

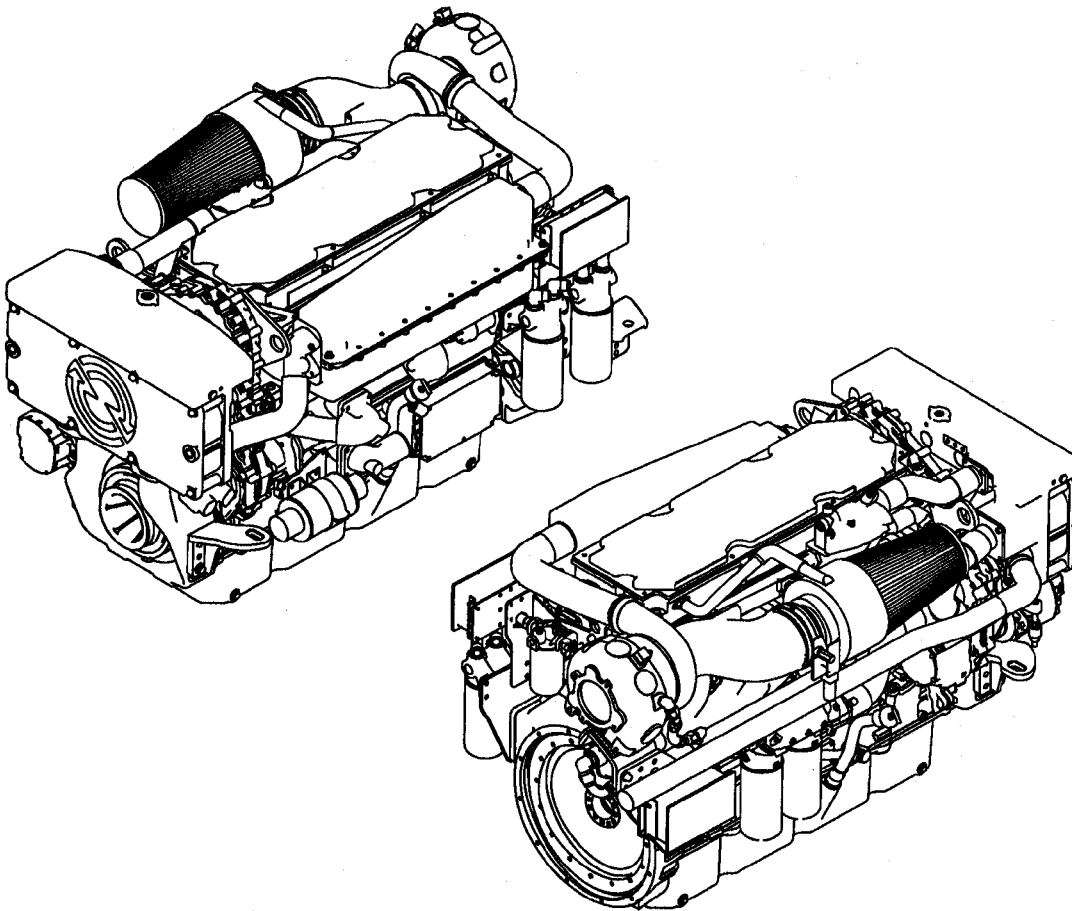
TM 55-1945-222-14&P-3

TECHNICAL MANUAL

**OPERATOR, UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST
FOR**

DIESEL ENGINE (DETROIT DIESEL) DDC MODEL 60 SERIES

NSN 2815-01-505-2025



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**IDENTIFYING TECHNICAL PUBLICATION SHEET
FOR
ENGINE, DIESEL (DETROIT DIESEL)**

1. **PURPOSE:** This technical publication is issued to identify and authorize the following commercial manual for Army use.

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CAGEC (3B518)
PURCHASE ORDER OR CONTRACT NUMBER: DAAE 07-01-D-T026
EQUIPMENT: Engine, Diesel, DDC Model 60 Series
TITLE: Operator, Unit, Direct Support and General Support Maintenance Manual (Including Repair Parts and Special Tool List)
DATE: 15 May 2004

2. **ADDITIONAL COPIES:** Additional copies are available from U.S. Army Publishing Agency.
3. **FILE LOCATION:** The above described commercial manual is filed in _____.
(Each library will fill this in if this identifying technical publication sheet is filed separately from the commercial manual.)
4. **AUTHORITY NOTICE AND DISTRIBUTION STATEMENT:** Published Under Authority of the Secretary of the Army. Distribution Statement A - Approved for public release; distribution is unlimited.

SUPPLEMENTAL DATA

1. **LIST OF AFFECTED PAGES IN BASIC MANUAL.** This list will identify pages by number, and date thereon that have been deleted and added by incorporating supplemental data.
2. **SUPPLEMENTARY INFORMATION.** The information contained in the above identified commercial manual is supplemented as follows:
 - a. Identifying Technical Publication Sheet.
 - b. Front Manual Cover.
 - c. Title Block Page.
 - d. List of Effective Pages.
 - e. Table of Contents.
 - f. Chapter Identification Pages.
 - g. Maintenance Allocation Chart (MAC) Introduction.
 - h. Maintenance Allocation Chart (MAC).
 - i. Maintenance Allocation Chart (MAC) Remarks.
 - j. Maintenance Allocation Chart (MAC) Tools and Test Equipment.
 - k. Repair Parts List.
 - l. DA Form 2028.
 - m. Metric Conversion Chart.

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 15 JUNE 2005

TECHNICAL MANUAL

**OPERATOR, UNIT, DIRECT SUPPORT AND
GENERAL SUPPORT REPAIR PARTS AND SPECIAL TOOLS LIST
FOR**

**DIESEL ENGINE (DETROIT DIESEL)
DDC MODEL 60 SERIES
NSN 2815-01-505-2025**

REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this publication. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Submit your DA Form 2028 (Recommended Changes to Equipment Technical Publications), through the Internet, on the Army Electronic Product Support (AEPS) website. The Internet address is <http://aeprs.ria.army.mil>. If you need a password, scroll down and click on "ACCESS REQUEST FORM". The DA Form 2028 is located in the ONLINE FORMS PROCESSING section of the AEPS. Fill out the form and click on SUBMIT. Using this form on the AEPS will enable us to respond quicker to your comments and better manage the DA Form 2028 program. You may also mail, fax or email your letter or DA Form 2028 direct to: AMSTA-LC-CI / TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630. The email address is TACOM-TECH-PUBS@ria.army.mil. The fax number is DSN 793-0726 or Commercial (309) 782-0726.

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NOTE - THIS MANUAL IS PRINTED IN THREE VOLUMES AS FOLLOWS:

TM 55-1945-222-14&P-1, consisting of: Table of Contents and Maintenance Sections 1 and 2.

TM 55-1945-222-14&P-2, consisting of: Table of Contents, Maintenance Sections 3 through 29, and Supplemental Maintenance Information.

TM 55-1945-222-14&P-3, consisting of: Table of Contents, Repair Parts and Special Tools Lists, Custom Parts Catalog, Drawings, and Supplemental Parts Data.

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DETROIT DIESEL COVER PAGE

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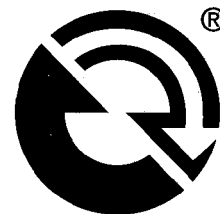
REPAIR PARTS AND SPECIAL TOOLS LIST FOR DIESEL ENGINE (DETROIT DIESEL)

SECTION 1

REPAIR PARTS
FOR
DIESEL ENGINE (DETROIT DIESEL)

DETROIT DIESEL

SERIES 60[®]



General Information - Section 1

6SP161 DECEMBER 1999

SERIES 60®

Parts Catalog

Detroit Diesel® Series 60 Diesel and Natural Gas-Fueled Engines

DETROIT DIESEL
CORPORATION



Detroit Diesel Corporation
13400 Outer Drive, West / Detroit, Michigan 48239-4001
Telephone: 313-592-5000
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NOTE:

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

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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

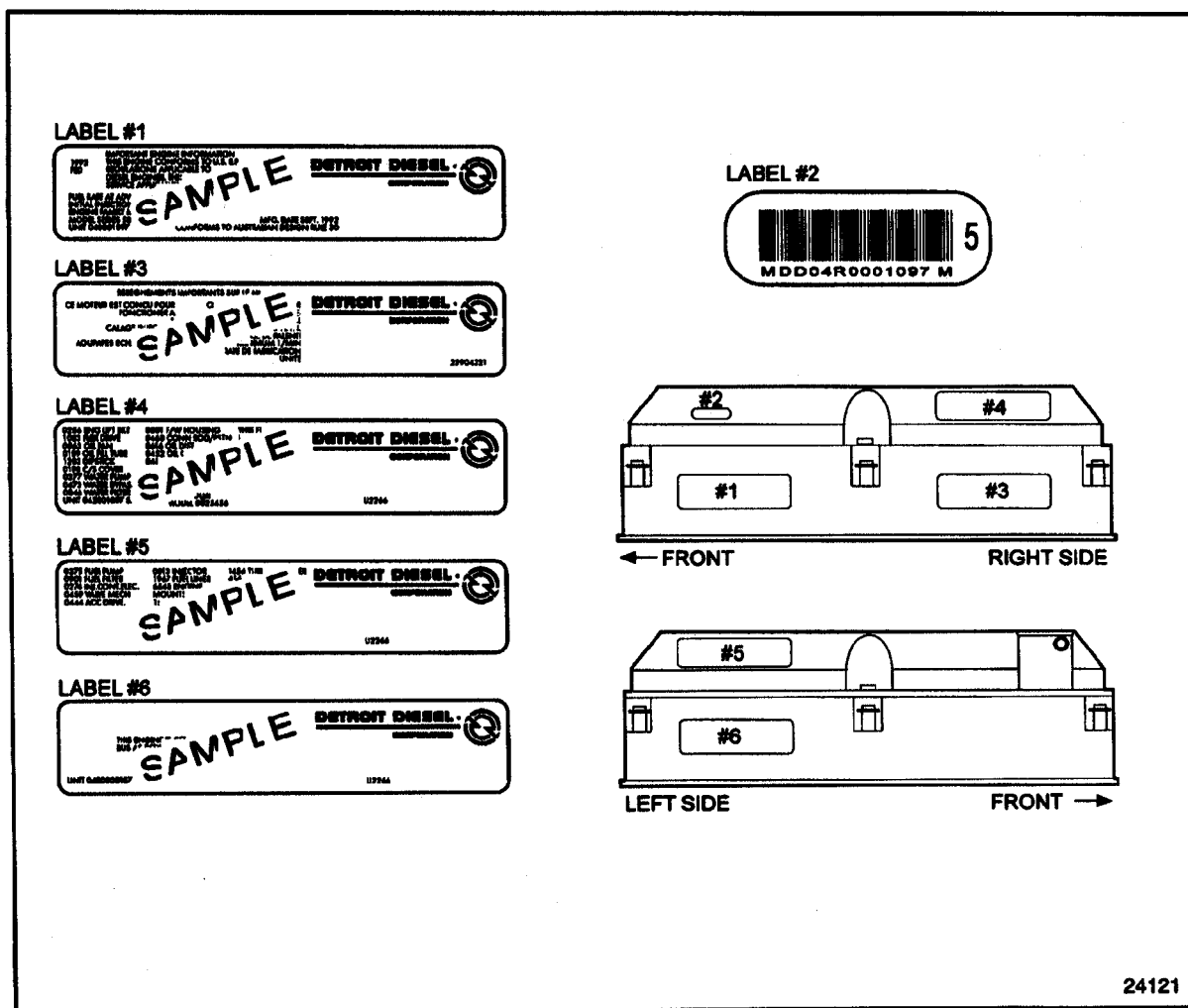
IMPORTANT ENGINE INFORMATION

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

This catalog contains Detroit Diesel remanufactured parts. They can be easily identified by an "R" in front of the part number (R2352XXXX) or by an (R) in front of the part description (R)Turbocharger").

All engine components in this catalog are divided into twelve major categories of functionally related parts. A listing of their sub-groups appears under "group Nomenclature" section.

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



Each Engine Model is provided with a Model Index, showing Standard type numbers currently available on the model. An asterisk indicates standard option types (*). Standard option and all optional type numbers are listed on the engine Option Label, as shown in the illustration below.

The names and type numbers of optional equipment built into the unit at the factory are listed on this label, along with the unit model, serial number and customer specification number (if any). Material not listed on the Option Label is standard equipment and the type number is obtained from the model index (copies of the information on the Option Label Work Sheet are furnished to distributors for their files).

To locate a part, first, establish the group where the part is used (see the Alphabetical Index or Group Nomenclature page), then, determine the type number for the group from either the Option Label or the Model Index. With this information, turn to the proper category and locate the type number at the top of the page. All parts applicable to the type are indicated by the quantity indicated in the column. An AR in this column indicates an "as required" an OBS in this column indicates the part is obsolete, an NS in this column indicates the part is "not serviced" and the replacement part will be indicated by a quantity in the column. If an X is shown in the column there will be a note in the description field with an instruction.

EXAMPLE:

For purposes of illustration, a model 6067GU60 unit will be used. The following examples cover the steps to be followed:

1. To determine the number of the crankshaft, refer to the Option Label and note there is no reference to it, indicating it is standard equipment. Next turn to the Model Index and establish that the crankshaft is type 106 in group 1.3000. Turn to group 1.3000 and locate type 106 at the top of the page. All items with a quantity in this column apply to this unit. In sub-group 1.3001 crankshaft assy., the quantity in type 106 column shows the crankshaft to be part number 892939.
2. To determine the proper crankshaft pulley for this unit again refer to the Option Label and note that crankshaft pulley type number is 471, consult the group nomenclature page to establish that crankshaft pulley is 1.3000C. Now turn to group 1.3000C and find type 471 at sub-group 1.3280 shows crankshaft pulley to be part number 23514252.

ASSEMBLY BREAKDOWN

The Assembly Breakdown section is designed to eliminate repeating components of assemblies and sub-assemblies. When the Assembly Breakdown is used it is always found at the end of the group it pertains to. The pages are numbered with an alphabetical prefix. Assemblies which make use of the Assembly Breakdown will have an alpha/numeric page designator to the right of the description. The part number will appear in the first group of the Assembly Breakdown showing the quantity used in one of the alphabetically designated columns. All other items appearing in that column are components of the assembly.

