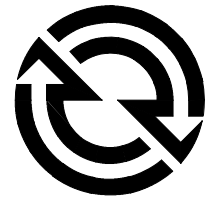


# Engine Parts

**DETROIT DIESEL**

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Diesel Engine

Generator Model:

**1750-2000 kW**

Engine Series:

4000

Engine Model:

T1637K16

## GENERAL INFORMATION

This customized parts catalog contains information specific to the customer serial number. All engine components in this catalog are divided into major groups of functionally related parts. A listing of the groups and their sub-groups appears under "Group Nomenclature" of this section.

The Alphabetical Index is particularly helpful when only a part name is known and the group can not readily be determined. Parts are listed alphabetically by noun name, followed by a description of the application of the part and the final group location.

Unlike the normal parts catalog this book does not contain types. The listing of parts is separated only by a group identification (e.g. 1.1000 for cylinder blocks). Components of major assemblies will follow the assembly. The order in which parts are listed is the same as the normal parts catalog.

Also included in the last pages of this catalog is a listing of various supplies required to maintain your engine.

The data in this publication is based on information known to Detroit Diesel at the time of printing. While every care and effort has been taken to ensure the accuracy of all information, engine modifications or subsequent engineering changes or enhancements may cause certain data to be superseded or rendered obsolete. Detroit Diesel reserves the right to make changes to this catalog at any time without notice.

If additional assistance is needed please contact your authorized Detroit Diesel service outlet.

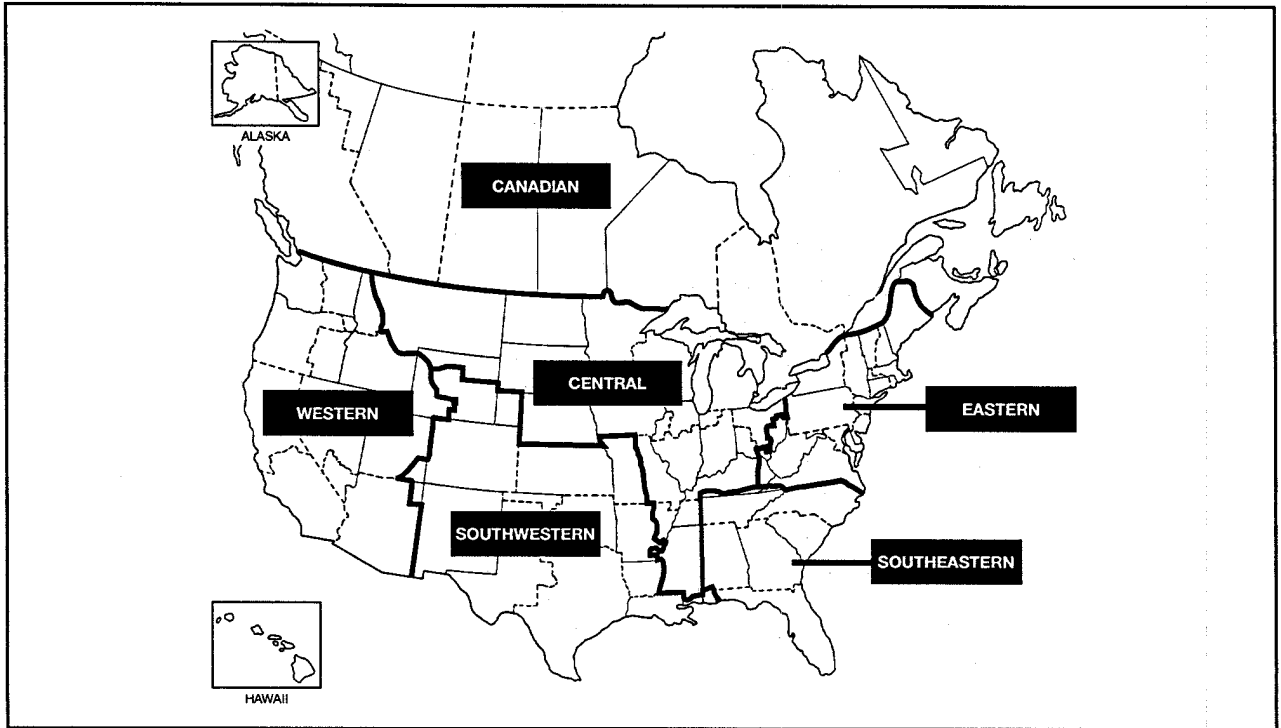
### IMPORTANT ENGINE INFORMATION

Your engine serial number should be kept readily available. It can be used to identify your model as well as ALL service parts including kits, sets, warranty information and extended coverage available.

## CUSTOMER ASSISTANCE

The satisfaction and goodwill of the owners of Detroit Diesel engines are of primary concern to Detroit Diesel Corporation and its distributor/dealer organizations.

As the owner of A Detroit Diesel Product you have a complete network of over 2,000 Detroit Diesel service outlets in the U.S. and Canada, plus many outlets worldwide that are prepared to meet your parts and service needs:



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C.P. 54160, Edo do Mexico  
Phone: (525) 333-1802  
Fax: (525) 333-1870

# **DETROIT DIESEL**

## **Custom Parts Catalog**

### **ENGINE DESCRIPTION**

**SERIAL NUMBER: 5270200130**

**SERIES NUMBER: 4000**

**MODEL NUMBER: T1637K16**

DETROIT DIESEL  
CUSTOM PARTS CATALOG 10/28/98  
5270200130

PART #	NAME AND DESCRIPTION	QUANTITY
<b>1.1000 - CYLINDER BLOCK</b>		
BLOCK, CYLINDER 5270100405	CYLINDER BLOCK ASSY 16V 'G'	1
BLOCK, CYLINDER 000912018008		
5240110111	BOLT, M18 X 180	18
5240110172	BEARING CAP, MAIN (NARROW) (STD)	8
5240110270	NUT M24 X 2 MAIN BEARING CAP	18
5240110511	STUD, MAIN BEARING CAP	18
5240510110	BEARING CAP, MAIN	1
5249970020	BEARING CAMSHAFT (STD)	9
700521018201	CAP SEALING	32
	WASHER 18.2	18
000908014001		
	PLUG, M14 X 1.5	5
000908018002		
	PLUG, THREADED M18 X 1.5	2
000912008115		
	BOLT, M8 X 16	2
007603014102		
	WASHER, A14 X 18 COPPER	5
007603018101		
	WASHER, A18 X 22 COPPER	2
5240110240	FILLER PIECE STRIP	1
COVER, CYLINDER BLOCK	HAND HOLE	
5240110732	COVER ACCESS	9
000933010035		
	BOLT, M10 X 25	70
GASKET, CYLINDER BLOCK	HAND HOLE COVER	
5240111380	GASKET, ACCESS COVER	9
COVER, CYLINDER BLOCK	VALLEY	
5270101214	VALLY COVER	1
5249950059	STRAP 74.5 X 25	1
000908014001		
	PLUG, M14 X 1.5	1
5240111432	PLUG 50MM	1
700429018005		
	SEAL RING 18 X 4	10
700429042000		
	SEAL RING 42 X 5	1
700429055001		
	SEAL RING 55 X 5	1
900421010002		
	INSERT M10 X 20 THREADED	5
000933010089		
	BOLT, M10 X 20	1
000933010093		
	BOLT, M10 X 35 8.8	32
000933010111		
	BOLT, M10 X 12	1
5241880136	STUD M10 X 39	8
000125010524		
	WASHER, A10.5	36
007603014102		
	WASHER, A14 X 18 COPPER	1
GASKET, CYLINDER BLOCK	VALLEY COVER	
5279970345	SEAL STRIP 1357 X 5	1
<b>1.2000 - CYLINDER HEAD</b>		
HEAD ASSY., CYLINDER		
5240102120	CYL HEAD ASM	16
23550135	PLUG, THREADED M14 X 1.5	16
007603014102		
	WASHER, A14 X 18 COPPER	16

