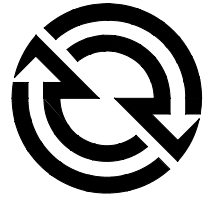


Engine Parts

DETROIT DIESEL



Diesel Engine

Generator Models:
2000/2250 kW

Engine Series:
16V4000 Tier 2

Engine Model:
T163-8A35
T163-8A36

SERIES 4000

Parts Catalog

5272002445
MARCH 2007

Detroit Diesel® SERIES 4000™ Diesel Engines

Illustrated Service Parts Catalogs are now available on CD-ROM

Speed up your parts counter and eliminate confusion. Look up parts by unit serial number on CD-ROM.

You can now receive regular Parts Catalog updates by subscribing to the **POWER Service Parts** (PSP) CD-ROM. 2 cycle, 4 cycle or both can be sent to your location 4 times a year.

Detroit Diesel also offers Service Parts Catalogs on CD-ROM on a single order basis.

Custom Parts Catalog (CPC) - The CPC contains information specific to your unit serial number

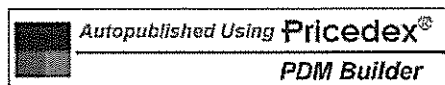
Illustrated Service Parts Catalog by Engine Series. Contains all engine types and illustrations.

Contact your local Detroit Diesel Distributor to order your CD-ROM.

NOTE:

Additional copies of this parts catalog may be purchased from Detroit Diesel Distributors. See your yellow pages -- under *Engines, Diesel*.

DETROIT DIESEL



www.pricedex.com

13400 Outer Drive, West / Detroit, Michigan 48239-4001
Telephone: 313-592-5000
Fax: 313-592-3878
Email: parts.catalog@detroitdiesel.com
www.detroitdiesel.com

Printed in U.S.A.

Detroit Diesel®, SERIES 4000®, DDC and the spinning arrows design are registered trademarks of Detroit Diesel Corporation. Pricedex® and PDM Builder™ are trademarks of Pricedex Software Inc.

The content of this publication is subject to proprietary rights and duplication, electronically or manually, in whole or in part, is expressly prohibited.

This Catalog was autopublished using PDM Builder™ by Pricedex®. All information subject to change without notice. All rights reserved.

5272002445 0703 © 2007 DETROIT DIESEL CORPORATION. All rights reserved.

METRICS AT WORK

Detroit Diesel Engines contain parts dimensioned in the metric system as well as in the customary system. Many fasteners are metric and are very close in dimension to familiar customary fasteners in the inch system. It is important to note that, during any maintenance procedures, replacement fasteners must have the same measurements and strengths as those removed, whether metric or customary.

Numbers on the heads of metric bolts and on the surfaces of metric nuts indicate their strength. Customary bolts use radial lines for this purpose, while most customary nuts do not have strength markings.



CAUTION:

Using mismatched or incorrect fasteners can lead to engine damage. In some cases, engine damage can have consequences that may result in personal injury and or vehicle/ equipment damage.

Fasteners removed from the engine should be saved for re-use in the same locations whenever possible. Where the fasteners are not satisfactory for re-use, care should be taken to select a replacement that matches the original.

For information and assistance, see your Detroit Diesel Service Outlet.

NOTE:

Metric Hardware is identified in the Parts Catalogs through its unique nomenclature. Conventional hardware can always be recognized by the inch marks ("), common to diameter and length.

GENERAL INFORMATION

Your engine serial number should be kept readily available. It can be used to identify the correct service parts, warranty information, and available extended coverage.

All engine components in this catalog are divided in to major categories, groups, and sub-groups.

Within each sub-group different designs of similar parts are shown, each being designated by a type number. The type number in one sub-group has no relationship to the same type number in another sub-group.

To locate a part, first establish the category and group where the part is used (see the Alphabetical Index or Group Nomenclature page), then, determine the type number (on earlier units the type number can be found on the engine option label). With this information, turn to the proper category and group and locate the type number at the top of the page. All parts applicable to the type are indicated by a quantity in the column under the type

AR = as required.

NS = not serviced. The serviced part will be in a note or use the like part with a quantity in the type column.

OBS = obsolete, no replacement.

ALPHABETICAL INDEX

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

The information and illustrations in this publication are based on the information in effect at the time of approval for printing. The right is reserved to make changes at any time without notice.

REMANUFACTURED PARTS

A leading E or R identifies part numbers that require the return of your old core component.

A leading E in the part number designates a new exchange part.

A leading R in the part number designates a remanufactured part.

An R preceding the part description means the part is available as an E or R part number.

ELECTRONIC PARTS CATALOGS

Speed up your parts counter and eliminate confusion. Look up parts by using your unit serial number on CD-ROM. You can receive regular Parts Catalog updates by subscribing to the POWER Service Parts CD-ROM. 2 cycle, 4 cycle or both can be sent to your location 4 time a year. In addition to the PSP CD, DDC offers 2 non-subscription Service Parts Catalogs on CD-ROM: an illustrated Custom Parts Catalog - The CPC contains information specific to your unit serial number; And a complete illustrated Service Parts Catalog by Series. Contact your local Detroit Diesel Distributor to order your CD-ROM.

YOUR PARTS ORDER WILL BE HANDLED MORE EFFICIENTLY IF YOU -

1. Provide the following information for material ordered:
 - A. Category, group and sub-group in parts catalog in which the part is specified
 - B. Quantity desired
 - C. Part Number
 - D. Complete Name
 - E. The Type number for the serial number concerned
 - F. Unit Serial Number
 - G. "TYPE" rather than "WRITE" the above information
2. Furnish complete shipping instruction. This is particularly important in case the order is not to be handled in the regular manner. Indicate whether shipment should be made via parcel post, express, air freight, etc
3. Confirm all telegraph and telephone orders immediately, clearly making any such orders "CONFIRMING" to avoid duplication of shipment of such orders.

01 Engine (Less Major Assemblies)

- 01.1 Cylinder Block
- 01.2 Cylinder Head
- 01.2A Engine Lifter Bracket
- 01.3 Crankshaft, Oil Seals and Stabilizers
- 01.3A Crankshaft Front Cover
- 01.3B Vibration Damper
- 01.3C Crankshaft Pulley
- 01.4A Flywheel
- 01.5A Flywheel, Housing
- 01.6 Connecting Rod and Piston
- 01.7 Camshaft and Gear Train
- 01.7B Accessory Drive
- 01.8 Valve and Injector Operating Mechanism
- 01.8A Rocker Cover

02 Fuel System

- 02.1A Fuel Injector/CNG Controls
- 02.1B Injector, Controls Electronic
- 02.2 Fuel Pump
- 02.3A Fuel Filter and Strainer
- 02.5A Fuel Lines and Fuel Cooler

03 Air System

- 03.1A Air Cleaner and/or Adaptor
- 03.3C Air Intake Manifold
- 03.5A Turbocharger, Intercooler and Aftercooler
- 03.7 Intercooler/Aftercooler

04 Lubricating System

- 04.1A Oil Pump
- 04.1B Oil Distribution System
- 04.1D Oil Engine Prelube
- 04.2A Oil Filter
- 04.3A Oil Filter Lines
- 04.4A Oil Cooler and Marine Gear Lines
- 04.6A Dipstick
- 04.7A Oil Pan
- 04.8A Ventilating System

05 Cooling System

- 05.1 Fresh Water Pump
- 05.2A Water Outlet Manifold and/or Elbow
- 05.2B Thermostat
- 05.3B Water Connections

06 Exhaust System

- 06.1A Exhaust Manifold and/or Connections

07 Electrical Instruments

- 07.1A Battery Charging Generator
- 07.3A Starting Motor

11 Engine Mounting

- 11.1A Engine Mounting and Base

12 Miscellaneous

- 12.6C Cold Weather Starting Aid
- 12.8A Supplies/Maintenance Products
- 12.8D Miscellaneous Service Parts

PART NAME	GROUP NO.	PART NAME	GROUP NO.
A			
Arm Assy., Exhaust Valve Rocker	01.8060	Bracket, Intercooler Mounting	03.7003
Arm Assy., Intake Valve Rocker	01.8075	Bracket, Tube Support	03.7250
Arm Assy., Swing Exhaust Valve Rocker	01.8253	Bracket, Oil Filter Mounting	04.2A440
Arm Assy., Swing Intake Valve Rocker	01.8255	Body, Breather Or Separator	04.8A050
Adaptor, Fuel Pump Drive	02.2260	Breather Assy.	04.8A045
Air Cleaner Assy.	03.1A001	Base, Breather	04.8A048
Air Intake Manifold	03.3C801	Bracket, Breather/Collector Mounting	04.8A056
Adaptor, Turbocharger Exhaust Outlet	03.5A324	Bracket, Breather Extension Pipe	04.8A183
Adaptor, Housing Water Pump	03.7010	Bearing, Generator Drive	07.1A535
Adaptor, Oil Filter Assy.	04.2A352	Bracket, Generator Drive Belt And Pulley Guard	07.1A587
Adaptor, Exhaust Manifold	06.1A003	Belt, Generator Drive	07.1A575
Adaptor, Exhaust Pipe	06.1A190	Bracket, Generator Mounting	07.1A595
Additives, Diesel Fuel	12.8A280	Base, Engine Mounting	11.1A001
B		Bracket, Engine Support	11.1A075
Block, Cylinder	01.1001	C	
Bolt, Cylinder Head	01.2030	Cover, Cylinder Block Hand Hole	01.1040
Bracket, Engine Lifter-Front	01.2A070	Cover, Cylinder Block Valley	01.1055
Bracket, Engine Lifter-Rear	01.2A080	Crankshaft Assy.	01.3001
Bushing, Crankshaft Rear Support	01.5A023	Cover, Engine Front Accessory Drive	01.3A191
Bushing, Connecting Rod Piston	01.6040	Coupling, Engine Drive Shaft Flexible	01.4A060
Bearing, Piston Pin	01.6142	Cover, Starting Motor Hole	01.5A070
Bearing, Camshaft	01.7040	Cover, Flywheel Housing Inspection Hole	01.5A080
Bearing, Idler Gear	01.7225	Cover, Flywheel Housing	01.5A085
Bearing, Accessory Drive	01.7B655	Cover, Flywheel Housing Water Hole	01.5A119
Bracket, Wiring Harness	02.1B745	Connecting Rod Assy.	01.6001
Bushing, Exhaust Valve Rocker Arm	01.8100	Cylinder Installation Kit	01.6183
Bushing, Intake Valve Rocker	01.8105	Camshaft Assy.	01.7001
Bracket, Rocker Shaft	01.8170	Coupling, Accessory Drive	01.7B635
Bridge, Exhaust Valve	01.8343	Cover Assy., Drive	01.7B700
Bolt, Rocker Cover	01.8A460	Cap, Valve Spring	01.8350
Bracket, Electronic Control Module	02.1B507	Cover Assy., Rocker	01.8A450
Bracket, Boat Builder Interface Module	02.1B514	Clamp, Injector	02.1A270
Bracket, Fuel Pump-High Lift	02.2015	Connector, Sensor Harness	02.1B706
Bracket, Fuel Filter Mounting	02.3A530	Cable	02.1B910
Block, Fuel System Junction	02.5A250	Clip, Turbocharger Oil Return Tube	03.5A507
Bracket, Fuel System Junction Block	02.5A252	Connector Metri/Weather-Pack Ped	02.1B800
Bolt, Air Cleaner Assy.	03.1A070	Coupling, Fuel Pump Drive	02.2230
Bracket, Air Cleaner Mounting	03.1A230	Cover, Fuel Filter	02.3A390
Bracket, Turbocharger Exhaust Outlet	03.5A330	Connector, Fuel High Pressure Lines	02.5A076
Adaptor		Clip, Fuel Pump to Filter Hose	02.5A120
Bracket, Turbocharger Air Outlet Tube	03.5A415	Clamp, Air Inlet Pipe Hose	03.1A280
		Connections, Intercooler/Charge Air Cooler Water	03.5A434

PART NAME	GROUP NO.
Clip, Turbocharger Oil Supply Tube	03.5A502
Clip, Turbocharger Water Line	03.5A527
Connections, Water Pump	03.5A529
Connector, Water Tubing	03.7085
Clamp, Tube	03.7130
Connection, Intercooler/Aftercooler/Charge Air Cooler Water	03.7315
Cover, Oil Filter	04.2A290
Core, Oil Cooler Engine	04.4A001
Cover, Oil Cooler Housing	04.4A060
Connection, Oil Cooler Water Crossover	04.4A218
Clip, Dipstick	04.6A040
Clip, Oil Pan Drain Tube	04.7A101
Cover, Oil Pan	04.7A120
Clamp, Breather Tube	04.8A039
Clip, Breather Tube	04.8A040
Connector, Breather Tube	04.8A021
Clamp, Breather Extension Pipe Hose	04.8A180
Cover, Breather Hole In Block	04.8A195
Cover, Thermostat Housing	05.2B120
Clamp, Heat Exchanger to Water Pump Hose	05.3B341
Connection, Water Pump to Thermostat Housing	05.3B345
Connection, Heat Exchanger Inlet	05.2B125
Connection, Oil Cooler Water Inlet	05.3B350
Cylinder, Sequential Actuator	06.1A008
Cover, Exhaust Manifold	06.1A015
Carrier Housing, Exhaust Manifold	06.1A016
Cold Weather Starting Aid Kit	12.6C301
Clamp, Exhaust Manifold Water Outlet Tube Hose	06.1A149
Coupling Assy., Generator Drive	07.1A555
Cover, Starting Motor Hole	07.3A738
Cushion, Engine Mounting Base Isolation Pad	11.1A010
Cover, Engine Mounting Base Isolation Pad	11.1A030
Coolant and Additives	12.8A260
Cleaner, Coolant System	12.8A270
D	
Damper, Vibration	01.3B210
Disc, Flywheel Flexible Coupling	01.4A075
Drive Assy., Accessory	01.7B600
Dipstick	04.6A001
Drive Assy., Generator	07.1A507

PART NAME	GROUP NO.
E	
Element, Fuel Filter	02.3A320
Elbow, Turbocharger Air Inlet	03.1A259
Elbow, Water Inlet & Outlet Intercooler/Air Cooler	03.7305
Element, Oil Filter	04.2A250
Elbow, Water Outlet Manifold	05.2A035
Extension, Breather Tube	04.8A010
Elbow, Breather	04.8A013
Elbow, Thermostat Housing Outlet	05.2B092
Elbow, Water Pump Outlet	05.3B336
Elbow, Thermostat Housing Cover Outlet	05.2B122
Elbow, Water Pump Inlet	05.3B335
Expander, Exhaust Manifold	06.1A006
Element Assy., Heater	12.6C420
F	
Flywheel Assy.	01.4A001
Flange, Camshaft Drive	01.7007
Follower Assy., Cam	01.8260
Filter Assy., Fuel	02.3A310
Filter Assy., Spin On Fuel	02.3A316
Fitting, Auxiliary Pump And Tank	02.5A004
Filter Assy., Oil	04.2A240
Flange, Exhaust Manifold Water Outlet	06.1A140
Fuel System Products	12.8A006
G	
Gasket Kit, Engine Overhaul	01.1002
Gasket, Cylinder Block Hand Hole Cover	01.1050
Gasket, Cylinder Block Valley Cover	01.1057
Gasket Kit, Cylinder Head Overhaul	01.2002
Gasket, Cylinder Head Compression	01.2010
Gear, Crankshaft Timing	01.3145
Gasket, Crankshaft Front Cover	01.3A170
Gasket, Engine Front Accessory Drive	01.3A192
Gear, Flywheel Ring	01.4A010
Gasket, Flywheel Housing	01.5A010
Gasket, Starting Motor Hole Cover	01.5A075
Gasket, Flywheel Housing Cover	01.5A095
Guide, Flywheel Housing Timing Pin	01.5A106
Gasket, Flywheel Housing Water Hole Cover	01.5A120
Gear Assy., Idler	01.7220