ALPHABETICAL INDEX

The Alphabetical Index is particularly helpful when only a part name is known and the 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 group location. Component parts of assemblies are not listed since they will appear in the body of the book immediately following the assembly to which they belong.

PARTS RELEASE

Paper parts catalogs and Microfiche are issued periodically to keep this catalog up-to-date. The paper parts catalog and Microfiche will contain revision dates to insure the most current publications. Detroit Diesel customers can also take advantage of the service parts CD-ROM Power Service Parts, as well, as the Serial Number based Custom Parts Catalog. For more information contact your Detroit Diesel Distributor.

MISCELLANEOUS

At the beginning of each of the sections of this catalog there are several pages of illustrations. In each section of the parts list figure numbers refer to illustrations within that section only (unless otherwise noted). In the majority of the cases. Illustrations are typical; that is, they may represent more than one part number. For example, in the case of the flywheel housing, figure 1 of section 1.5000A, a single housing is shown to represent all housings. Key numbers on the illustrations are final group numbers.

In many instances, a part has more than one application. Whenever a part appears in its second or third application, the basic group is shown in parentheses following the description.

Unless otherwise specified, standard bolts in the parts list are hexagon head. Other standard parts are described in detail.

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 notification.

**YOUR PARTS ORDER
WILL BE HANDLED MORE
EFFICIENTLY IF YOU –**

1. Provide the following information for material ordering:
 - [a] Group in parts book in which it is specified
 - [b] Quantity desired
 - [c] Part Number
 - [d] Complete Nomenclature
 - [e] The Type number for the model concerned
 - [f] Complete unit model identification and serial number
 - [g] "TYPE" rather than "WRITE" the above information
2. Furnish complete shipping instructions. 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 marking any such orders "CONFIRMING" to avoid duplication of shipment of such orders.

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

PART NAME	GROUP NO.	PART NAME	GROUP NO.
A			
ACTUATOR ASSEMBLY, GEAR	7. 7460B	BRACKET GAS VALVE MOUNTING	2. 4145A
ACTUATOR ASSY., NATURAL GAS	2. 9395A	BRACKET IGNITION COIL	7. 8705C
ADAPTOR KIT, POWER TAKE OFF	1. 3281C	BRACKET OIL FILLER TUBE CLAMP	4. 5004A
ADAPTOR, DIPSTICK	4. 6030A	BRACKET, ACTUATOR & THROTTLE BODY	2. 9396A
ADAPTOR, FLYWHEEL HOUSING	1. 5130B	BRACKET, ACTUATOR MOUNTING	2. 1780B
ADAPTOR, FUEL PUMP DRIVE	2. 2260	BRACKET, AIR COMPRESSOR MOUNTING	12.4010A
ADAPTOR, HYDRAULIC PUMP	12.5020A	BRACKET, BOAT BUILDER INTERFACE MODULE	2. 1514B
ADAPTOR, OIL COOLER	4. 4110A	BRACKET, BREATHER EXTENSION PIPE	4. 8183A
ADAPTOR, OIL FILTER COVER	4. 2291A	BRACKET, ELECTRONIC CONTROL MODULE	2. 1507B
ADAPTOR, TACHOMETER DRIVE CABLE	7. 4420B	BRACKET, ELECTRONIC DISTRIBUTOR UNIT	2. 1530B
ADAPTOR, TACHOMETER MOUNTING	12.8325A	BRACKET, ENGINE LIFTER - REAR	1. 2080A
ADAPTOR, WATER PUMP DRIVE	3. 7005	BRACKET, ENGINE LIFTER-FRONT	1. 2070A
ADDITIVE, CURING (THREADLOCK & RTV)	12.8252A	BRACKET, ENGINE SUPPORT	11.1075A
ADDITIVES, DIESEL FUEL	12.8280A	BRACKET, EXHAUST MANIFOLD SUPPORT	6. 1002A
ADDITIVES, SUPPLEMENTAL COOLANT	12.8260A	BRACKET, FAN BELT TENSIONER ASSY.	5. 4342A
AIR INTAKE MANIFOLD	3. 3801C	BRACKET, FUEL FILTER MOUNTING	2. 3530A
AIR STARTER ASSY.	12.6080B	BRACKET, GENERATOR ADJUSTING STRAP	7. 1582A
AIR STRAINER AND LUBRICATION ASSY.,AIR STARTER	12.6120B	BRACKET, GENERATOR MOUNTING	7. 1595A
APPEARANCE PACKAGE PARTS - SECTION 1	12.7001A	BRACKET, HARNESS MOUNTING	12.6450C
APPEARANCE PACKAGE PARTS - SECTION 3	12.7003A	BRACKET, HEAT EXCHANGER MOUNTING	5. 5070A
APPEARANCE PACKAGE PARTS - SECTION 5	12.7005A	BRACKET, INTERCOOLER MOUNTING	3. 7003
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060	BRACKET, LCD MOUNTING	7. 7705C
ARM ASSY., INJECTOR ROCKER	1. 8080	BRACKET, OIL COOLER HOUSING SUPPORT	4. 4100A
ARM ASSY., INTAKE VALVE ROCKER	1. 8075	BRACKET, OIL PUMP SCREEN SUPPORT	4. 1540B
B			
BALL AND SEAT ASSY., INJECTOR ROCKER ARM	1. 8090	BRACKET, RAW WATER INLET MANIFOLD CLIP	5. 5363A
BEARING, ACCESSORY DRIVE	1. 7655B	BRACKET, REVERSE GEAR MOUNTING	9. 1011A
BEARING, AIR COMPRESSOR DRIVE SHAFT	12.4048A	BRACKET, SNEF MODULE MOUNTING	2. 1656B
BEARING, CAMSHAFT	1. 7040	BRACKET, STARTING MOTOR SUPPORT	7. 3007A
BEARING, CLUTCH PILOT	1. 4040A	BRACKET, TURBOCHARGER AIR OUTLET TUBE	3. 5415A
BEARING, FAN SPINDLE	5. 4111A	BRACKET, WATER FILTER MOUNTING	5. 7080A
BEARING, FRESH WATER PUMP	3. 7220	BRACKETS, COLLECTOR	4. 8260A
BEARING, FUEL PUMP	2. 2060	BREATHER ASSY.	4. 8045A
BEARING, IDLER GEAR	1. 7225	BUSHING, FAN BELT IDLER PULLEY SUPPORT	5. 4348A
BEARING, PISTON PIN.	1. 6142	BUSHING, INJECTOR ROCKER ARM	1. 8110
BELT, CRANKSHAFT PULLEY DRIVE	1. 3320D	BUSHING, OIL PUMP BODY	4. 1050A
BELT, GENERATOR DRIVE	7. 1575A	C	
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	5. 4010A	CAMSHAFT ASSY.	1. 7001
BLOCK, CYLINDER	1. 1001	CAP. CRANKSHAFT MAIN BEARING	1. 3110
BLOCK,FUEL SYSTEM JUNCTION	2. 5250A	CAP, CAMSHAFT BEARING	1. 7042
BODY, FRESH WATER PUMP	3. 7190	CAP, EXPANSION TANK	5. 5140A
BODY, OIL PRESSURE REGULATOR AND RELIEF	4. 1680C	CAP, OIL FILLER	4. 5010A
BODY, OIL PUMP	4. 1040A	CAPLUG R/C S60	1. 8043A
BOLT, CAMSHAFT BEARING CAP	1. 7046	CHAIN, OIL FILLER CAP	4. 5030A
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140	CLAMP, AIR COMPRESSOR WATER TUBE HOSE	12.4097A
BOLT, EXHAUST MANIFOLD TO HEAD	6. 1025A	CLAMP, AIR INLET PIPE HOSE	3. 1280A
BOLT, ROCKER COVER	1. 8460A	CLAMP, BREATHER TUBE	4. 8039A
BOOT AND SPRING IGNITION	7. 8735C	CLAMP, HEAT EXCHANGER FRESH WATER INLET CONNECTION HOSE	5. 5250A
BOTTLE, COOLANT RECOVERY	5. 5193A	CLAMP, HEAT EXCHANGER RAW WATER INLET TUBE HOSE	5. 5480A
		CLAMP, HEAT EXCHANGER RAW WATER OUTLET TUBE HOSE	5. 5590A
		CLAMP, INJECTOR	2. 1270A

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PART NAME	GROUP NO.	PART NAME	GROUP NO.
GAGE, OIL PRESSURE - TRANSMISSION	12.8335A	GEAR, IDLER	1. 7222
GAGE, OIL TEMPERATURE	12.8340A	GEAR, OIL PUMP DRIVE	4. 1090A
GAGE, SPEEDOMETER	12.8385A	GENERATOR ASSY.	7. 1001A
GAGE, TACHOMETER	12.8320A	GOVERNOR KIT, AIR COMPRESSOR	12.4305A
GAGE, TURBO BOOST	12.8375A	GUARD, GENERATOR DRIVE BELT AND PULLEY	7. 1585A
GAGE, VOLTMETER	12.8380A	GUIDE, DIPSTICK	4. 6020A
GAGE, WATER TEMPERATURE	12.8345A	GUIDE, EXHAUST VALVE	1. 8320
GASKET KIT, CYLINDER HEAD OVERHAUL	1. 2002		
GASKET KIT, ENGINE OVERHAUL	1. 1002		
GASKET, ADAPTOR TO OIL COOLER HOUSING	4. 4112A	H	
GASKET, AIR COMPRESSOR DRIVE HOUSING	12.4039A	HAND CLEANERS	12.8070A
GASKET, AIR COMPRESSOR MOUNTING.	12.4005A	HARNES ASSY., INJECTOR	1. 8050
GASKET, AIR INTAKE MANIFOLD	3. 3803C	HARNES ASSY., THERMOSTAT WIRE	12.6440C
GASKET, AIR STARTER MOUNTING	12.6085B	HARNES GROUND IGNITION	7. 8720C
GASKET, BALANCE WEIGHT COVER	1. 7480A	HARNES, AIR SHUTOFF WIRING	7. 4545C
GASKET, BREATHER SHELL COVER	4. 8057A	HARNES, ECM BOAT BUILDER INTERFACE	2. 1690B
GASKET, CYLINDER HEAD COMPRESSION	1. 2010	MODULE	
GASKET, DIPSTICK	4. 6010A	HARNES, ELECTRONIC DISTRIBUTOR	2. 1700B
GASKET, DIPSTICK ADAPTOR PLATE	4. 6061A	UNIT TO INJECTOR	
GASKET, ENGINE FRONT ACCESSORY DRIVE	1. 3192A	HARNES, ENGINE SENSORS TO DISCONNECT	2. 1720B
GASKET, EXHAUST FLANGE WATER OUTLET	6. 2112A	HARNES, OXYGEN SENSOR	2. 1713B
GASKET, EXHAUST MANIFOLD	6. 1010A	HEAD ASSY., CYLINDER	1. 2001
GASKET, FRESH WATER PUMP	3. 7185	HEAT SHIELD, EXHAUST MANIFOLD	6. 1171A
GASKET, FRESH WATER PUMP BODY COVER	3. 7195	HOSE ASSY., AIR VENT BLEEDER	2. 5530A
GASKET, FUEL PUMP COVER	2. 2040	HOSE ASSY., PRO-CHEK INLET	2. 5510A
GASKET, FUEL PUMP TO ENGINE OR	2. 2007	HOSE ASSY., PRO-CHEK OUTLET	2. 5520A
DRIVE ASSEMBLY		HOSE ASSY.,AIR BALANCE LINE	2. 5535A
GASKET, FUEL PUMP VALVE PLUG	2. 2180	HOSE HUMP ADAPTOR TO INT TUBE	2. 4192A
GASKET, HEAT EXCHANGER FRESH WATER	5. 5300A	HOSE, COLD PLATE TO FILTER	2. 5116A
OUTLET CONNECTION		HOSE, COLD PLATE TO FUEL FILTER	2. 5117A
GASKET, HOUSING ADAPTOR	3. 7012	HOSE, EXHAUST MANIFOLD WATER RETURN	5. 3442B
GASKET, HYDRAULIC PUMP	12.5005A	HOSE, FILTER TO CYLINDER HEAD	2. 5160A
GASKET, OIL COOLER ADAPTOR TO BLOCK	4. 4115A	HOSE, FLEXIBLE (BULK)	12.8550B
GASKET, OIL COOLER CORE-INNER	4. 4030A	HOSE, FUEL DRAIN	2. 5215A
GASKET, OIL COOLER CORE-OUTER	4. 4040A	HOSE, FUEL PUMP INLET	2. 5060A
GASKET, OIL COOLER HOUSING	4. 4055A	HOSE, FUEL PUMP OUTLET TO COLD PLATE	2. 5115A
GASKET, OIL FILLER HOLE COVER	4. 5080A	HOSE, FUEL PUMP OUTLET TO FILTER	2. 5110A
GASKET, OIL FILLER TUBE ADAPTOR	4. 5007A	HOSE, FUEL SUPPLY	2. 5009A
GASKET, OIL PAN TO BLOCK	4. 7030A	HOSE, GENERATOR VENT	7. 1012A
GASKET, OIL PRESSURE REGULATOR BODY	4. 1730C	HOSE, HEAT EXCHANGER FRESH WATER	5. 5240A
GASKET, OIL PUMP INLET PIPE	4. 1520B	INLET CONNECTION	
GASKET, OIL PUMP OUTLET PIPE	4. 1590B	HOSE, HEAT EXCHANGER FRESH WATER	5. 5310A
GASKET, RAW WATER PUMP ADAPTOR	5. 6012A	OUTLET CONNECTION	
GASKET, RAW WATER PUMP HOUSING	5. 6080A	HOSE, HEAT EXCHANGER RAW WATER	5. 5470A
GASKET, RAW WATER PUMP INLET ELBOW	5. 6574A	INLET TUBE	
GASKET, RAW WATER PUMP OUTLET TUBE	5. 6581A	HOSE, HEAT EXCHANGER RAW WATER	5. 5580A
GASKET, ROCKER COVER	1. 8455A	OUTLET TUBE	
GASKET, STARTING MOTOR	7. 3004A	HOSE, INLET & OUTLET INTERCOOLER	3. 7150
GASKET, TACHOMETER DRIVE COVER	7. 4447B	HOSE, OIL DRAIN	4. 8187A
GASKET, THERMOSTAT HOUSING	5. 2110B	HOSE, OIL FILTER	8. 1990A
GASKET, TURBOCHARGER EXHAUST	3. 5307A	HOSE, RAW WATER PUMP INLET CONNECTION	5. 6520A
INLET CONNECTION		HOSE, THERMOSTAT HOUSING COVER	5. 2124B
GASKET, TURBOCHARGER OIL RETURN TUBE	3. 5506A	OUTLET ELBOW	
GASKET, WATER FLANGE AT GEAR AND/OR	5. 5378A	HOSE, TURBOCHARGER AIR OUTLET	3. 5420A
RAW WATER PUMP		CONNECTION	
GASKET, WATER PUMP COVER	5. 1236A	HOSE, TURBOCHARGER DE-AERATION	3. 5526A
GAUGE, AIR PRESSURE METRIC	12.6140B	HOSE, TURBOCHARGER WATER INLET	5. 3273B
GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER	1. 7221	HOSE, WATER BYPASS TUBE	5. 2165C
GEAR ASSY., HYDRAULIC MARINE	9. 1001A	HOSE, WATER FILTER INLET	5. 7090A
GEAR ASSY., IDLER	1. 7220	HOSE, WATER FILTER OUTLET	5. 7100A
GEAR, ACCESSORY DRIVE SHAFT	1. 7642B	HOSE, WATER PUMP TO OIL COOLER	5. 3401B
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200	HOUSING ASSY., FLYWHEEL	1. 5001A
GEAR, CRANKSHAFT TIMING	1. 3145	HOUSING ASSY., GEAR CASE	1. 3156A
GEAR, FLYWHEEL RING	1. 4010A	HOUSING, ACCESSORY DRIVE	1. 7627B
GEAR, FRESH WATER PUMP DRIVE	5. 1190	HOUSING, AIR COMPRESSOR DRIVE	12.4036A
GEAR, FUEL PUMP DRIVE	2. 2087	HOUSING, FAN DRIVE SPINDLE	5. 4103A
GEAR, FUEL PUMP DRIVEN	2. 2088	HOUSING, INTERCOOLER/AIR COOLER	3. 7300
GEAR, HYDRAULIC PUMP DRIVE	12.5030A	HOUSING, OIL COOLER-ENGINE	4. 4050A
		HOUSING, OIL TRANSFER COOLER-FILTER	4. 4053A
		ADAPTOR	