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PART #	NAME AND DESCRIPTION	QUANTITY
1.2000 - CYLINDER HEAD		
GASKET, CYLINDER HEAD		
5240160319	SEAL RING 194.5 X 213	16
5240160580	GASKET CYLINDER HEAD	16
BOLT, CYLINDER HEAD		
5249900701	BOLT CYL HEAD M22 2.00 X 308	88
5240110062	WASHER THRUST	88
1.2000A - ENGINE LIFTER BRACKET		
BRACKET, ENGINE LIFTER-FRONT		
5242230341	BRACKET, LIFTER	4
5240160069	BOLT M22 X 335	8
5240110062	WASHER THRUST	8
1.3000 - CRANKSHAFT,OIL SEALS AND STABILIZERS		
SEAL, CRANKSHAFT OIL-FRONT		
700429150000	SEAL, CR/SHF FRONT	1
GEAR, CRANKSHAFT TIMING		
5240320258	RETAINER	1
5240350124	FLANGE	1
735073008000		
	PLUG SEAL	2
0219976547	SEAL, CRANKSHAFT (AUX PTO)	1
700429180000		
	SEAL RING, 180 X 4	3
700429290000		
	SEAL RING 290 X 4	1
000933012077		
	BOLT, M12 X 35	6
000125013012		
	WASHER, A13	6
1.3000 - CRANKSHAFT,OIL SEALS AND STABILIZERS		
CRANKSHAFT ASSY		
5270300301	CRANKSHAFT ASSY 16V	1
CRANKSHAFT ASSY		
5240310407	COUNTERWEIGHT	8
5240310171	BOLT M24 1.5 X 130	16
GEAR, CRANKSHAFT TIMING		
5240520203	GEAR, CRANKSHAFT	1
SHELL, CRANKSHAFT MAIN BEARING		
5240333402	BEARING, CR/SHF LWR MAIN	8
5240333501	BEARING, CR/SHF UPR MAIN	8
WASHER, CRANKSHAFT MAIN BEARING THRUST		
5240331507	BEARING, CR/SHF LWR MAIN THRUST	1
5240331508	BEARING, CR/SHF UPR MAIN THRUST	1
GEAR, CRANKSHAFT TIMING		
5240310948	WHEEL TRS METERING	1
5260320106	DRIVE FLANGE	1
001481006004		
	PIN SPRING 6 X 20	2
5769970219	PLUG ASM	1
0219976647	RING, CRANKSHAFT OIL SEAL	1
304017008079		
	BOLT, M8 X 20 8.8	8
000125008427		
	WASHER, A8.4	8
1.3000A - CRANKSHAFT FRONT COVER		
HOUSING ASSY., GEAR CASE		
5240101133	GEAR CASE	NS

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>1.3000A - CRANKSHAFT FRONT COVER</b>		
HOUSING ASSY., GEAR CASE		
5240101033	HOUSING ASSY., GEAR CASE	1
CRANKSHAFT, FRONT SUPPORT BEARING		
5240332030	BEARING, CRANKSHAFT	1
000908038000		
	PLUG, SCREW M38	2
000908052003		
	PLUG, M52	2
0009973532	PLUG, M26 X 1.5	2
5240150271	PLUG DRAIN M26X1.5X117X19	2
5319971432	PLUG ASSY., M14 X 1.5	4
735073010000		
	PLUG SEALING M10	1
700429015000		
	SEAL RING 15 X 3	2
000931012213		
	BOLT, M12 X 180	2
000931012215		
	BOLT, M12 X 150	10
000939012023		
	STUD, M12 X 30	6
000125013012		
	WASHER, A13	6
007349013002		
	WASHER, M13	10
007603026104		
	WASHER, A26 X 31 COPPER	2
007603038101		
	WASHER, A38 X 44 COPPER	2
007603052101		
	WASHER, A52 X 60 COPPER	2
5130822	WASHER, SPECIAL (5.4140)	6
000934012010		
	NUT, HEX M12	6
<b>GASKET, CRANKSHAFT FRONT COVER</b>		
700429083000		
	SEAL RING, 83 X 5	2
<b>COVER, ENGINE FRONT ACCESSORY DRIVE</b>		
5241880102	COVER	5
5241880202	COVER	2
5241880502	COVER	1
000933010035		
	BOLT, M10 X 25	12
000933012056		
	BOLT, M12 X 30	30
<b>GASKET, ENGINE FRONT ACCESSORY DRIVE</b>		
5241880080	GASKET	5
5241880180	GASKET	2
8929299	GASKET, ACCESSORY FRONT	1
<b>1.3000B - VIBRATION DAMPER</b>		
DAMPER, VIBRATION		
0000350800	DAMPER, VIBRATION	1
000933020017		
	BOLT, M20 X 50	12
<b>1.3000C - CRANKSHAFT PULLEY</b>		
PULLEY, CRANKSHAFT		
5242060810	PULLEY, CRANKSHAFT	1
RETAINER, CRANKSHAFT PULLEY		
11511519	WASHER, M20	12
5249900612	BOLT M20 X 200	12
<b>1.4000A - FLYWHEEL</b>		

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>1.4000A - FLYWHEEL</b>		
FLYWHEEL ASSY.		
5240300205	FLYWHEEL ASSY. (SAE 00)	1
GEAR, FLYWHEEL RING		
5240320505	RING GEAR	1
5141829	PLATE, SCUFF	1
11501752	BOLT, M16 X 2.0 X 50	15
8929328	WASHER, 16.8" X 25.8" (12.9190)	15
<b>1.5000A - FLYWHEEL HOUSING</b>		
HOUSING ASSY., FLYWHEEL		
5240101537	HOUSING ASSY., FLYWHEEL	1
000910022003	PLUG, SCREW M22	2
000931012215	BOLT, M12 X 150	10
000933012059	BOLT, M12 X 40 10.9	7
000933012079	BOLT, M12 X 55	16
007603022102	WASHER, A22 X 27 COPPER	2
206796012000	WASHER, SPRING	33
COVER, FLYWHEEL HOUSING		
5240130733	COVER, SCREEN (BOTTOM)	1
5240130833	COVER, SCREEN	2
5242370065	COVER, SCREEN (TOP CENTER)	1
5242370265	COVER, SCREEN (TOP SIDE)	2
007604016102	PLUG, M16	2
700429033001	SEAL RING 33 X 5	2
11504986	BOLT, M8 X 1.25 X 14 MM	12
11509512	BOLT, M8 X 1.25 X 25 MM	12
007603016105	WASHER, A16 X 20 COPPER	2
206796012000	WASHER, SPRING	33
5242370053	SPACER, 8.7MM ID X 10MM	12
<b>1.6000 - CONNECTING ROD AND PISTON</b>		
CONNECTING ROD ASSY.		
5240300720	ROD ASSY, CONNECTING	16
5500380474	PIN, CONROD	16
5240380471	BOLT M20 1.50 X 103.0	32
BUSHING, CONNECTING ROD PISTON		
5240381350	BUSHING CONROD	16
SHELL, CONNECTING ROD BEARING		
23523045	SHELL SET	16
PISTON ASSY.		
5240301617	PISTON ASSY.	16
5240371525	PISTON DOME ASSY.	16
5240300215	SKIRT, PISTON	16
001481005017	PIN SPRING 5 X 16	16
5240370276	PLATE, PRESSURE	32
5249900619	BOLT M9-1.00X57.5	64
RING, PISTON COMPRESSION		
0080375819	RING, TOP COMPRESSION	16
0120370819	RING, COMPRESSION 2ND	16