H

PART NAME	GROUP NO.	PART NAME	GROUP NO.
Hub, Flange Mounted Alternator Drive	07.1A511	Miscellaneous Service Parts/Kits Exhaust System	12.8D806
Hand Cleaners	12.8A070	Miscellaneous Service Parts/Kits Transmission And Propulsion	12.8D809
I		Miscellaneous Service Parts/Kits Engine Hood	12.8D810
Insert, Cylinder Liner	01.6187	Miscellaneous Service Parts/Kits Section 3 Air System	12.8D803
Injector assy.	02.1A001	Miscellaneous Service Parts/Kits Section 4 Lubrication System	12.8D804
Instruments. P.S.G.	02.1B880	Miscellaneous Service Parts/Kits Electrical Instruments	12.8D807
Insulation Blanket Turbocharger	03.5A535	Miscellaneous Service Parts/Kits Power Take-Off	12.8D808
Indicator/Sensor, Air Cleaner Restriction	03.1A002	Miscellaneous Service Parts/Kits Section 11 Engine Mounting	12.8D811
Indicator, Air Cleaner Restriction	03.1A007	Miscellaneous Service Parts/Kits Section 12 Miscellaneous	12.8D812
Intercooler Assy./ Charge Air Cooler	03.7001		
Insulation Cover, Exhaust Manifold	06.1A172		
K		N	
Kit, Cylinder Liner And Seals	01.6181	Nozzle Assy., Oil Spray	04.1B569
Kit, Coolant Level Sensor	02.1B670	O	
Kit, Total Operating Protection System	02.1B672		
Kit, Oil Engine Prelube	04.1D800		
Kit Crankcase Breather Retrofit	04.8A049	Oil, Engine Lubricating	12.8A025
Kit, Filter Maintenance-Fuel/Oil	12.8A005	P	
Kit, Coolant Analysis	12.8A290		
Kit, Oil Analysis	12.8A291	Pulley, Crankshaft	01.3C280
Kit, Fuel Analysis	12.8A293	Plate, Flywheel Flexible Coupling	01.4A085
L		Piston Kit	01.6110
Lines, Torsional Isolator Oil	01.4A100	Pin, Piston	01.6140
Liner, Cylinder	01.6180	Plate Assy., Electronic Distributor Unit Cold	02.1B520
Lockring, Accessory Drive	01.7B650	Pump Assy., Fuel	02.2001
Lock, Intake/Exhaust Valve Spring	01.8370	Pump Assy., Fuel High Pressure	02.2006
Lockring, Generator Drive Bearing	07.1A545	Primer Pump, Fuel	02.5A490
Lubricating Compound Thread	12.8A110	Pipe, Air Cleaner to Inlet Housing	03.1A260
Lamp, Instrument Panel	12.8A360	Plate, Oil Pump Mounting	04.1A006
M		Pump Assy., Oil	04.1A001
Module Assy., Electronic Control (Ecm)	02.1B501	Pipe, Oil Pump Inlet	04.1B510
Module, Interface	02.1B512	Plate, Oil Cooler Core	04.4A010
Manifold, Water Outlet	05.2A001	Pan, Oil	04.7A001
Manifold, Exhaust	06.1A001	Pan, Oil Upper	04.7A010
Motor Assy., Starting	07.3A001	Pan, Oil Lower	04.7A020
Miscellaneous Service Parts/Kits Section 1 Engine	12.8D801	Plate, Dipstick Adaptor	04.6A060
Miscellaneous Service Parts/Kits Section 2 Fuel System/Electronic Controls	12.8D802	Plug, Oil Pan Drain	04.7A080
Miscellaneous Service Parts/Kits Section 5 Cooling System	12.8D805	Pipe Assy, Breather	04.8A001
		Pump Assy., Fresh Water	05.1001
		Pipe, Breather Extension	04.8A170
		Pulley, Generator	07.1A500
		Paint, Engine Touch-Up	12.8A001

PART NAME	GROUP NO.
Plate, Starting Motor Field Coil Terminal Stud	07.3A045
Panel, Instrument	12.8A300

R

Ring, Injector Hole Tube Seal	01.2046
Retainer, Crankshaft Pulley	01.3C290
Ring, Crosshead Piston Seal	01.6106
Ring Set, Piston	01.6115
Ring, Piston Compression	01.6120
Ring, Piston Oil Control	01.6130
Retainer, Piston Pin	01.6150
Rod, Push	01.8180
Rotator, Valve	01.8365
Ring, Injector Seal	02.1A040
Retainer, Turbocharger Exhaust Inlet Flange	03.5A318
Ring, Engine Front Trunnion Mounting Support Cushion	11.1A094

S

Seal, Crankshaft Oil-Front	01.3040
Seal, Crankshaft Oil-Rear	01.3060
Shell, Crankshaft Main Bearing	01.3090
Seal, Crankshaft Oil Front	01.3A166
Spacer, Vibration Damper	01.3B275
Seal, Flywheel Oil	01.4A008
Seal, Crankshaft Oil	01.5A004
Shell, Connecting Rod Bearing	01.6100
Seal, Cylinder Liner	01.6190
Shaft, Accessory Drive	01.7B640
Screw, Rocker Arm Adjusting	01.8135
Shaft Assy., Rocker	01.8160
Spring, Intake/Exhaust Valve	01.8340
Shield, Water Ecm	02.1B523
Sensor, Temperature	02.1B550
Switch, Cruise Controls Orwater Pressure Governing Toggle	02.1B567
Sensor, Oil Or Fuel Pressure	02.1B600
Sensor, Mag. Idler	02.1B610
Sensor, Mag. Crankshaft	02.1B620
Sensor, Oil, Fuel Or Coolant Temperature	02.1B630
Sensor, Turbo Speed	02.1B646
Sensor, Air Temperature	02.1B647
Sensor, Exhaust Temperature	02.1B649
Sensor/Kit, Air Pressure/Turbo Boost	02.1B650

PART NAME	GROUP NO.
Sensor, Coolant Level	02.1B665
Sensor, Fuel Monitor	02.1B667
Sensor, Crankcase Pressure	02.1B668
Sensor, Coolant Pressure	02.1B675
Sensor, Egr Temperature	02.1B787
Separator, Fuel Water	02.3A590
Sensor, Air Temperature	03.5A541
Strap, Air Cleaner Mounting	03.1A220
Screen, Oil Pump Inlet	04.1B530
Seal, Water Outlet Manifold	05.2A043
Shell, Breather	04.8A055
Seal, Thermostat	05.2B060
Stud, Exhaust Manifold to Head	06.1A020
Stud, Exhaust Manifold to Turbocharger	06.1A022
Stud, Exhaust Manifold Outlet	06.1A050
Support, Generator Drive Gear	07.1A512
Seal, Generator Drive Oil	07.1A515
Spacer, Generator Drive Pulley Shaft Bearing	07.1A540
Switch, Water Heater Control	12.6C405
Shield, Generator	07.1A005
Shaft, Generator Drive	07.1A530
Shield Unit, Generator Regulator And Terminal	07.1A775
Switch, Starting Motor Solenoid	07.3A255
Strap, Generator Adjusting	07.1A580
Support, Generator Bracket	07.1A596
Support, Engine Front Trunnion Mounting	11.1A090
Spacer, Engine Rear Support	11.1A105
Spacer, Engine Rubber Mounting Insulating	11.1A140
Support, Engine Front	11.1A070
Support/Bracket, Engine Rear	11.1A100
Sealant, Rtv	12.8A255
Socket, Lamp Instrument Panel	12.8A365

T

Tube, Injector Hole	01.2045
Torsional Isolator	01.4A090
Transducer, Egr Pressure Sensor	02.1B785
Tube, Turbocharger Water Return	03.5A525
Tube, Fuel Pump Inlet	02.5A065
Tube Assy., Fuel High Pressure Pump to Rail	02.5A075
Tube, Fuel Pump to Filter	02.5A100
Tube, Fuel Pump Outlet to Fuel Cooler	02.5A112

PART NAME	GROUP NO.	PART NAME	GROUP NO.
Tube, Fuel Filter to Junction Block	02.5A148	Valve, Oil Pressure Relief	04.1B582
Tube, Filter Outlet	02.5A151	Valve, Sequential Actuator	06.1A007
Tube, Junction Block to Fuel Manifold	02.5A165		
Tube, Fuel Drain Crossover	02.5A205	W	
Tube, Fuel Drain	02.5A210	Wheel, Speed Sensor Pulse	01.7133
Tube, Water Drain	02.5A219	Water Heater, Kim Hot-Start	12.6C403
Tube Assy., Fuel Return Manifold	02.5A225	Water Heater Installation Kit	12.6C404
Turbocharger	03.5A001		
Tube, Turbocharger Air Outlet Connection	03.5A414		
Tube, Turbocharger Oil Supply	03.5A500		
Tube, Turbocharger Oil Return	03.5A505		
Tube, Water Pump Outlet	03.7060		
Tube, Intercooler Water Inlet	03.7070		
Tube, Oil Drain	04.1B642		
Tube, Water Pump Inlet	03.7050		
Tube Assy., Water Inlet/Outlet	03.7072		
Tube, Intercooler Water Outlet	03.7080		
Tube, Air Inlet & Outlet Intercooler	03.7350		
Tube, Junction Block Inlet	04.1B581		
Tube, Oil Filter Center Retaining	04.2A420		
Tube Assy., Water Manifold Vent	05.2A041		
Tube, Oil Filter Inlet	04.3A001		
Tube, Oil Pan Drain	04.7A100		
Tube, Water Outlet Manifold	05.2A045		
Tube Assy., Water Pump Inlet	05.2B070		
Thermostat Assy.	05.2B050		
Tube, Charge Air Cooling Return	05.2B091		
Tube, Water Pump Inlet	05.3B329		
Tube, Exhaust Crossover	06.1A180		
Tube, Water Heater Outlet	12.6C408		
Thermostat	12.6C430		
Tensioner Assy., Generator Drive	07.1A900		
Trunnion, Engine Front	11.1A088		
Threadlock & Sealer	12.8A242		
V			
Valve, Exhaust	01.8310		
Valve, Intake	01.8315		
Valve, Fuel Supply Check	02.5A006		
Valve, Fuel Drain Check	02.5A209		
Vent Hose, Wastegate to Air Intake	02.5A540		
Valve, Sequential Actuator	03.3C820		
Valve, Oil Pump Relief	04.1A250		

01 Engine (Less Major Assemblies)

- 01.1 Cylinder Block
- 01.2 Cylinder Head
- 01.2A Engine Lifter Bracket
- 01.3 Crankshaft, Oil Seals and Stabilizers
- 01.3A Crankshaft Front Cover
- 01.3B Vibration Damper
- 01.3C Crankshaft Pulley
- 01.4A Flywheel
- 01.5A Flywheel, Housing
- 01.6 Connecting Rod and Piston
- 01.7 Camshaft and Gear Train
- 01.7B Accessory Drive
- 01.8 Valve and Injector Operating Mechanism
- 01.8A Rocker Cover

02 Fuel System

- 02.1A Fuel Injector/CNG Controls
- 02.1B Injector, Controls Electronic
- 02.2 Fuel Pump
- 02.3A Fuel Filter and Strainer
- 02.5A Fuel Lines and Fuel Cooler

03 Air System

- 03.1A Air Cleaner and/or Adaptor
- 03.3C Air Intake Manifold
- 03.5A Turbocharger, Intercooler and Aftercooler
- 03.7 Intercooler/Aftercooler

04 Lubricating System

- 04.1A Oil Pump
- 04.1B Oil Distribution System
- 04.1D Oil Engine Prelube
- 04.2A Oil Filter
- 04.3A Oil Filter Lines
- 04.4A Oil Cooler and Marine Gear Lines
- 04.6A Dipstick
- 04.7A Oil Pan
- 04.8A Ventilating System

05 Cooling System

- 05.1 Fresh Water Pump
- 05.2A Water Outlet Manifold and/or Elbow
- 05.2B Thermostat
- 05.3B Water Connections

06 Exhaust System

- 06.1A Exhaust Manifold and/or Connections

07 Electrical Instruments

- 07.1A Battery Charging Generator
- 07.3A Starting Motor

11 Engine Mounting

- 11.1A Engine Mounting and Base

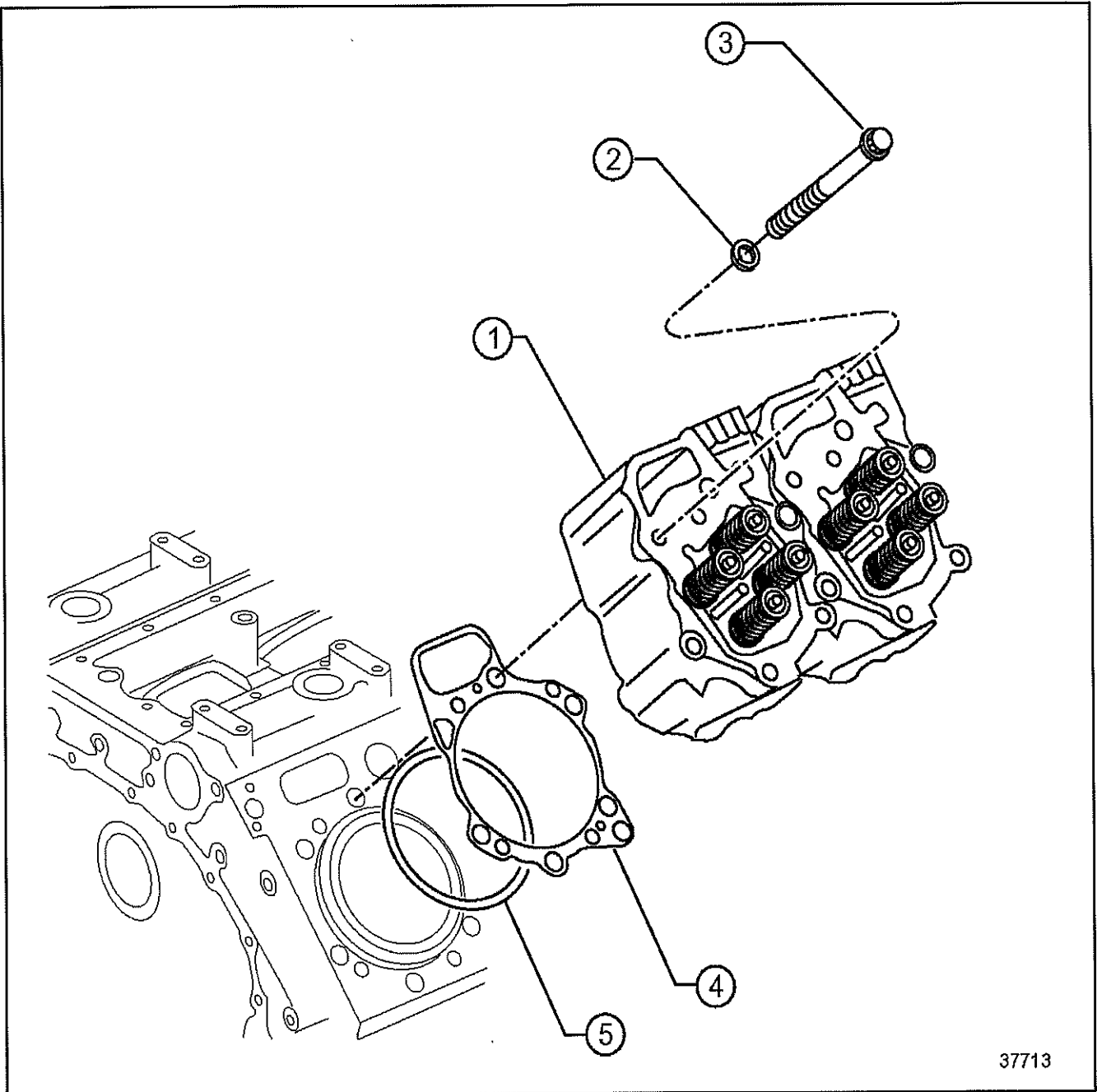
12 Miscellaneous

- 12.6C Cold Weather Starting Aid
- 12.8A Supplies/Maintenance Products
- 12.8D Miscellaneous Service Parts