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PART NAME	GROUP NO.	PART NAME	GROUP NO.
PULLEY, ACCESSORY DRIVEN	1. 7612B	SHAFT, ACCESSORY DRIVE	1. 7640B
PULLEY, CRANKSHAFT	1. 3280C	SHAFT, AIR COMPRESSOR DRIVE	12.4047A
PULLEY, GENERATOR	7. 1500A	SHAFT, TACHOMETER DRIVE	7. 4435B
PUMP ASSY., FRESH WATER	5. 1001	SHELL, BREATHER	4. 8055A
PUMP ASSY., FUEL	2. 2001	SHELL, CONNECTING ROD BEARING	1. 6100
PUMP ASSY., HYDRAULIC	12.5001A	SHELL, CRANKSHAFT MAIN BEARING	1. 3090
PUMP ASSY., OIL	4. 1001A	SHIELD ASSY., ELECTRONIC UNIT	2. 1525B
PUMP ASSY., RAW PUMP	5. 6001A	DISTRIBUTOR HEAT	
		SHIELDING, FLEXIBLE HOSE	2. 5255A
R		SHIM, OIL PUMP	4. 1030A
RECONDITIONING KIT, FRESH WATER PUMP	5. 1002	SLEEVE, CRANKSHAFT OIL SEAL	1. 3167A
REGULATOR ASSY,NAT GAS	2. 4136A	SLEEVE, CRANKSHAFT REAR OIL SEAL	1. 3066
REGULATOR, OIL PRESSURE	4. 1670C	SOCKET, LAMP INSTRUMENT PANEL	12.8365A
RELIEF, VALVE OIL PRESSURE	4. 1671C	SOLENOID, AIR SHUTOFF OR GOVERNOR	7. 4519C
REPAIR KIT, CONNECTOR AND SEAL HARNESS	2. 1758B	SPACER, GENERATOR ADJUSTING STRAP	7. 1581A
REPAIR KIT, HARNESS TERMINAL	2. 1757B	SPACER, IDLER GEAR BEARING	1. 7226
RETAINER, BREATHER PAD	4. 8065A	SPACER, PULLEY	5. 4018A
RETAINER, CAMSHAFT AND ACCESSORY GEAR	1. 7240	SPACER, ROCKER SHAFT	1. 8173
RETAINER, CLUTCH PILOT BEARING	1. 4045A	SPACER, VIBRATION DAMPER	1. 3275B
RETAINER, FRESH WATER PUMP BEARING	5. 1071	SPINDLE ASSY., FAN DRIVE	5. 4102A
AND SEAL		SPINDLE, CRANKSHAFT PULLEY	1. 3283C
RETAINER, PISTON PIN	1. 6150	SPRING, EXHAUST VALVE	1. 8340
RING SET, PISTON	1. 6115	SPRING, OIL COOLER BYPASS VALVE	4. 4150A
RING, INJECTOR SEAL	2. 1040A	SPRING, OIL FILTER BYPASS VALVE	4. 2486A
RING, PISTON COMPRESSION	1. 6120	SPRING, OIL PRESSURE REGULATOR	4. 1690C
RING, PISTON OIL CONTROL	1. 6130	SPRING, OIL PUMP OUTLET PIPE BYPASS VALVE	4. 1620B
ROD, PUSH	1. 8180	STAND, ENGINE SHIPPING	11.1045A
ROTATOR, VALVE	1. 8365	STRAINER ASSY., FUEL	2. 3001A
		STRAINER ASSY., SPIN-ON FUEL	2. 3006A
S		STRAINER, AIR COMPRESSOR ON	12.4300A
SCREW, ROCKER ARM ADJUSTING	1. 8135	COMPRESSOR	
SEAL, ACCESSORY DRIVE OIL	1. 7660B	STRAINER, OIL FILLER TUBE	4. 5020A
SEAL, BALANCE WEIGHT COVER OIL	1. 7472A	STRAP, GENERATOR ADJUSTING	7. 1580A
SEAL, BREATHER SHELL	4. 8059A	STRAP, WIRE ASSY. TO GENERATOR TERMINAL	7. 1633A
SEAL, CAMSHAFT THRUST PLATE	1. 7075	STUD, EXHAUST MANIFOLD TO	6. 1022A
SEAL, CRANKSHAFT OIL	1. 5004A	TURBOCHARGER	
SEAL, CRANKSHAFT OIL FRONT	1. 3166A	SUPPORT ASSY., FAN BELT IDLER PULLEY	5. 4347A
SEAL, CRANKSHAFT OIL-FRONT	1. 3040	SUPPORT, BELT TENSIONER BRACKET	7. 1935A
SEAL, CRANKSHAFT OIL-REAR	1. 3060	SUPPORT, ENGINE FRONT	11.1070A
SEAL, CYLINDER LINER	1. 6190	SUPPORT, ENGINE REAR	11.1100A
SEAL, FAN SPINDLE	5. 4160A	SUPPORT, FAN MOUNTING	5. 4025A
SEAL, FRESH WATER PUMP	3. 7210	SUPPORT, GENERATOR BRACKET	7. 1596A
SEAL, FUEL PUMP OIL	2. 2070	SUPPORT, OIL FILTER MOUNTING.	4. 2470A
SEAL, THERMOSTAT	5. 2060B	SUPPORT, SNUBBER FREON COMPRESSOR	1. 7624B
SEALANT, RTV	12.8255A	SWITCH, EMERGENCY BACKUP	7. 7465B
SEAT, EXHAUST VALVE SPRING	1. 8360		
SEAT, OIL PRESSURE REGULATOR	4. 1701C	T	
SENSOR ASSY., KNOCK	2. 1648B	TANK, EXPANSION	5. 5001A
SENSOR, AIR INTAKE	3. 3810C	TENSIONER ASSY., GENERATOR DRIVE	7. 1900A
SENSOR, AIR PRESSURE	2. 1650B	TENSIONER, BELT	5. 4340A
SENSOR, AIR TEMPERATURE	2. 1647B	TERMINAL RING TYPE	1. 8810
SENSOR, COOLANT LEVEL	2. 1665B	THERMOSTAT	12.6430C
SENSOR, MAG. CRANKSHAFT	2. 1620B	THERMOSTAT ASSY.	5. 2050B
SENSOR, MAG. IDLER	2. 1610B	THERMOSTAT, LUBE OIL	4. 2288A
SENSOR, OIL LEVEL	4. 7005A	THREADLOCK & SEALER	12.8242A
SENSOR, OIL OR FUEL PRESSURE	2. 1600B	TRIP RECORDER ANALYSIS CONTROL SYSTEM	2. 1900B
SENSOR, OIL, FUEL OR COOLANT	2. 1630B	TUBE AIR INTAKE	2. 4171A
TEMPERATURE		TUBE ASSY., HEAT EXCHANGER FRESH	5. 5330A
SENSOR, OXYGEN	2. 1671B	WATER OUTLET	
SEPARATOR, FUEL WATER	2. 3590A	TUBE EXTENSION (NATURAL GAS ENGINE)	1. 8453A
SERVICE KIT, INJECTOR	2. 1002A	TUBE GAS GOVERNOR INLET	2. 4170A
SETS, SERVICE (ALL)	12.8720C	TUBE, AIR COMPRESSOR BOOSTER	12.4375A
SHAFT AND GEAR ASSY., OIL PUMP DRIVE	4. 1065A	TUBE, AIR COMPRESSOR LUBE OIL DRAIN	12.4070A
SHAFT AND GEAR ASSY., OIL PUMP DRIVEN	4. 1075A	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12.4065A
SHAFT ASSY., FRESH WATER PUMP	5. 1050	TUBE, AIR COMPRESSOR WATER INLET	12.4085A
SHAFT ASSY., ROCKER	1. 8160	TUBE, AIR COMPRESSOR WATER OUTLET	12.4090A
		TUBE, EXHAUST MANIFOLD WATER INLET	5. 3433B

v

W

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

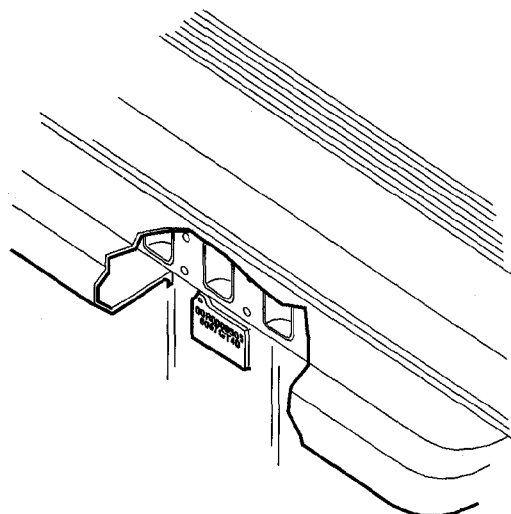
- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

ENGINE MODEL AND SERIAL NUMBER

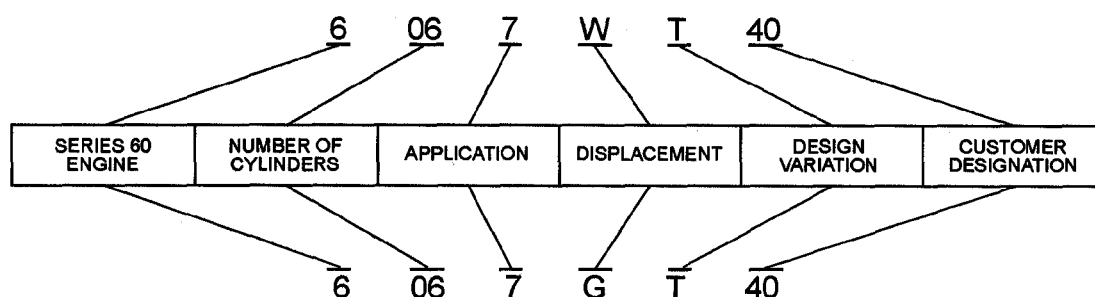
The engine serial numbers are stamped on the cylinder block in the location shown below:



TYPICAL SERIAL NUMBER

0 6 R 0 0 0 0 0 0 0 0

MODEL NUMBER



APPLICATION
 2 = MARINE
 3 = INDUSTRIAL F-F
 7 = AUTOMOTIVE

DISPLACEMENT
 W = 11.1 LITER
 F = 14 LITER
 G = 12.7 LITER
 E = 11.1 LITER
 P = 12.7 LITER PREMIUM DDEC IV
 S = 11.1 LITER SUPER
 T = 12.7 LITER

