11340 *x3*	Y129795-11120 *x6*



1) Thermostat 2) Injector	Oil Pump	Lift Pump	Water Pump	Repair Sleeve
1) Y129155-49801 2) Y729503-53100 (2)	Y129001-32001	Y129100-52101-Z	1) Y129001-42004 (2) 2) Y129100-42004 (2) 3) Y129263-42000 (2) 4) Y129508-42001 (3)	88RS

(1) Gear not included.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNE88

Bore: 3.46 in
88.00 mm

ACG, ACGD, AD, ADEL, AGD, BEN, BUE, EACG, EAD, EAD1, EADS, EC1MC, EFL, EG1A, GR, HP, HYS, IKA, LAN, M-EK, MS, NS, NSR, NSW, PG, P2, SA, TB, TB1

KOMATSU Engine Model:

4D88E-3B, 4D88E-3B 4D88E-3C, 4D88E-3C 4D88E-3GB, 4D88E-3H 4D88E-3H

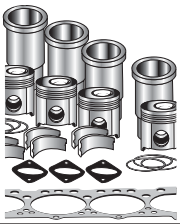
APPLICATIONS:

KOMATSU

PC50UU-2	*Mini Exc*
PC50UU-2E	*Mini Exc*
PC58UU-3-N	*Mini Exc*
PC40MRX-1-E	*Mini Exc*
PC40MRX-1-N	*Mini Exca*
SK714	*Skid Steer*

KOBELCO

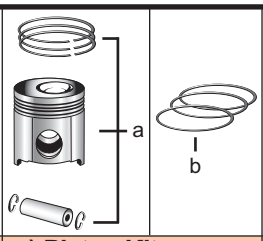
SK45SR-2	*Excavator*
SK50UR-3	*Excavator*



Engine O/H Kit

YOK4TNE88

YOK4TNE88/25



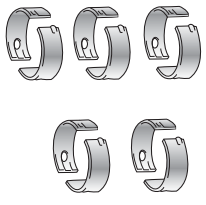
a) Piston Kit

b) Ring Set

a) Y129001-22081 Std.
Y129001-22901 0.25

Use 4

b) Y129001-22500 Std.
Y129001-22950 0.25



Main Bearing

Y129001-02931 **Std.**
Y129150-02871 **0.25**

Use 5 Sold by Pairs



Con Rod Bearing

Y129150-23601 **Std.**
Y129150-23611 **0.25**

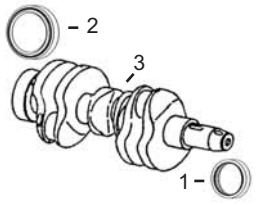
Use 4 Sold by Pairs



Thrust Washers

Y129150-02931

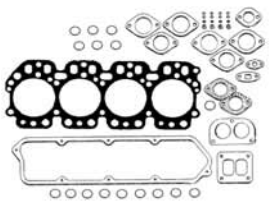
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

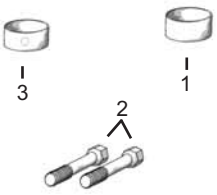
1) Y129795-01800
2) Y129795-01780
3) Y129407-21000 **(1)**



1) O/H Gasket Set

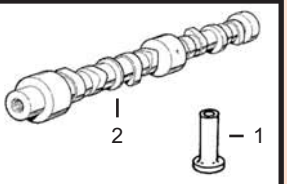
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE88
2) Y129407-01340
3) Y977770-1207F
4) Y129550-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 ***x4***
2) Y121550-23200 ***x8***
3) Y129795-02412 ***x1***

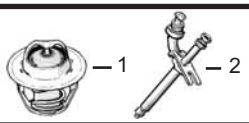


1) Tappet
2) Camshaft

1) Y129150-14200 ***x8***
2) Y729402-14580 **(1)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129100-11100 ***x4***	Y129100-11130 ***x4***	1) Y120130-11860 ***x4*** 2) Y129150-11810 ***x4***	1) Y124460-11340 ***x4*** 2) Y121400-11340 ***x4***	Y129795-11120 ***x8***



1) Thermostat
2) Injector

1) Y129155-49801
2) Y729503-53100 **(2)**



Oil Pump

Y129001-32001



Lift Pump

Y129100-52101-Z



Water Pump

1) Y129001-42004 **(2)**
2) Y129100-42004 **(2)**
3) Y129263-42000 **(2)**
4) Y129508-42001 **(3)**



Repair Sleeve

88RS

(1) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNE94

Bore: 3.70 in
94.00 mm

Stroke: 4.331 in
110.00 mm

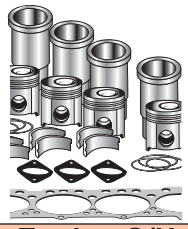
YANMAR Engine Model:

4TNE94-ACG, DBK, DBW, DBWK, EIK, G1A, HLB, HYB, SA, SF, SFW, WI

APPLICATIONS:

KOMATSU

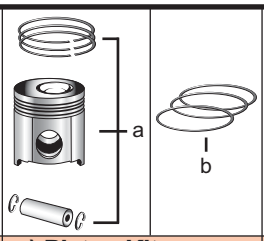
D20A-7-M *Crawler Trac*
D20A-7A-M *Crawler Trac*
D20PL-7-M *Crawler Trac*
D20PLL-7-M *Crawler Trac*
D20Q-7-M *Crawler Trac*
D20S-7-M *Crawler Loader*
D21A-7-M *Crawler Trac*
D21P-7A-M *Crawler Trac*
D21PL-7-M *Crawler Trac*
D21Q-7-M *Crawler Trac*
D21S-7-M *Crawler Loader*
WA65-3 *Wheel Loader*
WA65PT-3 *Wheel Loader*
WA75-3 *Wheel Loader*



Engine O/H Kit

YOK4TNE94

YOK4TNE94/25



a) Piston Kit

b) Ring Set

Y129900-22080 Std.

Y129900-22900 0.25

Use 4

b) Y129901-22050 **Std.**

Y129901-22950 **0.25**



Main Bearing

Y729900-02801 **Std.**

Y129900-02341 **0.25**

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 **Std.**

Y129900-23611 **0.25**

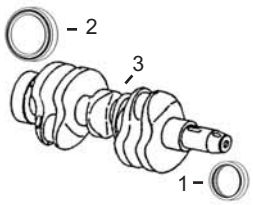
Set of 4 Pairs



Thrust Washers

Y129900-02931

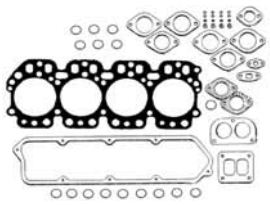
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

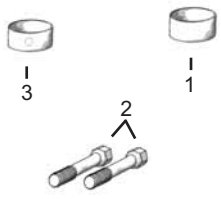
1) Y129916-01800
2) Y129916-01790
3) Y129900-21000



1) O/H Gasket Set

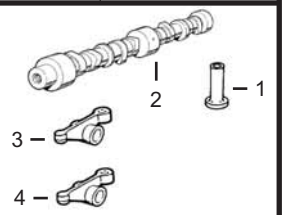
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE94
2) Y129900-01331
3) Y977770-1207F
4) Y129900-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 ***x4***
2) Y129900-23200 ***x8***
3) Y129900-02410 ***x1***



1) Tappet
2) Camshaft
3) Rocker Arm Intake
4) Rocker Arm Exhaust

1) Y129150-14200 ***x8***
2) Y129900-14580
3) Y129907-11650 **(1)**
4) Y129907-11660 **(1)**



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129900-11100 ***x4***	Y129900-11110 ***x4***	Y129150-11810 ***x8***	1) Y27310-080001 ***x16*** 2) Y124460-11340 ***x4*** 3) Y121400-11340 ***x4***	Y129900-11120 ***x8***



Thermostat

Y121850-49810 **(1)**
Y121850-49800 **(1)**



Oil Pump

Y129900-32001



Water Pump

Y129900-42002
Y129900-42055 **(2)**



Repair Sleeve

94RS

(1) Check your application for proper usage.
(2) Forklift Applications.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNE98

DIRECT INJECTION

Bore: 3.86 in
98.00 mm

Stroke: 4.331 in
110.00 mm

YANMAR Engine Model:

4TNE98-ACG, ACG24, AD, ADS, AG, AMM, FB, SA, G1A, HYS, KM, NSR, TB, TBA, WI

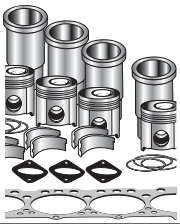
APPLICATIONS:

HYUNDAI

HSL810 *Skid Steer*
R80-CR-9 *Mini Excavator*

KOMATSU

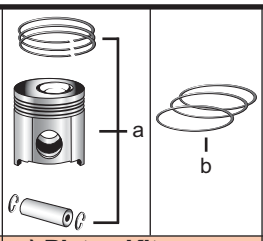
D21A-7T-M *Crawler Tract*
D21P-7T-M *Crawler Trac*
PC70TFR-1 *Midi Excavator*
PC75R-1 *Midi Excavator*
PC75R-2 *Midi Excavator*
PW75-1 *Mobile Excavator*
PW75R-2 *Mobile Excavator*
SK09J-2 *Skid Steer*
WA75-3 *Wheel Loader*
WA85-3 *Wheel Loader*
WB70A-1 *Backhoe*



Engine O/H Kit

YOK4TNE98D

YOK4TNE98D/25



a) Piston Kit

b) Ring Set

Y129902-22080 Std.

Y129902-22900 0.25

Use 4

b) Y129903-22050 Std.
Y129903-22950 0.25



Main Bearing

Y729900-02801 Std.
Y729900-02341 0.25

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 Std.
Y129900-23611 0.25

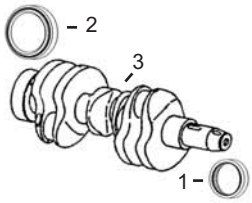
Set of 4 Pairs



Thrust Washers

Y129900-02931

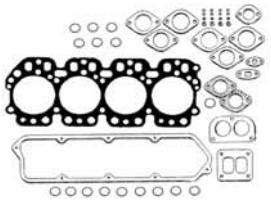
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

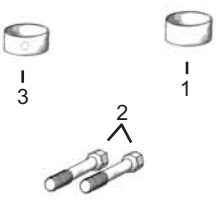
1) Y129916-01800
2) Y129916-01790
3) Y129902-21000



1) O/H Gasket Set

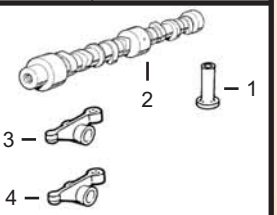
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE98 (2)
2) Y129902-01331 (2)
3) Y977770-1207F
4) Y129900-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 *x4*
2) Y129900-23200 *x8*
3) Y129900-02410 *x1*



1) Tappet
2) Camshaft
3) Rocker Arm Intake
4) Rocker Arm Exhaust

1) Y129150-14200 *x8*
2) Y129900-14580
3) Y129907-11650 (1)
4) Y129907-11660 (1)



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129900-11100 *x4*	Y129900-11110 *x4*	Y129150-11810 *x8*	1) Y27310-080001 *x16* 2) Y124460-11340 *x4* 3) Y121400-11340 *x4*	Y129900-11120 *x8*



Thermostat

Y121850-49810 (1)
Y121850-49800 (1)



Oil Pump

Y129900-32001



Water Pump

Y129900-42002



Repair Sleeve

98RS

(1) Check your application for proper usage.
(2) Head gasket is MLS material. Please check application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNE98

INDIRECT INJECTION

Bore: 3.86 in
98.00 mm

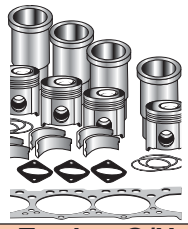
Stroke: 4.331 in
110.00 mm

YANMAR Engine Model:

4TNE98-BQCKS
4TNE98-BQDF
4TNE98-BQDFC
4TNE98-BQFLC
4TNE98-HAF
4TNE98-HYF
4TNE98-NMH

KOMATSU Engine Model:

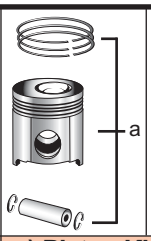
4D98E-1AGD-F
4D98E-1G46-BM
4D98E-1G45-BM
4D98E-1G38-BM
4D98E-1GD-F



Engine O/H Kit

YOK4TNE98-IND

YOK4TNE98/25-IND



a) Piston Kit

b) Ring Set

Y129903-22081 Std.