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PART #	NAME AND DESCRIPTION	QUANTITY
1.6000 - CONNECTING ROD AND PISTON		
RING, PISTON OIL CONTROL 0120370618	RING, OIL CONTROL	16
PIN, PISTON 5240370120	PIN, PISTON	16
RETAINER, PISTON PIN 000472068000	SNAP RING, 68 X 2.5	32
CYLINDER KIT 5240113110	CYLINDER LINER "G"	16
SEAL, CYLINDER LINER 5550110059	SEAL CYL BLK LINER	32
1.7000 - CAMSHAFT AND GEAR TRAIN		
CAMSHAFT ASSY. 5270500101	CAMSHAFT ASM 16V (INCLUDES DOWEL PINS IN 1.7001)	1
000007010111	DOWEL PIN	2
FLANGE, CAMSHAFT DRIVE 5240500344	FLANGE ASSY., CAMSHAFT THRUST BEARING (INCLUDES PLUGS IN 1.7007)	1
735073010000	PLUG SEALING M10	1
000933012051	BOLT, M12 X 50 8.8	3
WHEEL, SPEED SENSOR PULSE 5240521348	SRS WHEEL DDEC	1
GEAR, CAMSHAFT AND BALANCE SHAFT 5240520501	GEAR, CAMSHAFT	1
5240510351	RING	1
000931012052	BOLT, M12 X 70	5
GEAR ASSY., IDLER 5240500105	GEAR ASSY., IDLER (INCLUDES BUSHING IN 1.7225)	2
GEAR ASSY., IDLER 5240520502	GEAR ASSY., IDLER	1
BEARING, IDLER GEAR 0029922401	BUSHING, IDLER GEAR 80 X 40	1
BEARING, IDLER GEAR 0029922401	BUSHING, IDLER GEAR 80 X 40	2
HUB, IDLER GEAR 5240150317	AXLE, IDLER GEAR	2
700429024000	SEAL RING 24 X 5	2
700429083000	SEAL RING, 83 X 5	2
000931016068	BOLT, M16 X 160	2
000933010093	BOLT, M10 X 35 8.8	6
1.8000 - VALVE MECHANISM		
ARM ASSY., EXHAUST VALVE ROCKER 5240500334	ROCKER ARM ASSY., EXHAUST (INCLUDES BUSHING IN 1.8100 & ITEMS IN 1.8135)	16
ARM ASSY., INTAKE VALVE ROCKER		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE MECHANISM		
5240500333	ROCKER ARM ASSY., INTAKE (INCLUDES BUSHING IN 1.8105 & ITEMS IN 1.8135)	16
BUSHING, INTAKE VALVE ROCKER		
5240550550	BUSHING	32
SCREW, ROCKER ARM ADJUSTING		
5240500145	THRUST MEMBER ROCKER ARM	32
5240550320	BOLT, ROCKER ARM ADJUSTING	32
200439016200	NUT M16 X 1.5	32
SHAFT ASSY., ROCKER		
5240550405	ROCKER ARM PEDESTAL	16
735073007000	PLUG-RIVET	16
000933010194	BOLT, M10 X 40 10.9	16
5240550205	SHAFT, SWING ROCKER ARM	8
BRACKET, ROCKER SHAFT		
5240500336	PEDESTAL ASSY., ROCKER ASRM (INCLUDES ARM & PLUG IN 1.8160 & PINS IN 1.8170)	16
000471045000	RING, SNAP	32
001474006000	PIN GROOVE 6 X 12	32
001481002017	PIN SPRING 2 X 8	16
001481003508	PIN SPRING 3.5 X 8	16
000931016091	BOLT, M16 X 180	16
200988045000	WASHER	32
700521016200	WASHER M16 X 2	16
ROD, PUSH		
5240500730	PUSHROD ASSY (INCLUDES SLEEVE IN 1.8180)	32
5240540505	SLEEVE, PUSHROD	32
ARM ASSY., SWING EXHAUST VALVE ROCKER		
5240501035	ARM ASSY., SWING FOLLOWER EXHAUST (INCLUDES ITEMS IN 1.8253)	16
5240550650	BUSHING, ROCKER ARM	32
201850032400	BUSHING G32 X 36 X 20	16
5240550018	ROLLER ROCKER ARM	16
5240550324	BALL SOCKET	16
5550540174	PIN 38 X 14	16
ARM ASSY., SWING INTAKE VALVE ROCKER		
5240501135	ARM ASSY., SWING FOLLOWE INTAKE (INCLUDES ITEMS IN 1.8255)	16
5240550650	BUSHING, ROCKER ARM	32
201850032400	BUSHING G32 X 36 X 20	16
5240550018	ROLLER ROCKER ARM	16
5240550324	BALL SOCKET	16
5550540174	PIN 38 X 14	16
VALVE, EXHAUST		
5240530305	VALVE EXHAUST	32
VALVE, INTAKE		
5240530301	VALVE INLET	32
GUIDE, EXHAUST VALVE		
5240530530	VALVE GUIDE	64

DETROIT DIESEL  
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PART #	NAME AND DESCRIPTION	QUANTITY
<b>1.8000 - VALVE MECHANISM</b>		
SPRING, VALVE		
5240530120	SPRING VALVE OUTER	64
5240530122	SPRING VALVE INNER	64
BRIDGE, EXHAUST VALVE		
5240500132	BRIDGE ASSY., VALVE	32
	(INCLUDES SCREW & NUT IN 1.8343)	
5240550520	SCREW ADJUSTING M16 X 1.5 X 8.0 - 14.0	32
200439016200	NUT M16 X 1.5	32
GUIDE, VALVE BRIDGE		
5240550222	GUIDE PIN VALVE	32
CAP, VALVE SPRING		
5240530125	RETAINER VALVE SPRING	64
ROTATOR, VALVE		
0000533835	ROTATOR, VALVE	64
LOCK, VALVE SPRING		
0000530926	VALVE KEEPER	128
<b>1.8000A - ROCKER COVER</b>		
COVER ASSY., ROCKER		
5240160205	ROCKER COVER	16
GASKET, ROCKER COVER		
5240160321	GASKET, ROCKER COVER	16
BOLT, ROCKER COVER		
000931010332	BOLT, M10 X 150	32
000125010524	WASHER, A10.5	28