DESIGN VARIATION
 T = DDEC I
 U = DDEC II
 K = DDEC III & IV

24051

MODEL INDEX LIST

6062GK20	MARINE PROP STBD UNIT 4CYCLE DDECIII 12L
6062GK21	MARINE PROP PORT UNIT 4CYCLE DDECIII 12L
6062TK00	MARINE PROP STBD UNIT 4CYCLE DDECIV 12L
6062TK01	MARINE PROP PORT UNIT 4CYCLE DDECIV 12L
6063EK32	FAN/FLYWHL 4CYCLE DDEC IV NON-ROAD 11L S
6063EK33	FAN/FLYWHL DDEC IV INDST NON-ROAD 11L S6
6063GKG5	FAN/FLYWHL GEN SET 4CYCLE DDECIII S60G
6063GK05	FAN/FLYWHL GEN SET UNIT 4 CYCLE DDEC III
6063GK32	FAN/FLYWHL 4CYCLE DDEC3 12L UNDGRD MNG
6063GK33	FAN/FLYWHL INDST DDECIII 1996 NON-ROAD
6063GK35	FAN/FLYWHL GEN SET DDECIII NON-ROAD CERT
6063GK60	FAN/FLYWHL INDST 4CYCLE DDEC III 12L
6063GU00	INDUSTRIAL FAN TO FLYWHEEL 15 TO 1 C/R AIR/AIR 12.7L
6063GU41	INDUSTRIAL FAN TO FLYWHEEL 15 TO 1 C/R AIR/AIR 12.7L
6063GU60	INDUSTRIAL FAN TO FLYWHEEL 15 TO 1 C/R RIGHT SIDE 12.7L
6063HK33	FAN/FLYWHL 4CYC DDEC IV INDST NON-ROAD 1
6063HK35	FAN/FLYWHL GENSET DDEC IV NON-ROAD S60 1
6063HK45	FAN/FLYWHL 4CYCLE DDEC IV NON-ROAD CRASH
6063SK33	FAN/FLYWHL INDST DDECIII 1996 NON-ROAD
6063TKG5	FAN/FLYWHL GEN SET 4CYCLE DDEC-IV S60G
6063TK32	FAN/FLYWHL 4CYCLE DDEC IV NON-ROAD 12L S
6063TK33	FAN/FLYWHL DDEC IV INDST NON-ROAD 12L S6
6063TK35	FAN/FLYWHL GENSET DDEC IV S60 12L
6063TK36	FAN/FLYWHL GENSET DDEC IV NON-ROAD CERT
6063WK32	FAN/FLYWHL 4CYCLE DDEC3 11L UNDGRD MNG
6063WK60	FAN/FLYWHL INDST 4CYCLE DDEC III 11L
6063WU00	INDUSTRIAL FAN TO FLYWHEEL 16 TO 1 C/R AIR/AIR 11L
6063WU41	INDUSTRIAL FAN TO FLYWHEEL 16 TO 1 C/R AIR/AIR 11L
6063WU60	INDUSTRIAL FAN TO FLYWHEEL 16 TO 1 C/R RIGHT SIDE 11L
6064GK33	POWER UNIT WITH GROUPS INSTALLED
6064TK33	POWER UNIT DDEC IV S60 W/GRPS INSTAL @ E
6067BK28	FAN/FLYWHL AUTO DDECIV LINE HAUL COACH 1
6067BK40	FAN/FLYWHL DDECIV NON LINE HAUL TRUCK 12
6067BK45	FAN/FLYWHL DDECIV NON LINE HAUL FIRETRK
6067BK57	FAN/FLYWHL DDECIV LINE HAUL CRANE 12L PR
6067BK60	FAN/FLYWHL AUTO DDECIV LINE HAUL TRUCK 1
6067EK28	FAN/FLYWHL AUTO 4CYC DDEC IV 16:1 C/R 11
6067EK45	FAN/FLYWHL AUTO 4CYC DDEC4 FIRETRUCK 11L
6067EK57	FAN/FLYWHL AUTO 4CYC DDEC IV TRK CRANE
6067EK60	FAN/FLYWHL AUTO 4CYCLE DDEC IV 16:1 C/R
6067FK60	FAN/FLYWHL AUTO 4CYCLE DDEC IV
6067GK28	FAN/FLYWHL PARLOR COACH 4CYC DDECIII 12L
6067GK45	FAN/FLYWHL AUTO 4CYC DDEC3 FIRETRUCK 12L

6067GK57	FAN/FLYWHL AUTO 4CYC DDEC3 TRK CRANE 12L
6067GK60	FAN/FLYWHL AUTO 4CYCLE DDECIII 12L TRUCK
6067GK62	FAN/FLYWHL AUTO 4CYCLE DDECIII 12L S60 E
6067GK91	FAN/FLYWHL 4 CYC DDECIII 12L S60 MIL TRK
6067GT40	FAN TO FLYWHEEL 15 TO 1 C/R 12.7L
6067GU28	FAN TO FLYWHEEL 15 TO 1 C/R 12.7L (DDEC II)
6067GU40	FAN TO FLYWHEEL 15 TO 1 C/R 12.7L (DDEC II)
6067GU60	FAN TO FLYWHEEL 15 TO 1 C/R RIGHT SIDE 12.7L (DDEC II)
6067GU64	FAN/FLYWHL AUTO 4CYCLE DDECIII 12L
6067GU91	FAN TO FLYWHEEL 15 TO 1 C/R AIR TO AIR 12.7L (DDEC II)
6067HK60	FAN/FLYWHL AUTO 4 CYCLE DDEC IV 14L S60
6067HK62	FAN/FLYWHL AUTO 4CYC DDEC IV 14L S60 AUS
6067LK28	FAN/FLYWHL AUTO DDECIV LINE HAUL COACH 1
6067LK45	FAN/FLYWHL AUTO DDECIV LINE HAUL FIRETRU
6067LK57	FAN/FLYWHL AUTO DDECIV LINE HAUL CRANE 1
6067LK60	FAN/FLYWHL AUTO DDECIV LINE HAUL TRUCK 1
6067MK28	FAN/FLYWHL AUTO DDECIV LINE HAUL COACH
6067MK40	FAN/FLYWHL AUTO DDECIV NON LINE HAUL TRU
6067MK45	FAN/FLYWHL AUTO DDECIV LINE HAUL FIRETRK
6067MK57	FAN/FLYWHL AUTO DDECIV LINE HAUL CRANE 1
6067MK60	FAN/FLYWHL AUTO DDECIV LINE HAUL TRUCK 1
6067MK91	FAN/FLYWHL 4 CYCLE DDEC IV 12L S60 MILIT
6067PK28	FAN/FLYWHL AUTO 4CYCLE DDEC IV 470-500HP
6067PK45	FAN/FLYWHL AUTO 4CYC DDEC4 470-500HP 12L
6067PK57	FAN/FLYWHL AUTO 4CYC DDECIV 470-500HP
6067PK60	FAN/FLYWHL AUTO 4CYCLE DDEC IV 470-500HP
6067PK62	FAN/FLYWHL AUTO 4CYC DDEC IV 12L S60 EXP
6067SK28	FAN/FLYWHL AUTO 4CYCLE FUEL ECON 11L COA
6067SK45	FAN/FLYWHL AUTO 4CYC DDEC3 FIRETRUCK 11L
6067SK57	FAN/FLYWHL AUTO 4CYC DDEC3 TRK CRANE 11L
6067SK60	FAN/FLYWHL AUTO 4CYCLE FUEL ECON 11L TRK
6067SK62	FAN/FLYWHL AUTO 4CYCLE DDECIII 11L S60 E
6067TKG6	FAN/FLYWHL AUTO 4 CYCLE DDEC IV NAT GAS
6067TKG8	FAN/FLYWHL COACH 4CYCLE DDECIV S60G
6067TK28	FAN/FLYWHL AUTO 4CYCLE DDEC IV 370-430HP
6067TK45	FAN/FLYWHL AUTO 4CYC DDEC4 FIRETRUCK 12L
6067TK57	FAN/FLYWHL AUTO 4CYC DDEC IV TRK CRANE
6067TK6K	FAN/FLYWHL AUTO 4CYCLE DDEC IV 370-430HP
6067TK60	FAN/FLYWHL AUTO 4CYCLE DDEC IV 370-430HP
6067TK62	FAN/FLYWHL AUTO 4CYC DDEC IV 12L S60 EXP
6067WK28	FAN/FLYWHL PARLOR COACH 4CYC DDECIII 11L
6067WK60	FAN/FLYWHL AUTO 4CYCLE DDECIII 11L TRUCK
6067WT40	FAN TO FLYWHEEL 16 TO 1 C/R 11L
6067WU40	FAN TO FLYWHEEL 16 TO 1 C/R 11L (DDEC II)
6067WU60	FAN TO FLYWHEEL 16 TO 1 C/R RIGHT SIDE 11L (DDEC II)

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0350478 THRU 06R0414178	1.1000	497
06R0414179 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0350478 THRU 06R0514214	1.2000	176
06R0514215 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0350478 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0350478 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0350478 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0350478 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0350478 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0350478 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0350478 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0350478 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0350478 THRU 06R0394952	1.7000	1033
06R0394953 THRU 06R0514214	1.7000	1115
06R0514215 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0350478 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0350478 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0350478 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0350478 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0350478 THRU CURRENT	2.1000B	*
06R0350478 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0350478 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0350478 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0350478 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0350478 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0350478 THRU CURRENT	3.5000A	*
INTERCOOLER/AFTERCOOLER		
06R0350478 THRU CURRENT	3.7000	*
OIL PUMP		
06R0350478 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0350478 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0350478 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0350478 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0350478 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0350478 THRU CURRENT	4.5000A	*
06R0350478 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0350478 THRU CURRENT	4.6000A	*
OIL PAN		
06R0350478 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0350478 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0350478 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0350478 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0350478 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0350478 THRU CURRENT	5.3000B	*
FAN		
06R0350478 THRU CURRENT	5.4000A	*
HEAT EXCHANGER OR KEEL COOLING		
06R0403496 THRU CURRENT	5.5000A	*
RAW WATER PUMP		
06R0403496 THRU CURRENT	5.6000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0350478 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0352403 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0414179 THRU CURRENT	7.3000A	*
HYDRAULIC MARINE GEAR		
06R0350478 THRU CURRENT	9.1000A	*
ENGINE MOUNTING AND BASE		
06R0350478 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0350478 THRU CURRENT	12.4000A	*
AIR STARTER		
06R0350478 THRU CURRENT	12.6000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0350717 THRU 06R0423130	1.1000	497
06R0423131 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0350717 THRU 06R0514252	1.2000	176
06R0514253 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0350717 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0350717 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0350717 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0350717 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0350717 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0350717 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0350717 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0350717 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0350717 THRU 06R0382392	1.7000	1033
06R0382393 THRU 06R0514252	1.7000	1115
06R0514253 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0350717 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0350717 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0350717 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0350717 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0350717 THRU CURRENT	2.1000B	*
06R0350717 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0350717 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0350717 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0350717 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0350717 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0350717 THRU CURRENT	3.5000A	*
INTERCOOLER/AFTERCOOLER		
06R0350717 THRU CURRENT	3.7000	*
OIL PUMP		
06R0350717 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0350717 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0350717 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0350717 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0350717 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0350717 THRU CURRENT	4.5000A	*
06R0350717 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0350717 THRU CURRENT	4.6000A	*
OIL PAN		
06R0350717 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0350717 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0350717 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0350717 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0350717 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0350717 THRU CURRENT	5.3000B	*
FAN		
06R0350717 THRU CURRENT	5.4000A	*
HEAT EXCHANGER OR KEEL COOLING		
06R0403497 THRU CURRENT	5.5000A	*
RAW WATER PUMP		
06R0403497 THRU CURRENT	5.6000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0350717 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0356914 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0423131 THRU CURRENT	7.3000A	*
THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC		
06R0353683 THRU CURRENT	7.7000B	*
06R0353683 THRU CURRENT	7.7000B	*
06R0353683 THRU CURRENT	7.7000B	*
CRT AND LCD DISPLAY SYSTEM ELECTRONIC		
06R0356914 THRU CURRENT	7.7000C	*
HYDRAULIC MARINE GEAR		
06R0350717 THRU CURRENT	9.1000A	*
ENGINE MOUNTING AND BASE		
06R0350717 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0350717 THRU CURRENT	12.4000A	*
AIR STARTER		
06R0350717 THRU CURRENT	12.6000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0490508 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0490508 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0490508 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0490508 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0490508 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0490508 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0490508 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0490508 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0490508 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0490508 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0490508 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0490508 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0490508 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0490508 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0490508 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0490508 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0490508 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0490508 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0490508 THRU CURRENT	2.5000A	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0490508 THRU CURRENT	3.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
INTERCOOLER/AFTERCOOLER		
06R0490508 THRU CURRENT	3.7000	*
OIL PUMP		
06R0490508 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0490508 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0490508 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0490508 THRU CURRENT	4.2000A	*
OIL FILTER LINES		
06R0511037 THRU CURRENT	4.3000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0490508 THRU CURRENT	4.4000A	*
DIPSTICK		
06R0490508 THRU CURRENT	4.6000A	*
OIL PAN		
06R0490508 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0490508 THRU CURRENT	4.8000A	*
06R0490508 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0490508 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0490508 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0490508 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0490508 THRU CURRENT	5.3000B	*
FAN		
06R0490508 THRU CURRENT	5.4000A	*
HEAT EXCHANGER OR KEEL COOLING		
06R0490508 THRU CURRENT	5.5000A	*
RAW WATER PUMP		
06R0490508 THRU CURRENT	5.6000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0490508 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0515631 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0490508 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
STARTING MOTOR		
06R0509249 THRU CURRENT	7.3000A	*
SHUTOFF, ALARM SYSTEM AND O.S GOVERNOR		
06R0490508 THRU CURRENT	7.4000C	*
HYDRAULIC MARINE GEAR		
06R0511037 THRU CURRENT	9.1000A	*
ENGINE MOUNTING AND BASE		
06R0509249 THRU CURRENT	11.1000A	*
COLD WEATHER STARTING AID		
06R0509249 THRU CURRENT	12.6000C	*