Y129903-22901 0.25

Use 4

b) Y129903-22050 Std.

Y129903-22950 0.25



Main Bearing

Y729900-02801 Std.

Y729900-02341 0.25

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 Std.

Y129900-23611 0.25

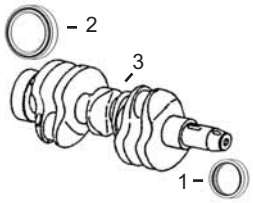
Set of 4 Pairs



Thrust Washers

Y129900-02931

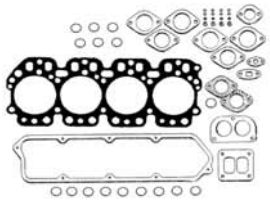
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

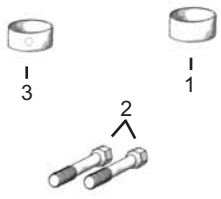
1) Y129916-01800
2) Y129916-01790
3) Y129902-21000



1) O/H Gasket Set

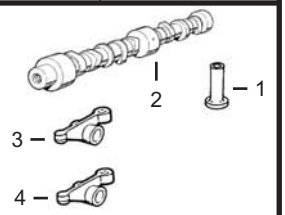
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE98-IND (2)
2) Y729903-01350 (2)
3) Y977770-1207F
4) Y129900-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 *x4*
2) Y129900-23200 *x8*
3) Y129900-02410 *x1*



1) Tappet
2) Camshaft
3) Rocker Arm Intake
4) Rocker Arm Exhaust

1) Y129150-14200 *x8*
2) Y129900-14580
3) Y129907-11650 (1)
4) Y129907-11660 (1)



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129900-11100 *x4*	Y129900-11110 *x4*	Y129150-11810 *x8*	1) Y27310-080001 *x16* 2) Y124460-11340 *x4* 3) Y121400-11340 *x4*	Y129900-11120 *x8*



Thermostat

Y121850-49810 (1)
Y121850-49800 (1)



Oil Pump

Y129900-32001



Water Pump

Y129900-42002



Repair Sleeve

98RS

(1) Check your application for proper usage.
(2) Head gasket is composite material. Please check application for proper usage

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNE106D

Bore: 4.17 in
106.00 mm

TIER 1

AMM, G1, G1A, GE, SA, TB

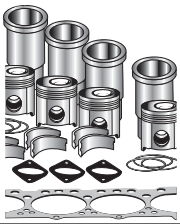
KOMATSU
4D106D

APPLICATIONS:

GEHL
7600 *Skid Steer*

KOMATSU

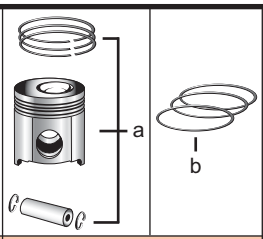
PC95R-2	*Midi Excavator*
PW95R-2	*Mobile Excavator*
WA90-3	*Wheel Loader*
WA95-3	*Wheel Loader*
WA115-3	*Wheel Loader*
WB140-2	*Backhoe*
WB140-2N	*Backhoe*
WB140PS-2	*Backhoe*
WB140PS-2N	*Backhoe*
WB150-2	*Backhoe*
WB150-2N	*Backhoe*
WB150AWS-2	*Backhoe*
WB150AWS-2N	*Backhoe*
WB91R-2	*Backhoe*



Engine O/H Kit

YOK4TNE106

YOK4TNE106/25



a) Piston Kit

b) Ring Set

a) Y123900-22080 Std.
Y123900-22900 0.25

Use 4

b) Y123900-22050 **Std.**
Y123900-22950 **0.25**



Main Bearing

Y723900-02800 **Std.**
Y123900-02340 **0.25**

Set of 5 Pairs



Con Rod Bearing

Y123900-23600 **Std.**
Y123900-23610 **0.25**

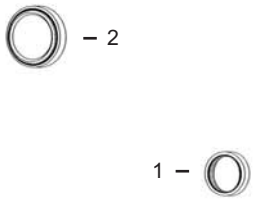
Set of 4 Pairs



Thrust Washers

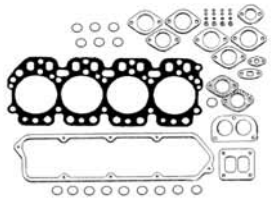
Y123900-02930

Set of 4



1) Front Seal
2) Rear Seal

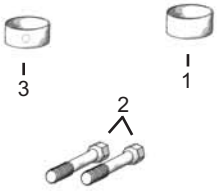
1) Y123900-01780
2) Y123672-01782



1) O/H Gasket Set

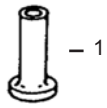
2) Head Gasket

1) Y723900-92630
2) Y123900-01340



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y123900-23910 ***x4***
2) Y123900-23200 ***x8***
3) Y123900-02410 ***x1***



1) Tappet

1) N/A



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int	Spring, Valve
Y123900-11100 ***x4***	Y123900-11110 ***x4***	Y119000-11810 ***x8***	1) Y27310-090000 ***x16*** 2) Y121850-11150 ***x8***	Y123900-11120 ***x8***



Thermostat

Y124610-48620



Oil Pump

Y123900-32001



Water Pump

Y123900-42101

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNE106T

Bore: 4.17 in
106.00 mm

TIER 1

G1A, ML, NS, SA, TBL

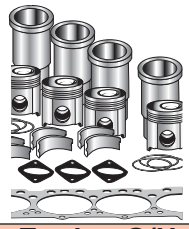
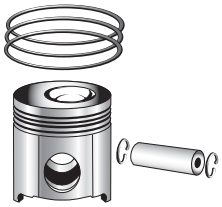
KOMATSU

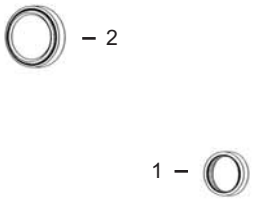
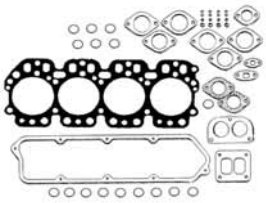
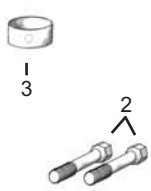
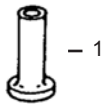
4D106T

APPLICATIONS:

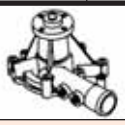
GEHL
7800 *Skid Steer*

KOMATSU
PC110R-1 *Midi Excavator*
PW110R-1 *Mobile Excavator*
WB93R-2 *Backhoe*
WB97R-2 *Backhoe*
WB97S-2 *Backhoe*
WB98A-2 *Backhoe*
WB150PS-2 *Backhoe*
WB150WSC-2 *Backhoe*

				
Engine O/H Kit	**a) Piston Kit** b) Ring Set	**Main Bearing**	**Con Rod Bearing**	**Thrust Washers**
YOK4TNE106T **YOK4TNE106T/25**	**a) Y123901-22080 Std.** **Y123901-22900 0.25** **See note (1) below** **Use 4** b) Y123900-22050 Std. Y123900-22950 0.25	Y723900-02800 **Std.** Y123900-02340 **0.25** **Set of 5 Pairs**	Y123900-23600 **Std.** Y123900-23610 **0.25** **Set of 4 Pairs**	Y123900-02930 **Set of 4**

			
1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set** 2) Head Gasket	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet
1) Y123900-01780 2) Y123672-01782	1) Y723900-92630 2) Y123900-01340	1) Y123900-23910 ***x4*** 2) Y123900-23200 ***x8*** 3) Y123900-02410 ***x1***	1) N/A

	Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal	Spring, Valve
	Y123900-11100 ***x4***	Y123900-11110 ***x4***	Y119000-11810 ***x8***	1) Y27310-090000 ***x16*** 2) Y121850-11150 ***x8***	Y123900-11120 ***x8***

		
Thermostat	Oil Pump	Water Pump
Y124610-48620	Y123900-32001	1) Y123900-42000 2) Y123900-42101

(1) On 4TNE106T engines, Use for model 4TNE106T-G1A only.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

3TNV84

Bore: 3.30 in
84.00 mm

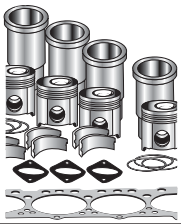
BGKL, BGMG, BKSA2, BMCU, BMNK, BXNK, DUW, DZP01, DZP02, DZP03, GDG, GGE, GKL, GMG, GKM, GYM, GZG01, KMW, KSA, KSA2, KSA3, KUP, LUZ, MU2, NBK, NU1, Q1K, Q1KA, S1K, XKMR, XWL

MARINE PLEASURE

3JH3, 3JH3E, 3JH3CE (*)

KOMATSU

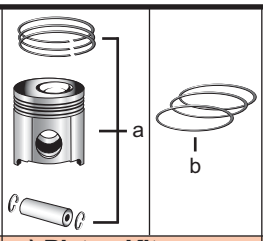
JV25CW-3	*Vibratory Roller*
JV25DW-3	*Vibratory Roller*
PC30MR-2	*Mini Excavator*
PC30MR-2-A	*Mini Excav*
PC30MR-2-B	*Mini Excav*
PC30MR-2-C	*Mini Excav*
PC30MR-2-D	*Mini Excav*
WA30-5	*Wheel Loader*
WA40-3	*Wheel Loader*
WA40-3-CB	*Wheel Loader*
WA40-3-CN	*Wheel Loader*
WA50-3	*Wheel Loader*
WA50-3-CB	*Wheel Loader*
WA50-3-CN	*Wheel Loader*