DETROIT DIESEL  
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PART #	NAME AND DESCRIPTION	QUANTITY
<b>2.1000A - FUEL INJECTOR</b>		
INJECTOR ASSY. 0000105151	INJECTOR ASSY., VTO-G109BD W/FILTER	16
RING, INJECTOR SEAL 700429037000		
	SEAL RING, 37.7 X 3.53	3
700429021001		
	SEAL RING 21 X 2	1
0000160119	SEAL RING, INJECTOR	1
CLAMP, INJECTOR 5240780535	CLAMP	16
5249902101	BOLT	16
<b>2.1000B - INJECTOR CONTROLS ELECTRONIC</b>		
MODULE ASSY., ELECTRONIC CONTROL (ECM) 23519309	MODULE DDEC IV	2
PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD 23516935	PLATE ASM COLD ECM END MT DDEC III	2
5240111132	COVER	1
5240111380	GASKET, ACCESS COVER	2
5244760724	FITTING	4
23512307	ISOLATOR, ECM MOUNT	16
5240110370	EXTENSION	4
103172	STUD, 5/16"X1 1/8"	4
000933010035		
	BOLT, M10 X 25	14
11504603	SCREW, M8X1.0OX25.0 MM	10
23514941	BOLT, 5/16-18 X 2.16 SHOULDER HEX HD.	4
SENSOR, OIL OR FUEL PRESSURE 0025358931	SENSOR, OIL/FUEL PRESSURE (10 BAR) M14X1.5	2
0035351331	SENSOR, FUEL RAIL PRESSURE	1
SENSOR, MAG. IDLER 0005352233	SENSOR, SRS	1
11504986	BOLT, M8 X 1.25 X 14 MM	1
SENSOR, MAG. CRANKSHAFT 0005358633	SENSOR, TRS 90MM LG DDECIII	1
11504986	BOLT, M8 X 1.25 X 14 MM	1
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE 0005355630	SENSOR, OIL/FUEL/COOLANT/CHARGE TEMP	6
SENSOR, AIR PRESSURE 0025359031	SENSOR, TURBO BOOST (4.6 BAR) M18X1.5	2
SENSOR, CRANKCASE PRESSURE 0025358531	SENSOR, CRANKCASE PRESSURE	1
SENSOR, COOLANT PRESSURE 0025358831	SENSOR, COOLANT PRESSURE (4 BAR) M14X1.5	2
HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR 0005300834	HARNESS ASSY., INJECTOR WIRING LB	1
0005300934	HARNESS ASSY., INJECTOR WIRING RB	1
HARNESS, ENGINE SENSORS TO ECM 0005301734	HARNESS, SENSOR LB	1
23520334	CLIP	3
2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)	2
HARNESS, POWER INTERFACE 2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	3
2488023	CLIP, .938" DIA., 3/8"	4
5101020	STRAP, NYLON (2.5255)	60
5166565	BRACKET (9.1591)	1
11504505	BOLT, M8X1.25X20.0 MM FLANGED	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000B - INJECTOR CONTROLS ELECTRONIC		
11503553	NUT, M8X1.25	1
2.2000 - FUEL PUMP		
PUMP ASSY., FUEL		
0050707601	PUMP ASSY., FUEL HIGH PRESSURE 12V/16V	1
000912012011	BOLT, M12 X 40	4
ADAPTOR, FUEL PUMP DRIVE		
5240910024	ADAPTOR	1
2.2000 - FUEL PUMP		
PUMP ASSY., FUEL		
5280910001	PUMP ASSY., FUEL LOW PRESSURE 16V	1
PUMP ASSY., FUEL		
5366191015	PLUG ASM	2
COUPLING, FUEL PUMP DRIVE		
5240910224	COUPLING	1
5249902501	BOLT, M10 1.50 X 25.0 12 PT	2
GASKET, FUEL PUMP TO ENGINE		
700429083000	SEAL RING, 83 X 5	1
2.3000A - FUEL FILTER		
ELEMENT, FUEL FILTER		
23518529	FILTER, FUEL SECONDARY	2
COVER, FUEL FILTER		
5240900627	ADAPTOR ASM	1
700429024002	SEAL RING 24 X 4	4
11505299	BOLT, M10 X 1.5 X 30.0 MM	6
2.5000A - FUEL LINES		
VALVE, FUEL SUPPLY CHECK		
5148007	VALVE, CHECK (TO JUNCTION BLOCK)	1
5244700007	VALVE ASSY., SAFETY RELIEF	1
5244700107	REGULATOR ASSY.	1
TUBE, FUEL PUMP INLET		
5244710021	FLANGE	1
5244760001	CONNECTOR	1
5249970745	SEAL RING 29.6 X 2.9	1
700429024001	SEAL RING 24 X 2.5	2
700429037002	SEAL RING, 37 X 3	1
11509512	BOLT, M8 X 1.25 X 25 MM	2
TUBE, FUEL PUMP TO FILTER		
5240902976	TUBE ASM	1
5244760424	FITTING, M16 X 1.5 ISO 6149 TO 11/16"-16	1
TUBE, FUEL DRAIN CROSSOVER		
5244700164	TUBE ASSY., COLD PLATE JUMPER	1
TUBE, FUEL DRAIN		
5244760301	TUBE ASSY., HIGH PRESSURE PUMP VENT	1
5244710021	FLANGE	1
5244760001	CONNECTOR	1
5249970745	SEAL RING 29.6 X 2.9	1
700429024001	SEAL RING 24 X 2.5	2
700429037002	SEAL RING, 37 X 3	1
11509512	BOLT, M8 X 1.25 X 25 MM	2

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>2.5000A - FUEL LINES</b>		
<b>BLOCK, FUEL SYSTEM JUNCTION</b>		
5244720102	JUNCTION BLOCK	1
5244760024	FITTING, M33 X 2 ISO 6149 TO 1 5/16"-12	1
5244760224	FITTING, M27 X 2 ISO 6149 TO 1 1/16"-12 (CONNECTS TO 5148007 CHECK VALVE)	1
5244760324	FITTING, M27 X 2 ISO 6149 TO 1 3/16"-12	2
5319970532	PLUG M27 X 2	3
5319971432	PLUG ASSY., M14 X 1.5	3
700429180000		
	SEAL RING, 180 X 4	1
23507438	STUD, M10 X 1.5 X 44.0	2
11504516	BOLT M10 1.50 X 35.0 LG	5
11506101	NUT, M10 X 1.5	2
<b>HOSE, JUNCTION BLOCK TO FUEL BLOCK ASSY.</b>		
CA130180	HOSE ASM	1
CA130210	HOSE ASM	1
5319975672	FITTING, 90 DEG M12 X 1.5 ISO 6149 TO 11/16	2
23520334	CLIP	1
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2
5166565	BRACKET (9.1591)	1
11504505	BOLT, M8X1.25X20.0 MM FLANGED	1
11503553	NUT, M8X1.25	1
<b>2.5000A - FUEL LINES</b>		
<b>TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RAIL</b>		
5270700332	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO RB RAIL	1
5270700432	TUBE ASSY., FUEL HIGH PRESSURE PUMP TO LB RAIL	1
5801533240	BRACKET L	1
5249970181	GROMMET	3
700325018100		
	CLAMP, HALF TUBE	2
700325018109		
	CLAMP, HALF	4
304017008085		
	BOLT, M8 X 40 8.8	1
<b>CONNECTOR, FUEL HIGH PRESSURE LINES</b>		
0000785249	VALVE, FLOW LIMITING	16
5270780190	RAIL, FUEL HIGH PRESSURE 16V	2
5240780424	CONNECTOR, FUEL RAIL TO HP LINE	2
5240780524	PLUG, HIGH PRESSURE FUEL RAIL RB REAR	1
5240780171	NUT, END OF RAIL	4
5240780276	WASHER, HIGH PRESSURE CONNECTION	2
5240780768	CONNECTOR	16
5240700533	LINE, HIGH PRESSURE JUMPER	16
700429024000		
	SEAL RING 24 X 5	16
0000786649	PLUG, HIGH PRESSURE W/SAFETY VALVE	1
000933010194		
	BOLT, M10 X 40 10.9	16
<b>TUBE, FUEL DRAIN</b>		
5240702832	TUBE ASSY., FUEL RETURN	16
915006004002		
	UNION, 4	32
007603012111		
	WASHER, A12 X 15.5 COPPER	32
<b>TUBE ASSY., FUEL RETURN MANIFOLD</b>		
0049900870	TEE FITTING	1
5240700538	TUBE ASSY., RETURN MANIFOLD RT & LT 16V	2
5240704232	TUBE ASSY., SAFETY VALVE FUEL RETURN RAIL	1
5240901076	TUBE ASSY., FUEL RETURN MANIFOLD RT	1
5240901176	TUBE ASSY., FUEL RETURN MANIFOLD RT	1
5240901276	TUBE ASSY., FUEL RETURN MANIFOLD LT	1
5240781141	BRACKET	2
000933010073		
	BOLT, M10 X 80 LG	2

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2.5000A - FUEL LINES 000933010094		
	BOLT, M10 X 40	9
700325022114	CLAMP, PIPE HALF	22
700327018000	GROMMET, M18	4
700223004000	BOLT, BANJO A4	1
915005008001	FITTING, TAPERED SEALING	1
007603012111	WASHER, A12 X 15.5 COPPER	2
735028016001	NUT, M16 X 1.5	1
BLOCK, FUEL SYSTEM JUNCTION 5240901376	TUBE ASSY., TO FUEL JUNCTION BLOCK	1