				TYPES											
01.1 Cylinder Block															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	7											
			1	1											
			1	1											
01.1001		Block, Cylinder													
	000912008115	BOLT, M8X16 8.8		2											
	0049976736	VALVE, DRAIN		2											
	5240110440	FILLER PIECE STRIP		1											
	EX00028719	BLOCK ASM		1											
	X00028719	BLOCK ASM; USE: EX00028719		NS											
01.1040		Cover, Cylinder Block Hand Hole													
	000933010035	BOLT, M10 X 25		53											
	5240110045	FLANGE		2											
	5240110732	COVER, ACCESS PORT STD S4000		7											
01.1050		Gasket, Cylinder Block Hand Hole Cover													
	5240111380	GASKET, ACCESS COVER		7											
	5501871280	GASKET		2											
01.1055		Cover, Cylinder Block Valley													
	000125010524	WASHER A10.5		30											
	000835010056	STUD M10 X 25 DBL 8451.21 16V4000		8											
	000933010089	BOLT M10 X 20		1											
	000933010093	BOLT M10 X 35		30											
	000933010198	BOLT, M10 X 16 8.8		1											
	007349010002	WASHER, 10.5 STL		1											
	5249950059	STRAP 74.5 X 25		1											
	700429018005	SEAL RING 18 X 4		10											
	700429042000	SEAL RING, 42 X 5		1											
	700429055001	SEAL RING, 55 X 5		1											
	735084050000	PLUG		1											
	X00020623	COVER COVER SINGLE PASSAGE 16V4000 C23		1											
01.1057		Gasket, Cylinder Block Valley Cover													
	5279970345	SEAL STRIP 1357 X 5		1											

DETROIT DIESEL

SERIES 4000



37713

FIG 1 of 01.2

				TYPES									
01.2 Cylinder Head					5								
					4								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.		3								
REF.			QTY.										
01.2001													
1:1	EX00026599	Head Assy., Cylinder											
		EXCH HEAD ASM CYLINDER W/VALVES 16V4000		16									
	X00026599	HEAD ASM CYLINDER W/VALVES 16V4000; USE: EX00026599		NS									
01.2010													
1:5	5240160319	Gasket, Cylinder Head Compression											
		SEAL RING 194.5 X 213		16									
1:4	5240161580	GASKET, CYLINDER HEAD		16									
01.2030													
1:2	5240110062	Bolt, Cylinder Head											
		WASHER THRUST		96									
	5240160069	BOLT M22 X 335		8									
1:3	5249900701	BOLT CYL HEAD M22 2.00 X 308		88									

			TYPES											
01.2A Engine Lifter Bracket														
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
	01.2A070	Bracket, Engine Lifter-Front	3											
	5240110062	WASHER THRUST	5											
	5240160069	BOLT M22 X 335	4											
	5242230341	BRACKET, LIFTER	8											
			8											
			4											

				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				2	4	6									
		01.3 Crankshaft, Oil Seals and Stabilizers													
	01.3001	Crankshaft Assy.													
	5270301201	CRANKSHAFT ASM 16V4000-03 C23 GENSET; USE:		NS											
	E5270301201	EXCHG CRANKSHAFT ASM 16V4000-03 C23 GENSET		1											
	01.3040	Seal, Crankshaft Oil-Front													
	700429150000	SEAL RING, 150 X 4		1											
	01.3090	Shell. Crankshaft Main Bearing													
		<i>A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.</i>													
	23533882	KIT BEARING MAIN PAIR/O - O/4000		1											

TYPES

01.3A Crankshaft Front Cover

FIG
REF.

PART NO.

NAME AND DESCRIPTION

ASSY.
QTY.

01.3A156

Housing Assy., Gear Case

000125013012

WASHER A13

6

000908018002

PLUG M18 X 1.5 THREADED STL DIN908 DBL84

1

000908038000

PLUG SCREW M38 X 1.5 STL

2

000931012203

BOLT M12 1.75 X 170 DIN931 8.8 HEX DBL8451.21

2

000933012047

BOLT, M12 X 80

2

000934012008

NUT, HEX M12

6

000939012023

STUD M12X30

6

007603014102

WASHER, A14 X 18 COPPER

4

007603018101

WASHER A18 X 22 COP DIN7603 M91CE S2000

1

007603038101

WASHER, A38 A 44 COPPER

2

204017016000

BOLT, M16 X 160 10.9

2

304017008083

BOLT, M8 1.25 X 30

1

5281800519

TUBE ASSY. OIL LINE

1

700223006000

BOLT, BANJO

2

700325012100

CLAMP, HALF TUBE

2

700327008000

GROMMET, M8

1

X52602400003

HOUSING ASSY. FRONT COVER

1

01.3A191

Cover, Engine Front Accessory Drive

000933012056

BOLT M12X30MM

12

5241880102

COVER, ACCESSORY DRIVE

2

700429083000

SEAL RING, 83 X 5

2

01.3A192

Gasket, Engine Front Accessory Drive

5241880080

GASKET

2

				TYPES									
01.3B Vibration Damper													
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.										
REF.			QTY.										
	01.3B210	Damper, Vibration		2									
				4									
				8									
	000908020000	PLUG M20 X 1.5		1									
	000912008042			4									
	000931008038	BOLT M8 X 32 DIN931 8.8 DBL9400.00 S4000		12									
	007603020103	WASHER, A20 X 26 COPPER		1									
	0219976547	SEAL, CRANKSHAFT		1									
	206796008000			12									
	304017012018	BOLT M12 1.75 X 50 10.9 HEX ISO4017 DBL9440.40		6									
	5280300274	FLANGE ASM FOR PTO AT AUX PTO SIDE S4000C23		1									
	700429008001	SEAL RING 8 X 2		1									
	700429200002	SEAL RING, 200 X 4		1									
	700429290000	SEAL RING, 290 X 4		1									
	700429480000	O-RING 480 X 5 MMN429 S4000		1									
	X00004302	COVER PROTECTIVE FOR DAMPER 12/16V4000 GX3		1									
	X00009922	DAMPER VIBRATION 12/16V4000 C23		1									
	X00028593	PLATE FLANGE VIB DAMPER HSG 16V4000		1									

01.3C Crankshaft Pulley

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

TYPES

		01.5A Flywheel, Housing										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	9	6	0						
	01.5A001	Housing Assy., Flywheel										
	000908026005	PLUG M26X1.5 ST	1									
	000931012106	BOLT M12 X 200 10.9	8									
	000931012215	BOLT M12 X 150 10.9	23									
	006796012100	WASHER, 12 CONICLE SPRING	31									
	007603026104	WASHER A26X31 COPPER	1									
	007603030101	WASHER, A30 X 36 COPPER	2									
	304017008077	BOLT, M8 X 16 8.8	1									
	915001016004	NUT, M26 X 1.5	2									
	915005016000	CAP, SEALING 16 N	2									
	915007020001	ADAPTOR, M20/16	2									
	X00021778	HOUSING ASM FLYWHEEL S4000	1									
	01.5A010	Gasket, Flywheel Housing										
	700429020003	SEAL RING, 20 X 4	2									
	700429033001	SEAL RING, 33 X 5	2									
	01.5A085	Cover, Flywheel Housing										
	000125017014	WASHER A17 140HV	8									
	000933016003	BOLT, M16 X 25 8.8	8									
	304017008076	BOLT, M8 X 12 8.8	9									
	304017008081	BOLT, M8 X 25 8.8 LG	2									
	5240100267	PLATE, GUARD RIGHT	1									
	5240100367	PLATE, GUARD LEFT	1									
	5240140515	SCREEN, F/W/HSG 167.4 X 106 X 87 (RIGHT)	1									
	5511530050	SPACER, 10MM X 18MM	2									
	X00021753	GUARD PLATE 184 X 129 S4000	2									
	01.5A106	Guide, Flywheel Housing Timing Pin										
	304017008077	BOLT, M8 X 16 8.8	2									
	5280150031		1									

				TYPES											
01.6 Connecting Rod and Piston				9											
				4											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	4											
REF.			QTY.												
01.6001		Connecting Rod Assy.													
		A CONNECTING ROD ASSY. INCLUDES CAP, BUSHING PLUS BOLTS IN 1.6001.													
	5240380471	BOLT M20 1.50 X 103.0		32											
	EX00040057/42			16											
	X00040057/42	CONROD ASM; USE: EX00040057/42		NS											
01.6100		Shell, Connecting Rod Bearing													
	23536647	KIT ROD BEARING STD S4000		16											
01.6110		Piston Kit													
		A PISTON ASSY. INCLUDES PISTON DOME, SKIRT, PRESSURE PLATES, BOLTS, SPRING PIN, PISTON PIN, SNAP RINGS PLUS RINGS IN 1.6120 AND 1.6130.													
	X00028069	PISTON ASM 16.4:1 CARBON SCRAPPER SGL BOLT S4000 G		16											
01.6130		Ring, Piston Oil Control													
	5240110259	RING CARBON SCRAPPER 16V4000 C23		16											
01.6180		Liner, Cylinder													
	X00027830	LINER		16											
01.6190		Seal, Cylinder Liner													
	5550110259	SEAL LOWER LINER S4000		32											

01.7 Camshaft and Gear Train

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

		TYPES											
		01.7B Accessory Drive											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5	5								
				4	4								
				6	7								
01.7B700		Cover Assy., Drive											
	000933010035	BOLT, M10 X 25		6									
	000933012056	BOLT M12X30MM			6								
	5241880102	COVER, ACCESSORY DRIVE			1								
	5241880502	COVER	1										
01.7B725		Gasket, Cover Assy. Drive											
	5241880080	GASKET			1								
	5360520080	GASKET	1										

TYPES

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
		01.8 Valve and Injector Operating Mechanism	9										
			3										
			9										
	01.8060	Arm Assy., Exhaust Valve Rocker											
	5240500434	(R) ROCKER ARM ASSY., EXHAUST; USE: E5240500434	NS										
	E5240500434	(INCLUDES ITEMS IN 1.8135)	16										
	01.8075	Arm Assy., Intake Valve Rocker											
	5240500933	ARM ASM ROCKER INTAKE 12/16V4000-03 GENSET C23; USE: e5240500933	NS										
	E5240500933	ARM ASSY. ROCKER INTAKE	16										
	EX00018636	ARM ASSY. ROCKER	16										
	X00018636	ARM ASSY. ROCKER; USE: EX00018636	NS										
	01.8160	Shaft Assy., Rocker											
	X00018621	ROCKER SHAFT SUPPORT ASSY.	16										
	01.8170	Bracket, Rocker Shaft											
	000471045000	RING, SNAP	32										
	000931016091	BOLT, M16 X 180	16										
	200988045000	WASHER	32										
	700521016200	WASHER, M16 X 2	16										
	01.8180	Rod, Push											
	5240500930	PUSHROD ASSY.	32										
	01.8253	Arm Assy., Swing Exhaust Valve Rocker											
	000933010194	BOLT, M10 X 40	16										
	5240502235	FOLLOWER, SWING ARM ASSY OUTLET CAM	32										
	5240502335	SWING ROCKER ARM ASM EXHAUST CAM S4000	8										
	5240550505	CAM, SWING FOLLOWER AXLE	16										
	01.8255	Arm Assy., Swing Intake Valve Rocker											
	5240502135	FOLLOWER, SWING ARM ASSY INLET CAM	16										
	01.8343	Bridge, Exhaust Valve											
	5240551106	BRIDGE, VALVE FLOATING	32										