* STANDARD OPTION REFER TO OPTION LABEL

	GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK			
06R0490509	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0490509	THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET			
06R0490509	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0490509	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0490509	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0490509	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0490509	THRU CURRENT	1.3000C	*
FLYWHEEL			
06R0490509	THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING			
06R0490509	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0490509	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0490509	THRU CURRENT	1.7000	*
ACCESSORY DRIVE			
06R0490509	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0490509	THRU CURRENT	1.8000	*
ROCKER COVER			
06R0490509	THRU CURRENT	1.8000A	*
FUEL INJECTOR			
06R0490509	THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC			
06R0490509	THRU CURRENT	2.1000B	*
FUEL PUMP			
06R0490509	THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER			
06R0490509	THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER			
06R0490509	THRU CURRENT	2.5000A	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER			
06R0490509	THRU CURRENT	3.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
INTERCOOLER/AFTERCOOLER		
06R0490509 THRU CURRENT	3.7000	*
OIL PUMP		
06R0490509 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0490509 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0490509 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0490509 THRU CURRENT	4.2000A	*
OIL FILTER LINES		
06R0511038 THRU CURRENT	4.3000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0490509 THRU CURRENT	4.4000A	*
DIPSTICK		
06R0490509 THRU CURRENT	4.6000A	*
OIL PAN		
06R0490509 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0490509 THRU CURRENT	4.8000A	*
06R0490509 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0490509 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0490509 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0490509 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0490509 THRU CURRENT	5.3000B	*
FAN		
06R0490509 THRU CURRENT	5.4000A	*
HEAT EXCHANGER OR KEEL COOLING		
06R0490509 THRU CURRENT	5.5000A	*
RAW WATER PUMP		
06R0490509 THRU CURRENT	5.6000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0490509 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0519577 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0490509 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
STARTING MOTOR		
06R0509250 THRU CURRENT	7.3000A	*
SHUTOFF, ALARM SYSTEM AND O.S GOVERNOR		
06R0490509 THRU CURRENT	7.4000C	*
THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC		
06R0509250 THRU CURRENT	7.7000B	*
06R0509250 THRU CURRENT	7.7000B	*
06R0509250 THRU CURRENT	7.7000B	*
CRT AND LCD DISPLAY SYSTEM ELECTRONIC		
06R0509250 THRU CURRENT	7.7000C	*
HYDRAULIC MARINE GEAR		
06R0511038 THRU CURRENT	9.1000A	*
ENGINE MOUNTING AND BASE		
06R0509250 THRU CURRENT	11.1000A	*
COLD WEATHER STARTING AID		
06R0509250 THRU CURRENT	12.6000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0518581 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0518581 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0518581 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0518581 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0518581 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0518581 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0518581 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0518581 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0518581 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0518581 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0518581 THRU CURRENT	1.7000	1186
ACCESSORY DRIVE		
06R0518581 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0518581 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0518581 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0518581 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0518581 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0518581 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0518581 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0518581 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0518581 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0518581 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0518581 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0518581 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0518581 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0518581 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0518581 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0518581 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0518581 THRU CURRENT	4.6000A	*
OIL PAN		
06R0518581 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0518581 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0518581 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0518581 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0518581 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0518581 THRU CURRENT	5.3000B	*
FAN		
06R0518581 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0518581 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0518581 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0518581 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0518581 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
AIR COMPRESSOR			
06R0518581	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0476569 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0476569 THRU 06R0509468	1.2000	176
06R0509469 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0476569 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0476569 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0476569 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0476569 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0476569 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0476569 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0476569 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0476569 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0476569 THRU 06R0506723	1.7000	1117
06R0506724 THRU CURRENT	1.7000	1184
ACCESSORY DRIVE		
06R0476569 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0476569 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0476569 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0476569 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0476569 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0476569 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0476569 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0476569 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0476569 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0476569 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0476569 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0476569 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0476569 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0476569 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0476569 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0476569 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0476569 THRU CURRENT	4.6000A	*
OIL PAN		
06R0476569 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0476569 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0476569 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0476569 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0476569 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0476569 THRU CURRENT	5.3000B	*
FAN		
06R0476569 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0476569 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0476569 THRU CURRENT	7.1000A	*
06R0476569 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0476569 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0476569	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0493877	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0297921 THRU 06R0408753	1.1000	497
06R0408754 THRU 06R0407105	1.1000	559
06R0407106 THRU 06R0412517	1.1000	*
06R0412518 THRU 06R0406199	1.1000	559
06R0406200 THRU 06R0414285	1.1000	497
06R0414286 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0297921 THRU 06R0339049	1.2000	435
06R0339050 THRU 06R0327452	1.2000	442
06R0327453 THRU 06R0346447	1.2000	435
06R0346448 THRU CURRENT	1.2000	442
ENGINE, LIFTER BRACKET		
06R0297921 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0297921 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0297921 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0297921 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0297921 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0307373 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0297921 THRU CURRENT	1.5000A	*
FLYWHEEL HOUSING ADAPTOR		
06R0307373 THRU CURRENT	1.5000B	*
CONNECTING ROD AND PISTON		
06R0297921 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0297921 THRU 06R0317529	1.7000	1072
06R0317530 THRU 06R0378484	1.7000	1091
06R0378485 THRU CURRENT	1.7000	1122
ACCESSORY DRIVE		
06R0297921 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0297921 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0297921 THRU CURRENT	1.8000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
INJECTOR, CONTROLS ELECTRONIC		
06R0297921 THRU CURRENT	2.1000B	*
ALTERNATE FUEL SYSTEMS		
06R0307373 THRU CURRENT	2.4000A	*
FUEL LINES AND FUEL COOLER		
06R0297921 THRU CURRENT	2.5000A	*
THROTTLE CONTROLS		
06R0297921 THRU CURRENT	2.9000A	*
AIR INTAKE MANIFOLD		
06R0297921 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0297921 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0297921 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0297921 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0297921 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0297921 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0297921 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0297921 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0297921 THRU CURRENT	4.6000A	*
OIL PAN		
06R0297921 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0332778 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0297921 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0297921 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0297921 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0297921 THRU CURRENT	5.3000B	*
FAN		
06R0297921 THRU CURRENT	5.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0297921 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0297921 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0297921 THRU CURRENT	7.3000A	*
SPARK PLUG,IGNITION COIL,WIRING HARNESS		
06R0297921 THRU CURRENT	7.8000C	*
ENGINE MOUNTING AND BASE		
06R0297921 THRU CURRENT	11.1000A	*
HYDRAULIC PUMP		
06R0367638 THRU CURRENT	12.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0192267 THRU 06R0212695	1.1000	451
06R0212696 THRU 06R0428271	1.1000	497
06R0428272 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0192267 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0192267 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0192267 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0192267 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0192267 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0192267 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0192267 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0192267 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0192267 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0192267 THRU 06R0255333	1.7000	884
06R0255334 THRU 06R0378399	1.7000	1033
06R0378400 THRU CURRENT	1.7000	1115
ACCESSORY DRIVE		
06R0192267 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0192267 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0192267 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0192267 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0381252 THRU CURRENT	2.1000B	*
06R0192267 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0192267 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0192267 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0192267 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0192267 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0192267 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0192267 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0192267 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0192267 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0192267 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0192267 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0192267 THRU CURRENT	4.5000A	*
06R0282943 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0192267 THRU CURRENT	4.6000A	*
OIL PAN		
06R0192267 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0192267 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0192267 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0192267 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0192267 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0192267 THRU CURRENT	5.3000B	*
FAN		
06R0192267 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0192267 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0282943 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0273806 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
STARTING MOTOR			
06R0192267	THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE			
06R0192267	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0255334	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0192421	THRU 06R0211401	1.1000	451
06R0211402	THRU 06R0213340	1.1000	497
06R0213341	THRU 06R0214342	1.1000	451
06R0214343	THRU 06R0408610	1.1000	497
06R0408611	THRU 06R0410073	1.1000	*
06R0410074	THRU 06R0406505	1.1000	559
06R0406506	THRU 06R0426241	1.1000	*
06R0426242	THRU CURRENT	1.1000	559
CYLINDER HEAD			
06R0192421	THRU 06R0510345	1.2000	176
06R0510346	THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET			
06R0192421	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0192421	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0192421	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0192421	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0192421	THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT			
06R0276713	THRU CURRENT	1.3000D	*
FLYWHEEL			
06R0192421	THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING			
06R0192421	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0192421	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0192421	THRU 06R0249453	1.7000	884
06R0249454	THRU 06R0378531	1.7000	1033
06R0249454	THRU 06R0378531	1.7000	1036
06R0378532	THRU CURRENT	1.7000	1115
06R0378532	THRU 06R0444817	1.7000	1121
06R0444818	THRU 06R0506192	1.7000	1115
06R0506193	THRU CURRENT	1.7000	1183
ACCESSORY DRIVE			
06R0192421	THRU CURRENT	1.7000B	