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>3.3000C - AIR INTAKE MANIFOLD</b>		
<b>AIR INTAKE MANIFOLD</b>		
5240980907	MANIFOLD AIR (CENTER)	6
5240981107	MANIFOLD AIR CHARGE (FRONT)	1
5240981407	MANIFOLD AIR CHARGE (FRONT)	1
700354014003		
	ADAPTOR, BUSHING M14 X 1.5	2
000931010345		
	BOLT, M10 X 140	32
000125010524		
	WASHER, A10.5	32
007603014102		
	WASHER, A14 X 18 COPPER	2
007603022102		
	WASHER, A22 X 27 COPPER	2
007603052101		
	WASHER, A52 X 60 COPPER	2
700429140000		
	SEAL RING, 140 X 8	7
000908014001		
	PLUG, M14 X 1.5	2
000908052003		
	PLUG, M52	2
<b>GASKET, AIR INTAKE MANIFOLD</b>		
5240980680	GASKET	16
<b>3.5000A - TURBOCHARGER</b>		
<b>TURBOCHARGER</b>		
5240200105	TURBO ASSY., BTV8506 1.23 A/R	4
<b>HOUSING TURBOCHARGER TURBINE</b>		
23505492	CLAMP (VEE BAND)	1
5240810001	TURBINE HSG	1
<b>HOUSING ASSY., TURBOCHARGER INTERMEDIATE</b>		
5240200205	ROTATING HSG	1
<b>HOUSING TURBOCHARGER COMPRESSOR</b>		
23505493	CLAMP (VEE BAND)	1
5240210001	COMP HSG	1
<b>GASKET, TURBOCHARGER EXHAUST INLET CONNECTION</b>		
23517076	GASKET TURB EXH INLET S50G	4
<b>ADAPTOR, TURBOCHARGER EXHAUST OUTLET</b>		
5241420102	EXH OUTLET	2
<b>GASKET, TURBOCHARGER EXHAUST OUTLET</b>		
5244920181	SEAL RING	4
<b>BRACKET, TURBOCHARGER EXHAUST OUTLET ADAPTOR</b>		
5241420540	BRACKET	4
5249900405		16
11504516	BOLT M10 1.50 X 35.0 LG	4
11506101	NUT, M10 X 1.5	18
5241420052	SPACER	8
5241420072	SPACER	2
5241420152	SPACER	8
<b>TUBE, TURBOCHARGER AIR OUTLET CONNECTION</b>		
5260980607	COLLECTOR, CHARGE AIR (LB)	1
5260980707	COLLECTOR, CHARGE AIR (RB)	1
5270980407	TUBE ASSY., CHARGE AIR (RB)	1
5270980507	TUBE ASSY., CHARGE AIR (LB)	1
5240980216	ADAPTOR	4
11509512	BOLT, M8 X 1.25 X 25 MM	6
5136911	CLAMP, 4 3/4" DIA.	4
5279970045	SEAL RING	12
5279970145	SEAL RING	2
5279970245	SEAL RING	4
<b>BRACKET, TURBOCHARGER AIR OUTLET TUBE</b>		

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>3.5000A - TURBOCHARGER</b>		
5240960040	BRACKET, CHARGE AIR TUBE (LB)	1
5240960140	BRACKET, CHARGE AIR TUBE (RB)	1
5240960240	BRACKET, CHARGE AIR TUBING RKR CVR SPAN	2
11503454	BOLT, M10 X 1.5 X 20.0	4
11503669	BOLT, M10 1.50 X 80.0	1
11506101	NUT, M10 X 1.5	4
11509524	BOLT M10 1.50 X 95.00 LG	1
<b>TUBE, TURBOCHARGER OIL SUPPLY</b>		
5241800419	TUBE ASM	2
5241800519	TUBE ASM	2
5241870026	STRAIGHT FIT	8
11503454	BOLT, M10 X 1.5 X 20.0	4
11502812	NUT, M10X1.5	4
<b>CLIP, TURBOCHARGER OIL SUPPLY TUBE</b>		
5241880240	BRACKET	2
5241880540	BRACKET	2
5141765	SPACER, 15/32"X 1"X.76" (7.1598)	1
5163906	SPACER, 15/32"X1/4"13/16" (7.1598)	3
5125608	WASHER, 15/32"X3/4"X1/8"	1
000931010147		
	BOLT, M10 X 100	1
000931010154		
	BOLT, M10 X 110	3
<b>TUBE, TURBOCHARGER OIL RETURN</b>		
5241802320	TUBE ASM	2
5241802420	TUBE ASM	2
5241870380	GASKET	8
11503454	BOLT, M10 X 1.5 X 20.0	8
11506101	NUT, M10 X 1.5	8
<b>3.7000 - INTERCOOLER/AFTERCOOLER</b>		
<b>INTERCOOLER ASSY.</b>		
5260900014	COOLER ASSY., CHARGE AIR	1
5319971432	PLUG ASSY., M14 X 1.5	2
<b>BRACKET, INTERCOOLER MOUNTING</b>		
5260980030	BRACKET, SUPPORT RIGHT LWR SCAC	1
5260980130	BRACKET, SUPPORT LEFT LWR SCAC	1
5260980230	BRACKET, SUPPORT UPPER 'V' SCAC	2
5241870047	PLATE	2
11500945	BOLT, M12 X 1.75 X 45.0	6
11503316	BOLT, M12 1.75 X 35.0	8
23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.	2
5249900304	BOLT, M12 1.75 X 65.0	4
5269900101	BOLT, M16 2.00 X 110.0 HEX HD	6
5117082	SPACER, .53"X1.16" (3.4103)	14
5249900140	WASHER M16-31.69 X 17.39 X 3.0	6
<b>TUBE, WATER PUMP OUTLET</b>		
5242000251	TUBE ASSY., WATER FRONT CAC	1
5242000351	TUBE ASSY., WATER TOP CAC	1
000933010092		
	BOLT, M10 X 30 8.8	3
5272030080	GASKET	1
5319971432	PLUG ASSY., M14 X 1.5	2
5249970078	RING, COUPLING	3
<b>TUBE, INTERCOOLER WATER INLET</b>		
5242030501	TUBE ASSY., WATER PUMP INLET	1
5242030601	TUBE ASSY., WATER FRONT CAC	1
5272030401	TUBE, CHARGE AIR CLR SUPPLY	1
11509512	BOLT, M8 X 1.25 X 25 MM	3
5109349	SPACER, 15/32" (7.1595)	2
5242030380	GASKET, WATER PUMP INLET	1
5319971432	PLUG ASSY., M14 X 1.5	1
5249970078	RING, COUPLING	2

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>3.7000 - INTERCOOLER/AFTERCOOLER</b>		
<b>TUBE, INTERCOOLER WATER OUTLET</b>		
5272030501	TUBE, CHARGE AIR CLR RETURN	1
<b>CLAMP, TUBE</b>		
5242030840	SUPPORT/CLAMP, COOL TUBE CAC	12
5242031040	CLAMP TUBE	2
11504571	BOLT, M10 X 1.5 X 65.0MM	1
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	6
11502812	NUT, M10X1.5	1
<b>HOUSING, INTERCOOLER</b>		
5260980037	HOUSING, CHARGE AIR COOLING INLET	1
5260980137	HOUSING CHARGE AIR COOLING OUTLET	1
11504822	BOLT, M8 X 1.25 X 30	36
23520801	BOLT, M8 1.25 X 45.0	34
5177362	SPACER, 3/8"X3/4"X1/4" (2.9643)	70
5269870235	SEAL, CHARGE AIR COOLER	2
5249910160	PIN ROLL	4
<b>ELBOW, WATER INLET &amp; OUTLET INTERCOOLER</b>		
5260980015	ELBOW, AIR OUTLET LEFT BANK	1
5260980115	ELBOW, AIR OUTLET RIGHT BANK	1
23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.	8
11509607	NUT, M12 X 1.75	8
5269970045	SEAL RING	2
700429140000		
	SEAL RING, 140 X 8	1
0009976032	PLUG	2