DETROIT DIESEL

SERIES 4000

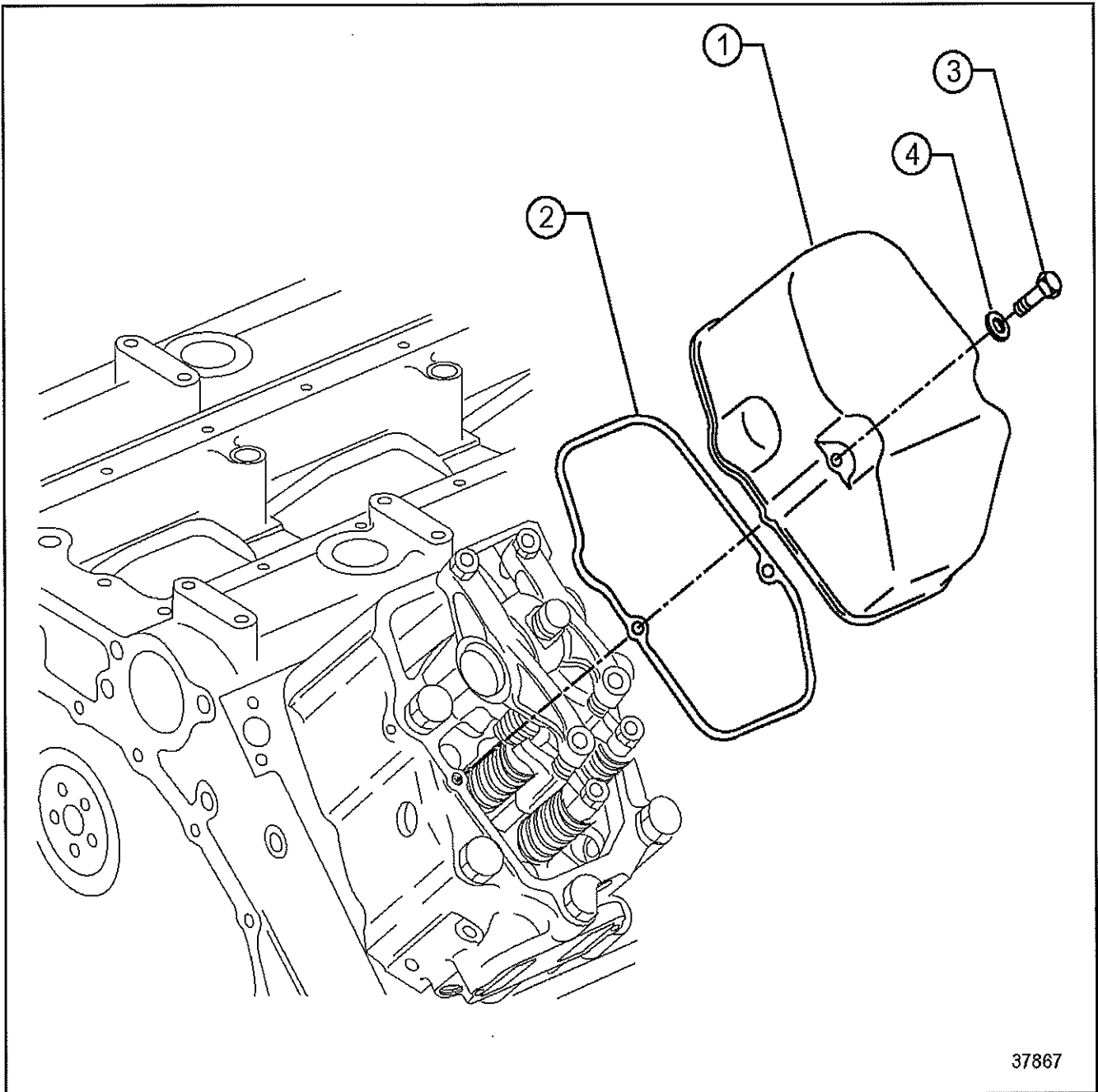


FIG 1 of 01.8A

TYPES

		01.8A Rocker Cover										
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.									
REF.			QTY.									
	01.8A450	Cover Assy., Rocker	7									
1:1	5240161305	COVER CYLINDER HEAD WITH MTU LOGO 16V4000C23	1									
	01.8A455	Gasket, Rocker Cover	7									
	700429256000	O-RING 256 X 4 MMN429	16									
	01.8A460	Bolt, Rocker Cover	16									
1:4	000125010524	WASHER A10.5	24									
	000931010332	BOLT, M10 X 150; USE: 304014010023	NS									
1:3	304014010023	SCREW	32									

01 Engine (Less Major Assemblies)

- 01.1 Cylinder Block
- 01.2 Cylinder Head
- 01.2A Engine Lifter Bracket
- 01.3 Crankshaft, Oil Seals and Stabilizers
- 01.3A Crankshaft Front Cover
- 01.3B Vibration Damper
- 01.3C Crankshaft Pulley
- 01.4A Flywheel
- 01.5A Flywheel, Housing
- 01.6 Connecting Rod and Piston
- 01.7 Camshaft and Gear Train
- 01.7B Accessory Drive
- 01.8 Valve and Injector Operating Mechanism
- 01.8A Rocker Cover

02 Fuel System

- 02.1A Fuel Injector/CNG Controls
- 02.1B Injector, Controls Electronic
- 02.2 Fuel Pump
- 02.3A Fuel Filter and Strainer
- 02.5A Fuel Lines and Fuel Cooler

03 Air System

- 03.1A Air Cleaner and/or Adaptor
- 03.3C Air Intake Manifold
- 03.5A Turbocharger, Intercooler and Aftercooler
- 03.7 Intercooler/Aftercooler

04 Lubricating System

- 04.1A Oil Pump
- 04.1B Oil Distribution System
- 04.1D Oil Engine Prelube
- 04.2A Oil Filter
- 04.3A Oil Filter Lines
- 04.4A Oil Cooler and Marine Gear Lines
- 04.6A Dipstick
- 04.7A Oil Pan
- 04.8A Ventilating System

05 Cooling System

- 05.1 Fresh Water Pump
- 05.2A Water Outlet Manifold and/or Elbow
- 05.2B Thermostat
- 05.3B Water Connections

06 Exhaust System

- 06.1A Exhaust Manifold and/or Connections

07 Electrical Instruments

- 07.1A Battery Charging Generator
- 07.3A Starting Motor

11 Engine Mounting

- 11.1A Engine Mounting and Base

12 Miscellaneous

- 12.6C Cold Weather Starting Aid
- 12.8A Supplies/Maintenance Products
- 12.8D Miscellaneous Service Parts

DETROIT DIESEL

SERIES 4000

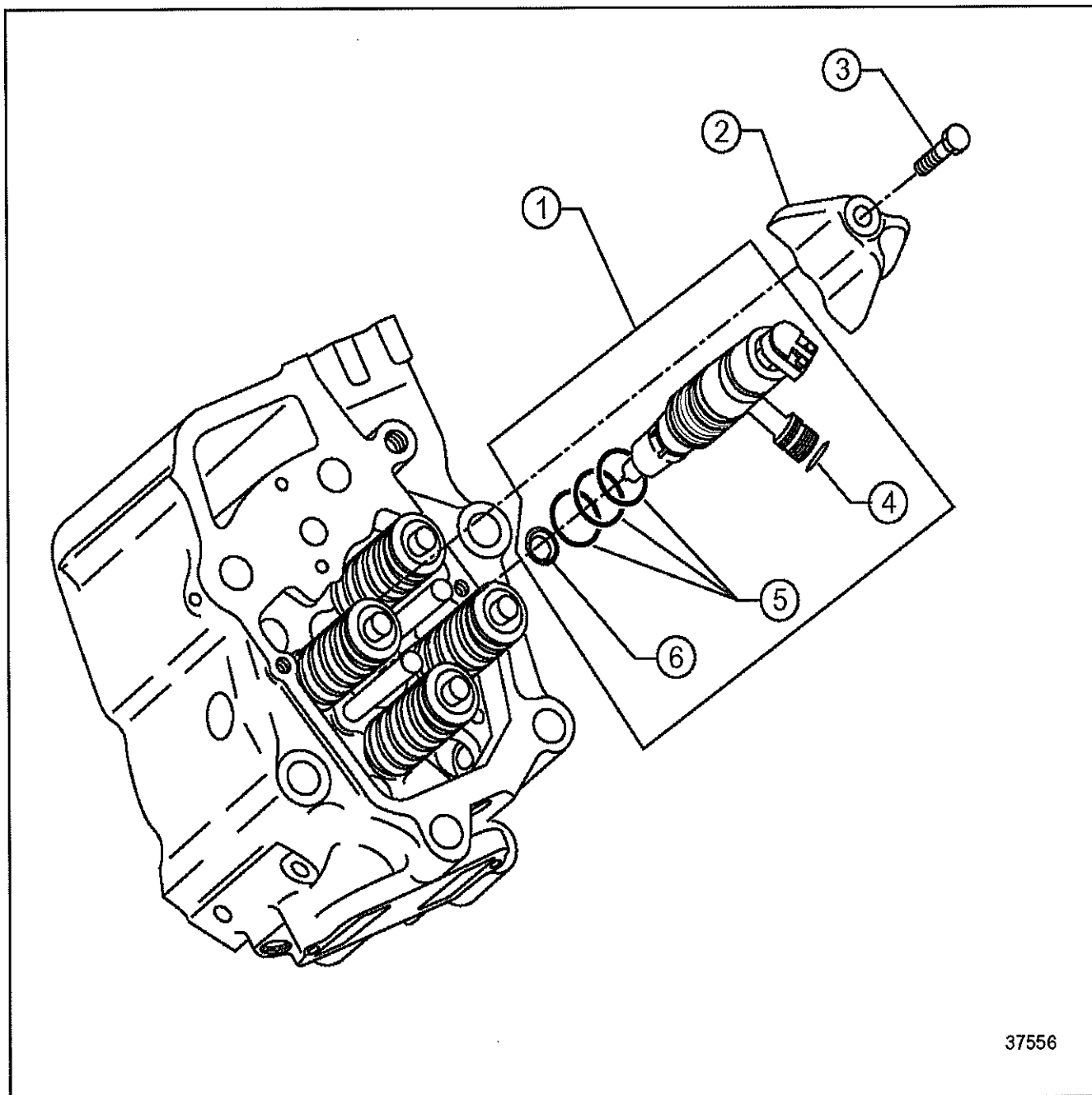


FIG 1 of 02.1A

TYPES

02.1A Fuel Injector/CNG Controls

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.																	
	02.1A001	Injector assy.	5																	
1:1	EX52407500004		6																	
	X52407500004	; USE: EX52407500004	5																	
	02.1A270	Clamp, Injector																		
1:2	5240780535	CLAMP	16																	
1:3	5249902101	BOLT, M12 X 1.75 X 100	NS																	
			16																	
			16																	

				TYPES											
02.1B Injector, Controls Electronic				1	1	1	1								
				0	0	0	0								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	6	7	7	7								
REF.			QTY.	5	1	2	3								
	02.1B501	Module Assy., Electronic Control (Ecm)													
	5275308754	CONTROL UNIT ELECTRONIC ADEC S4000		1											
	02.1B600	Sensor, Oil Or Fuel Pressure													
	0035351731	SENSOR, FUEL PRESSURE					1								
	0035352531	SENSOR, PRESSURE (10 BAR)					1								
	0035352931						1								
	5240780050	BUSHING					1								
	735221011000	O-RING					1								
	02.1B610	Sensor, Mag. Idler													
	0005357533	SENSOR, SRS					1								
	02.1B620	Sensor, Mag. Crankshaft													
	0005357333	SENSOR, TRS SPEED					1								
	02.1B647	Sensor, Air Temperature													
	0005356430	SENSOR, AIR/FUEL/WATER TEMPERATURE					5								
	02.1B650	Sensor/Kit, Air Pressure/Turbo Boost													
	0035352731	SENSOR, PRESSURE					1								
	02.1B667	Sensor, Fuel Monitor													
	01115615	RELAY ASSY., 24V (7.4707)										2			
	5242030480	GASKET										1			
	5242030580	GASKET, RADIATOR SUPPLY										1			
	5319977472	FITTING, STRAIGHT M30 X 1.5 1 5/16"-12										1			
	X00031104	SENSOR LEVEL MONITOR S2000/S4000										1			
	02.1B700	Harness, Electronic Distributor Unit to Injector													
	X00032477	HARNESS INJECTOR WIRING ECU-7 X4 S4000										1			
	02.1B704	Harness, Engine Sensors to Ecm													
	X00032470	HARNESS SENSOR WIRING ECU-7 X2 S4000										1			
	02.1B745	Bracket, Wiring Harness													
	000000003020	BOLT M10 1.5 X 20 8.8 HEX ISO4017 A3C										1			
	000000003322	BOLT M10 X 90 ISO4014										2			
	000000003347	BOLT M10 1.50 X 55 8.8 HEX ISO4017 A3C										1			
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125										4			
	000125008427	WASHER A8.4 140HV DIN125										8			
	000125010524	WASHER A10.5										2			
	0001596440	CLAMP CABLE DN10 S4000										9			
	0001596540	CLAMP CABLE DN17 S4000										29			
	0005461220	STRIP ASM										1			
	000933006175	BOLT, M6 X 16 8.8										2			
	000933008013	BOLT M8 1.25 X 14 DIN 933 8.8 DBL8451.21										1			

TYPES

02.1B Injector, Controls Electronic

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.
	02.1B745	Bracket, Wiring Harness	
	000933008114	BOLT, M8 X 22	1
	000933008116	BOLT M8 X 28.8 LG	0
	000933010035	BOLT, M10 X 25	1
	000933012058	BOLT, M12 X 20 8.8	0
	000934006006	NUT, HEX M6	7
	000934008008	NUT, HEX M8	3
	000934010005	NUT	
	007349008002	WASHER	
	304017008077	BOLT, M8 X 16 8.8	2
	304017008079	BOLT, M8 X 20 8.8	2
	304017008081	BOLT, M8 X 25 8.8 LG	14
	304017008085	BOLT, M8 X 40 8.8	1
	5221530026	DAMPER, SPR ADJ WRG HARNESS	1
	5225460043	BRACKET	8
	5240110732	COVER, ACCESS PORT STD S4000	1
	5240111380	GASKET, ACCESS COVER	5
	5241534540	90 X 82.1 X 20 X 4	1
	5241538440	BRACKET 40 X 20 X 4 S4000	6
	5315460443	BRACKET	4
	5511530050	SPACER, 10MM X 18MM	1
	5801530840	BRACKET 52 X 65 X 5 S4000	3
	5801533240	BRACKET L	1
	8711590271	SPACER	1
	916016006202	CLAMP, BRSGU	4
	916016024201	CLAMP BRSGU 24/20 N16016 M91CE S2000	1
	916016030202	CLAMP BRSGU 30/20 N16016 M91CE S2000	1
	X00010338	CLAMP CABLE PLASTIC 19 S4000	3
	X00012261	SPACER SLEEVE 16V4000 C23	4
	X00012556	BRACKET ASM FOR WIRING HARNESS S4000	2
	X00016676	BRACKET HARNESS 360 X 160.133 X 5 S4000	1
	X00016677	BRACKET HARNESS 360 X 148 X 5 S4000	1
	X00023601	BRACKET HARNESS 282 X 90 X 5 S4000	2
	X00027636	BRACKET ASM W/PLASTIC HARNESS CLAMP S4000	8
	X00032376	BRACKET 52.5 X 45 X 5 S4000	1

				TYPES											
02.2 Fuel Pump				4	4	4									
				0	0	1									
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	7	9	0									
REF.			QTY.												
02.2001		Pump Assy., Fuel													
	0000910124	COUPLING			1										
	000933010116	BOLT, M10 X 45			2										
	5240900450	PUMP, FUEL DELIVERY; USE: E5240900450			NS										
	700429083000	SEAL RING, 83 X 5			1										
	735151010100	WASHER, A10.5			2										
	E5240900450				1										
	X52607700008				1										
02.2006		Pump Assy., Fuel High Pressure													
	304017012018	BOLT M12 1.75 X 50 10.9 HEX ISO4017 DBL9440.40		5											
	735151012100	WASHER, A12.5		5											
	EX52707300001			1											
	X52707300001	; USE: EX52707300001		NS											
02.2015		Bracket, Fuel Pump-High Lift													
	000933010095	BOLT, M10 X 50 8.8				2									
	000933012038	SCREW				3									
	28200750053/0					2									
	X00015823	SPACER 40 LG X 25 OD X 12.5 ID MTN 5168				3									
	X00035700	BRACKET CORNER HP PUMP/FLANGE S4000				1									

				TYPES											
02.3A Fuel Filter and Strainer															
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	2	3	4	5	6	7	8	9	10	11	12
	02.3A316	Filter Assy., Spin On Fuel	1												
	0020922101	FILTER FUEL SPIN ON 302 X 140 16V4000	1												