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
VALVE AND INJECTOR OPERATING MECHANISM		
06R0192421 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0192421 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0192421 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0192421 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0192421 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0192421 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0192421 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0192421 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0192421 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0192421 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0192421 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0192421 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0192421 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0192421 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0192421 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0192421 THRU CURRENT	4.6000A	*
OIL PAN		
06R0192421 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0434073 THRU CURRENT	4.8000A	*
06R0192421 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0192421 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0192421 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0192421 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0192421 THRU CURRENT	5.3000B	*
FAN		
06R0192421 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0192421 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0192421 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0192421 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0192421 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0192421 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0288931 THRU 06R0410507	1.1000	497
06R0410508 THRU 06R0443713	1.1000	559
06R0443714 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0288931 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0288931 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0288931 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0288931 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0288931 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0288931 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0288931 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0288931 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0288931 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0288931 THRU 06R0379084	1.7000	1033
06R0288931 THRU 06R0379084	1.7000	1036
06R0379085 THRU CURRENT	1.7000	1115
06R0379085 THRU 06R0444878	1.7000	1121
06R0444879 THRU 06R0461406	1.7000	1115
06R0461407 THRU CURRENT	1.7000	1121
ACCESSORY DRIVE		
06R0288931 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0288931 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0288931 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0288931 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0288931 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0288931 THRU CURRENT	2.2000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL FILTER AND STRAINER		
06R0288931 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0288931 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0288931 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0288931 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0288931 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0288931 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0288931 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0288931 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0288931 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0288931 THRU CURRENT	4.5000A	*
06R0308534 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0288931 THRU CURRENT	4.6000A	*
OIL PAN		
06R0288931 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0356223 THRU CURRENT	4.8000A	*
06R0288931 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0295888 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0288931 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0288931 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0288931 THRU CURRENT	5.3000B	*
FAN		
06R0288931 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0288931 THRU CURRENT	6.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
BATTERY, CHARGING GENERATOR		
06R0288931 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0288931 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0288931 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0288931 THRU CURRENT	12.4000A	*
AIR STARTER		
06R0349869 THRU CURRENT	12.6000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0312492 THRU 06R0419150	1.1000	497
06R0419151 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0312492 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0312492 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0312492 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0312492 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0312492 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0312492 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0312492 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0312492 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0312492 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0312492 THRU 06R0378431	1.7000	1033
06R0378432 THRU CURRENT	1.7000	1115
ACCESSORY DRIVE		
06R0312492 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0312492 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0312492 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0312492 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0312492 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0312492 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0312492 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0312492 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0312492 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0312492 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0312492 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0312492 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0312492 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0312492 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0312492 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0312492 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0312492 THRU CURRENT	4.6000A	*
OIL PAN		
06R0312492 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0338662 THRU CURRENT	4.8000A	*
06R0312492 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0312492 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0312492 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0312492 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0312492 THRU CURRENT	5.3000B	*
FAN		
06R0312492 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0312492 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0312492 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0312492 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CRT AND LCD DISPLAY SYSTEM ELECTRONIC		
06R0431494 THRU CURRENT	7.7000C	*
ENGINE MOUNTING AND BASE		
06R0312492 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0159057 THRU 06R0212380	1.1000	451
06R0212381 THRU 06R0411212	1.1000	497
06R0411213 THRU 06R0444136	1.1000	559
06R0444137 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0159057 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0159057 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0159057 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0159057 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0159057 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0159057 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0159057 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0159057 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0159057 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0159057 THRU CURRENT	1.7000	884
06R0159057 THRU CURRENT	1.7000	1033
06R0159057 THRU CURRENT	1.7000	1036
06R0396909 THRU CURRENT	1.7000	1115
ACCESSORY DRIVE		
06R0164528 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0159057 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0159057 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0159057 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0159057 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0159057 THRU CURRENT	2.2000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL FILTER AND STRAINER		
06R0159057 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0159057 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0159057 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0159057 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0159057 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0159057 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0159057 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0159057 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0159057 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0159057 THRU CURRENT	4.5000A	*
06R0225216 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0159057 THRU CURRENT	4.6000A	*
OIL PAN		
06R0159057 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0159057 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0159057 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0159057 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0159057 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0159057 THRU CURRENT	5.3000B	*
FAN		
06R0159057 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0159057 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0159057 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
STARTING MOTOR			
06R0159057	THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE			
06R0159057	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0159057	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	106
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE # 1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0016009	1.6000	406
06R0016010 THRU CURRENT	1.6000	421
CAMSHAFT AND GEAR TRAIN		
THRU 06R0013158	1.7000	589
06R0013159 THRU 06R0021635	1.7000	725
06R0021636 THRU CURRENT	1.7000	762
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
PRIOR TO STD OPTION	1.8000	362
STD OPTION	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP		
PRIOR TO STD OPTION	2.2000	256
STD OPTION	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FRESH WATER PUMP		
THRU 06R0016592	5.1000	263
06R0016593 THRU CURRENT	5.1000	270
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	106
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE # 2)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	370
06R0004651 THRU CURRENT	1.6000	406
CAMSHAFT AND GEAR TRAIN	1.7000	589
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU CURRENT	1.8000	362
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP	2.2000	256
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK (CUSTOMER FURNISHED)	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP	5.1000	263
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0162052	1.1000	365
06R0162053 THRU CURRENT	1.1000	451
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
PRIOR TO STD OPTION	1.3000	106
STD OPTION	1.3000	*
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON	1.6000	*
CAMSHAFT AND GEAR TRAIN		
THRU 06R0147116	1.7000	753
06R0147117 THRU 06R0147943	1.7000	766
06R0147944 THRU CURRENT	1.7000	753
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	198
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR	4.1000C	38
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
PRIOR TO STD OPTION	5.1000	271
STD OPTION	5.1000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0140533 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0140533 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0503411 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0503411 THRU 06R0511769	1.2000	176
06R0511770 THRU 06R0502541	1.2000	485
06R0502542 THRU 06R0512400	1.2000	176
06R0512401 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0503411 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0503411 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0503411 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0503411 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0503411 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0501777 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0503411 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0503411 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0503411 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0503411 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0503411 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0503411 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0503411 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0503411 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0503411 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0503411 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0503411 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0503411 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0503411 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0503411 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0503411 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0503411 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0503411 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0503411 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0503411 THRU CURRENT	4.5000A	*
06R0524114 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0503411 THRU CURRENT	4.6000A	*
OIL PAN		
06R0503411 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0507901 THRU CURRENT	4.8000A	*
06R0503411 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0503411 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0503411 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0503411 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0503411 THRU CURRENT	5.3000B	*
FAN		
06R0503411 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0503411 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0503411 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0503411 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ENGINE MOUNTING AND BASE		
06R0503411 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0503411 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0461589 THRU CURRENT	1.1000	582
CYLINDER HEAD		
06R0461589 THRU 06R0513356	1.2000	176
06R0513357 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0461589 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0461589 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0461589 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0461589 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0461589 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0461589 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0461589 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0461589 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0461589 THRU 06R0507148	1.7000	1158
06R0507149 THRU 06R0478379	1.7000	1179
06R0478380 THRU 06R0513356	1.7000	1158
06R0513357 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0490446 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0461589 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0461589 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0461589 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0461589 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0461589 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0461589 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0461589 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0461589 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0461589 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0461589 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0461589 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0461589 THRU CURRENT	4.1000C	51
OIL FILTER		
06R0461589 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0461589 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0461589 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0461589 THRU CURRENT	4.6000A	*
OIL PAN		
06R0461589 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0461589 THRU CURRENT	4.8000A	*
06R0461589 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0461589 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0461589 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0461589 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0461589 THRU CURRENT	5.3000B	*
FAN		
06R0461589 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0461589 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0516660 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0461589 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
STARTING MOTOR			
06R0461589	THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE			
06R0461589	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0507149	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0511773 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0511773 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0511773 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0511773 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0511773 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0511773 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0524873 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0511773 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0526804 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0511773 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0511773 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0511773 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0511773 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0511773 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0511773 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0511773 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0511773 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0511773 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0511773 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0511773 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0526804 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0511773 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0511773 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0511773 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0511773 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0511773 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0511773 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0511773 THRU CURRENT	4.6000A	*
OIL PAN		
06R0511773 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0524508 THRU CURRENT	4.8000A	*
06R0511773 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0511773 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0511773 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0511773 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0511773 THRU CURRENT	5.3000B	*
FAN		
06R0511773 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0511773 THRU CURRENT	6.1000A	*
STARTING MOTOR		
06R0511773 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0511773 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0511773 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0297765 THRU 06R0409485	1.1000	497
06R0409486 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0297765 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0297765 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0297765 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0297765 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0297765 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0297765 THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT		
06R0385103 THRU CURRENT	1.3000D	*
FLYWHEEL		
06R0297765 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0297765 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0297765 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0297765 THRU 06R0378713	1.7000	1054
06R0378714 THRU CURRENT	1.7000	1117
ACCESSORY DRIVE		
06R0297765 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0297765 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0297765 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0297765 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0297765 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0297765 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0297765 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0297765 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0297765 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0297765 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0297765 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0297765 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0297765 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0297765 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0297765 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0297765 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0297765 THRU CURRENT	4.6000A	*
OIL PAN		
06R0297765 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0297765 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0297765 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0297765 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0297765 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0297765 THRU CURRENT	5.3000B	*
FAN		
06R0297765 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0297765 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0309864 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0297765 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ENGINE MOUNTING AND BASE		
06R0297765 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0297765 THRU CURRENT	12.4000A	*
APPEARANCE PACKAGE PARTS		
06R0385103 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0441541 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0441541 THRU 06R0524273	1.2000	442
06R0524274 THRU 06R0523260	1.2000	488
06R0523261 THRU 06R0523243	1.2000	*
06R0523244 THRU 06R0527174	1.2000	442
06R0527175 THRU CURRENT	1.2000	488
ENGINE, LIFTER BRACKET		
06R0441541 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0441541 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0441541 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0441541 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0441541 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0441541 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0441541 THRU CURRENT	1.5000A	*
FLYWHEEL HOUSING ADAPTOR		
06R0441541 THRU CURRENT	1.5000B	*
CONNECTING ROD AND PISTON		
06R0441541 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0441541 THRU 06R0508587	1.7000	1122
06R0508588 THRU CURRENT	1.7000	1190
ACCESSORY DRIVE		
06R0441541 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0441541 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0441541 THRU CURRENT	1.8000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0441541 THRU CURRENT	2.1000B	*
ALTERNATE FUEL SYSTEMS		
06R0441541 THRU CURRENT	2.4000A	*
FUEL LINES AND FUEL COOLER		
06R0441541 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
THROTTLE CONTROLS		
06R0441541 THRU CURRENT	2.9000A	*
AIR INTAKE MANIFOLD		
06R0441541 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0441541 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0441541 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0441541 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0441541 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0441541 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0441541 THRU CURRENT	4.4000A	*
DIPSTICK		
06R0441541 THRU CURRENT	4.6000A	*
OIL PAN		
06R0441541 THRU CURRENT	4.7000A	*
FRESH WATER PUMP		
06R0441541 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0441541 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0441541 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0441541 THRU CURRENT	5.3000B	*
FAN		
06R0441541 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0441541 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0441541 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0441541 THRU CURRENT	7.3000A	*
SPARK PLUG,IGNITION COIL,WIRING HARNESS		
06R0441541 THRU CURRENT	7.8000C	*
ENGINE MOUNTING AND BASE		
06R0441541 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0532083 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0532083 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0532083 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0532083 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0532083 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0532083 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0532083 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0532083 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0532083 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0532083 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0532083 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0532083 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0532083 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0532083 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0532083 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0532083 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0532083 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0532083 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0532083 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0532083 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0532083 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0532083 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0532083 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0532083 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0532083 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0532083 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0532083 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0532083 THRU CURRENT	4.6000A	*
OIL PAN		
06R0532083 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0532083 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0532083 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0532083 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0532083 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0532083 THRU CURRENT	5.3000B	*
FAN		
06R0532083 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0532083 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0532083 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0532083 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0532083 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0532083 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0475669 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0475669 THRU 06R0511828	1.2000	176
06R0511829 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0475669 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0475669 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0475669 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0475669 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0475669 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0475669 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0475669 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0475669 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0475669 THRU 06R0506109	1.7000	1115
06R0506110 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0475669 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0475669 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0475669 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0475669 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0484863 THRU CURRENT	2.1000B	*
06R0475669 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0475669 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0475669 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0475669 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0475669 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0475669 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0475669 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0475669 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0475669 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0475669 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0475669 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0475669 THRU CURRENT	4.5000A	*
06R0479332 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0475669 THRU CURRENT	4.6000A	*
OIL PAN		
06R0475669 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0477533 THRU CURRENT	4.8000A	*
06R0475669 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0475669 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0475669 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0475669 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0475669 THRU CURRENT	5.3000B	*
FAN		
06R0475669 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0475669 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0475669 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0475669 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0475669	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0477533	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0442147 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0442147 THRU 06R0503833	1.2000	176
06R0503834 THRU 06R0498940	1.2000	*
06R0498941 THRU 06R0509487	1.2000	176
06R0509488 THRU 06R0505357	1.2000	485
06R0505358 THRU 06R0509494	1.2000	176
06R0509495 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0442147 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0442147 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0442147 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0442147 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0442147 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0442147 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0442147 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0442147 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0442147 THRU 06R0507267	1.7000	1115
06R0507268 THRU 06R0505134	1.7000	1183
06R0505135 THRU 06R0507281	1.7000	1115
06R0507282 THRU 06R0505364	1.7000	1183
06R0505365 THRU 06R0507140	1.7000	1115
06R0507141 THRU 06R0505357	1.7000	1183
06R0505358 THRU 06R0507147	1.7000	1115
06R0507148 THRU 06R0505636	1.7000	1183
06R0505637 THRU 06R0507254	1.7000	1115
06R0507255 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0457458 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0442147 THRU CURRENT	1.8000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ROCKER COVER		
06R0442147 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0442147 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0442147 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0442147 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0442147 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0442147 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0442147 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0442147 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0442147 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0442147 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0442147 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0442147 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0442147 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0442147 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0442147 THRU CURRENT	4.6000A	*
OIL PAN		
06R0442147 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0442147 THRU CURRENT	4.8000A	*
06R0442147 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0442147 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0442147 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0442147 THRU CURRENT	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS		
06R0442147 THRU CURRENT	5.3000B	*
FAN		
06R0442147 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0442147 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0442147 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0442147 THRU CURRENT	7.3000A	*
CRT AND LCD DISPLAY SYSTEM ELECTRONIC		
06R0457458 THRU CURRENT	7.7000C	*
ENGINE MOUNTING AND BASE		
06R0442147 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0383253 THRU 06R0434779	1.1000	497
06R0434780 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0383253 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0383253 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0383253 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0383253 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0383253 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0383253 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0383253 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0383253 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0383253 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0383253 THRU CURRENT	1.7000	1115
ACCESSORY DRIVE		
06R0383253 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0383253 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0383253 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0383253 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0383253 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0383253 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0383253 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0383253 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0383253 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0383253 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0383253 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0383253 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0383253 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0383253 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0383253 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0383253 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0383253 THRU CURRENT	4.6000A	*
OIL PAN		
06R0383253 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0392192 THRU CURRENT	4.8000A	*
06R0383253 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0363253 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0383253 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0383253 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0383253 THRU CURRENT	5.3000B	*
FAN		
06R0383253 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0383253 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0404674 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0383253 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0383253 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0383253 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0184730 THRU 06R0211389	1.1000	451
06R0211390 THRU 06R0413359	1.1000	497
06R0413360 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0184730 THRU 06R0510451	1.2000	176
06R0510452 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0184730 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0184730 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0184730 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0184730 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0184730 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0184730 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0184730 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0184730 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0184730 THRU CURRENT	1.7000	895
06R0184730 THRU CURRENT	1.7000	1046
06R0184730 THRU CURRENT	1.7000	1123
06R0391421 THRU CURRENT	1.7000	1131
06R0507035 THRU CURRENT	1.7000	1186
ACCESSORY DRIVE		
06R0184730 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0184730 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0184730 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0184730 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0184730 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0184730 THRU CURRENT	2.2000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL FILTER AND STRAINER		
06R0184730 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0184730 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0184730 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0184730 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0184730 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0184730 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0184730 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0184730 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0184730 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0184730 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0184730 THRU CURRENT	4.6000A	*
OIL PAN		
06R0184730 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0185086 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0184730 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0184730 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0184730 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0184730 THRU CURRENT	5.3000B	*
FAN		
06R0184730 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0184730 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0184730 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
STARTING MOTOR			
06R0184730	THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE			
06R0184730	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0184730	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0158444 THRU 06R0217000	1.1000	451
06R0217001 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0158444 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0158444 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0158444 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0158444 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0158444 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0158444 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0158444 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0158444 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0158444 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0158444 THRU 06R0290676	1.7000	895
06R0290677 THRU 06R0291131	1.7000	1046
06R0291132 THRU CURRENT	1.7000	895
ACCESSORY DRIVE		
06R0158444 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0158444 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0158444 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0158444 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0158444 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0165979 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0158444 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0158444 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0158444 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0158444 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0158444 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0158444 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0158444 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0158444 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0158444 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0158444 THRU CURRENT	4.5000A	*
06R0227583 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0168657 THRU CURRENT	4.6000A	*
OIL PAN		
06R0158444 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0173783 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0158444 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0158444 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0158444 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0158444 THRU CURRENT	5.3000B	*
FAN		
06R0158444 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0158444 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0158444 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0165979 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0158444 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR COMPRESSOR		
06R0158444 THRU CURRENT	12.4000A	

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	105
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE # 1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0016009	1.6000	405
06R0016010 THRU CURRENT	1.6000	422
CAMSHAFT AND GEAR TRAIN		
THRU 06R0013158	1.7000	588
06R0013159 THRU CURRENT	1.7000	724
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
PRIOR TO STD OPTION	1.8000	363
STD OPTION	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP		
PRIOR TO STD OPTION	2.2000	256
STD OPTION	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FRESH WATER PUMP		
THRU 06R0016592	5.1000	263
06R0016593 THRU CURRENT	5.1000	270
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	105
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE # 2)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	369
06R0004651 THRU CURRENT	1.6000	405
CAMSHAFT AND GEAR TRAIN	1.7000	588
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU CURRENT	1.8000	363
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP	2.2000	256
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK (CUSTOMER FURNISHED)	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP	5.1000	263
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0158450	1.1000	365
06R0158451 THRU CURRENT	1.1000	451
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
PRIOR TO STD OPTION	1.3000	105
STD OPTION	1.3000	*
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0136720	1.6000	422
06R0136721 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN	1.7000	724
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	198
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR	4.1000C	38
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
PRIOR TO STD OPTION	5.1000	271
STD OPTION	5.1000	*
THERMOSTAT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0136721 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0142624 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0348480 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0348480 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0348480 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0348480 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0348480 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0348480 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0348480 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0348480 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0348480 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0348480 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0348480 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0348480 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0348480 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0348480 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0348480 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0348480 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0348480 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0348480 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0348480 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0348480 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0348480 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0348480 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0348480 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0348480 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0348480 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0348480 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0348480 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0348480 THRU CURRENT	4.6000A	*
OIL PAN		
06R0348480 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0348480 THRU CURRENT	4.8000A	*
06R0348480 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0348480 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0348480 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0348480 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0348480 THRU CURRENT	5.3000B	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0348480 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0348480 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0348480 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0348480 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0348480 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0348480 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0476526 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0476526 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0476526 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0476526 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0476526 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0476526 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0485019 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0476526 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0476526 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0476526 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0476526 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0476526 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0476526 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0476526 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0476526 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0476526 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0476526 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0476526 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0476526 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0476526 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0476526 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0476526 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0476526 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0476526 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0476526 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0476526 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0476526 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0476526 THRU CURRENT	4.6000A	*
OIL PAN		
06R0476526 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0476526 THRU CURRENT	4.8000A	*
06R0476526 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0476526 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0476526 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0476526 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0476526 THRU CURRENT	5.3000B	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0476526 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0476526 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0476526 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0476526 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0476526 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0476526 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0459850 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0459850 THRU 06R0509073	1.2000	176
06R0509074 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0459850 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0459850 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0459850 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0459850 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0474504 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0459850 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0459850 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0459850 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0459850 THRU 06R0487436	1.7000	1158
06R0487437 THRU 06R0488945	1.7000	1174
06R0488946 THRU 06R0506146	1.7000	1158
06R0506147 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0459850 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0459850 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0459850 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0459850 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0459850 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0459850 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0459850 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0459850 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0459850 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0459850 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0459850 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0459850 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0459850 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0459850 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0459850 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0459850 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0459850 THRU CURRENT	4.6000A	*
OIL PAN		
06R0459850 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0459850 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0459850 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0459850 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0459850 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0459850 THRU CURRENT	5.3000B	*
FAN		
06R0459850 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0459850 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0459850 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0472031 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0459850	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0459850	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0451528 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0451528 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0451528 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0451528 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0451528 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0451528 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0451528 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0451528 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0451528 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0451528 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0451528 THRU CURRENT	1.7000	1158
ACCESSORY DRIVE		
06R0451528 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0451528 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0451528 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0451528 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0451528 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0451528 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0451528 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0451528 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0451528 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0451528 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0451528 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0451528 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0451528 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0451528 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0451528 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0451528 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0451528 THRU CURRENT	4.6000A	*
OIL PAN		
06R0451528 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0451528 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0451528 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0451528 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0451528 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0451528 THRU CURRENT	5.3000B	*
FAN		
06R0451528 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0451528 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0451528 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0451528 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0449783 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0449783 THRU 06R0509394	1.2000	176
06R0509395 THRU 06R0508013	1.2000	485
06R0508014 THRU 06R0509393	1.2000	176
06R0509394 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0449783 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0449783 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0449783 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0449783 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0449783 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0449783 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0449783 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0449783 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0449783 THRU 06R0480321	1.7000	1158
06R0480322 THRU 06R0480461	1.7000	1174
06R0480462 THRU 06R0480447	1.7000	1158
06R0480448 THRU 06R0482072	1.7000	1174
06R0482073 THRU 06R0480450	1.7000	1158
06R0480451 THRU 06R0482646	1.7000	1174
06R0482647 THRU 06R0483804	1.7000	1158
06R0483805 THRU 06R0483957	1.7000	1174
06R0483958 THRU 06R0484322	1.7000	1158
06R0484323 THRU 06R0485560	1.7000	1174
06R0485561 THRU 06R0485325	1.7000	1158
06R0485326 THRU 06R0487717	1.7000	1174
06R0487718 THRU 06R0487719	1.7000	1158
06R0487720 THRU 06R0487286	1.7000	1174
06R0487287 THRU 06R0490395	1.7000	1158
06R0490396 THRU 06R0489968	1.7000	1174
06R0489969 THRU 06R0492317	1.7000	1158