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>4.1000A - OIL PUMP</b>		
PUMP ASSY., OIL		
0021802001	PUMP ASSY., OIL	1
000931010247		
	BOLT, M10 X 120 8.8	3
000933010093		
	BOLT, M10 X 35 8.8	1
000125010524		
	WASHER, A10.5	4
<b>4.1000B - OIL DISTRIBUTION SYSTEM</b>		
SCREEN, OIL PUMP INLET		
5241800055	BASKET, SUCTION	1
000933008143		
	BOLT, M8 X 60 8.8	4
700292008400		
	WASHER, TAB LOCKING	4
5240140140	RETAINER	2
5240140207	SPACER, SUCTION BASKET	1
700429075002		
	SEAL RING, 75 X 3.5	2
<b>4.1000B - OIL DISTRIBUTION SYSTEM</b>		
TUBE, JUNCTION BLOCK INLET		
5241870101	TUBE, 229 X 23.2D	14
5241870201	TUBE, 141.5 X 23.2D	1
5241870401	TUBE, 185.5 X 23.2	1
5241870240	BLOCK, PSTN LUBE NOZZLE SUPT	14
5241870940	BLOCK, PSTN LUBE NOZZLE SUPT.	2
5241801043	NOZZLE, PISTON LUBE OIL	16
000931008228		
	BOLT, M8 X 80 8.8	32
700429024002		
	SEAL RING 24 X 4	32
VALVE, OIL PRESSURE RELIEF		
5241800015	VALVE ASSY., PRESSURE	2
000472048000		
	RING, SNAP 48 X 1.75	2
5241870276	WASHER	2
700429040000		
	SEAL RING 40 X 3	2
700429041000		
	SEAL RING, 41 X 4	2
700429048000		
	SEAL RING 48 X 4	2
<b>4.1000C - OIL PRESSURE REGULATOR</b>		
TUBE, OIL DRAIN		
5271800019	PIPE ASM	1
23550088	BOLT, BANJO A10	2
007603014102		
	WASHER, A14 X 18 COPPER	4
CLIP, OIL DRAIN TUBE		
5241880440	BRACKET	1
700325012100		
	CLAMP, HALF TUBE	2
304017008083		
	BOLT, M8 X 30	1
700327008000		
	GROMMET, M8	1
VALVE, OIL PRESSURE REGULATOR		
0001800015	VALVE, PRESSURE REDUCING	1
<b>4.2000A - OIL FILTER</b>		

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>4.2000A - OIL FILTER</b>		
FILTER ASSY., OIL		
5241800340	ADAPTOR ASSY., OIL FILTER VERTICAL	1
FILTER ASSY., OIL		
5241840102	ADAPTOR, OIL FILTER	1
5319970132	PLUG ASM	3
5319971432	PLUG ASSY., M14 X 1.5	5
5366190315	PLUG ASM	3
5366190715	PLUG ASM	1
5366191015	PLUG ASM	2
ADAPTOR, OIL FILTER ASSY.		
5241840068	CONNECTOR, OIL FILTER ADAPTOR	4
VALVE, OIL FILTER BYPASS		
5241840028	VALVE, BYPASS	1
SPRING, OIL FILTER BYPASS VALVE		
5241840031	SPRING, BYPASS VALVE	1
PLUG, OIL FILTER BYPASS VALVE		
5241840156	PLUG	1
000933010058		
	BOLT, M10 X 35 10.9	7
00103341	WASHER	7
5249970645	SEAL	7
700429024000		
	SEAL RING 24 X 5	2
ELEMENT, OIL FILTER		
23550401	FILTER, LUBE OIL	4
COVER, OIL FILTER		
5241840008	COVER, SPINNER FILTER	1
000933012051		
	BOLT, M12 X 50 8.8	4
200433013000		
	WASHER	4
5249970545	SEAL	1
BRACKET, OIL FILTER MOUNTING		
5241840240	BRACKET, FILTER ADAPTOR SUPPORT	1
000933010058		
	BOLT, M10 X 35 10.9	5
000933012051		
	BOLT, M12 X 50 8.8	2
<b>4.4000A - OIL COOLER</b>		
CORE, OIL COOLER ENGINE		
5241880126	ELEMENT, COOLER	6
GASKET, OIL COOLER CORE INNER		
5139805	SEAL RING	24
GASKET, OIL COOLER CORE OUTER		
5141039	GASKET	12
HOUSING, OIL COOLER ENGINE		
5241880204	HOUSING OIL COOLER 30 PLATE	2
11509799	BOLT, M10 X 1.5 X 70 MM	10
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	2
218443	NUT, 3/4"-10	12
5319971432	PLUG ASSY., M14 X 1.5	2
GASKET, OIL COOLER HOUSING		
5241870080	GASKET	2
CONNECTION, OIL COOLER WATER CROSSOVER		
5241870253	COOLER TUBE CROSSOVER	1
5241880140	RETAINER CROSSOVER TUBE	1
5249970145	SEAL RING, 101.90 OD X 94.84 ID	2
700429100001		
	SEAL RING, 100 X 4	2
11509799	BOLT, M10 X 1.5 X 70 MM	4

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PART #	NAME AND DESCRIPTION	QUANTITY
4.4000A - OIL COOLER 5241880351	LOCKING NUT	1
4.6000A - DIPSTICK		
DIPSTICK 5240101572	DIPSTICK ASSY., GEN SET	1
GUIDE, DIPSTICK 5240100266	TUBE ASSY., DIPSTICK	1
8800180770	CONNECTOR, THREADED	1
700429012002	SEAL RING 12 X 5	1
007603022102	WASHER, A22 X 27 COPPER	1
DIPSTICK ADAPTOR & OIL FILLER PLATE 0000181802	CAP, OIL FILLER	1
5240100164	FILLER NECK, OIL	1
000933010035	BOLT, M10 X 25	14
GASKET, DIPSTICK ADAPTOR & OIL FILLER PLATE 5240111380	GASKET, ACCESS COVER	2
4.7000A - OIL PAN		
PAN, OIL 5270101013	PAN ASSY., OIL	1
5103185	PLUG, 1" SQ. HD. (12.9550)	2
700209010208	BOLT, M10 1.50 X 90.0	34
735151010100	WASHER, A10.5	10
5135765	SPACER, 3/4"O.D.X24/32"L. (5.2190)	8
5156404	SPACER, (13/32"X3/4"X1 7/16") (4.8040)	26
000931010105	BOLT, M10 X 60	10
GASKET, OIL PAN TO BLOCK 5279870735	SEAL, RUBBER STRIP	1
PLUG, OIL PAN DRAIN 5240140045	FLANGE	2
5240140145	FLANGE	2
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	2
000912010038	BOLT, M10 X 30	8
GASKET, OIL PAN DRAIN PLUG 5240111480	GASKET	4
4.8000A - VENTILATING SYSTEM		
PIPE ASSY, BREATHER 5240100970	TUBE BREATHER (LB)	1
5260100070	TUBE BREATHER (RB)	1
000933010035	BOLT, M10 X 25	4
EXTENSION, BREATHER TUBE 5241880020	HOSE	2
GASKET, BREATHER TUBE 5501871280	GASKET	2
CLAMP, BREATHER TUBE 23505048	CLAMP, 2"-2 1/2" DIA. HOSE	4
BREATHER ASSY. 23523782	SEPARATOR OIL/AIR CLY BLK VENT BTHR.(A)	1
23523783	SEPARATOR OIL/AIR CYL BLK VENT BTHR.(B)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>4.8000A - VENTILATING SYSTEM</b>		
5249950001	CLAMP BREATHER	1
<b>BRACKET, BREATHER/COLLECTOR MOUNTING</b>		
5260180040	BRACKET BREATHER SUPPORT	1
23505050	BOLT, M10 X 1.5 X 85 (12.9001)	1
5240940153	SPACER	4
11506101	NUT, M10 X 1.5	1
<b>HOSE, OIL DRAIN</b>		
CAHP0423	HOSE ASSY., #6 X 44.7" LG	1
CAHP0510	HOSE ASSY., #6 X 51.0 X 53.4 H&P FC234	1
8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)	2
8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	2
5135308	VALVE (SWING TYPE)	2
23509447	ELBOW, 90 DEG. 3/8" NPTF ZINC	2
11503454	BOLT, M10 X 1.5 X 20.0	2
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2
<b>COVER, BREATHER HOLE IN BLOCK</b>		
5240111332	COVER	2
000933010035	BOLT, M10 X 25	14
<b>GASKET, BREATHER HOLE COVER</b>		
5240111380	GASKET, ACCESS COVER	2