Engine O/H Kit

YOK3TNV84

YOK3TNV84/25



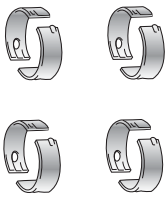
a) Piston Kit

b) Ring Set

a) Y129004-22080 Std.
Y129004-22900 0.25

Use 3

b) Y129004-22500 Std.
Y129004-22950 0.25



Main Bearing

Y129001-02931 **Std.**
Y129150-02871 **0.25**

Use 4
Sold by Pairs



Con Rod Bearing

Y129150-23601 **Std.**
Y129150-23611 **0.25**

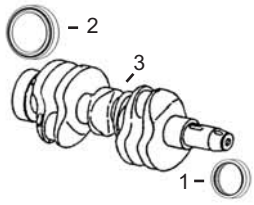
Use 3
Sold by Pairs



Thrust Washers

Y129150-02931

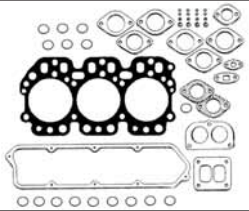
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

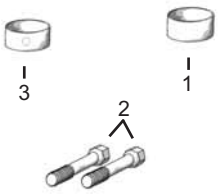
1) Y129795-01800
2) Y129795-01780
3) Y129001-21100 **(1)**



1) O/H Gasket Set

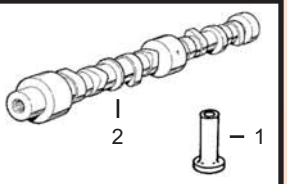
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS3TNE84
2) Y129002-01331
3) Y977770-1207F
4) Y129004-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 ***x3***
2) Y121550-23200 ***x6***
3) Y129795-02412 ***x1***



1) Tappet
2) Camshaft

1) Y129150-14200 ***x6***
2) Y129129-14580 **(1)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129004-11130 ***x3***	Y129100-11130 ***x3***	1) Y120130-11860 ***x3*** 2) Y129150-11810 ***x3***	1) Y124460-11340 ***x3*** 2) Y121400-11340 ***x3***	Y129795-11120 ***x6***



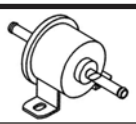
1) Thermostat
2) Injector

1) Y129155-49801
2) Y729004-53101 **(2)**



Oil Pump

Y129001-32001



Electric Fuel Pump

Y119225-52102



Water Pump

1) Y129001-42004 **(2)**
2) Y129100-42004 **(2)**
3) Y129263-42000 **(2)**
4) Y129508-42001 **(3)**



Repair Sleeve

84RS

(*) Maxiforce Top Ring is Rectangular Shaped.
(1) Gear not included.
(2) Check your application for proper usage.
(3) Like **Y129001-42004**, with Inject Pump cooling connections.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNV84

Bore: 3.30 in
84.00 mm

DMW, GGE, KLAN, KVA, KWA, LU2

MARINE PLEASURE

4JH3 (*)

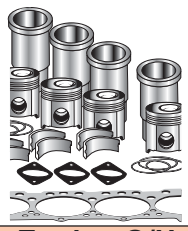
APPLICATIONS:

HI POWER

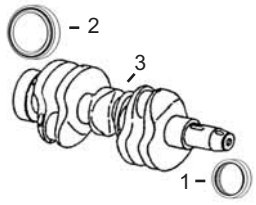
HYW-25 M6

NEW HOLLAND

T3020 *Tractor*



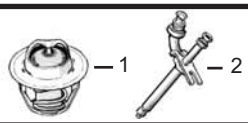
Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOK4TNV84 **YOK4TNV84/25**	**a) Y129004-22080 Std.** **Y129004-22900 0.25** **Use 4** b) Y129004-22500 Std. Y129004-22950 0.25	Y129001-02931 **Std.** Y129150-02871 **0.25** **Use 5** **Sold by Pairs**	Y129150-23601 **Std.** Y129150-23611 **0.25** **Use 4** **Sold by Pairs**	Y129150-02931 **Set of 4**



1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129795-01800 2) Y129795-01780 3) Y129407-21000 **(1)**	1) YMGS4TNE84 2) Y129408-01330 3) Y977770-1207F 4) Y129601-11310	1) Y129100-23910 ***x4*** 2) Y121550-23200 ***x8*** 3) Y129795-02412 ***x1***	1) Y129150-14200 ***x8*** 2) Y729402-14580 **(1)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129004-11130 ***x4***	Y129100-11130 ***x4***	1) Y120130-11860 ***x4*** 2) Y129150-11810 ***x4***	1) Y124460-11340 ***x4*** 2) Y121400-11340 ***x4***	Y129795-11120 ***x8***



1) Thermostat 2) Injector	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
1) Y129155-49801 2) Y729004-53101 **(2)**	Y129001-32001	Y119225-52102	1) Y129001-42004 **(2)** 2) Y129100-42004 **(2)** 3) Y129263-42000 **(2)** 4) Y129508-42001 **(3)**	84RS

(*) Maxiforce Top Ring is Rectangular Shaped.
(1) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.
(2) Check your application for proper usage.
(3) Like **Y129001-42004**, with Inject Pump cooling connections.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNV84T

Bore: 3.30 in
84.00 mm

BGGE, BGKL, BGMG, BGYM, BMSA, BMSA2, BPCU, DFM, DMW, DSA, DSA3, GGE, GGEH, GGEHC, GKL, GKM, GKMR, GMG, K5FN, KLAN, KSNV, KWA, MWA, XNSS, XSU, XTBL, XWA, XWL

APPLICATIONS:

HI POWER

HYW-20 T5 *Genset*
HYW-25 M5 *Genset*
HYW-25 T6 *Genset*
HYW-25 M6 *Genset*
HRYW-20 T5 *Genset*
HRYW-25 T6 *Genset*

TAKEUCHI

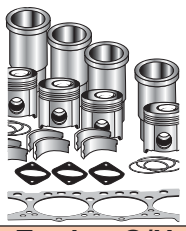
TL120 *Compact Loader*

NEW HOLLAND

T3040 *Tractor*

KOMATSU

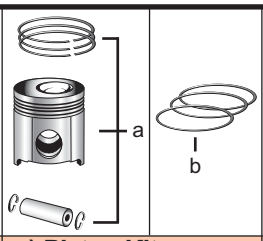
PC50MR-2 *Mini Excavator*
SK815-5 *Skid Steer Loader*
SK820-5 *Skid Steer Loader*



Engine O/H Kit

YOK4TNV84T

YOK4TNV84T/25



a) Piston Kit

b) Ring Set

a) Y129508-22080 Std.
Y129508-22900 0.25

Use 4

b) Y129004-22500 Std.
Y129004-22950 0.25



Main Bearing

Y129001-02931 Std.
Y129150-02871 0.25

Use 5
Sold by Pairs



Con Rod Bearing

Y129150-23601 Std.
Y129150-23611 0.25

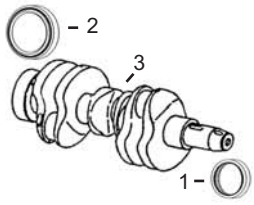
Use 4
Sold by Pairs



Thrust Washers

Y129150-02931

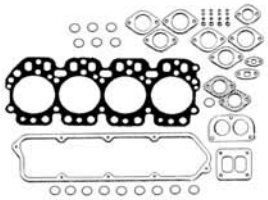
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

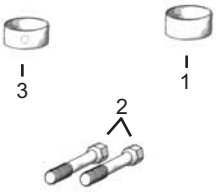
1) Y129795-01800
2) Y129795-01780
3) Y129407-21000 (1)



1) O/H Gasket Set

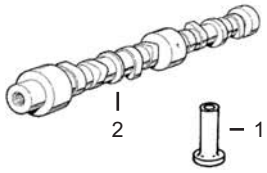
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNV84T
2) Y129508-01330
3) Y977770-1207F
4) Y129508-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 *x4*
2) Y121550-23200 *x8*
3) Y129795-02412 *x1*



1) Tappet
2) Camshaft

1) Y129150-14200 *x8*
2) Y729402-14580 (1)



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129508-11100 *x8*	Y129508-11110 *x8*	Y119717-11800 *x16*	1) Y119717-11340 *x8* 2) Y119717-11350 *x8*	Y129508-11130 *x16*



Thermostat

Y129155-49801



Oil Pump

Y129001-32001



Electric Fuel Pump

Y119225-52102



Water Pump

1) Y129001-42004 (2)
2) Y129100-42004 (2)
3) Y129263-42000 (2)
4) Y129508-42001 (3)



Repair Sleeve

84RS

(1) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

TK486V

Thermo King

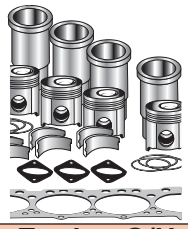
Bore: 3.38 in
86.00 mm

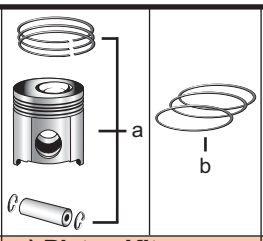
Stroke: 3.54 in
90.00 mm

APPLICATIONS:

THERMO KING

SB-130
SB-200TG
SB-210+
SB-230
SB-310+
SB-330
SB-400
SPECTRUM SB



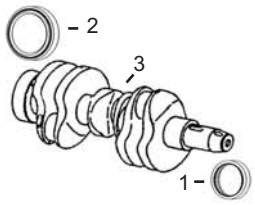


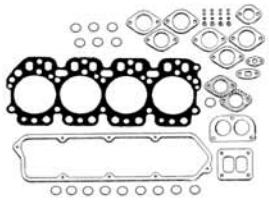


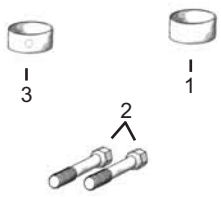


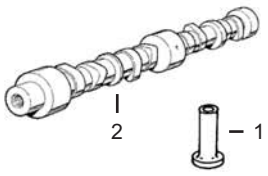


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOKTK486V **YOKTK486V/25** **YOKTK486V/50**	**a) Y13-1064** Std. **Y13-1065** 0.25 **Y13-1066** 0.50 **Use 4** b) Y13-355 Std. Y13-461 0.25 Y13-455 0.50	Y129001-02931 **Std.** (13-920) Y129150-02871 **0.25** (13-921) **Use 5 Sold by Pairs**	Y129150-23601 **Std.** (13-924) Y129150-23611 **0.25** (13-925) **Use 4 Sold by Pairs**	Y129150-02931 (13-927) **Set of 4**







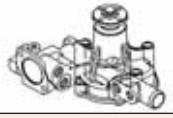


1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bushing, Cam**	1) Tappet 2) Camshaft
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129795-01800 (33-4088) 2) Y129795-01780 (33-2974) 3) Y129407-21000 **(1)** (13-351)	1) YMGS486V **(3)** 2) Y33-5056 **(4)** 3) Y977770-1207F 4) Y129160-11310 (13-340)	1) Y129100-23910 ***x4*** (11-8953) 2) Y121550-23200 ***x8*** 3) Y129795-02412 ***x1*** (13-926)	1) Y129150-14200 ***x8*** (11-6717) 2) Y729402-14580 **(1)** (11-9261)



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129004-11130 ***x4*** (13-932)	Y129100-11130 ***x4*** (13-659)	1) Y120130-11860 ***x4*** (11-8928) 2) Y129150-11810 ***x4*** (11-8929)	1) Y124460-11340 ***x4*** (11-8935) 2) Y121400-11340 ***x4*** (11-8934)	Y129795-11120 ***x8*** (11-8932)





1) Thermostat 2) Injector	Water Pump
1) Y129155-49801 (13-385) 2) Y729004-53101 (13-370)	Y129508-42001 **(2)** (13-509)

(1) Gear not included.