				TYPES									
02.5A Fuel Lines and Fuel Cooler				2	2	2	2	2	2				
				5	5	6	6	6	6				
				0	2	1	2	2	2				
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	3	1	5	1	3	4				
REF.			QTY.										
	02.5A009	Hose, Fuel Supply											
	000912008014	BOLT, M8 X 25				3							
	007349008002	WASHER				3							
	007603026101	RING, SEAL A26 X 32				1							
	007603026104	WASHER A26X31 COPPER				1							
	304017008079	BOLT, M8 X 20 8.8				2							
	304017008081	BOLT, M8 X 25 8.8 LG				1							
	304017008085	BOLT, M8 X 40 8.8				1							
	304017008088	BOLT, M8 1.25 x 55 8.8				1							
	304032008014	Nut, Hex M8				1							
	700325028100	CLAMP, HALF TUBE				3							
	700325028200					1							
	700327022000	GROMMET M22				2							
	700429020003	SEAL RING, 20 X 4				1							
	700429032003	SEAL RING, 32 X 4				1							
	915001016004	NUT, M26 X 1.5				1							
	915005016000	CAP, SEALING 16 N				1							
	915013020002	UNION 20 N15013 DBL 9400.00 M90CE M91CE				2							
	X00032042	BLOCK FUEL CONNECTION S4000				1							
	X00040872	BRACKET 97 X 25 X 6 S4000				1							
	X00040960	TUBE FUEL LINE 484.534 16V4000				1							
	X00040962	TUBE FUEL LINE 922.675 16V4000				1							
	02.5A075	Tube Assy., Fuel High Pressure Pump to Rail											
	000125008427	WASHER A8.4 140HV DIN125			2								
	304017008084	BOLT, M8 X 35 8.8			2								
	5240701733	FUEL LINE						16					
	5240920124	ELBOW FUEL 122 X 34 X 25 S4000			1								
	700429074000	O-RING 74 X 4 MMN429 S4000			1								
	X00018223	LINE HI PRESS SINGLE WALL LEFT SIDE 12/16V4000 C23						1					
	X00028862							1					
	X00028863							1					
	02.5A076	Connector, Fuel High Pressure Lines											
	000000002970							1					
	000000003062	Bolt, m10 1.50 x 130						2					
	000912010014							8					
	000912010057	BOLT M10 1.50 X 45 10.9 HEX SOC HD DIN912 DBL9400						8					
	000931008152							2					
	007349008002	WASHER						4					
	200433010500	WASHER						16					
	304014008002	BOLT M8 X 65 HEX ISO4014 8.8						1					
	304017008081	BOLT, M8 X 25 8.8 LG						2					

TYPES

02.5A Fuel Lines and Fuel Cooler

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.
-------------	----------	----------------------	---------------

02.5A076

Connector, Fuel High Pressure Lines

304017008088	BOLT, M8 1.25 x 55 8.8	2
304017012018	BOLT M12 1.75 X 50 10.9 HEX ISO4017 DBL9440.40	2
304032008014	Nut, Hex M8	2
5809951468	CLAMP HALF TUBE 16V4000 C23	6
700325018100	CLAMP, HALF TUBE	6
700325028100	CLAMP, HALF TUBE	2
700325028102		2
700327012000	GROMMET, M12	2
700429024000	SEAL RING, 24 X 5	16
735151008100	WASHER	2
X00008172	GROMMET 22 X 17.8 16V4000 C23	6
X00019544	REGULATOR FUEL PRESSURE S4000	16
X00022410	SPACER 53 X 20 16V4000	2
X00041397	PLATE FOR HP LINE MTG S4000	1
X52407700012		1
X52607700007		1
X52607700014		1

02.5A100

Tube, Fuel Pump to Filter

735186016000	UNION MMN5186 16V4000	2
--------------	-----------------------	---

02.5A165

Tube, Junction Block to Fuel Manifold

5240702133	HP LINE	1
X00027842	FUEL LINE HIGH PRESS SINGLE WALL 16V4000	1
X00034967	VALVE PRESS RELIEF 16V4000-03	1

02.5A210

Tube, Fuel Drain

000125008427	WASHER A8.4 140HV DIN125	2
000933010089	BOLT M10 X 20	1
000933010092	BOLT M10 X 30.0 LG	1
007349008002	WASHER	1
007603012111	WASHER, A12 X 15.5 COPPER	30
007603016105	WASHER, A16 X 20 COPPER	1
007603026104	WASHER A26X31 COPPER	1
135M55009/1	RETAINER	1
304017008083	BOLT, M8 1.25 X 30	2
304017008084	BOLT, M8 X 35 8.8	1
304017008085	BOLT, M8 X 40 8.8	1
304017008087	BOLT, M8 X 50 8.8	3
304017008090	BOLT, M8 X 20	1
304032008014	Nut, Hex M8	2
5500784541	STRAP, 65 X 20 X 4	1
5511531550		1
5551870640	BRACKET, L 51 X 38 X 20	1

				TYPES									
02.5A Fuel Lines and Fuel Cooler				2	2	2	2	2	2				
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5	5	6	6	6	6				
				0	2	1	2	2	2				
				3	1	5	1	3	4				
02.5A210		Tube, Fuel Drain											
	5569970274	TEE, FITTING								1			
	5840983726	BRACKET 70 X 20 S4000								1			
	5900140253	SPACER TUBE								1			
	700325010100	CLAMP, HALF TUBE 1/1								4			
	700325018100	CLAMP, HALF TUBE								5			
	700325018200	CLAMP, HALF TUBE								1			
	700325022100	CLAMP, HALF TUBE 1/1 D9 - 22 MM								1			
	700325022200	CLAMP, HALF TUBE								1			
	700325028100	CLAMP, HALF TUBE								2			
	700327006000	GROMMET, M6								2			
	700327012000	GROMMET, M12								3			
	700327018000	GROMMET, M18								1			
	700327022000	GROMMET M22								1			
	735080018204	FUEL REGULAT								1			
	915006004002	UNION, 4								30			
	915007010001	CONNECTOR 10/8								1			
	915013020002	UNION 20 N15013 DBL 9400.00 M90CE M91CE								1			
	X00004208	LINE FUEL RETURN 161.548 16V4000 C23								1			
	X00004215	LINE FUEL RETURN RIGHT 417.528 16V4000 C23								1			
	X00034974	LINE FUEL RETURN LB 196.344 S4000								14			
	X00035929	TUBE FUEL RETURN 692.559 S4000								1			
	X00040958	TUBE FUEL RETURN 87.391 S4000								1			
	X00040959	TUBE FUEL RETURN 443.299 S4000								1			
	X00040963	TUBE FUEL RETURN 819.000 S4000								1			
	X00040964	TUBE FUEL RETURN 66.185 S4000								1			
	X00040965	TUBE FUEL RETURN 275.317 S4000								1			
02.5A250		Block, Fuel System Junction											
	000933010116	BOLT, M10 X 45					7						
	304017008091	Bolt, M8 1.25 x 55 10.9 Hex							2				
	5240110732	COVER, ACCESS PORT STD S4000					1						
	5240111380	GASKET, ACCESS COVER					1						
	5561870453	SPACER 10.5MM X 22MM L=20 16V4000					1						
	735210014000	PLUG ASSY. M14 X 1.50 STL							1				
	X52608300013						1						
	X59407800002								1				

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES											
03.1A Air Cleaner and/or Adaptor															
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.												
REF.			QTY.												
	03.1A230	Bracket, Air Cleaner Mounting		4											
	304017008081	BOLT, M8 X 25 8.8 LG		0											
	5240900241	BRACKET		1											
	5240981739	BRACKET													
	5240981839	BRACKET													
	03.1A259	Elbow, Turbocharger Air Inlet													
	000000000681	CLAMP 160-180X13-SW8-W3 MBN 10223 POLYAM		16											
	000908010002	PLUG THREADED		4											
	000908020000	PLUG M20 X 1.5		4											
	007603010110	WASHER, A10 X 13.5 COPPER		4											
	007603014102	WASHER, A14 X 18 COPPER		4											
	007603020101	WASHER, A20 X 24 COP		4											
	114C52010/1	BUSHING, THREADED; USE: X00009680		NS											
	5240902628	ELBOW ASM AIR FILTER S4000		4											
	700336150004	SLEEVE, RUBBER; USE: X00022979		NS											
	900288166002	CLAMP; USE: 000000000681		NS											
	X00003468	BRACKET 147 X 32 X 5 AIR FILTER S4000		4											
	X00009680	UNION S4000		4											
	X00022979	SLEEVE RUBBER 100 X 150 MMN336 S4000		4											

TYPES

03.3C Air Intake Manifold

FIG
REF.

PART NO.

NAME AND DESCRIPTION

ASSY.
QTY.

03.3C801

Air Intake Manifold

000125010524

WASHER A10.5

000908052003

PLUG M52X1.5 STL DBL 8451.21

000931010345

BOLT, M10 X 140 8.8

007603052101

WASHER, A52 X 60 COPPER

5240980907

MANIFOLD AIR (CENTER)

5240981107

MANIFOLD AIR CHARGE (FRONT)

5240981407

MANIFOLD AIR CHARGE (FRONT)

700429140000

SEAL RING, 140 X 8

03.3C803

Gasket, Air Intake Manifold

5240980680

GASKET

				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				2	2										
		03.5A Turbocharger,Intercooler and Aftercooler		2	2										
				2	2										
				0	1										
				7	2										
	03.5A001	Turbocharger													
	5249900605	BOLT CAPSCREW M10 X 1.5 X 40.0 LG NIMONI			8										
	5249900705	BOLT CAPSCREW M10 1.5 X 50.0 LG NIMONIC			8										
	EX52710100001	EXCHG TURBOCHARGER ASM GT5523 1.40A/R GENSET S4000			4										
	X52710100001	TURBOCHARGER ASM GT5523 1.40 A/R GENSET S4000; USE: EX52710100001			NS										
	03.5A307	Gasket, Turbocharger Exhaust Inlet Connection													
	5381420180				4										
	03.5A324	Adaptor, Turbocharger Exhaust Outlet													
	5241420302	OUTLET, TURBO EXHAUST		2											
	03.5A325	Gasket, Turbocharger Exhaust Outlet													
	5244920181	SEAL RING EXHAUST 4.5620 DIA		4											
	03.5A330	Bracket, Turbocharger Exhaust Outlet Adaptor													
	000933010093	BOLT M10 X 35		2											
	000933010095	BOLT, M10 X 50 8.8		2											
	11506101	NUT, M10 X 1.5		4											
	5241422540	BRACKET EXH OUTLET 84.02 X 93.74 S4000		4											
	5511531250	SPACER, 30MM		2											

03.7 Intercooler/Aftercooler

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES									
04.1A Oil Pump													
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	2									
REF.			QTY.	6									
				0									
04.1A001		Pump Assy., Oil											
	0021806201	PUMP ASM ENG OIL 16V4000; USE: E0021806201		NS									
	304014010015			3									
	304017010051	BOLT, M10 1.50 X60 10.9		1									
	5241871853	SPACER		1									
	735151010200	WASHER		3									
	E0021806201	EXCHG PUMP ASM ENG OIL 16V4000		1									

TYPES

04.1B Oil Distribution System

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.
			7 7 0
04.1B569		Nozzle Assy., Oil Spray	
	X00033644	NOZZLE LUBE OIL SPRAY S4000	16
04.1B581		Tube, Junction Block Inlet	
	007603014102	WASHER, A14 X 18 COPPER	4
	304014008032	BOLT, M8 X 1.25 X 80	32
	304017008083	BOLT, M8 1.25 X 30	1
	5241870101	TUBE, 229 X 23.2D	14
	5241870201	TUBE, 141.5 X 23.2D	1
	5241870276	WASHER	2
	5241870401	TUBE, 185.5 X 23.2	1
	5281800519	TUBE ASSY. OIL LINE	1
	700223006000	BOLT, BANJO	2
	700325012100	CLAMP, HALF TUBE	2
	700327008000	GROMMET, M8	1
	700429024002	SEAL RING 24 X 4	2
	700429024002	SEAL RING 24 X 4	2
	700429041000	SEAL RING, 41 X 4	2
	X00033645	BLOCK PSTN LUBE NOZZLE SUPT 57.5 X 33 W/THRU HOLE	14
	X00033646	BLOCK PSTN LUBE NOZZLE SUPT 57.5 X 33 W/O THRU HOL	2

		TYPES											
		04.1D Oil Engine Prelube											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	04.1D800	Kit, Oil Engine Prelube		5									
	000933010035	BOLT, M10 X 25	6										
	5241880180	GASKET	2										
	5241880202	COVER	2										

TYPES

		04.2A Oil Filter										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
	04.2A240	Filter Assy., Oil		7								
	000125010524	WASHER A10.5		1								
	000125013012	WASHER A13		9								
	000439016200	NUT, HEX		7								
	000933010093	BOLT M10 X 35		4								
	000933012051	BOLT, M12 X 50 8.8		1								
	007603014102	WASHER, A14 X 18 COPPER		7								
	007603016105	WASHER, A16 X 20 COPPER		6								
	5241800711	ADAPTOR ASSY., OIL FILTER VERTICAL W/45DEG		1								
	5241802019	TUBE ASSY., SOL OIL SUPPLY		1								
	5241840409	FLANGE, CENTRIFUGAL OIL		1								
	5249970545	SEAL, SQUARE 130.22 OD X 123.42 ID X 3.40		1								
	5249970645	SEAL, SQUARE 66.72 OD X 59.92 ID X 3.40		3								
	5849900615	VALVE, NEEDLE M10 X 1 X 48		1								
	5849972672	UNION, CONNECTOR		1								
	700429058001	RING-O, 58 X 4 MMN 429		3								
	700429065000	SEAL RING, 65 X 4		1								
	04.2A250	Element, Oil Filter										
	5241840101	FILTER, OIL		4								
	04.2A440	Bracket, Oil Filter Mounting										
	000933010058	BOLT, M10 X 35 10.9		5								
	5241840440	BRACKET		1								

				TYPES											
04.3A Oil Filter Lines				2											
				2											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	4											
REF.			QTY.												
04.3A001		Tube, Oil Filter Inlet													
	007603018101	WASHER A18 X 22 COP DIN7603 M91CE S2000		2											
	304017008085	BOLT, M8 X 40 8.8		1											
	5281800319			1											
	700223010000	BOLT BANJO A12 MMN223 M91CE S2000		1											
	700325018100	CLAMP,HALF TUBE		2											
	700327012000	GROMMET, M12		1											

TYPES

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				1	5	2	5								
		04.4A Oil Cooler and Marine Gear Lines													
	04.4A001	Core, Oil Cooler Engine													
	000000003926	BOLT M12 1.75 X 55 8.8 HEX ISO4017 A3C		8											
	007349013002	WASHER M13		6											
	5261800465	COOLER OIL16V4000 GX3 GENSET		1											
	700429083000	SEAL RING, 83 X 5		4											
	04.4A050	Housing, Oil Cooler-Engine													
	000125013012	WASHER A13		3											
	000931012091			3											
	000934012008	NUT, HEX M12		3											
	000939012061	STUD, M12 X 40 DIN 939 8 DBL 8451.21		3											
	5261800037	HOUSING		1											
	700429075001	SEAL RING, 75 X 5		2											
	735210033000	PLUG, M33 x 2.00 STL ISO6149		1											