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000 - FRESH WATER PUMP		
PUMP ASSY., FRESH WATER		
5272001501 NS	PUMP ASSY., WATER HI TEMP	1
BODY, FRESH WATER PUMP		
5242010201	BODY, WATER PUMP SPIRAL HI TEMP	1
5272010010	BODY, WATER PUMP (BEARING)	1
000908018002		
	PLUG, THREADED M18 X 1.5	1
000931008241		
	BOLT, M8 X 75	4
000933010093		
	BOLT, M10 X 35 8.8	4
000125008427		
	WASHER, A8.4	4
000125010524		
	WASHER, A10.5	4
007603018101		
	WASHER, A18 X 22 COPPER	1
INSERT, FRESH WATER PUMP BODY		
5272010258	SEAL CARRIER	1
SHAFT ASSY., FRESH WATER PUMP		
5272010605	SHAFT, WATER PUMP	1
SPACER, FRESH WATER PUMP BEARING		
5272010153	SPACER SLEEVE	1
SEAL, FRESH WATER PUMP SHAFT BEARING		
700386048001		
	SEAL, OIL 48 X 72 X 8	1
700429056001		
	SEAL RING 56 X 3	1
BEARING, FRESH WATER PUMP		
200628103006		
	BEARING, BALL	1
705100502035		
	BEARING, ROLLER	1
RETAINER, FRESH WATER PUMP BEARING AND SEAL		
000472080000		
	SNAP RING, 80 X 2.5	1
IMPELLER, FRESH WATER PUMP		
5272010407	IMPELLER, WATER PUMP HI TEMP	1
5842040251	METAL RING WATER PUMP	1
SEAL, FRESH WATER PUMP		
0002010718	SEAL, AXIAL FACE W/OUT COUNTER RING	1
0002018319	SEAL, AXIAL FACE W/OUT COUNTER RING	1
700429135000		
	SEAL RING, 135 X 5	1
700429172000		
	SEAL RING, 172 X 5	1
GEAR, FRESH WATER PUMP DRIVE		
5272010006	GEAR, WATER PUMP	1
23523202	PUMP KIT, WATER HI TEMP CLG CIRCUIT	1
GASKET, FRESH WATER PUMP		
A PUMP KIT INCLUDES PUMP ASSY. AND ITEMS IN 5.1010.		
700429130003		
	SEAL RING, 130 X 5	1
700429120002		
	SEAL RING, 120 X 6	1
000931012143		
	BOLT, M12 X 70	1
000931012176		
	BOLT, M12 X 150	1
000933012051		
	BOLT, M12 X 50 8.8	1
000934012008		
	NUT, HEX M12	1
5.1000 - FRESH WATER PUMP		
PUMP ASSY., FRESH WATER		
5272001401 NS	PUMP ASSY., WATER LOW TEMP	1
BODY, FRESH WATER PUMP		
5272010010	BODY, WATER PUMP (BEARING)	1
5272010101	BODY, WATER PUMP SPIRAL LOW TEMP	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000	- FRESH WATER PUMP	
000908018002		
	PLUG, THREADED M18 X 1.5	1
000931008241		
	BOLT, M8 X 75	4
000933010093		
	BOLT, M10 X 35 8.8	4
000125008427		
	WASHER, A8.4	4
000125010524		
	WASHER, A10.5	4
007603018101		
	WASHER, A18 X 22 COPPER	1
INSERT, FRESH WATER PUMP BODY		
5272010258	SEAL CARRIER	1
SHAFT ASSY., FRESH WATER PUMP		
5272010605	SHAFT, WATER PUMP	1
SPACER, FRESH WATER PUMP BEARING		
5272010153	SPACER SLEEVE	1
SEAL, FRESH WATER PUMP SHAFT BEARING		
700386048001		
	SEAL, OIL 48 X 72 X 8	1
700429056001		
	SEAL RING 56 X 3	1
BEARING, FRESH WATER PUMP		
200628103006		
	BEARING, BALL	1
705100502035		
	BEARING, ROLLER	1
RETAINER, FRESH WATER PUMP BEARING AND SEAL		
000472080000		
	SNAP RING, 80 X 2.5	1
IMPELLER, FRESH WATER PUMP		
5272010307	IMPELLER, WATER PUMP LOW TEMP	1
5842040251	METAL RING WATER PUMP	1
SEAL, FRESH WATER PUMP		
0002010718	SEAL, AXIAL FACE W/OUT COUNTER RING	1
0002018319	SEAL, AXIAL FACE W/OUT COUNTER RING	1
700429135000		
	SEAL RING, 135 X 5	1
700429172000		
	SEAL RING, 172 X 5	1
GEAR, FRESH WATER PUMP DRIVE		
5272010006	GEAR, WATER PUMP	1
23523201	PUMP KIT, WATER LOW TEMP CLG CIRCUIT	1
GASKET, FRESH WATER PUMP		
A PUMP KIT INCLUDES PUMP ASSY. AND ITEMS IN 5.1010.		
700429130003		
	SEAL RING, 130 X 5	1
5242030380	GASKET, WATER PUMP INLET	1
5272030080	GASKET	1
000908018002		
	PLUG, THREADED M18 X 1.5	1
000931012143		
	BOLT, M12 X 70	1
000933012051		
	BOLT, M12 X 50 8.8	2
007603018101		
	WASHER, A18 X 22 COPPER	1
000934012008		
	NUT, HEX M12	1
5.2000A	- WATER OUTLET MANIFOLD	
MANIFOLD, WATER OUTLET		
5242030408	MANIFOLD, WATER L BANK CONNECTOR	1
5242030508	MANIFOLD, WATER R BANK CONNECTOR	1
5242031001	MANIFOLD, WATER CENTER	4
5242031101	MANIFOLD, WATER R BANK REAR	1
5242031201	MANIFOLD, WATER L BANK FRONT	1
5242031301	MANIFOLD, WATER L BANK REAR	1
5319971432	PLUG ASSY., M14 X 1.5	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.2000A - WATER OUTLET MANIFOLD		
000931010122		
000931010147	BOLT, M10 X 75	10
	BOLT, M10 X 100	22
GASKET, WATER OUTLET MANIFOLD		
5242030480	GASKET	1
5242030580	GASKET, RADIATOR SUPPLY	1
700429024000	SEAL RING 24 X 5	16
TUBE ASSY., WATER MANIFOLD VENT		
5242000051	TUBE ASSY., WATER MANIFOLD VENT	1
5249971772	TEE, FITTING M14 X 1.5 X 9/16-18	1
5319975572	FITTING	1
SEAL, WATER OUTLET MANIFOLD		
700429063000		
	SEAL RING 63 X 5	6
700429083000		
	SEAL RING, 83 X 5	2
700429085002		
	SEAL RING, 85 X 6	2
TUBE, WATER OUTLET MANIFOLD		
5242008351	TUBE ASSY., WATER	1
5242008451	TUBE ASSY., WATER	1
5242008551	TUBE ASSY., WATER	1
5242008651	TUBE ASSY., WATER	1
5249971772	TEE, FITTING M14 X 1.5 X 9/16-18	2
5249971472	FITTING, TEE M14 X 1.5 X 9/16-18	2
5249971972	FITTING, M14 X 1.5 9/16-18 90 DEG	2
5130913	BRACKET (7.4597)	1
5134455	CLIP (INLET PIPE SUPPORT)	1
5163538	CLIP, 3/16" TUBE (7.8320)	2
11503454	BOLT, M10 X 1.5 X 20.0	3
23517272	SCREW ASSY., M6 X 1 X 12	1
120393	WASHER, 5/16"	1
11506101	NUT, M10 X 1.5	2
5.2000B - THERMOSTAT		
THERMOSTAT ASSY.		
0052033575	THERMOSTAT ASSY., 170 FULL 189 DEG	4
SEAL, THERMOSTAT		
5132155	SEAL	4
HOUSING, THERMOSTAT		
5242001516	HOUSING, THERMOSTAT HI TEMP	1
000931010308		
	BOLT, M10 X 50	1
000931010332		
	BOLT, M10 X 150	4
GASKET, THERMOSTAT HOUSING		
700429070000		
	SEAL RING, 70 X 5	1
700429100001		
	SEAL RING, 100 X 4	2
HOUSING, WATER DISTRIBUTION		
5242002116	HOUSING, WATER DISTRIBUTION	1
5242031122	ELBOW	1
000908030002		
	PLUG, SCREW M30	1
000908038000		
	PLUG, SCREW M38	1
5242030686	COVER	1
5242030886	COVER	1
000931010105		
	BOLT, M10 X 60	3