(2) With Cooling Pipes/Nipples.

(3) Prior to April 2005 use **YMGS4TNE88**; verify Head Gasket.

(4) Prior to April 2005 use **Y129407-01340**/33-4122.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

3TNV88

Bore: 3.46 in 88.00 mm

BKMW, DSAP, GYM, MU2, NBK, NU1, XWL

MARINE PLEASURE

3JH4, 3JH5

APPLICATIONS:

GEHL
3640E *Skid Steer*
SL3635 *Skid Steer*
SL3840 *Skid Steer*
SL3935 *Skid Steer*

HI POWER
HYW-13 T5 *Genset*
HYW-13 M5 *Genset*
HYW-14 M6 *Genset*
HYW-14 T6 *Genset*

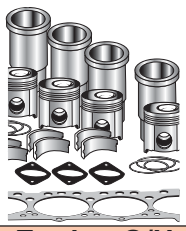
HITACHI
ZX27U-2 *Mini Excavator*
ZX30U-2 *Mini Excavator*
ZX30UR-2 *Mini Excavator*
ZX35U-2 *Mini Excavator*

KOMATSU
PC35MR-2NA *Mini Exc*
PC35MR-2NB *Mini Exc*
PC35MR-2SA *Mini Exc*
PC35MR-2SB *Mini Exc*

MUSTANG
350Z NXT2 *Excavator*
2026 *Skid Steer*

NEW HOLLAND
T3010 *Tractor*

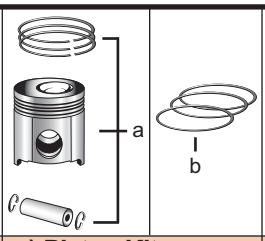
TAKEUCHI
TB135 *Compact Excavator*



Engine O/H Kit

YOK3TNV88

YOK3TNV88/25



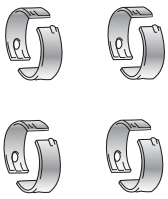
a) Piston Kit

b) Ring Set

a) Y129005-22080 Std.
Y129005-22900 0.25

Use 3

b) Y129005-22500 Std.
Y129005-22950 0.25



Main Bearing

Y129001-02931 Std.
Y129001-02871 0.25

Use 4
Sold by Pairs



Con Rod Bearing

Y129150-23601 Std.
Y129150-23611 0.25

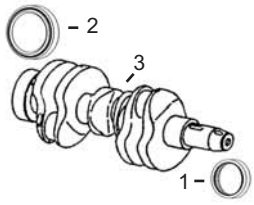
Use 3
Sold by Pairs



Thrust Washers

Y129150-02931

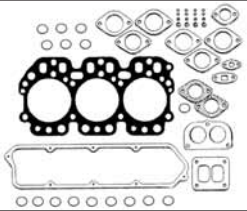
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

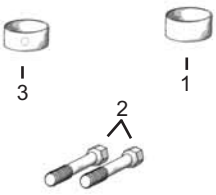
1) Y129795-01800
2) Y129795-01780
3) Y129001-21100 (1)



1) O/H Gasket Set

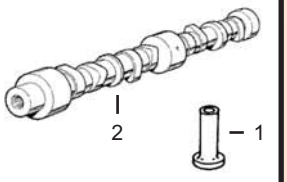
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS3TNE88
2) Y129001-01340
3) Y977770-1207F
4) Y129004-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 *x3*
2) Y121550-23200 *x6*
3) Y129795-02412 *x1*

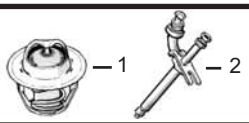


1) Tappet
2) Camshaft

1) Y129150-14200 *x6*
2) Y129129-14580 (1)



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129005-11100 *x3*	Y129100-11130 *x3*	1) Y120130-11860 *x3* 2) Y129150-11810 *x3*	1) Y124460-11340 *x3* 2) Y121400-11340 *x3*	Y129795-11120 *x6*



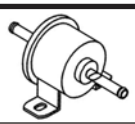
1) Thermostat
2) Injector

1) Y129155-49801
2) Y729004-53101 (2)



Oil Pump

Y129001-32001



Electric Fuel Pump

Y119225-52102



Water Pump

1) Y129001-42004 (2)
2) Y129100-42004 (2)
3) Y129263-42000 (2)
4) Y129508-42001 (3)



Repair Sleeve

88RS

(1) Gear not included.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.

YANMAR

Engine & Equipment Model

4TNV88

Bore: 3.46 in
88.00 mm

DSA, GGEP, GYM, LU2, NBK, XWL, DSAP

MARINE PLEASURE

4JH4E, 4JH5E

APPLICATIONS:

GEHL
4240E *Skid Steer*
SL4240 *Skid Steer*

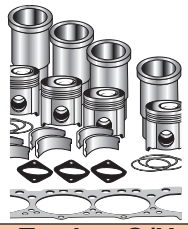
HI POWER
HYW-17 T5 *Genset*
HYW-20 M5 *Genset*
HYW-20 M6 *Genset*
HYW-20 T6 *Genset*
HRYW-17 T5 *Genset*
HRYW-20 T6 *Genset*

HITACHI
ZX40U-2 *Mini Excavator*
ZX50U-2 *Mini Excavator*

MUSTANG
450Z NXT2 *Excavator*
1350R *Skid Steer*
1500R *Skid Steer*
2041 *Skid Steer*
2044 *Skid Steer*
2054 *Skid Steer*

NEW HOLLAND
T3030 *Tractor*

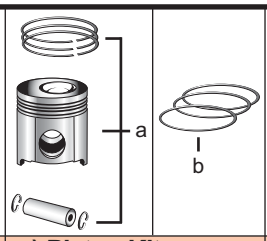
TAKEUCHI
TB53RF *Comp Excavator*
TB145 *Comp Excavator*



Engine O/H Kit

YOK4TNV88

YOK4TNV88/25



a) Piston Kit

b) Ring Set

a) Y129005-22080 Std.
Y129005-22900 0.25

Use 4

b) Y129005-22500 Std.
Y129005-22950 0.25



Main Bearing

Y129001-02931 **Std.**
Y129150-02871 **0.25**

Use 5
Sold by Pairs



Con Rod Bearing

Y129150-23601 **Std.**
Y129150-23611 **0.25**

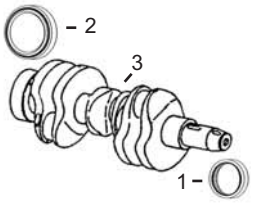
Use 4
Sold by Pairs



Thrust Washers

Y129150-02931

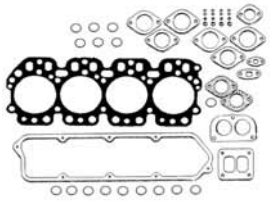
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

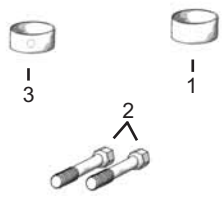
1) Y129795-01800
2) Y129795-01780
3) Y129407-21000 **(1)**



1) O/H Gasket Set

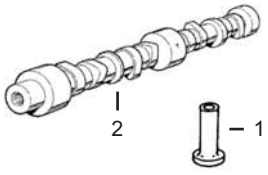
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNE88
2) Y129407-01340
3) Y977770-1207F
4) Y129601-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129100-23910 ***x4***
2) Y121550-23200 ***x8***
3) Y129795-02412 ***x1***

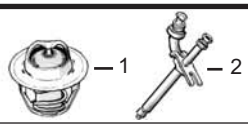


1) Tappet
2) Camshaft

1) Y129150-14200 ***x8***
2) Y729402-14580 **(1)**



Valve, Intake	Valve, Exhaust	Guide, Valve 1) Intake 2) Exhaust	1) Stem Seal Int 2) Stem, Seal Exh	Spring, Valve
Y129005-11100 ***x4***	Y129100-11130 ***x4***	1) Y120130-11860 ***x4*** 2) Y129150-11810 ***x4***	1) Y124460-11340 ***x4*** 2) Y121400-11340 ***x4***	Y129795-11120 ***x8***



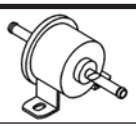
1) Thermostat
2) Injector

1) Y129155-49801
2) Y729004-53101 **(2)**



Oil Pump

Y129001-32001



Electric Fuel Pump

Y119225-52102



Water Pump

1) Y129001-42004 **(2)**
2) Y129100-42004 **(2)**
3) Y129263-42000 **(2)**
4) Y129508-42001 **(3)**



Repair Sleeve

88RS

(1) Gear not included. Do not use in applications that require a crankshaft driven balancer unit.
(2) Check your application for proper usage.
(3) Like **Y129001-42004,** with Inject Pump cooling connections.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNV94L

Bore: 3.70 in
94.00 mm

Stroke: 4.331 in
110.00 mm

KOMATSU Engine Model:

4D94LE-2Z-AD
4D94LE-2Z-AD
4D94LE-2Z-AE
4D94LE-2Z-AE

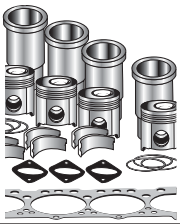
APPLICATIONS:

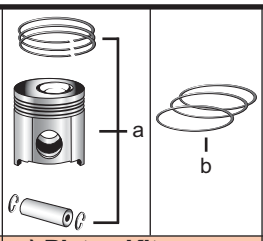
HYUNDAI

R60-9S *Mini Excavator*
R60W-9S *Mini Excavator*

KOMATSU

D20A-8 *Crawler Dozer*
D20P-8 *Crawler Dozer*
D20PL-8 *Crawler Dozer*
D20PLL-8 *Crawler Dozer*
D21A-8 *Crawler Dozer*
D21A-8E0 *Crawler Dozer*
D21A-8T *Crawler Dozer*
D21A-8-W *Crawler Dozer*
D21P-8 *Crawler Dozer*
D21P-8T *Crawler Dozer*
D21P-8-W *Crawler Dozer*
D21P-8E0 *Crawler Dozer*
D21PL-8 *Crawler Dozer*