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
06R0492318	THRU 06R0492304	1.7000	1174
06R0492305	THRU 06R0492940	1.7000	1158
06R0492941	THRU 06R0492058	1.7000	1174
06R0492059	THRU 06R0494127	1.7000	1158
06R0494128	THRU 06R0496393	1.7000	1174
06R0496394	THRU 06R0498681	1.7000	1158
06R0498682	THRU 06R0498683	1.7000	1174
06R0498684	THRU 06R0500395	1.7000	1158
06R0500396	THRU 06R0500397	1.7000	1174
06R0500398	THRU 06R0500399	1.7000	1158
06R0500400	THRU 06R0500999	1.7000	1174
06R0501000	THRU 06R0501684	1.7000	1158
06R0501685	THRU 06R0501888	1.7000	1179
06R0501889	THRU 06R0503455	1.7000	1158
06R0503456	THRU 06R0503456	1.7000	1174
06R0503457	THRU 06R0505117	1.7000	1158
06R0505118	THRU 06R0505007	1.7000	1174
06R0505008	THRU 06R0505852	1.7000	1158
06R0505853	THRU 06R0505853	1.7000	1179
06R0505854	THRU 06R0506201	1.7000	1174
06R0506202	THRU 06R0505423	1.7000	1179
06R0505424	THRU 06R0507029	1.7000	1158
06R0507030	THRU 06R0510613	1.7000	1179
06R0510614	THRU 06R0511814	1.7000	1187
06R0511815	THRU 06R0513029	1.7000	1179
06R0513030	THRU 06R0514169	1.7000	1187
06R0514170	THRU 06R0515472	1.7000	1179
06R0515473	THRU 06R0517101	1.7000	1187
06R0517102	THRU 06R0518429	1.7000	1179
06R0518430	THRU 06R0519423	1.7000	1187
06R0519424	THRU 06R0521047	1.7000	1179
06R0521048	THRU 06R0521030	1.7000	1187
06R0521031	THRU 06R0526236	1.7000	1179
06R0526237	THRU 06R0526288	1.7000	1187
06R0526289	THRU 06R0526593	1.7000	1179
06R0526594	THRU 06R0527793	1.7000	1187
06R0527794	THRU 06R0528222	1.7000	1179
06R0528223	THRU 06R0528519	1.7000	1187
06R0528520	THRU CURRENT	1.7000	1179
ACCESSORY DRIVE			
06R0449783	THRU CURRENT	1.7000B	*

* STANDARD OPTION REFER TO OPTION LABEL

All information subject to change without notice.