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>5.2000B - THERMOSTAT</b>		
000931016080		
000933010035	BOLT, M16 X 150	1
5242030939	BOLT, M10 X 25	9
007603014102	COVER PLATE	1
007603030101	WASHER, A14 X 18 COPPER	3
007603038101	WASHER, A30 X 36 COPPER	1
700429042000	WASHER, A38 X 44 COPPER	1
700429055001	SEAL RING 42 X 5	1
700429070000	SEAL RING 55 X 5	1
700429080001	SEAL RING, 70 X 5	2
700429083000	SEAL RING 80 X 5	1
5242030080	SEAL RING, 83 X 5	2
5242031152	GASKET	1
23550135	RESTRICTOR	1
5319971432	PLUG, THREADED M14 X 1.5	3
000931012143	PLUG ASSY., M14 X 1.5	2
000931016125	BOLT, M12 X 70	5
000933012051	BOLT, M16 X 180	12
	BOLT, M12 X 50 8.8	2
<b>5.3000B - WATER CONNECTIONS</b>		
<b>ELBOW, WATER PUMP OUTLET</b>		
5242000318	ELBOW ASM	1
5242032253	TUBE, 98 X 240	1
5242030139	FLANGE	1
5242030340	SUPPORT, MOUNTING HOLDER	1
000933010094		
000933012051	BOLT, M10 X 40	5
000125010524	BOLT, M12 X 50 8.8	2
	WASHER, A10.5	3
<b>GASKET, WATER PUMP INLET AND OUTLET ELBOW</b>		
700429085002		
700429105000	SEAL RING, 85 X 6	2
700429120002	SEAL RING, 105 X 5	1
	SEAL RING, 120 X 6	1
<b>CONNECTION, WATER PUMP TO THERMOSTAT HOUSING</b>		
5242032053	CONNECTOR, WATER TUBE 98 X 70	1
5242030139	FLANGE	1
700429085002		
700429105000	SEAL RING, 85 X 6	2
	SEAL RING, 105 X 5	1
000933010094	BOLT, M10 X 40	2
<b>CONNECTION, OIL COOLER WATER INLET</b>		
5242032053	CONNECTOR, WATER TUBE 98 X 70	1
5242030039	FLANGE	1
000908030002		
007603030101	PLUG, SCREW M30	1
	WASHER, A30 X 36 COPPER	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.3000B - WATER CONNECTIONS		
GASKET, OIL COOLER WATER INLET CONNECTION 700429085002	SEAL RING, 85 X 6	2

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PART #	NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD		
MANIFOLD, EXHAUST		
5241423104	MANIFOLD, EXHAUST 1481.1CM	4
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	56
23511667	SPACER	64
GASKET, EXHAUST MANIFOLD		
5241420580	GASKET, EXHAUST MANIFOLD	16
TUBE, EXHAUST CROSSOVER		
5137620	CLAMP, 3.82" DIA. (6.2085)	16
5241423404	TUBE, UPPER EXHAUST CROSSOVER 76.2 DIAMETER	4
5241423504	TUBE, LOWER EXHAUST CROSSOVER 76.2 DIAMETER	4
ADAPTOR, EXHAUST PIPE		
5241423204	ADAPTOR, EXHAUST TUBE RB REAR	4
5241423304	ADAPTOR, EXHAUST TUBE LB REAR	4
23509744	STUD, BOLT M10X1.5X120.0	8

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PART #	NAME AND DESCRIPTION	QUANTITY
<b>7.1000A - BATTERY CHARGING GEN</b>		
<b>GENERATOR ASSY.</b>		
19010182	GEN CHRГ AC 24V70A NG CW/CCW 21SI	1
9427945	BOLT, 1/2"-13 X 6.25" (12.9001)	1
5132715	WASHER, .53"X.94"X.12" (1.3140)	2
102637	NUT, 1/2"-13	1
<b>PULLEY, GENERATOR</b>		
5241550015	PULLEY, ALTERNATOR 12-16V	1
<b>DRIVE ASSY., GENERATOR</b>		
5240050015	DRIVE ASSY., ACCESSORY	1
11509528	BOLT, M12 X 1.75 X 30 MM	6
<b>GASKET, GENERATOR DRIVE</b>		
700429135000	SEAL RING, 135 X 5	1
<b>BELT, GENERATOR DRIVE</b>		
5249970192	BELT, ALTERNATOR (1029.5) 12-16V	1
<b>STRAP, GENERATOR ADJUSTING</b>		
23511669	LINK, ADJUSTING ROD	1
23511670	ROD, ADJUSTING	1
5241540076	BRACKET, ALTERNATOR TENSION ADJ. ROD	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	1
23505062	BOLT, M10 X 1.5 X 40 (12.9001)	2
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	1
103345	WASHER, 5/8"	2
11501055	NUT, M16X2.0	2
11506101	NUT, M10 X 1.5	3
<b>GUARD, GENERATOR DRIVE BELT AND PULLEY</b>		
5241500399	GUARD, ALTERNATOR BELT	1
<b>BRACKET, GENERATOR MOUNTING</b>		
5241550027	BRACKET, ALTERNATOR MOUNTING	1
11503316	BOLT, M12 1.75 X 35.0	4
<b>7.3000A - STARTING MOTOR</b>		
<b>MOTOR ASSY., STARTING</b>		
0041519901	STARTER, RIGHT BANK 24V 8-12-16V	1
0051510001	STARTER, LEFT BANK 24V 8-12-16V	1
11505769	BOLT, M16X2.0X45.0 MM 12 PT.	6
<b>SWITCH, STARTING MOTOR SOLENOID</b>		
01115615	SWITCH, MAG 24V	2

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PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A - ENGINE MOUNTS		
BRACKET, ENGINE SUPPORT		
5242300142	CARRIER ASM	2
000933010180	BOLT, M10 X 28	4
200933020002	BOLT	4
200933020004	BOLT, M20 X 200	4
000125010524	WASHER, A10.5	4
000125021009	WASHER, A21	8
SUPPORT, ENGINE FRONT TRUNNION MOUNTING		
000007016104	PIN, DOWEL SOLID 6M X 32	4
700429192000	SEAL RING, 190 X 5	2

**DETROIT DIESEL**

**CORPORATION**



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