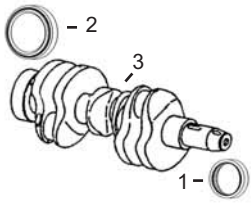


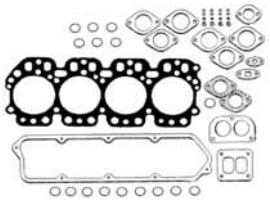


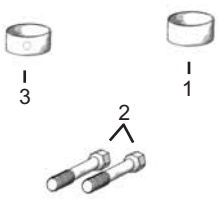


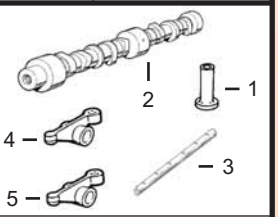


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOK4TNV94 **YOK4TNV94/25**	**Y129906-22080** Std. **Y729906-22900** 0.25 **Use 4** b) Y129906-22050 Std. Y729906-22950 0.25	Y729900-02801 Std. Y129900-02341 0.25 **Set of 5 Pairs**	Y129900-23601 Std. Y129900-23611 0.25 **Set of 4 Pairs**	Y129900-02931 **Set of 4**









1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft 3) Rocker Arm Shaft 4) Rocker Arm Intake 5) Rocker Arm Exhaust
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129916-01800 2) Y129916-01790 3) Y129900-21000	1) YMGS4TNV94/98 2) Y129907-01331 3) Y977770-1207F 4) Y129907-11310	1) Y129900-23911 ***x4*** 2) Y129900-23200 ***x8*** 3) Y129900-02410 ***x1***	1) Y129150-14200 ***x8*** 2) Y129907-14581 3) Y129907-11250 4) Y129907-11650 5) Y129907-11660



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129907-11100 ***x8***	Y129907-11110 ***x8***	Y129907-11800 ***x16***	1) Y27310-070001 ***x32*** 2) Y124160-11340 ***x8*** 3) Y124950-11340 ***x8***	Y129907-11120 ***x16***











Thermostat	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
Y121850-49810 **(1)** Y121850-49800 **(1)**	Y129900-32001	Y119225-52102	Y129907-42000 Y129907-42051 **(2)**	94RS

(1) Check your application for proper usage.
(2) Forklift Applications.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNV98

Bore: 3.86 in
98.00 mm

Stroke: 4.331 in
110.00 mm

YANMAR Engine Model:

4TNV98-EPDBW
4TNV98-EPHYB
4TNV98-EPHYBU
4TNV98-EPIK
4TNV98-EPIKA
4TNV98-EPIKB
4TNV98-ESDB6
4TNV98-ESDBK

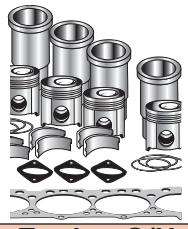
APPLICATIONS:

HI POWER

HYW-30 M5 *Genset*
HYW-35 M6 *Genset*
HYW-35 T5 *Genset*
HYW-35 T6 *Genset*
HRYW-35 T5 *Genset*
HRYW-35 T6 *Genset*

KOMATSU

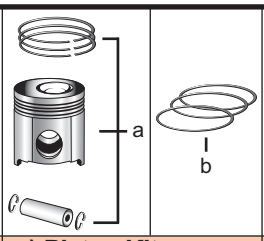
PC80MR-3 *Midi Excavator*



Engine O/H Kit

YOK4TNV98D

YOK4TNV98D/25



a) Piston Kit

b) Ring Set

Y129927-22080 Std.

Y729927-22900 0.25

Use 4

b) Y129927-22050 Std.
Y729927-22950 0.25



Main Bearing

Y729900-02801 Std.

Y129900-02341 0.25

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 Std.

Y129900-23611 0.25

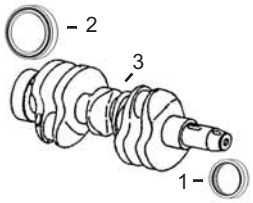
Set of 4 Pairs



Thrust Washers

Y129900-02931

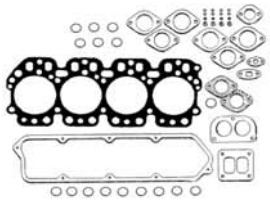
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

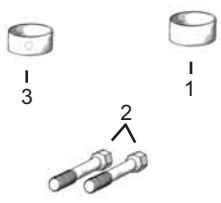
1) Y129916-01800
2) Y129916-01790
3) Y129902-21000



1) O/H Gasket Set

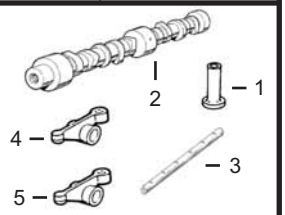
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNV94/98
2) Y129907-01331
3) Y977770-1207F
4) Y129907-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 ***x4***
2) Y129900-23200 ***x8***
3) Y129900-02410 ***x1***



1) Tappet
2) Camshaft
3) Rocker Arm Shaft
4) Rocker Arm Intake
5) Rocker Arm Exhaust

1) Y129150-14200 ***x8***
2) Y129907-14581
Y129908-14581
3) Y129907-11250
4) Y129907-11650
5) Y129907-11660



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129907-11100 ***x8***	Y129907-11110 ***x8***	Y129907-11800 ***x16***	1) Y27310-070001 ***x32*** 2) Y124160-11340 ***x8*** 3) Y124950-11340 ***x8***	Y129907-11120 ***x16***



Thermostat

Y121850-49810 **(1)**
Y121850-49800 **(1)**



Oil Pump

Y129900-32001



Electric Fuel Pump

Y119225-52102



Water Pump

Y129907-42000
Y129927-42000



Repair Sleeve

98RS

(1) Check your application for proper usage.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR

Engine & Equipment Model

4TNV98

Bore: 3.86 in
98.00 mm

Stroke: 4.331 in
110.00 mm

YANMAR Engine Model:

4TNV98-GECS, GGB1B, NSA, 2, GGE, GGEH, GGEHC, GGEP, GGK, GGKM, GPGE, NKTC, NSAP, NWI, NXG, SBK, SCKS, SDF, SSA, SSU, STB1, VDB24, VHYB, VNS, VTBZ2, VTBZ, XTBW, YTB, VTBZC, VTBZC1, WTB, XDB, XKMR, YTBL1,YTBL2

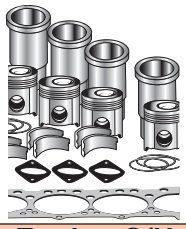
APPLICATIONS:

HI POWER

HYW-30 M5 *Genset*
HYW-35 M6 *Genset*
HYW-35 T5 *Genset*
HYW-35 T6 *Genset*
HRYW-35 T5 *Genset*
HRYW-35 T6 *Genset*

KOMATSU

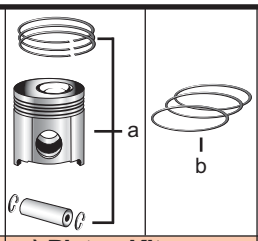
PC75R-2 *Midi Excavator*
PC75R-2HD *Midi Excav*
PW75R-2 *Mobile Excav*
WA90-3 *Wheel Loader*
WA95-3 *Wheel Loader*
WB70A-1 *Backhoe*



Engine O/H Kit

YOK4TNV98D2

YOK4TNV98D2/25



a) Piston Kit

b) Ring Set

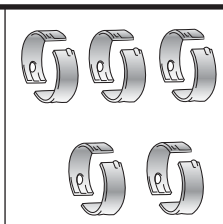
Y129907-22090 Std.

Y729907-22910 0.25

Use 4

b) Y129907-22050 Std.

Y729907-22950 0.25



Main Bearing

Y729900-02801 Std.

Y129900-02341 0.25

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 Std.

Y129900-23611 0.25

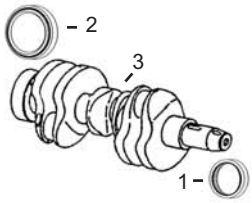
Set of 4 Pairs



Thrust Washers

Y129900-02931

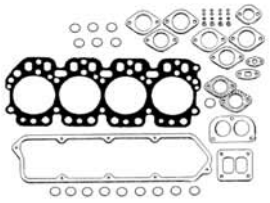
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

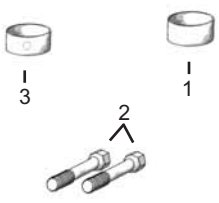
1) Y129916-01800
2) Y129916-01790
3) Y129902-21000



1) O/H Gasket Set

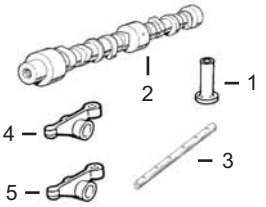
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNV94/98
2) Y129907-01331
3) Y977770-1207F
4) Y129907-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 ***x4***
2) Y129900-23200 ***x8***
3) Y129900-02410 ***x1***



1) Tappet
2) Camshaft
3) Rocker Arm Shaft
4) Rocker Arm Intake
5) Rocker Arm Exhaust

1) Y129150-14200 ***x8***
2) Y129907-14581
Y129908-14581
3) Y129907-11250
4) Y129907-11650
5) Y129907-11660



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129907-11100 ***x8***	Y129907-11110 ***x8***	Y129907-11800 ***x16***	1) Y27310-070001 ***x32*** 2) Y124160-11340 ***x8*** 3) Y124950-11340 ***x8***	Y129907-11120 ***x16***



Thermostat

Y121850-49810 **(1)**
Y121850-49800 **(1)**



Oil Pump

Y129900-32001



Electric Fuel Pump

Y119225-52102



Water Pump

Y129907-42000
Y129927-42000



Repair Sleeve

98RS

(1) Check your application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNV98T

Bore: 3.86 in
98.00 mm

Stroke: 4.331 in
110.00 mm

YANMAR Engine Model:

4TNV98T-GECS, NSA, 2,GGE, GGEH, GGEHC, GGEP, GPGE, N2FN, NDI, NLANG, NNSV, NSA, NSA2, NSAP, NSV, NU2, SBK, SFN

KOMATSU Engine:

S4D98E-2NFN

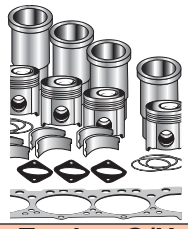
APPLICATIONS:

HI POWER

EAGLE TUGS TT10
EAGLE TUGS TT12
HYW-40 M5 *Genset*
HYW-45 M6 *Genset*
HYW-45 T5 *Genset*
HYW-45 T6 *Genset*
HRYW-45 T5 *Genset*
HRYW-45 T6 *Genset*

KOMATSU

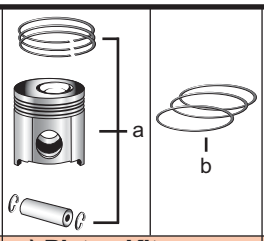
CK30-1 *Compact Track*
CK35-1 *Compact Track*
SK1020-5 *Skid Steer*
SK1020-5N *Skid Steer*
SK1026-5 *Skid Steer*
SK1026-5N *Skid Steer*
WA90-3 *Wheel Loader*
WA95-3 *Wheel Loader*



Engine O/H Kit

YOK4TNV98T

YOK4TNV98T/25



a) Piston Kit

b) Ring Set

Y129908-22080 Std.