				TYPES											
				04.6A Dipstick											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1											
				5											
				4											
				3											
	04.6A001	Dipstick													
	5240100972	DIPSTICK, OIL 675 X 480 X 557		1											
	04.6A020	Guide, Dipstick													
	007603022102	WASHER A22X27 COPPER		1											
	5240100266	TUBE ASSY., DIPSTICK W/7 BOLT COVER		1											
	700429012002	SEAL RING 12 X 5		1											
	8800180770	CONNECTOR, THREADED		1											
	04.6A060	Plate, Dipstick Adaptor													
	0000181802	OIL FILL CAP		1											
	000933010035	BOLT, M10 X 25		14											
	5240100264	FILLER NECK, OIL		1											
	04.6A061	Gasket, Dipstick Adaptor Plate													
	5240111380	GASKET, ACCESS COVER		2											

TYPES

04.7A Oil Pan													
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1	0	3	9	5	1				
	04.7A001	Pan, Oil											
	000125008427	WASHER A8.4 140HV DIN125							4				
	000125010524	WASHER A10.5							8				
	000931008189	BOLT, M8 1.25 X 85 8.8							4				
	000931010315	BOLT, M10 X 100							8				
	000931012176	BOLT, M12 X 150 8.8							10				
	000933010095	BOLT, M10 X 50 8.8							36				
	007349008002	WASHER							4				
	007349013002	WASHER M13							10				
	304017008087	BOLT, M8 X 50 8.8							4				
	5242000754	TUBE, WATER CAC							1				
	5270141002	PAN, OIL CAST IRON							1				
	700429070000	SEAL RING, 70 X 5							2				
	735151010100	WASHER, A10.5							36				
	X00020248	ELBOW SUMP OIL PICKUP ASM 16V4000 C23							1				
	X00020254	STRAINER 16V4000 C23							1				
	04.7A030	Gasket, Oil Pan to Block											
	5279870435	SEAL, OIL PAN							1				
	04.7A080	Plug, Oil Pan Drain											
	000908012003	PLUG M 12 X 1.5 DIN 908 4.6 DBL 8451.21							2				
	000912010065	BOLT, M10 1.50 X 25 8.8	10										
	007603012111	WASHER, A12 X 15.5 COPPER							2				
	007603030101	WASHER, A30 X 36 COPPER	5										
	5379970030	PLUG	5										
	5500140145	FLANGE OIL PAN	5										
	04.7A090	Gasket, Oil Pan Drain Plug											
	5602030280	GASKET	5										
	04.7A120	Cover, Oil Pan											
	000933010035	BOLT, M10 X 25							2				
	5240140033	COVER 16V4000							1				
	04.7A130	Gasket, Oil Pan Cover											
	5240140080	GASKET 16V4000							1				

				TYPES											
04.8A Ventilating System				1											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	2											
REF.			QTY.	8											
				9											
	04.8A001	Pipe Assy, Breather													
	000000000668	CLAMP		8											
	000000000671	CLAMP 40-60X13-SW8-W3 MBN10223 POLYIMID M		8											
	000125008427	WASHER A8.4 140HV DIN125		5											
	000931012149	BOLT, M12 X 60		1											
	000934008008	NUT, HEX M8		4											
	304017008079	BOLT, M8 X 20 8.8		1											
	304017008081	BOLT, M8 X 25 8.8 LG		4											
	3669970782	HOSE INTAKE 730MM S2000		1											
	4479975282	INTAKE HOSE		1											
	5801533240	BRACKET L		1											
	700368045010	SLEEVE RUBBER 45 X 50 MMN368 M91CE S2000		2											
	700368050012	SLEEVE RUBBER 50 X 55 MMN368 16V4000 GX3		2											
	916016035201	CLAMP BRSGU 35/20 N16016 M91CE S2000		5											
	X00040605	HOSE REDUCER S4000		2											
	X00040642	HOSE REDUCER S4000		2											
	X00040982	HOSE INTAKE 1440 S4000		2											
	04.8A021	Connector, Breather Tube													
	700429085002	SEAL RING, 85 X 6		2											
	X00003083	TUBE PLUG-IN 16V4000-03 C23		1											
	X00040640	MANIFOLD CRANKCASE S4000 C23		1											
	04.8A039	Clamp, Breather Tube													
	000000000668	CLAMP		6											
	000931010239	BOLT, M10 X 80 8.8		2											
	000931010332	BOLT, M10 X 150		2											
	04.8A050	Body, Breather Or Separator													
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125		24											
	304017006063	BOLT, M6 1.00 X 25 8.8		24											
	X00004127	SUPPORT FOR OIL SEPARATOR 16V4000-03 C23		2											
	X00004135	GASKET 391 X 12 X 121 X 12 16V4000-03 C23		2											
	X00005363	SEPARATOR OIL ASM S2000		6											
	04.8A055	Shell, Breather													
	000125008427	WASHER A8.4 140HV DIN125		16											
	000908014001	PLUG, M14 X 1.5		3											
	000933008171	BOLT M8 X 75 8.8 DBL8451.21 DIN 933 M91CE S2000		16											
	007603014102	WASHER, A14 X 18 COPPER		3											
	735210014000	PLUG ASSY. M14 X 1.50 STL		1											
	X00001942	HOUSING VENT 16V4000-03 C23		1											
	04.8A187	Hose, Oil Drain													
	000000001039	BOLT M10 X 40 8.8 16V4000		1											
	000000003381	BOLT M12 1.75 X 35 8.8 HEX ISO4017 A3C		1											

TYPES

04.8A Ventilating System

FIG
REF.

PART NO.

NAME AND DESCRIPTION

ASSY.
QTY.

04.8A187

Hose, Oil Drain

007603026104

WASHER A26X31 COPPER

009021008204

WASHER

304017008079

BOLT, M8 X 20 8.8

304017008083

BOLT, M8 1.25 X 30

304017008084

BOLT, M8 X 35 8.8

5315461043

RETAINER M91CE S2000

5569970674

FITTING

700325015100

CLAMP, TUBE HALF

700327010000

GROMMET, M10

915001008003

UNION NUT

915005008001

FITTING, TAPERED SEALING

915007016000

FITTING

X00026477

TUBE ASM 212.116 OIL LINE 16V4000

X00026478

TUBE ASM 597.906 OIL LINE 16V4000

X00026672

TUBE ASM 231.277 OIL LINE 16V4000

X00026673

TUBE ASM 837.101 OIL LINE 16V4000

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES											
05.1 Fresh Water Pump				3	3										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	9	9										
				0	3										
05.1001					Pump Assy., Fresh Water <i>A PUMP KIT INCLUDES PUMP ASSY. AND ITEMS IN 5.1010.</i>										
	000125010524	WASHER A10.5			3										
	000125013012	WASHER A13	3	5											
	000908030002	PLUG SCREW M30 X 1.5 STL		1											
	000931012143	BOLT, M12 X 70 8.8	1												
	000931012176	BOLT, M12 X 150 8.8			1										
	000933010094	BOLT, M10 X 40 8.8			3										
	000933012040	BOLT M12 1.75 X 75 8.8 DBL8451.21 DIN933			1										
	000933012051	BOLT, M12 X 50 8.8	2	3											
	000934012008	NUT, HEX M12	1	1											
	0049976736	VALVE, DRAIN	1	1											
	007603018101	WASHER A18 X 22 COP DIN7603 M91CE S2000			2										
	007603030101	WASHER, A30 X 36 COPPER			1										
	5242000184	CONNECTING PIECE 25 X 20 M90CE S4000			1										
	5242001118	ELBOW ASSY., W/FLG 146O.D.			1										
	5242030340	SUPPORT, MOUNTING HOLDER			1										
	700223010000	BOLT BANJO A12 MMN223 M91CE S2000			1										
	700429120002	SEAL RING, 120 X 6			1										
	E23535489	EXCHANGE KIT HT WATER PUMP AND SEAL S4000			1										
	X00008649	PUMP ASM WTR LOW TEMP CLG CIRCUIT S4000	1												
05.1010															
		Gasket, Fresh Water Pump													
	700429130003	SEAL RING, 130 X 5	1												

TYPES

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	TYPES									
				2	8	3	4						
		05.2A Water Outlet Manifold and/or Elbow		2	8	3	4						
	05.2A001	Manifold, Water Outlet											
	000931010292	BOLT, M10 X 110 8.8		4									
	000931010315	BOLT, M10 X 100		21									
	5242032001	MANIFOLD WAT RB FRONT S4000		1									
	5242032101	MANIFOLD WAT CENTER S4000		4									
	5242032201	MANIFOLD WAT RB REAR S4000		1									
	5242032301	MANIFOLD WAT LB FRONT S4000		1									
	5242032401	MANIFOLD WAT LB REAR S4000		1									
	5599920201	SPACER, 12MM X 20MM		1									
	735210014000	PLUG ASSY. M14 X 1.50 STL		2									
	05.2A035	Elbow, Water Outlet Manifold											
	5282030208			1									
	5282030308			1									
	05.2A041	Tube Assy., Water Manifold Vent											
	000125008427	WASHER A8.4 140HV DIN125					3						
	000125010524	WASHER A10.5					2						
	000908014001	PLUG, M14 X 1.5					5						
	000931006087	BOLT, M8 X 65 8.8-A					2						
	000931008209	BOLT, M8 X 95					3						
	000931010237	BOLT, M10 X 90					2						
	000933008103	BOLT, M8 X 80					2						
	000933008116	BOLT M8 X 28.8 LG					1						
	000933010095	BOLT, M10 X 50 8.8					5						
	000934006006	NUT, HEX M6					2						
	000934008008	NUT, HEX M8					4						
	007349008002	WASHER					4						
	007603014102	WASHER, A14 X 18 COPPER					17						
	007603018101	WASHER A18 X 22 COP DIN7603 M91CE S2000					2						
	007603018104	RING, SEALING A18 X 24					1						
	304017008083	BOLT, M8 1.25 X 30					16						
	304017008085	BOLT, M8 X 40 8.8					2						
	304017008086	BOLT, M8 X 45 8.8					3						
	5240780045	BLOCK, JUNCTION FUEL MONITOR HP PUMP					2						
	5249972672	ADAPTOR, 60 DEG					4						
	5282000258						1						
	5282000658						1						
	5511532050						3						
	5569970574	FITTING, TEE M14 X 1.5					3						
	5599900040	SPACER					2						
	5612033740						4						
	700223006000	BOLT, BANJO					1						
	700325012100	CLAMP, HALF TUBE					47						

				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
		05.2A Water Outlet Manifold and/or Elbow		2	2										
				8	8										
				3	4										
	05.2A041	Tube Assy., Water Manifold Vent													
	700325012104	CLAMP, HALF TUBE 2/1			4										
	700325012200	CLAMP, HALF TUBE			1										
	700327008000	GROMMET, M8			28										
	735038006103				1										
	735211010000	UNION			2										
	8202033143	STRAP 70			2										
	915001010004	NUT M18 X 1.5 5001 BL GEOELT M91CE S2000			2										
	915005010000	CONE, SEALING			2										
	915006006000	UNION			6										
	915006010002	UNION			2										
	915007010001	CONNECTOR 10/8			1										
	X00013039	BRACKET 227 X 192 53 X 6 S4000 GX3			1										
	X00013438	BRACKET BREATHER 233.5 X 6 S4000 GX3			1										
	X00015980	TUBE BREATHER 174.143 S4000 GX3			1										
	X00027615	TUBE BREATHER 730.761 S4000			1										
	X00027616	TUBE BREATHER 710.326 EXTENDED LENGTH S4000			1										
	X00027617	TUBE BREATHER 1244.673 S4000			1										
	X00027618	TUBE BREATHER 459.335 S4000 GX3			2										
	X00027619	TUBE BREATHER 348.979 S4000			1										
	X00030274	LINE VENT STEEL 453.387 LENGTH S4000			1										
	X00038101	BRACKET FLAT 100 X 20 X 5 S4000			5										
	X00038566	TUBE BREATHER 199.957 S4000			1										
	X00038568	TUBE BREATHER 585.538 S4000			1										
	X00038570	TUBE BREATHER 259.113 S4000			1										
	X00040132	BRACKET 50 X 5 S4000			1										
	X00040693	TUBE BREATHER 819.000 S4000			1										
	X00040695	TUBE BREATHER 713.759 S4000			1										
	X00040696	TUBE BREATHER 686.585 S4000			1										
	X00040697	TUBE BREATHER 1000.645 S4000			1										
	05.2A043	Seal, Water Outlet Manifold													
	700429024000	SEAL RING, 24 X 5		16											
	700429058002	O-RING 58 X 8 MMN 429		6											
	700429083000	SEAL RING, 83 X 5		2											
	700429085002	SEAL RING, 85 X 6		2											
	05.2A045	Tube, Water Outlet Manifold													
	000125010524	WASHER A10.5		4											
	000931010283	BOLT, M10 1.5 X 75		7											
	000933010094	BOLT, M10 X 40 8.8		4											

TYPES

		05.2B Thermostat														
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5 7 2	5 7 4	5 7 5	5 7 6									
	05.2B050	Thermostat Assy.														
	0052031575					2										
	0052031875	ACTUATOR	5													
	05.2B060	Seal, Thermostat														
	05132155	SEAL	5			2										
	05.2B070	Tube Assy., Water Pump Inlet														
	5282000151		2													
	5282030053		1													
	5282030153		1													
	05.2B090	Housing, Thermostat														
	000125013012	WASHER A13				1										
	000908014001	PLUG, M14 X 1.5	2													
	000908030002	PLUG SCREW M30 X 1.5 STL	1													
	000908064000		1													
	000931010229					2										
	000931010236	BOLT, M10 1.50 X 70	1													
	000931010237	BOLT, M10 X 90	1													
	000931010247	BOLT, M10 X 120	2													
	000931010296	BOLT M10 1.50 X 85 8.8 DBL8421 DIN 931				4										
	000931010332	BOLT, M10 X 150	2													
	007349008002	WASHER				3										
	007603014102	WASHER, A14 X 18 COPPER	2													
	007603030101	WASHER, A30 X 36 COPPER	1													
	007603064100		1													
	304017008090	BOLT, M8 X 20				3										
	5282000316		1													
	5282030273					1										
	5282030573					1										
	5319970832	PLUG, M22 X 1.5				1										
	735210014000	PLUG ASSY. M14 X 1.50 STL	2													
	05.2B092	Elbow, Thermostat Housing Outlet														
	000933010094	BOLT, M10 X 40 8.8				3										
	735210014000	PLUG ASSY. M14 X 1.50 STL				1										
	X00028045	ELBOW THERMOSTAT HSG 16V4000 C23				1										
	X00036954	ELBOW TWIN THERMOSTAT HSG S4000	1													
	05.2B097	GASKET, THERMOSTAT HOUSING WATER OUTLET														
	5272030080	GASKET				1										
	05.2B105	Hose, Thermostat Housing Water Outlet														
	000931012176	BOLT, M12 X 150 8.8				1										