Y729908-22900 0.25

Use 4

b) Y129907-22050 Std.
Y729907-22950 0.25



Main Bearing

Y729900-02801 Std.
Y129900-02341 0.25

Set of 5 Pairs



Con Rod Bearing

Y129900-23601 Std.
Y129900-23611 0.25

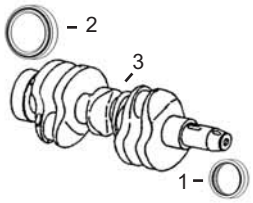
Set of 4 Pairs



Thrust Washers

Y129900-02931

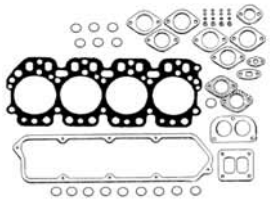
Set of 4



1) Front Seal
2) Rear Seal

3) Crankshaft

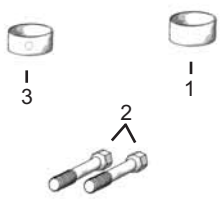
1) Y129916-01800
2) Y129916-01790
3) Y129908-21000



1) O/H Gasket Set

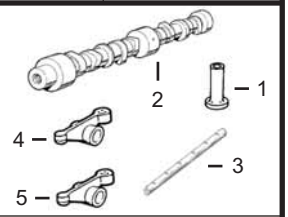
2) Head Gasket
3) Liquid Gasket
4) Rocker Cover Gasket

1) YMGS4TNV94/98
2) Y129907-01331
3) Y977770-1207F
4) Y129907-11310



1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) Y129900-23911 ***x4***
2) Y129900-23200 ***x8***
3) Y129900-02410 ***x1***



1) Tappet
2) Camshaft
3) Rocker Arm Shaft
4) Rocker Arm Intake
5) Rocker Arm Exhaust

1) Y129150-14200 ***x8***
2) Y129908-14581
3) Y129907-11250
4) Y129907-11650
5) Y129907-11660



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129907-11100 ***x8***	Y129907-11110 ***x8***	Y129907-11800 ***x16***	1) Y27310-070001 ***x32*** 2) Y124160-11340 ***x8*** 3) Y124950-11340 ***x8***	Y129907-11120 ***x16***



Thermostat

Y121850-49810 **(1)**
Y121850-49800 **(1)**



Oil Pump

Y129908-32060



Electric Fuel Pump

Y119225-52102



Water Pump

Y129907-42000
Y129927-42000



Repair Sleeve

98RS

(1) Check your application for proper usage.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

YANMAR
Engine & Equipment Model

4TNV98T

Bore: 3.86 in
98.00 mm

Stroke: 4.331 in
110.00 mm

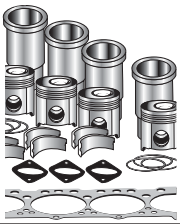
YANMAR Engine Model:

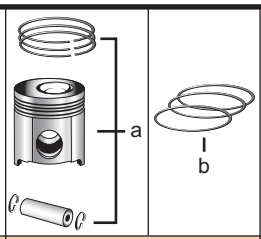
4TNV98T-ZGGE, ZGGEH, ZGPGE, ZNIKB, ZNMS, ZNSA2D, ZNTBL, ZNTG, ZSBK, ZSLY, ZSOM, ZSTBW

APPLICATIONS:

HI POWER

EAGLE TUGS TT10
EAGLE TUGS TT12
HYW-40 M5 *Genset*
HYW-45 M6 *Genset*
HYW-45 T5 *Genset*
HYW-45 T6 *Genset*
HRYW-45 T5 *Genset*
HRYW-45 T6 *Genset*



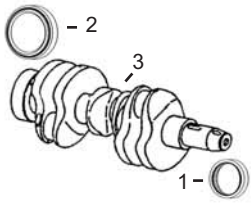


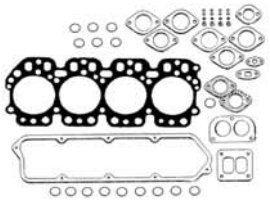


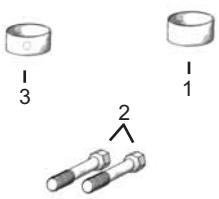


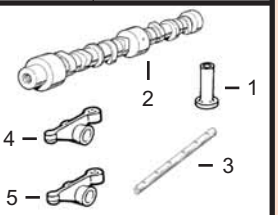


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOK4TNV98T2 **YOK4TNV98T2/25**	**Y129928-22080** Std. **Y729928-22900** 0.25 **Use 4** b) Y129927-22050 Std. Y729927-22950 0.25	Y729900-02801 Std. Y129900-02341 0.25 **Set of 5 Pairs**	Y129900-23601 Std. Y129900-23611 0.25 **Set of 4 Pairs**	Y129900-02931 **Set of 4**









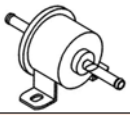
1) Front Seal 2) Rear Seal	1) O/H Gasket Set	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet 2) Camshaft 3) Rocker Arm Shaft 4) Rocker Arm Intake 5) Rocker Arm Exhaust
3) Crankshaft	2) Head Gasket 3) Liquid Gasket 4) Rocker Cover Gasket		
1) Y129916-01800 2) Y129916-01790 3) Y129908-21000	1) YMGS4TNV94/98 2) Y129907-01331 3) Y977770-1207F 4) Y129907-11310	1) Y129900-23911 ***x4*** 2) Y129900-23200 ***x8*** 3) Y129900-02410 ***x1***	1) Y129150-14200 ***x8*** 2) Y129908-14581 3) Y129907-11250 4) Y129907-11650 5) Y129907-11660



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int 3) Stem, Seal Exh	Spring, Valve
Y129907-11100 ***x8***	Y129907-11110 ***x8***	Y129907-11800 ***x16***	1) Y27310-070001 ***x32*** 2) Y124160-11340 ***x8*** 3) Y124950-11340 ***x8***	Y129907-11120 ***x16***











Thermostat	Oil Pump	Electric Fuel Pump	Water Pump	Repair Sleeve
Y121850-49810 **(1)** Y121850-49800 **(1)**	Y129908-32060	Y119225-52102	Y129907-42000 Y129927-42000	98RS

(1) Check your application for proper usage.

MAXIFORCE® DIESELENGINEPARTS

YANMAR

Engine & Equipment Model

4TNV106

Bore: 4.17 in
106.00 mm

TIER 1 & 2 KOMATSU 4D106

YANMAR Engine Model:

4TNV106T
4TNV106-GGB1, GGB1B, GGB1, GGE, GGL, XTBL1, XTBL(*), XTBL2

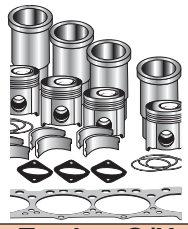
APPLICATIONS:

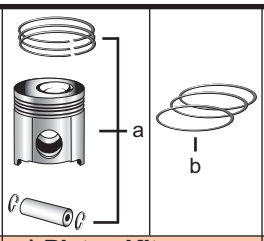
TAKEUCHI

TL150 *Compact Loader*

KOMATSU

PC110R-1 *Midi Excavator*
PW110R-1 *Mobile Excavator*
WB93R-2 *Backhoe*
WB97R-2 *Backhoe*
WB97S-2 *Backhoe*
WB98A-2 *Backhoe*
WB140-2N *Backhoe*
WB140PS-2N *Backhoe*
WB150-2N *Backhoe*
WB150AWS-2N *Backhoe*
WB150PS-2N *Backhoe*



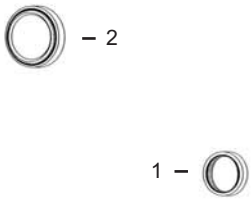


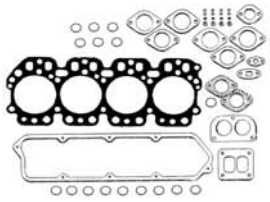


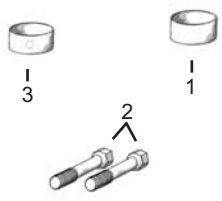


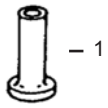


Engine O/H Kit	a) Piston Kit b) Ring Set	Main Bearing	Con Rod Bearing	Thrust Washers
YOK4TNV106T **YOK4TNV106T/25**	**a) Y123907-22081 Std.** **Y723907-22900 0.25** **Use 4** b) Y123907-22050 Std. Y723907-22950 0.25	Y723900-02800 Std. Y123900-02340 0.25 **Set of 5 Pairs**	Y123900-23600 Std. Y123900-23610 0.25 **Set of 4 Pairs**	Y123900-02930 **Set of 4**









1) Front Seal **2) Rear Seal**	**1) O/H Gasket Set**	1) Bush, Con Rod 2) Bolt, Con Rod 3) Bushing, Cam	1) Tappet
	2) Head Gasket		
1) Y123900-01780 2) Y123672-01782	1) Y723907-92680 2) Y123907-01350	1) Y123900-23910 ***x4*** 2) Y123900-23200 ***x8*** 3) Y123900-02410 ***x1***	1) N/A



Valve, Intake	Valve, Exhaust	Guide, Valve	1) Lock, Valve 2) Stem Seal Int	Spring, Valve
Y123907-11100 ***x8***	Y123907-11110 ***x8***	1) Y123907-11800 ***x8*** 2) Y123907-11810 ***x8***	1) Y27310-090000 ***x32*** 2) Y124160-11340 ***x16***	Y123907-11120 ***x16***







Thermostat	Oil Pump	Water Pump
Y124610-48620	Y123900-32001	1) Y123907-42000 **(1)** 2) Y123945-42000

(1) Two hose barb connections.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

Introduction to International Harvester® / Navistar® Section

Engine models covered by this User's Guide

ENGINE MODEL	*COMMENTS*	*BORE*	*PAGE*
DT360	From ESN 90976	101.90 mm	**N01**
DT414		109.23 mm	**N02**
DT436		109.23 mm	**N03**
DT466	To ESN 440,035, Narrow Bearings	109.23 mm	**N04**
DT466	ESN 440,036 - 532,980, Wide Bearings	109.23 mm	**N05**

Maxiforce Engine Kit Composition for International Harvester® / Navistar® Engine Applications

NOK: Engine Overhaul Kits Include: All required Piston-Liner Kits, Main Bearings, Connecting Rod Bearings, Front Crankshaft Seals, Rear Crankshaft Seals, O/H Set, Cylinder Head, O/H Set, Crankcase, Camshaft Bushings, Connecting Rod Bushings.

NIK: Engine In-Frame Kits Include: All required Piston-Liner Kits, Main Bearings, Connecting Rod Bearings, O/H Set, Cylinder Head, Oil Suction Gasket, Oil Suction Tube Gasket, Oil Pan Gasket.

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MAXIFORCE® DIESELENGINEPARTS

Equipment Application Chart

Agricultural Equipment

MODEL	DESCRIPTION	ENGINE	PAGE
COMBINES			
915	IHC Navistar	DT414	**N02**
1460	IHC Navistar	DT436	**N03**
1470	To ESN 440,035, Narrow Bearing	DT466	**N04**
1480	IHC Navistar	DT436	**N03**
1480 Early	To ESN 440,035, Narrow Bearing	DT466	**N04**
1660 Early	ESN 440,036-532-980, Wide Brg	DT466	**N05**
1680 Early	ESN 440,036-532-980, Wide Brg	DT466	**N05**
FARM TRACTORS			
1066	IHC Navistar	DT414	**N02**
1086	IHC Navistar	DT414	**N02**
1466	IHC Navistar	DT436	**N03**
1486	IHC Navistar	DT436	**N03**
1566	IHC Navistar	DT436	**N03**
1586	IHC Navistar	DT436	**N03**
3388	IHC Navistar	DT436	**N03**
3588	To ESN 440,035, Narrow Bearing	DT466	**N04**
3788	To ESN 440,035, Narrow Bearing	DT466	**N04**
4166	IHC Navistar	DT436	**N03**
4186	IHC Navistar	DT436	**N03**
4366 Early	To ESN 440,035, Narrow Bearing	DT466	**N04**
4386	To ESN 440,035, Narrow Bearing	DT466	**N04**
5088	IHC Navistar	DT436	**N03**
5488 Early	To ESN 440,035, Narrow Bearing	DT466	**N04**
5488 Late	ESN 440,036-532-980, Wide Brg	DT466	**N05**
6388	IHC Navistar	DT436	**N03**
6588	To ESN 440,035, Narrow Bearing	DT466	**N04**
6788	To ESN 440,035, Narrow Bearing	DT466	**N04**
7288	ESN 440,036-532-980, Wide Brg	DT466	**N05**
7288 Early	To ESN 440,035, Narrow Bearing	DT466	**N04**
7388 Early	To ESN 440,035, Narrow Bearing	DT466	**N04**
7488	ESN 440,036-532-980, Wide Brg	DT466	**N05**

MODEL	DESCRIPTION	ENGINE	PAGE

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

INTERNATIONAL HARVESTER

Engine & Equipment Model

DT360

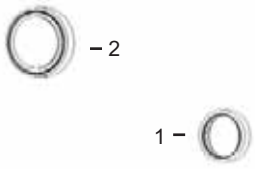
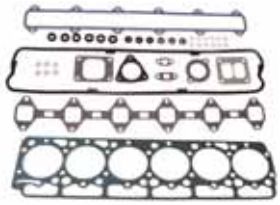
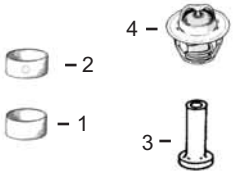
IHC

NAVISTAR

6 Cyl

Bore: 4.01 in
101.90 mm

From ESN 39375

Engine In-Frame Kit	Piston-Liner Kit	Ring, Piston	Main Bearing Set	Con Rod Bearing Set
				
1817253	**1817250** (3) Consists of: a) 1817178 (3) b) 1809935 c) 1809938	1817251 (3)	1823859 **Std.** 1823860 **.010** 1823861 **.020** **Set of 7 Pairs**	1823863 **Std.** 1823864 **.010** 1823865 **.020** **Set of 6 Pairs**
				
1) Front Seal 2) Rear Seal	1) O/H Set, Cyl. Head 2) O/H Set, Crankcase 3) Head Gasket 4) Oil Pan Gasket 5) Oil Suction Gasket 6) Gasket, Intake Manifold	1) Bush, Con Rod 2) Bushing, Cam 3) Tappet 4) Thermostat	1) Oil Pump 2) Water Pump	
1) 690437 2) 1809964	1) 1817255 2) 1817256 3) 1819546 4) 671825 5) 1802867 6) 682199	1) 675006 2) 676679 3) 1802340 4) 1801191 (180°)	1) 1802666 (1) 1808832 (2) 2) 1815538	



Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Seal, Stem	1) Spring, Valve
676687	1810086	1) 671602 2) 671599	1) 675439 2) 1815374	1) 682064

(1) Turbocharged.
(2) Turbocharged, Aftercooled.
(3) Replace in sets only for ESN 39375 to 90975

MAXIFORCE® DIESELENGINEPARTS

INTERNATIONAL HARVESTER

Engine & Equipment Model

DT414

IHC

NAVISTAR

6 Cyl

Bore: 4.3005 in
109.23 mm

Stroke: 4.75 in
120.70 mm

APPLICATIONS:

AGRICULTURAL
915
1066
1086



1) Engine Overhaul Kit

1) NOKDT414

2) Engine In-Frame Kit

2) NIKDT414



Piston-Liner Kit

684260

Consists of:

a) 684251
b) 1346908
c) 1810504
d) 680086



Main Bearing Set

1823847	**Std.**
1823848	**.010**
1823849	**.020**
1823850	**.030**

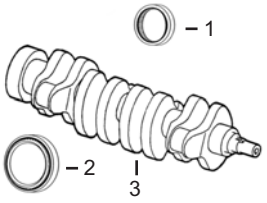
Set of 7 Pairs



Con Rod Bearing Set

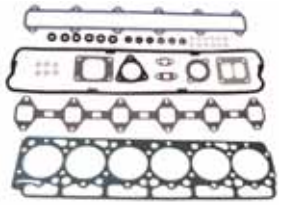
1823855	**Std.**
1823856	**.010**
1823857	**.020**
1823858	**.030**

Set of 6 Pairs



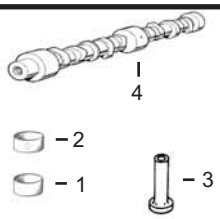
1) Front Seal
2) Rear Seal
3) Crankshaft

1) 690437
2) 1809964
3) 675050



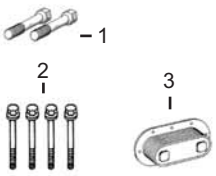
1) O/H Set, Cyl. Head
2) O/H Set, Crankcase
3) Head Gasket
4) Oil Pan Gasket
5) Oil Suction Gasket
6) Gasket, Oil Suction Tube
7) Gasket, Exhaust Manifold

1) 1817254
2) 674399
3) 1819547
4) 671827
5) 1802867
6) 671821
7) 1349062



1) Bush, Con Rod
2) Bushing, Cam
3) Tappet
4) Camshaft

1) 675006
2) 680117
3) 684729
1802340
4) 1802337



1) Con Rod Bolts
2) Head Bolts
3) Oil Cooler

1) 676679
2) 676119 ***x6***
676120 ***x20***
3) 1810171



Valve Train Kit (3)	1) Valve, Intake 2) Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Valve Rotator	1) Spring, Valve 2) Seal, Stem 3) Fuel Injector Tube
NVK400 (3)	1) 675046 ***x6*** 2) 676865 ***x6***	1) 671559 ***x6*** 2) 671563 ***x6***	1) 675439 ***x12*** 2) 76951 ***x24*** 3) 1811581 ***x12***	1) 682064 ***x12*** 2) 681234 ***x6*** 3) 675442 ***x6***



Thermostat

1801191 (180°)



Oil Pump

1802666 **(1)**
1808832 **(2)**



Water Pump

673162

(1) Turbocharged, 1.0" Rotor. To ESN 466,775.
(2) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.
(3) Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

INTERNATIONAL HARVESTER

Engine & Equipment Model

DT436

IHC

NAVISTAR

6 Cyl

Bore: 4.3005 in
109.23 mm

Stroke: 5.04 in
128.00 mm

APPLICATIONS:

AGRICULTURAL
1460
1480 Up to MSN 24.000
1466
1486
1566
1586
3388
4166
4186
5088
6388



1) Engine Overhaul Kit

1) NOKDT436

2) Engine In-Frame Kit

2) NIKDT436



Piston-Liner Kit

684261

Consists of:

a) 684253
b) 1346908
c) 1810504
d) 680086



Main Bearing Set

1823847	**Std.**
1823848	**.010**
1823849	**.020**
1823850	**.030**

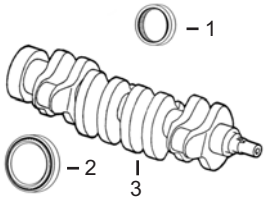
Set of 7 Pairs



Con Rod Bearing Set

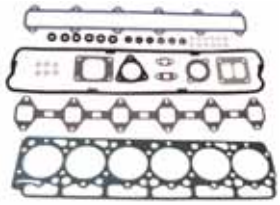
1823855	**Std.**
1823856	**.010**
1823857	**.020**
1823858	**.030**

Set of 6 Pairs



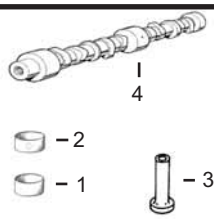
1) Front Seal
2) Rear Seal
3) Crankshaft

1) 690437
2) 1809964
3) 675051



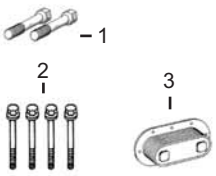
1) O/H Set, Cyl. Head
2) O/H Set, Crankcase
3) Head Gasket
4) Oil Pan Gasket
5) Oil Suction Gasket
6) Gasket, Oil Suction Tube
7) Gasket, Exhaust Manifold

1) 1817254
2) 674399
3) 1819547
4) 671827
5) 1802867
6) 671821
7) 1349062



1) Bush, Con Rod
2) Bushing, Cam
3) Tappet
4) Camshaft

1) 675006
2) 680117
3) 684729
1802340
4) 1802337



1) Con Rod Bolts
2) Head Bolts
3) Oil Cooler

1) 676679
2) 676119 ***x6***
676120 ***x20***
3) 1810171



Valve Train Kit (3)	1) Valve, Intake 2) Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Valve Rotator	1) Spring, Valve 2) Seal, Stem 3) Fuel Injector Tube
NVK400 (3)	1) 675046 ***x6*** 2) 676865 ***x6***	1) 671559 ***x6*** 2) 671563 ***x6***	1) 675439 ***x12*** 2) 76951 ***x24*** 3) 1811581 ***x12***	1) 682064 ***x12*** 2) 681234 ***x6*** 3) 675442 ***x6***



Thermostat

1801191 (180°)



Oil Pump

1802666 **(1)**
1808832 **(2)**



Water Pump

673162

(1) Turbocharged, 1.0" Rotor. To ESN 466,775.
(2) Turbocharged, Aftercooled, 1.25" Rotor. From ESN 466,776.
(3) Valve Train Kit include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

MAXIFORCE® DIESELENGINEPARTS

INTERNATIONAL HARVESTER

Engine & Equipment Model

DT466

To ESN 440,035

Narrow Bearings

Rod Bearing Width: 1.20”

Main Bearing Width: 1.225”

IHC

NAVISTAR

6 Cyl

Bore: 4.3005 in
109.23 mm

Stroke: 5.35 in
135.90 mm

APPLICATIONS:

AGRICULTURAL

1470
1480 Early
3588
3788
4366 Early
4386
5488 Early
6588
6788
7288 Early
7388 Early