				TYPES											
05.2B Thermostat				5	5	5	5								
				7	7	7	7								
				2	4	5	6								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.												
REF.			QTY.												
	05.2B105	Hose, Thermostat Housing Water Outlet													
	000933010116	BOLT, M10 X 45				4									
	207989018200					2									
	5249900812	BOLT, M16 X 2 X 319.0				2									
	5262003251	TUBE 178 16V4000 C23				2									
	5262030439	FLANGE WELDING-NECK 128 X 33 16V4000 C23				2									
	5282030653					1									
	X00020527	SPACER SLEEVE 85 X 30 X 17.5 ID S4000 GX3				2									
	05.2B110	Gasket, Thermostat Housing													
	700429070000	SEAL RING, 70 X 5		4		4									
	700429072000	SEAL RING, 72 X 3				1									
	700429076000	SEAL RING, 76 X 4				2									
	700429090000	O-RING 90 X 5 MMN 429 M91CE S2000		2											
	05.2B125	Connection, Heat Exchanger Inlet													
	000933010094	BOLT, M10 X 40 8.8		10											
	5242030139	FLANGE		3											
	5242032053	CONNECTOR, WATER TUBE 98 X 70		1											
	5282030039			2											
	700429085002	SEAL RING, 85 X 6		6											
	700429100000	O-RING, 100 X 5MMN429		3											
	05.2B155	Housing, Water Distribution													
	000000003324	BOLT M16 2.00 X 190 10.9 HEX ISO4017			6										
	000931012143	BOLT, M12 X 70 8.8			5										
	000931016125	BOLT, M16 X 180			6										
	000933012051	BOLT, M12 X 50 8.8			2										
	5242031452	RESTRICTOR M52 X 1.5 X 26 X 15 S4000					1								
	700429042000	SEAL RING, 42 X 5			1										
	700429055001	SEAL RING, 55 X 5			1										
	700429070000	SEAL RING, 70 X 5			1										
	700429083000	SEAL RING, 83 X 5			2										
	735210014000	PLUG ASSY. M14 X 1.50 STL			5										
	X00025020	HOUSING WATER DIST ASM 16V4000 C23			1										

TYPES

05.3B Water Connections

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6	6	1														
	05.3B329	Tube, Water Pump Inlet																		
	000000001039	BOLT M10 X 40 8.8 16V4000		4																
	5262003551	TUBE ASM 720 16V4000 C23		2																
	700429070000	SEAL RING, 70 X 5		4																
	700429076000	SEAL RING, 76 X 4		2																
	X00020130	TUBE ASM COOLANT FEED 1023.369 16V4000 GX3		1																
	X00020132	TUBE ASM COOLANT FEED 636.301 16V4000 GX3		1																
	05.3B335	Elbow, Water Pump Inlet																		
	000931010296	BOLT M10 1.50 X 85 8.8 DBL8421 DIN 931		4																
	700429076000	SEAL RING, 76 X 4		4																
	X00020454	ELBOW TWIN 275 X 143 16V4000 GX3		1																
	05.3B341	Clamp, Heat Exchanger to Water Pump Hose																		
	000000001039	BOLT M10 X 40 8.8 16V4000		4																
	000000001042	BOLT, M10 X 50		4																
	000931008209	BOLT, M8 X 95		12																
	007349008002	WASHER		12																
	304032008014	Nut, Hex M8		12																
	700346070101			6																
	700346070201	PIPE CLAMP H		6																
	X00038225	BRACKET COOLANT DUCTING S4000		2																
	05.3B446	Hose, Fresh Water Outlet																		
	X00020133	TUBE ASM COOLANT RETURN 969.617 16V4000 GX3		1																
	X00020135	TUBE ASM COOLANT RETURN 583.391 16V4000 GX3		1																

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

		TYPES										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.									
				8								
		06.1A Exhaust Manifold and/or Connections	6	4								
	06.1A001	Manifold, Exhaust		16								
	0001424957			64								
	08929357	BOLT, M10 X 1.5 X 120 (12.9001)		64								
	5241420553	SPACER EXH MANIF 81 X 22 S4000		2								
	X00004066	MANIFOLD EXHAUST 671.5 X 112.4 16V4000		2								
	X00004067	MANIFOLD EXHAUST CENTER 16V4000		2								
	X00004068	MANIFOLD EXHAUST 644.5 X 97.9 S4000		16								
	06.1A010	Gasket, Exhaust Manifold										
	5241420580	GASKET, EXHAUST MANIFOLD										

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES											
07.1A Battery Charging Generator				2											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6											
				9											
				0											
	07.1A001	Generator Assy.													
	X00005848	ALTERNATOR 24V100A AC 33SI FLG MT S4000		1											
	X00037545	SPACER SLEEVE 14X 20 S4000		1											
	07.1A005	Shield, Generator													
	000000001039	BOLT M10 X 40 8.8 16V4000		1											
	000912010016			3											
	000912010064	SCREW, M10 1.50 X 40 8.8 HEX		1											
	000934010005	NUT		3											
	007349010002	WASHER, 10.5 STL		3											
	200433010501	WASHER, 10.5 300HV, DIN433		4											
	X00037749	GUARD ALTERNATOR PULLEY A-BANK S4000		1											
	07.1A500	Pulley, Generator													
	5241550015	PULLEY, ALTERNATOR 12-16V		1											
	07.1A507	Drive Assy., Generator													
	000933012071	BOLT, M12 X 40		3											
	EX00031687	EXCHG DRIVE ASM ACCESSORY ALTERNATOR S4000		1											
	X00031687	DRIVE ASM; USE: EX00031687		NS											
	07.1A508	Gasket, Generator Drive													
	700429135000	SEAL RING, 135 X 5		1											
	07.1A512	Support, Generator Drive Gear													
	000933012093	BOLT, M12 X 45 8.8		3											
	735151012100	WASHER, A12.5		6											
	X00041634	BRACKET FOR ALTERNATOR MOUNTING S4000		1											
	07.1A575	Belt, Generator Drive													
	X00042954			1											
	07.1A595	Bracket, Generator Mounting													
	000933012101			4											
	735151012100	WASHER, A12.5		4											
	X52721300003			1											
	07.1A596	Support, Generator Bracket													
	000934012008	NUT, HEX M12		1											
	5249901040	WASHER A13.3 ID X 26 OD X 6.5		1											
	5249901140	WASHER A13.3 ID X 26 OD X 11		1											
	5249903101	BOLT SPL M13 1.75 X 147 TO M12 1.75 X 36		1											
	X00020941	BRACKET 50 X 12 S4000		1											
	X00037153	BOLT 1/2-13 X 5 8.8 2A S4000		1											
	X00037178	NUT 1/2-13 HEX M8 S4000		1											
	X00037544	BRACKET 55 X 12 S4000		1											
	07.1A900	Tensioner Assy., Generator Drive													

07.1A Battery Charging Generator

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

				TYPES											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.												
				4											
		07.3A Starting Motor	1	6											
	07.3A001	Motor Assy., Starting													
	000912016002	BOLT, M16 X 40		6											
	EX00001906	EXCHG STARTER RT SIDE 24V ELEC 12/16V4000		1											
	EX00001910	EXCHG STARTER LT SIDE 24V ELEC 8VS4000		1											
	X00001906	STARTER RT SIDE 24V ELEC 12/16V4000; USE: EX00001906		NS											
	X00001910	STARTER LT SIDE 24V ELEC 8V4000; USE: EX00001910		NS											

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES											
11.1A Engine Mounting and Base				9											
				5											
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	4											
REF.			QTY.												
11.1A075		Bracket, Engine Support													
	000125010524	WASHER A10.5		8											
	000933010180	BOLT,M10 X 28 8.8		8											
	200433021000	WASHER 21 DIN433 S4000 M90CE		16											
	200933020004	BOLT, M20 X 200		16											
11.1A090		Support, Engine Front Trunnion Mounting													
	000007016104	PIN, DOWEL SOLID 6M X 32		8											
	700429192000	SEAL RING, 192 X 4		4											
11.1A100		Support/Bracket, Engine Rear													
	5242370202	BRACKET, ENGINE MTG		4											

- 01 Engine (Less Major Assemblies)**
 - 01.1 Cylinder Block
 - 01.2 Cylinder Head
 - 01.2A Engine Lifter Bracket
 - 01.3 Crankshaft, Oil Seals and Stabilizers
 - 01.3A Crankshaft Front Cover
 - 01.3B Vibration Damper
 - 01.3C Crankshaft Pulley
 - 01.4A Flywheel
 - 01.5A Flywheel, Housing
 - 01.6 Connecting Rod and Piston
 - 01.7 Camshaft and Gear Train
 - 01.7B Accessory Drive
 - 01.8 Valve and Injector Operating Mechanism
 - 01.8A Rocker Cover
- 02 Fuel System**
 - 02.1A Fuel Injector/CNG Controls
 - 02.1B Injector, Controls Electronic
 - 02.2 Fuel Pump
 - 02.3A Fuel Filter and Strainer
 - 02.5A Fuel Lines and Fuel Cooler
- 03 Air System**
 - 03.1A Air Cleaner and/or Adaptor
 - 03.3C Air Intake Manifold
 - 03.5A Turbocharger, Intercooler and Aftercooler
 - 03.7 Intercooler/Aftercooler
- 04 Lubricating System**
 - 04.1A Oil Pump
 - 04.1B Oil Distribution System
 - 04.1D Oil Engine Prelube
 - 04.2A Oil Filter
 - 04.3A Oil Filter Lines
 - 04.4A Oil Cooler and Marine Gear Lines
 - 04.6A Dipstick
 - 04.7A Oil Pan
 - 04.8A Ventilating System
- 05 Cooling System**
 - 05.1 Fresh Water Pump
 - 05.2A Water Outlet Manifold and/or Elbow
 - 05.2B Thermostat
 - 05.3B Water Connections
- 06 Exhaust System**
 - 06.1A Exhaust Manifold and/or Connections
- 07 Electrical Instruments**
 - 07.1A Battery Charging Generator
 - 07.3A Starting Motor
- 11 Engine Mounting**
 - 11.1A Engine Mounting and Base
- 12 Miscellaneous**
 - 12.6C Cold Weather Starting Aid
 - 12.8A Supplies/Maintenance Products
 - 12.8D Miscellaneous Service Parts

				TYPES											
12.6C Cold Weather Starting Aid				1											
				4											
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2											
12.6C408		Tube, Water Heater Outlet													
	000912016004	SCREW M16 2.00 X 45 8.8 HEX SOC HD DIN912 DBL9400		2											
	000934008008	NUT, HEX M8		2											
	007349008002	WASHER		2											
	304017008087	BOLT, M8 X 50 8.8		2											
	5242002052	TUBE COOLANT DRAIN RB TOP TO FLYWHEEL HSG		1											
	5242002352	TUBE COOLANT DRAIN LB TOP TO FLYWHEEL HSG		1											
	700325022100	CLAMP, HALF TUBE 1/1 D9 - 22 MM		4											
	700327018000	GROMMET, M18		2											
	915001016004	NUT, M26 X 1.5		2											
	915001020003	NUT, 20 M30 X 15		2											
	915005016002	SEALING CONE		2											
	915005020001	CAP, SEAL (22)		2											
	X52420200016			2											

12.8A Supplies/Maintenance Products

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

				TYPES									
12.8A Supplies/Maintenance Products				A									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
12.8A006 Fuel System Products													
	WEB31	REFILL ALGAE-X WATER ELIMINATOR STORAGE	AR										
	WES31	WATER ELIMINATOR ALGAE-X STORAGE TANK MODEL	AR										
12.8A025 Oil, Engine Lubricating													
	23520323	1 GAL. POWER GUARD GOLD SAE 40 SYNTHETIC(CLOSED CRANKCASE APPLICATIONS)	AR										
	23520324	5 GAL. POWER GUARD GOLD SAE 40 SYNTHETIC(CLOSED CRANKCASE APPLICATIONS)	AR										
12.8A070 Hand Cleaners													
	23523182	HAND CLEANER FAST ORANGE SMOOTH LOTION 15OZ BOTTLE	AR										
	23523183	HAND CLEANER FAST ORANGE SMOOTH LOTION 1GAL BOTTLE	AR										
	23523184	HAND CLEANER FAST ORANGE PUMICE LOTION 1GAL BOTTLE	AR										
	23523185	HAND CLEANER FAST ORANGE PUMICE LOTION 15OZ BOTTLE	AR										
	23523186	HAND CLEANER TROUNCE LOTION 1GAL BOTTLE	AR										
	23523187	HAND CLEANER TROUNCE LOTION 15OZ BOTTLE	AR										
	23523223	BRACKET, WALL MOUNT 1GAL PUMP BOTTLE	AR										
	23530013	HAND CLEANER FAST ORANGE PUMICE 1 GAL(FOR SHOP STYLE DISPENSER); USE: 23523184	NS										
	23530014	HAND CLEANER FAST ORANGE SMOOTH LOTION 1 GAL(FOR SHOP STYLE DISPENSER)	AR										
	23530015	DISPENSER, FAST ORANGE HAND CLEANER(SHOP STYLE); USE: 95140	NS										
	95140	DISPENSER	AR										
12.8A110 Lubricating Compound Thread													
	23528757	SUPER LUBE SYNTHETIC BASED LUBRICANT W/PTFE GREASE; USE: 81944	NS										
	81944	SUPER LUBE	AR										
12.8A255 Sealant, Rtv													
	23528756	HI-TACK GASKET SEALANT (16OZ BRUSH TOP CAN)	AR										
12.8A260 Coolant and Additives													
	23522127	POWER COOL PLUS 6000 FOR MARINE/OTHER WATER ONLYSYSTEMS 1 GAL; USE: 23533526	NS										
	23522128	POWER COOL PLUS 6000 FOR MARINE/OTHER WATER ONLYSYSTEMS 5 GAL; USE: 23533527	NS										
	23533526	COOLANT POWER COOL OFF HIGHWAY 6000 CONCENTRATE GA	AR										
	23533527	COOLANT POWER COOL OFF HIGHWAY 6000 CONCENTRATE PA	AR										
12.8A290 Kit, Coolant Analysis													
	23523398	KIT, ORGANIC COOLANT ANALYSIS (10 BOTTLES)	AR										
12.8A291 Kit, Oil Analysis													
	23520989	KIT, POWER TRAC LUBE OIL ANALYSIS W/TOTAL BASENUMBER	AR										
12.8A300 Panel, Instrument													
	23513217	BRACKET, 2-HOLE MOUNTING RUBBER(7.4005)	AR										
	23513680	GAGE PANEL, INSTRUMENT CONTROL BLANK(7.4005)	AR										

12.8A Supplies/Maintenance Products

All information subject to change without notice.
5272002445 0703 © 2007 DETROIT DIESEL CORPORATION

				TYPES									
12.8A Supplies/Maintenance Products				A									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.										
	12.8A330	Gage, Oil Pressure - Engine											
	23519798	GAGE, OIL PRESSURE 100 PSI 12V 10-180 OHM BLACK(USE SENDER 23519826) (7.4070); USE: 350010003C	NS										
	23519799	GAGE, OIL PRESSURE 150 PSI 12V 10-180 OHM BLACK(USE SENDER 23519827) (7.4070); USE: 350010002C	NS										
	23519826	SENDER,OIL PRESSURE 100PSI,1/8-27NPT STANDARD GRD.(7.4070)	AR										
	23519827	SENDER,OIL PRESSURE 150PSI,1/8-27NPT, STANDARD GRD(7.4070)	AR										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR										
	23520721	GAGE, OIL PRESSURE 150 PSI MECHANICAL CHROME(7.4070)	AR										
	23520731	GAGE, OIL PRESSURE 100 PSI MECHANICAL CHROME(7.4070)	AR										
	23520744	GAGE, OIL PRESSURE 80 PSI 12V 0-90 OHM CHROME(USE SENDER 23511477,23512594,23512979,23513978)	AR										
	23530341	GAGE, OIL PRESSURE 150PSI BLACK BEZEL	AR										
	350010002C	GAUGE ASM OIL PRESSURE 150 PSI 12V 10-180 OHM	AR										
	350010003C	GAUGE ASM OIL PRESSURE 100 PSI 12V 10-180 OHM	AR										
	12.8A335	Gage, Oil Pressure - Transmission											
	23511617	SENDER, TRANS PRESSURE 400 PSI 1/8"-27 STD GRD(7.4071)	AR										
	23513980	SENDER, TRANS PRESSURE 400PSI 1/8"-27 FLOATING GRD(7.4071)	AR										
	23513981	SENDER, TRANS PRESSURE 400PSI 1/8"-27 DUAL STATION(7.4071)	AR										
	23519794	GAGE, TRANS PRESSURE 400 PSI MECHANICAL BLACK(7.4071)	AR										
	23519800	GAGE, TRANS PRESSURE 400 PSI 12V BLACK(USE SENDER 23511617,23513980 OR 23513981) 7.407; USE: 23531199	NS										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR										
	23520730	GAGE, TRANS PRESSURE 400 PSI MECHANICAL CHROME(7.4071)	AR										
	23520746	GAGE, TRANS PRESSURE 400 PSI 12V CHROME(USE SENDER 23511617,23513980 OR 23513981) 7.407	AR										
	23531199	GAUGE ASM TRANS PRESSURE 12V	AR										
	12.8A340	Gage, Oil Temperature											
	23519787	GAGE, OIL TEMP 340F 72" CAPILLARY MECHANICAL BLACK(7.4077)	AR										
	23519788	GAGE, OIL TEMP 340F 96" CAPILLARY MECHANICAL BLACK(7.4077)	AR										
	23519789	GAGE,OIL TEMP 340F 144" CAPILLARY MECHANICAL BLACK(7.4077)	AR										
	23519797	GAGE, OIL TEMP 300F, 12V(USE SENDER 23519824 OR 23519825) (7.4077); USE: 310010007C	NS										
	23519824	SENDER,OIL TEMP. 300DEG1/4-18NPT, STANDARD GROUND(7.4077)	AR										
	23519825	SENDER,OIL TEMP, 300DEG1/2-14NPT, STANDARD GROUND(7.4077)	AR										
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE	AR										
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE	AR										
	23520734	GAGE, OIL TEMP 340F 48" CAPILLARY MECH CHROME(7.4077)	AR										
	23520735	GAGE, OIL TEMP 340F 72" CAPILLARY MECH CHROME(7.4077)	AR										

TYPES

12.8A Supplies/Maintenance Products

FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.
12.8A340			
	23520736	GAGE, OIL TEMP 340F 180" CAPILLARY MECH CHROME(7.4077)	AR
	23520737	GAGE, OIL TEMP 340F 360" CAPILLARY MECH CHROME(7.4077)	AR
	310010007C	GAUGE ASSY. OIL TEMP 300F 12V US STANDARD	AR
12.8A345			
	23511301	SENDER,TEMP 250DEG,3/8"-18NPT, DUAL STATION(7.4080)	AR
	23511303	SENDER,TEMP 250DEG, 1/2"-14NPT, STANDARD GROUND(7.4080)	AR
	23513982	SENDER, TEMP 250 DEG 1/4"-18 FLOATING GROUND(7.4080)	AR
	23513983	SENDER, TEMP 250 DEG 1/4"-18 DUAL STATION FLT GRD(7.4080)	AR
	23519779	GAGE, WATER TEMP 265F, 18" CAPILLARY(7.4080)	AR
	23519780	GAGE, WATER TEMP 265F, 30" CAPILLARY(7.4080)	AR
	23519781	GAGE, WATER TEMP 265F, 48" CAPILLARY(7.4080)	AR
	23519782	GAGE, WATER TEMP 265F, 72" CAPILLARY(7.4080)	AR
	23519783	GAGE, WATER TEMP 265F, 96" CAPILLARY(7.4080)	AR
	23519784	GAGE, WATER TEMP 265F, 144" CAPILLARY(7.4080)	AR
	23519785	GAGE, WATER TEMP 265F, 180" CAPILLARY(7.4080)	AR
	23519786	GAGE, WATER TEMP 265F, 372" CAPILLARY(7.4080)	AR
	23519795	GAGE, WATER TEMP 220F 12V US OHM RANGE(7.4080)	AR
	23519796	GAGE, WATER TEMP 250F, 12VUSE SENDER 23511301,1303,3982,3983 OR 9823 7.40; USE: 23530340	NS
	23519823	SENDER,TEMP. 250DEG3/8"-18NPT STANDARD GROUND(7.4080)	AR
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE	AR
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE	AR
	23520701	GAGE, WATER TEMP 265F, 180" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520722	GAGE, WATER TEMP 265F, 18" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520724	GAGE, WATER TEMP 265F, 30" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520725	GAGE, WATER TEMP 265F, 48" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520726	GAGE, WATER TEMP 265F, 72" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520727	GAGE, WATER TEMP 265F, 120" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520738	GAGE, WATER TEMP 265F, 144" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520739	GAGE, WATER TEMP 265F, 372" CAPILLARYMECHANICAL CHROME (7.4080)	AR
	23520740	GAGE, WATER TEMP 250F, 12V(7.4080)	AR
	23520742	GAGE, WATER TEMP 250F, 32V RESISTOR KIT(7.4080)	AR
	23530340	GAGE, WATER TEMP 250F 12V BLACK BEZEL; USE: 310010006C	NS
	310010006C	GAGE ASSY. WATER TEMP 250F 12V BLK BEZEL	AR
12.8A350			
	23519806	GAGE, FUEL 0-90 OHM CHROME(USE SENDER 23519816) (7.4086)	AR

				TYPES										
12.8A Supplies/Maintenance Products				A										
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
12.8A350 Gage, Fuel Volume														
	23519807	GAGE, FUEL 10-180 OHM CHROME(USE SENDER 23519817) (7.4086)	AR											
	23519808	GAGE, FUEL 240-33 OHM CHROME(USE SENDER 23519818) (7.4086)	AR											
	23519809	GAGE, FUEL 0-90 OHM BLACK(USE SENDER 23519816) (7.4086)	AR											
	23519810	GAGE, FUEL 10-180 OHM BLACK(USE SENDER 23519817) (7.4086)	AR											
	23519811	GAGE, FUEL 240-33 OHM BLACK(USE SENDER 23519818) (7.4086)	AR											
	23519816	SENDER,FUEL 6-23" ADJUSTABLE 0-90 OHMS(7.4086)	AR											
	23519817	SENDER,FUEL 6-23" ADJUSTABLE 10-180 OHMS(7.4086)	AR											
	23519818	SENDER,FUEL 6-23" ADJUSTABLE 240-33 OHMS(7.4086)	AR											
12.8A360 Lamp, Instrument Panel														
	23519828	BULB,TYPE C 2W(7.4100)	AR											
	23519838	BULB,TYPE T-3 1/4, 2.7W WEDGE BASE(7.4100)	AR											
	23519840	BULB,TYPE T-3 1/4, 3.4W WEDGE BASE(7.4100)	AR											
12.8A365 Socket, Lamp Instrument Panel														
	08920580	SOCKET, BULB TYPE A(7.4105)	AR											
	23519839	SOCKET, BULB T-3 1/4 WEDGE BASE(7.4105)	AR											
	23519841	SOCKET, BULB TYPE C(7.4105)	AR											
12.8A370 Gage, Hour Meter														
	1763018019C	METER ASSY., HOUR QUARTZ 9-28V NON-ILLUMINATED BLK	NS											
	23519812	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED CHROME(7.4118)	AR											
	23519813	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED BLACK(7.4118); USE: 1763018019C	NS											
	23519814	METER, HOUR QUARTZ 9-28V, WATERPROOF(7.4118); USE: 23530343	NS											
	23519815	METER, HOUR QUARTZ MINIMETER 9-28V NON ILLUMINATED(7.4118)	AR											
	23530343	GAGE, HOURMETER 12V BLACK BEZEL	AR											
	331953	HR METER QTZ	AR											
12.8A375 Gage, Turbo Boost														
	23519832	GAGE, TURBO BOOST 0-30 PSI(7.4160)	AR											
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR											
	23519842	GAGE, TURBO BOOST 0-30 PSI BLACK(7.4160)	AR											
12.8A380 Gage, Voltmeter														
	23519801	GAGE, VOLTMETER 8-16V CHROME(7.4170)	AR											
	23519802	GAGE, VOLTMETER 8-16V BLACK(7.4170); USE: 332010002C	NS											
	23530342	GAGE, VOLTMETER 12V BLACK BEZEL	AR											
	332010002C	GAUGE ASM VOLTMETER 8-16 VOLT BLACK	AR											
12.8A385 Gage, Speedometer														
	06469745	KEY, .152" SPEEDO/TACH GENERATOR(FOR USE WITH 23519821 OR 23520374)	AR											

TYPES

12.8A Supplies/Maintenance Products

FIG
REF.

PART NO.

NAME AND DESCRIPTION

ASSY.
QTY.

12.8A385

Gage, Speedometer

06469746

KEY, .187" SPEEDO/TACH GENERATOR(FOR USE
WITH 23519821 OR 23520374)

AR

23519773

GAGE, SPEEDO 0-85 MPH PROGRAMABLE
W/TRIP(7.4180)

AR

23519819

GAGE, SPEEDO/TACH MAGNETIC PICK UP 3.5"L.
3/4"-16(7.4180)

AR

23519820

SENDER, SPEEDO/TACH HALL EFFECT
7/8"-18(7.4180)

AR

23519821

SENDER, SPEEDO/TACH GENERATOR
7/8"-18(7.4180)

AR

23520374

SENDER, SPEEDO/TACH GENERATOR 7/8"-18 ODO
TERM(7.4180)

AR

					TYPES									
12.8D Miscellaneous Service Parts					A									
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.											
12.8D802														
		Miscellaneous Service Parts/Kits												
		Section 2 Fuel System/Electronic												
		Controls												
	23528559	HARNESS IRIS MOBILE SERVICE INTERFACE 5FT(02.1903)	AR											
	23528561	HARNESS IRIS MOBILE STANDARD HARNESS 8FT(02.1903)	AR											
	23528563	IRIS MOBILE SERVICE KIT(FOR A TEMPORARY IRIS INSTALLATION ON THE VEHICLE); USE: 23530734	NS											
	23528564	IRIS MOBILE RETROFIT KIT(FOR PERMANENT IRIS INSTALLATION ON THE VEHICLE); USE: 23530733	NS											
	23528630	IRIS BASE ADAPTOR KIT(CUSTOMERS WHO ALREADY HAVE A DDEC TRANSLATOR); USE: 23530730	NS											
	23528631	HARNESS IRIS BASE COMMUNICATION (02.1903)	AR											
	23528633	PC EXTRACTION KIT(CUSTOMERS WHO DO NOT HAVE DDEC TRANSLATOR); USE: 23530731	NS											
	23528634	IRIS RDI ADAPTER KIT CONNECTION TO VEHICLE WIRELESS FOR RDI USERS; USE: 23530732	NS											
	23528917	HARNESS IRIS COMMUNICATION 100FT(02.1903)	AR											
	23530730	KIT, IRIS 1 BOX BASE ADAPTER	AR											
	23530731	KIT, IRIS 1 BOX PC EXTRACTION	AR											
	23530732	KIT, IRIS 1 BOX RDI ADAPTER	AR											
	23530733	KIT IRIS 1 BOX MOBILE RETROFIT	AR											
	23530734	KIT, IRIS 1 BOX MOBILE SERVICE	AR											
12.8D803														
		Miscellaneous Service Parts/Kits												
		Section 3 Air System												
	23540169	KIT, CHARGE AIR SYSTEM W/60 HZ TURBO C&I 16V4000; USE: R23540169	NS											
	23540170	KIT, CHARGE AIR SYSTEM W/50HZ TURBO 16V4000	AR											
	23540171	KIT, CHARGE AIR SYSTEM W/60HZ TURBO C&I 12V4000; USE: R23540171	NS											
	23540172	KIT, CHARGE AIR SYSTEM W/50HZ TURBO 12V4000; USE: R23540172	NS											
	R23540169	KIT, CHARGE AIR SYSTEM W/60 HZ TURBO C&I	AR											
	R23540171	KIT, CHARGE AIR SYS 60HZ/C&I 12V4000 REMAN	AR											
	R23540172	KIT, CHARGE AIR SYS 50HZ 12V4000 REMAN	AR											
12.8D807														
		Miscellaneous Service Parts/Kits												
		Electrical Instruments												
	102882	KIT PLUMBING S4000 MARINE (07.3001)	AR											
	102947	KIT ELECTRICAL S4000 (07.3001)	AR											
	199627	KIT COMPL S4000 MARINE (07.3001)	AR											
	199636	KIT COMPL S4000 MARINE W/O OIL EVAC 24V (07.3001)	AR											
	23524589	BRACKET MOUNTING KIT MG61242-00-SC (12.8809)	AR											
	23524590	BRACKET MOUNTING KIT S4000 MARINE (12.8809)	AR											
	23540177	KIT, BREATHER ASSY. SERVICE 12V/16V4000 C&I; USE: 23540907	NS											
	23540393	KIT ALTERNATOR BELT GUARD S4000 (07.1585)B-BANK NIEHOFF ALTERNATOR	AR											
	23540907	KIT, BREATHER CYLINDER BLOCK ACCESS COVER	AR											

Tognum Group Companies

Europe / Middle East / Africa / Latin America

MTU Friedrichshafen GmbH
88040 Friedrichshafen
Germany

Phone +49 7541 90 7001
Fax +49 7541 90 7081
Regionalcenter1@mtu-online.com
www.mtu-online.com

Asia / Australia / Pacific

MTU Asia Pte. Ltd.
1, Benoi Place
Singapore 629923,
Republic of Singapore
Phone +65 6861 5922
Fax +65 6861 3615
Regionalcenter2@mtu-online.com
www.mtu-friedrichshafen.com.sg

USA / Canada / Mexico

MTU Detroit Diesel
13400 Outer Drive, West
Detroit, Michigan 48239-4001, USA

Phone +1 313 592 7000
Fax +1 313 592 3883
Regionalcenter3@mtu-online.com
www.mtudetroitdiesel.com

Subject to change due to technical advances.

Custom Parts Catalog ©2006 MTU Detroit Diesel. All rights reserved.