1) Engine Overhaul Kit

1) NOKDT466N

2) Engine In-Frame Kit

2) 1825442



Piston-Liner Kit

1817645

Consists of:

a) 1817520
b) 1817247
c) 1810504
d) 680086



Main Bearing Set

1823847	**Std.**
1823848	**.010**
1823849	**.020**
1823850	**.030**

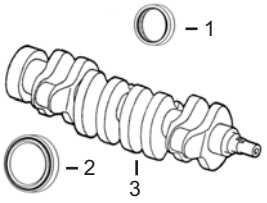
Set of 7 Pairs



Con Rod Bearing Set

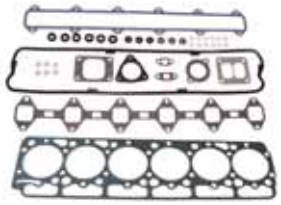
1823855	**Std.**
1823856	**.010**
1823857	**.020**
1823858	**.030**

Set of 6 Pairs



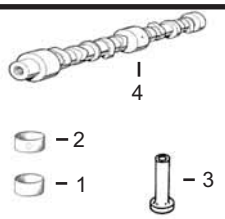
1) Front Seal
2) Rear Seal
3) Crankshaft

1) 690437
2) 1809964
3) 675669



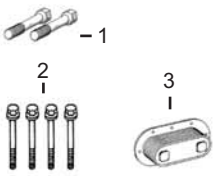
1) O/H Set, Cyl. Head
2) O/H Set, Crankcase
3) Head Gasket
4) Oil Pan Gasket
5) Oil Suction Gasket
6) Gasket, Oil Suction Tube
7) Gasket, Exhaust Manifold

1) 1817254
2) 674399
3) 1819547
4) 671827
5) 1802867
6) 671821
7) 1349062



1) Bush, Con Rod
2) Bushing, Cam
3) Tappet
4) Camshaft

1) 675006
2) 680117
3) 684729
1802340
4) 1802337



1) Con Rod Bolts
2) Head Bolts
3) Oil Cooler

1) 676679
2) 676119 *x6*
676120 *x20*
3) 1810171



Valve Train Kit (7)	1) Valve, Intake 2) Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Valve Rotator	1) Spring, Valve 2) Seal, Stem 3) Fuel Injector Tube
NVK400 (7)	1) 675046 *x6* 2) 676865 *x6*	1) 671559 *x6* 2) 671563 *x6*	1) 675439 *x12* (1) 1815264 *x12* (2) 2) 76951 *x24* 3) 1811581 *x12*	1) 682064 *x12* 2) 681234 *x6* (1) 1815374 *x6* (2) 3) 675442 *x6*



Thermostat

1801191 (180°)



Oil Pump

1802666 (3)
1808832 (4)



Water Pump

1815538 (5)
673162 (6)

(1) To ESN 594,839.
(2) From ESN 594,840.
(3) Turbocharged, 1.0” Rotor. To ESN 466,775.
(4) Turbocharged, Aftercooled, 1.25” Rotor. From ESN 466,776.
(5) Use for truck applications.
(6) Use for AG applications.
(7) **Valve Train Kit** include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244

INTERNATIONAL HARVESTER

Engine & Equipment Model

DT466

ESN
440,036 - 532,980

Wide Bearings

Rod Bearing Width: 1.26”

Main Bearing Width: 1.229”

IHC

NAVISTAR

6 Cyl

Bore: 4.3005 in
109.23 mm

Stroke: 5.35 in
135.90 mm

APPLICATIONS:

AGRICULTURAL
1660 Early
1680 Early
5488 Late
7288 Late
7488



1) Engine Overhaul Kit

1) NOKDT466W

2) Engine In-Frame Kit

2) 1825443



Piston-Liner Kit

1817645

Consists of:

a) 1817520
b) 1817247
c) 1810504
d) 680086



Main Bearing Set

1823843 **Std.**
1823844 **.010**
1823845 **.020**

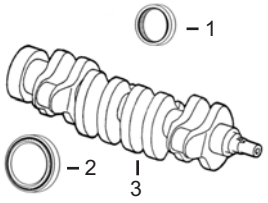
Set of 7 Pairs



Con Rod Bearing Set

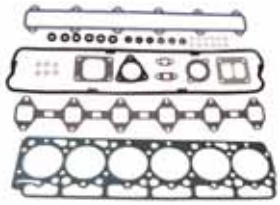
1823851 **Std.**
1823852 **.010**
1823853 **.020**

Set of 6 Pairs



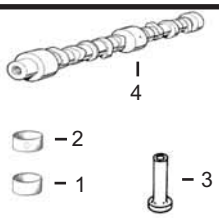
1) Front Seal
2) Rear Seal
3) Crankshaft

1) 690437
2) 1809964
3) 675669



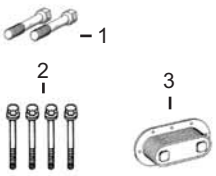
1) O/H Set, Cyl. Head
2) O/H Set, Crankcase
3) Head Gasket
4) Oil Pan Gasket
5) Oil Suction Gasket
6) Gasket, Oil Suction Tube
7) Gasket, Exhaust Manifold

1) 1817254
2) 674399
3) 1819547
4) 671827
5) 1802867
6) 671821
7) 1349062



1) Bush, Con Rod
2) Bushing, Cam
3) Tappet
4) Camshaft

1) 675006
2) 680117
3) 684729
1802340
4) 1802337



1) Con Rod Bolts
2) Head Bolts
3) Oil Cooler

1) 676679
2) 676119 ***x6***
676120 ***x20***
3) 1810171



Valve Train Kit (7)	1) Valve, Intake 2) Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Guide, Valve 2) Lock, Valve 3) Valve Rotator	1) Spring, Valve 2) Seal, Stem 3) Fuel Injector Tube
NVK400 (7)	1) 675046 ***x6*** 2) 676865 ***x6***	1) 671559 ***x6*** 2) 671563 ***x6***	1) 675439 ***x12*** (1) 1815264 ***x12*** (2) 2) 76951 ***x24*** 3) 1811581 ***x12***	1) 682064 ***x12*** 2) 681234 ***x6*** (1) 1815374 ***x6*** (2) 3) 675442 ***x6***



Thermostat

1801191 (180°)



Oil Pump

1802666 **(3)**
1808832 **(4)**



Water Pump

1815538 **(5)**
673162 **(6)**

(1) To ESN 594,839.
(2) From ESN 594,840.
(3) Turbocharged, 1.0” Rotor. To ESN 466,775.
(4) Turbocharged, Aftercooled, 1.25” Rotor. From ESN 466,776.
(5) Use for truck applications.
(6) Use for AG applications.
(7) **Valve Train Kit** include Intake Valves, Exhaust Valves, Valve Springs, Guides, and Locks.

MAXIFORCE® DIESELENGINEPARTS

Pagina en Español

Para nuestros clientes de habla española:

Maxiforce es una firma especializada en la manufactura y distribución de repuestos para motores John Deere®, Cummins® de las series B y C,® Perkins® Caterpillar,® y Yanmar®.

Nuestro catálogo está conformado por modelos de motor y aplicaciones de los mismos. Si Ud. tiene el modelo de motor se remite a el directamente y a la página donde se detalla de manera gráfica las partes y componentes disponibles para ese motor. Si por el contrario Ud. tiene el modelo del tractor o la máquina en que se usa dicho motor puede entonces usar el índice de aplicación y este lo llevara a la página adecuada donde Ud. podrá ver también el modelo y las características del motor en cuestión. En el caso de Cummins® incluimos el CPL (Control Parts List) que le servirá de guía precisa para llegar a la página correspondiente.

Hemos incluído un breve diccionario de los términos que más se usan en este cátalogo para contribuir al más fácil manejo del mismo. Si necesita Ud. cualquier información técnica o cualquier ayuda le sugerimos que se comunique con nuestras oficinas donde hay personas que hablan español y estarán muy contentas de poder atenderlo.

Diccionario

Ingles	*Español*	*Ingles*	*Español*
Backhoe Loader	Retroexcavadora/cargadora	Liter Designated	Designado por litros
Balancer Shaft	Eje/flecha de balanceador	Lock, Valve	Candado de valvula
Balancer Unit	Balanceador	Main Bearing	Cojinete de bancada
Belt	Correa	Main Bearing Set	Juego de cojinetes de bancada
Belt Tensioner	Tensor de correa	Motor Grader	Motoniveladora
Block	Bloque de motor	Nut, Con Rod	Tuerca de biela
Bolt, Con Rod	Tornillo de biela	Oil Cooler	Enfriador de aceite
Bottom Gasket Set	Juego de juntas/empaques inferiores	Oil Pump	Bomba de aceite
		O'ring	Anillo torico
Bushing, Cam	Buje/bocina arbol de levas	O'rings on Block	Gomas/juntas en el bloque
Bush, Con Rod	Buje/Bocina del piston	O'rings on Liner	Gomas/juntas sobre camisa
Camshaft	Eje de levas	Piston	Piston
Camshaft, Gear	Engranaje eje de levas	Piston Pin	Pasador de piston
Combine	Cosechadora	Piston-Liner Kit	Conjunto de cilindro
Con Rod Bearing	Cojinete de biela	Push Rod	Varilla impulsora
Con Rod Bearing set	Juego de cojinetes de biela	Rear Seal	Retén/sello/estopera trasero cigueñal
Con Rod	Biela		
Crankshaft	Cigueñal	Repair Sleeve	Camisa de reparacion
Crankshaft, Gear	Engranaje cigueñal	Ring Gear	Engranaje
Crawler Dozer	Pala de orugas	Ring Set	Juego de Anillos de motor/ segmentos
Crawler Loader	Cargadora de orugas		
Cylinder Head	Culata/cabezote/tapa motor	Rocker Arms	Balancines
Engine In-Frame	Kit de reparacion completa sobre el vehículo	Rocker Shaft	Eje de balancines
		Seal, Valve	Sello de valvula
Engine O/H Kit	Kit de reparacion completa	Seat, Valve	Asiento de valvula
Excavator	Retroexcavadora	Small Pin	Pasador pequeño
Farm Tractor	Tractor agricola	Spring, Valve	Resorte/muelle de valvula
Forklift	Carretilla elevadora	Tappet	Taquete/empujador
Front Seal	Retén/sello/estopera delantero cigueñal	Thick Wall	Pared gruesa
		Thin Wall	Pared delgada
Fuel transfer Pump	Bomba de transferencia	Top Gasket Set	Juego de juntas/empaques superiores
Gasket	Junta/empaque		
Guide, Valve	Guia de valvula	Valve, Exhaust	Valvula de escape
Heater Plug	Bujia de precalentamiento	Valve, Intake	Valvula de admision
Idler, Gear	Engranaje suelto	Warranty	Garantia
Insert, Valve	Asiento de valvula	Water pump	Bomba de agua
Large Pin	Pasador grande	Water Pump Repair Kit	Conjunto rep. Bomba de agua
Liner	Camisa de motor	Wheel Loader	Cargadora de ruedas

TEL 305.592.7027, 800.414.2095, FAX 305.592.0244