GROUP NAME	GROUP NO	TYPE
VALVE AND INJECTOR OPERATING MECHANISM		
06R0449783 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0449783 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0449783 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0449783 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0449783 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0449783 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0449783 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0449783 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0449783 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0449783 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0449783 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0449783 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0449783 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0449783 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0449783 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0449783 THRU CURRENT	4.6000A	*
OIL PAN		
06R0449783 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0485561 THRU CURRENT	4.8000A	*
06R0449783 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0449783 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0449783 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0449783 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0449783 THRU CURRENT	5.3000B	*
FAN		
06R0449783 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0449783 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0483805 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0449783 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0449783 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0495957 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0495957 THRU 06R0514626	1.2000	176
06R0514627 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0495957 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0495957 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0495957 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0495957 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0495957 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0495957 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0495957 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0495957 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0495957 THRU 06R0508002	1.7000	1158
06R0508003 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0495957 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0495957 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0495957 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0495957 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0495957 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0495957 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0495957 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0495957 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0495957 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0495957 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0495957 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0495957 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0495957 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0495957 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0495957 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0495957 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0495957 THRU CURRENT	4.6000A	*
OIL PAN		
06R0495957 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0495957 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0495957 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0495957 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0495957 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0495957 THRU CURRENT	5.3000B	*
FAN		
06R0495957 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0495957 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0495957 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0495957 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0466183	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0466183	THRU 06R0504328	1.2000	176
06R0504329	THRU 06R0504332	1.2000	*
06R0504333	THRU 06R0504338	1.2000	176
06R0504339	THRU 06R0504343	1.2000	*
06R0504344	THRU 06R0504366	1.2000	176
06R0504367	THRU 06R0504367	1.2000	*
06R0504368	THRU 06R0504368	1.2000	176
06R0504369	THRU 06R0504370	1.2000	*
06R0504371	THRU 06R0509250	1.2000	176
06R0509251	THRU 06R0507736	1.2000	485
06R0507737	THRU 06R0508994	1.2000	176
06R0508995	THRU 06R0508037	1.2000	485
06R0508038	THRU 06R0509009	1.2000	176
06R0509010	THRU 06R0508354	1.2000	485
06R0508355	THRU 06R0509078	1.2000	176
06R0509079	THRU 06R0508367	1.2000	485
06R0508368	THRU 06R0509083	1.2000	176
06R0509084	THRU 06R0507239	1.2000	485
06R0507240	THRU 06R0509373	1.2000	176
06R0509374	THRU 06R0507238	1.2000	485
06R0507239	THRU 06R0510338	1.2000	176
06R0510339	THRU 06R0494121	1.2000	485
06R0494122	THRU 06R0516379	1.2000	176
06R0516380	THRU 06R0494122	1.2000	485
06R0494123	THRU 06R0517604	1.2000	176
06R0517605	THRU 06R0494123	1.2000	485
06R0494124	THRU 06R0521418	1.2000	176
06R0521419	THRU 06R0498559	1.2000	485
06R0498560	THRU 06R0523031	1.2000	176
06R0523032	THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET			
06R0466183	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0466183	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0466183	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0466183	THRU CURRENT	1.3000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CRANKSHAFT PULLEY		
06R0466183 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0466183 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0466183 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0466183 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0466183 THRU 06R0506083	1.7000	1158
06R0506084 THRU 06R0505746	1.7000	1179
06R0505747 THRU 06R0506189	1.7000	1158
06R0506190 THRU 06R0497967	1.7000	1179
06R0497968 THRU 06R0506617	1.7000	1158
06R0506618 THRU 06R0494121	1.7000	1179
06R0494122 THRU 06R0516379	1.7000	1158
06R0516380 THRU 06R0494122	1.7000	1179
06R0494123 THRU 06R0517604	1.7000	1158
06R0517605 THRU 06R0494123	1.7000	1179
06R0494124 THRU 06R0521418	1.7000	1158
06R0521419 THRU 06R0498559	1.7000	1179
06R0498560 THRU 06R0523031	1.7000	1158
06R0523032 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0466183 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0466183 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0466183 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0466183 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0466183 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0466183 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0466183 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0466183 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0466183 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0466183 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0466183 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0466183 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0466183 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0466183 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0466183 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0466183 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0466183 THRU CURRENT	4.6000A	*
OIL PAN		
06R0466183 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0489576 THRU CURRENT	4.8000A	*
06R0466183 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0466183 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0466183 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0466183 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0466183 THRU CURRENT	5.3000B	*
FAN		
06R0466183 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0466183 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0473021 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0466183 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0466183 THRU CURRENT	12.4000A	*
HYDRAULIC PUMP		
06R0481981 THRU CURRENT	12.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
APPEARANCE PACKAGE PARTS		
06R0478570 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0380370 THRU 06R0388171	1.1000	497
06R0388172 THRU 06R0395730	1.1000	550
06R0395731 THRU 06R0398119	1.1000	497
06R0398120 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0380370 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0380370 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0380370 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0380370 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0380370 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0388172 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0380370 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0380370 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0380370 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0380370 THRU CURRENT	1.7000	1126
ACCESSORY DRIVE		
06R0380370 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0380370 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0380370 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0380370 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0380370 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0380370 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0380370 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0380370 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0380370 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0380370 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0380370 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0380370 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0380370 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0380370 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0380370 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0380370 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0380370 THRU CURRENT	4.6000A	*
OIL PAN		
06R0380370 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0380370 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0380370 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0380370 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0380370 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0380370 THRU CURRENT	5.3000B	*
FAN		
06R0380370 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0380370 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0380370 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0380370 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ENGINE MOUNTING AND BASE		
06R0380370 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0380370 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0396893 THRU 06R0411567	1.1000	497
06R0411568 THRU 06R0474133	1.1000	559
06R0474134 THRU 06R0473465	1.1000	*
06R0473466 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0396893 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0396893 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0396893 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0396893 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0396893 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0396893 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0403583 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0396893 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0396893 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0396893 THRU 06R0448850	1.7000	1126
06R0448851 THRU 06R0449159	1.7000	1148
06R0449160 THRU 06R0453238	1.7000	1126
06R0453239 THRU 06R0454920	1.7000	1148
06R0454921 THRU 06R0466271	1.7000	1126
06R0466272 THRU 06R0469254	1.7000	1148
06R0469255 THRU CURRENT	1.7000	1126
ACCESSORY DRIVE		
06R0396893 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0396893 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0396893 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0396893 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0396893 THRU CURRENT	2.1000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL PUMP		
06R0396893 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0396893 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0396893 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0396893 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0396893 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0396893 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0396893 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0396893 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0396893 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0396893 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0396893 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0396893 THRU CURRENT	4.6000A	*
OIL PAN		
06R0396893 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0396893 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0396893 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0396893 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0396893 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0396893 THRU CURRENT	5.3000B	*
FAN		
06R0396893 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0396893 THRU CURRENT	6.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0396893	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0396893	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0389951 THRU 06R0406983	1.1000	550
06R0406984 THRU 06R0421802	1.1000	497
06R0421803 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0389951 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0389951 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0389951 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0389951 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0389951 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0389951 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0389951 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0389951 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0389951 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0389951 THRU CURRENT	1.7000	1126
ACCESSORY DRIVE		
06R0389951 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0389951 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0389951 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0389951 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0389951 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0389951 THRU CURRENT	2.2000	*
FUEL LINES AND FUEL COOLER		
06R0389951 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0389951 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0389951 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0389951 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0389951 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0389951 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0389951 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0389951 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0389951 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0389951 THRU CURRENT	4.6000A	*
OIL PAN		
06R0389951 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0389951 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0389951 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0389951 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0389951 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0389951 THRU CURRENT	5.3000B	*
FAN		
06R0389951 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0389951 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0389951 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0389951 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0375201	THRU 06R0394273	1.1000	497
06R0394274	THRU 06R0394594	1.1000	550
06R0394595	THRU 06R0393714	1.1000	497
06R0393715	THRU 06R0394102	1.1000	550
06R0394103	THRU 06R0394650	1.1000	*
06R0394651	THRU 06R0394104	1.1000	497
06R0394105	THRU 06R0403895	1.1000	*
06R0403896	THRU 06R0394212	1.1000	497
06R0394213	THRU 06R0403982	1.1000	*
06R0403983	THRU 06R0408263	1.1000	497
06R0408264	THRU 06R0408334	1.1000	*
06R0408335	THRU 06R0408350	1.1000	497
06R0408351	THRU 06R0408373	1.1000	*
06R0408374	THRU 06R0408526	1.1000	497
06R0408527	THRU 06R0408776	1.1000	*
06R0408777	THRU 06R0408475	1.1000	559
06R0408476	THRU 06R0408668	1.1000	*
06R0408669	THRU 06R0408689	1.1000	559
06R0408690	THRU 06R0408750	1.1000	*
06R0408751	THRU 06R0407486	1.1000	559
06R0407487	THRU 06R0411347	1.1000	497
06R0411348	THRU 06R0408476	1.1000	559
06R0408477	THRU 06R0414289	1.1000	497
06R0414290	THRU 06R0442206	1.1000	559
06R0442207	THRU 06R0442074	1.1000	*
06R0442075	THRU 06R0442241	1.1000	559
06R0442242	THRU 06R0442064	1.1000	*
06R0442065	THRU 06R0442403	1.1000	559
06R0442404	THRU 06R0441251	1.1000	*
06R0441252	THRU 06R0442533	1.1000	559
06R0442534	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0375201	THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET			
06R0375201	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0375201	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0375201	THRU CURRENT	1.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
VIBRATION DAMPER		
06R0375201 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0375201 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0375201 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0375201 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0375201 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0375201 THRU 06R0394273	1.7000	1114
06R0394274 THRU CURRENT	1.7000	1126
ACCESSORY DRIVE		
06R0375201 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0375201 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0375201 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0375201 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0375201 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0375201 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0375201 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0375201 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0375201 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0375201 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0375201 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0375201 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0375201 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0375201 THRU CURRENT	4.2000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL COOLER AND MARINE GEAR LINES		
06R0375201 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0375201 THRU CURRENT	4.5000A	*
06R0434081 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0375201 THRU CURRENT	4.6000A	*
OIL PAN		
06R0375201 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0449970 THRU CURRENT	4.8000A	*
06R0375201 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0375201 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0375201 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0375201 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0375201 THRU CURRENT	5.3000B	*
FAN		
06R0375201 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0418066 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0375201 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0451125 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0375201 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0375201 THRU CURRENT	12.4000A	*
HYDRAULIC PUMP		
06R0438936 THRU CURRENT	12.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0414180 THRU 06R0448957	1.1000	582
06R0448958 THRU 06R0421424	1.1000	*
06R0421425 THRU 06R0459459	1.1000	582
06R0459460 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0414180 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0414180 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0414180 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0414180 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0414180 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0414180 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0414180 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0414180 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0414180 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0414180 THRU 06R0448957	1.7000	1146
06R0448958 THRU 06R0448705	1.7000	1158
06R0448706 THRU 06R0455494	1.7000	1146
06R0455495 THRU 06R0442798	1.7000	1158
06R0442799 THRU 06R0459458	1.7000	1146
06R0459459 THRU 06R0421424	1.7000	1158
06R0421425 THRU 06R0459459	1.7000	1146
06R0459460 THRU CURRENT	1.7000	1158
ACCESSORY DRIVE		
06R0414180 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0414180 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0414180 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0414180 THRU CURRENT	2.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
INJECTOR, CONTROLS ELECTRONIC		
06R0414180 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0414180 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0414180 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0414180 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0414180 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0414180 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0414180 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0414180 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0414180 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0414180 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0414180 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0414180 THRU CURRENT	4.5000A	*
06R0455488 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0414180 THRU CURRENT	4.6000A	*
OIL PAN		
06R0414180 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0414180 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0414180 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0414180 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0414180 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0414180 THRU CURRENT	5.3000B	*
FAN		
06R0414180 THRU CURRENT	5.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER FILTER		
06R0455488 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0414180 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0449077 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0414180 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0414180 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0133315 THRU 06R0211381	1.1000	451
06R0211382 THRU 06R0202276	1.1000	497
06R0202277 THRU 06R0211164	1.1000	451
06R0211165 THRU 06R0210301	1.1000	497
06R0210302 THRU 06R0211168	1.1000	451
06R0211169 THRU 06R0348306	1.1000	497
06R0348307 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0133315 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0133315 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0133315 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0133315 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0133315 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0133315 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0133315 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0133315 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0133315 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0133315 THRU CURRENT	1.7000	884
06R0133315 THRU CURRENT	1.7000	923
06R0133315 THRU CURRENT	1.7000	1033
06R0133315 THRU CURRENT	1.7000	1036
06R0133315 THRU CURRENT	1.7000	1115
06R0133315 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0133315 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0133315 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0133315 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0133315 THRU CURRENT	2.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
INJECTOR, CONTROLS ELECTRONIC		
06R0133315 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0133315 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0133315 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0133315 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0133315 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0133315 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0133315 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0133315 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0133315 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0133315 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0133315 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0133315 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0133315 THRU CURRENT	4.6000A	*
OIL PAN		
06R0133315 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0133315 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0133315 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0133315 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0133315 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0133315 THRU CURRENT	5.3000B	*
FAN		
06R0133315 THRU CURRENT	5.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER FILTER		
06R0181275 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0133315 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0310505 THRU CURRENT	6.2000A	*
BATTERY, CHARGING GENERATOR		
06R0304331 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0383204 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0133315 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0133315 THRU CURRENT	12.4000A	*
HYDRAULIC PUMP		
06R0375202 THRU CURRENT	12.5000A	*
APPEARANCE PACKAGE PARTS		
06R0295976 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0323272 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0323272 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0323272 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0323272 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0323272 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0323272 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0323272 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0324887 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0323272 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0323272 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0380165 THRU CURRENT	1.7000	1115
06R0380165 THRU CURRENT	1.7000	1121
06R0323272 THRU 06R0380164	1.7000	1033
06R0323272 THRU 06R0380164	1.7000	1036
ACCESSORY DRIVE		
06R0323272 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0323272 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0323272 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0323272 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0333357 THRU CURRENT	2.1000B	*
06R0323272 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0323272 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0323272 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0323272 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0323272 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0323272 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0323272 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0323272 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0323272 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0323272 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0323272 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0323272 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0323272 THRU CURRENT	4.6000A	*
OIL PAN		
06R0323272 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0323272 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0323272 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0323272 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0323272 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0323272 THRU CURRENT	5.3000B	*
FAN		
06R0323272 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0323272 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0351180 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0327256 THRU CURRENT	7.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0323272	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0323272	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0316893 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0316893 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0316893 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0316893 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0316893 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0316893 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0316893 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0316893 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0328938 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0316893 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0316893 THRU 06R0381203	1.7000	1033
06R0381204 THRU CURRENT	1.7000	1115
ACCESSORY DRIVE		
06R0316893 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0316893 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0316893 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0316893 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0316893 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0316893 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0316893 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0316893 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0316893 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0316893 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0316893 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0316893 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0316893 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0316893 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0316893 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0316893 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0316893 THRU CURRENT	4.6000A	*
OIL PAN		
06R0316893 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0316893 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0316893 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0316893 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0316893 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0316893 THRU CURRENT	5.3000B	*
FAN		
06R0316893 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0316893 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0328938 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0316893 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0135316 THRU CURRENT	1.1000	451
06R0135316 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0135316 THRU 06R0304709	1.2000	176
06R0304710 THRU 06R0305486	1.2000	*
06R0305487 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0135316 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0135316 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0135316 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0135316 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0135316 THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT		
06R0330263 THRU CURRENT	1.3000D	*
FLYWHEEL		
06R0135316 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0135879 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0135316 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
.....	1.7000	*
06R0135316 THRU 06R0378502	1.7000	895
06R0135316 THRU 06R0378502	1.7000	884
06R0135316 THRU 06R0378502	1.7000	1033
06R0135316 THRU 06R0378502	1.7000	1036
06R0330264 THRU 06R0378502	1.7000	1096
06R0330264 THRU 06R0378502	1.7000	1103
06R0378033 THRU 06R0378502	1.7000	1115
06R0377848 THRU 06R0378502	1.7000	1116
06R0378404 THRU 06R0378502	1.7000	1119
ACCESSORY DRIVE		
06R0135316 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0135316 THRU CURRENT	1.8000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ROCKER COVER		
06R0135316 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0135316 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0135316 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0135316 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0135316 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0135316 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0135879 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0135316 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0135316 THRU 06R0255756	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0135316 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0135316 THRU 06R0255756	4.1000C	38
OIL FILTER		
06R0135316 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0135316 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0135316 THRU CURRENT	4.5000A	*
06R0190829 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0135316 THRU CURRENT	4.6000A	*
OIL PAN		
06R0135316 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0317986 THRU CURRENT	4.8000A	*
06R0135316 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0135316 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0135316 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0135316 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0135316 THRU CURRENT	5.3000B	*
FAN		
06R0135316 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0283212 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0135316 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0299570 THRU CURRENT	7.1000A	*
CRT AND LCD DISPLAY SYSTEM ELECTRONIC		
06R0278271 THRU CURRENT	7.7000C	*
ENGINE MOUNTING AND BASE		
06R0135316 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0135316 THRU CURRENT	12.4000A	*
HYDRAULIC PUMP		
06R0135316 THRU CURRENT	12.5000A	*
APPEARANCE PACKAGE PARTS		
06R0308724 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0372090 THRU 06R0408510	1.1000	497
06R0408511 THRU 06R0408531	1.1000	*
06R0408532 THRU 06R0408538	1.1000	497
06R0408539 THRU 06R0409459	1.1000	*
06R0409460 THRU 06R0398030	1.1000	559
06R0398031 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0375197 THRU 06R0377362	1.2000	176
06R0377363 THRU 06R0377005	1.2000	176
ENGINE, LIFTER BRACKET		
06R0372090 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0372090 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0372090 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0372090 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0372090 THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT		
06R0375197 THRU CURRENT	1.3000D	*
FLYWHEEL		
06R0372090 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0372090 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0372090 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0372090 THRU CURRENT	1.7000	1033
06R0372090 THRU CURRENT	1.7000	1103
06R0372090 THRU CURRENT	1.7000	1115
06R0372090 THRU CURRENT	1.7000	1116
06R0507051 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0372090 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0372090 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0372090 THRU CURRENT	1.8000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL INJECTOR		
06R0372090 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0372090 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0372090 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0372090 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0372090 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0372090 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0372090 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0372090 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0372090 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0372090 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0372090 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0372090 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0372090 THRU CURRENT	4.5000A	*
06R0376625 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0372090 THRU CURRENT	4.6000A	*
OIL PAN		
06R0372090 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0478087 THRU CURRENT	4.8000A	*
06R0372090 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0372090 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0372090 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0372090 THRU CURRENT	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS		
06R0372090 THRU CURRENT	5.3000B	*
FAN		
06R0372090 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0372090 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0373303 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0372090 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0372090 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0266647 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0266647 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0266647 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0266647 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0266647 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0266647 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0266647 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0266647 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0266647 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0266647 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0301767 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0266647 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0266647 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0266647 THRU CURRENT	1.8000A	*
06R0266647 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0266647 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0266647 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0266647 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0266647 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0266647 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0266647 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0266647 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0266647 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0266647 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0266647 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0266647 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0266647 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0266647 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0266647 THRU CURRENT	4.6000A	*
OIL PAN		
06R0266647 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0266647 THRU CURRENT	4.8000A	*
06R0266647 THRU CURRENT	4.8000A	*
06R0266647 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0266647 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0266647 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0266647 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0266647 THRU CURRENT	5.3000B	*
FAN		
06R0266647 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0266647 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0266647 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0266647 THRU CURRENT	7.1000A	*
TACHOMETER DRIVE		
06R0266647 THRU CURRENT	7.4000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0266647	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0266647	THRU CURRENT	12.4000A	*
HYDRAULIC PUMP			
06R0280813	THRU CURRENT	12.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	106
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	370
06R0004651 THRU CURRENT	1.6000	406
CAMSHAFT AND GEAR TRAIN	1.7000	589
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU CURRENT	1.8000	362
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP	2.2000	256
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP	5.1000	263
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0155619	1.1000	365
06R0155620 THRU 06R0155516	1.1000	451
06R0155517 THRU 06R0157307	1.1000	365
06R0157308 THRU 06R0157653	1.1000	451
06R0157654 THRU 06R0157057	1.1000	365
06R0157058 THRU CURRENT	1.1000	451
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
PRIOR TO STD OPTION	1.3000	106
STD OPTION	1.3000	*
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL, HOUSING	1.5000A	*
CONNECTING ROD AND PISTON	1.6000	*
CAMSHAFT AND GEAR TRAIN	1.7000	753
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	*
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR	4.1000C	*
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP	5.1000	*
THERMOSTAT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
WATER FILTER	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS	6.2000A	*
BATTERY, CHARGING GENERATOR	7.1000A	*
STARTING MOTOR	7.3000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	106
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	370
06R0004651 THRU 06R0016009	1.6000	406
06R0016010 THRU PRIOR TO STD OPTION	1.6000	421
STD OPTION	1.6000	*
CAMSHAFT AND GEAR TRAIN		
THRU 06R0013158	1.7000	589
06R0013159 THRU 06R0019286	1.7000	725
06R0019287 THRU 06R0021635	1.7000	738
06R0021636 THRU CURRENT	1.7000	753
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU PRIOR TO STD OPTION	1.8000	362
STD OPTION	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP		
PRIOR TO STD OPTION	2.2000	256
STD OPTION	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
THRU 06R0016592	5.1000	263
06R0016593 THRU CURRENT	5.1000	270
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0115450	1.1000	365
06R0115451 THRU CURRENT	1.1000	*
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
PRIOR TO STD OPTION	1.3000	106
STD OPTION	1.3000	*
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL, HOUSING	1.5000A	*
CONNECTING ROD AND PISTON	1.6000	*
CAMSHAFT AND GEAR TRAIN	1.7000	753
CAMSHAFT AND GEAR TRAIN	1.7000	766
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	198
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR	4.1000C	38
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
PRIOR TO STD OPTION	5.1000	271
STD OPTION	5.1000	*
THERMOSTAT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
PRIOR TO STD OPTION	5.2000C	464
STD OPTION	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0134993 THRU CURRENT	1.1000	451
CYLINDER HEAD		
06R0134993 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0134993 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0134993 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0134993 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0134993 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0134993 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0134993 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0134993 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0134993 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0134993 THRU CURRENT	1.7000	884
ACCESSORY DRIVE		
06R0134993 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0134993 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0134993 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0134993 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0134993 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0134993 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0134993 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0134993 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0134993 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0134993 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0134993 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0134993 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0134993 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0134993 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0134993 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0134993 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0134993 THRU CURRENT	4.6000A	*
OIL PAN		
06R0134993 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0134993 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0134993 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0134993 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0134993 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0134993 THRU CURRENT	5.3000B	*
FAN		
06R0134993 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0134993 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0134993 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0134993 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0165083	1.1000	365
06R0165084 THRU CURRENT	1.1000	451
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	260
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	106
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	161
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)		
THRU 06R0165083	1.5000A	758
06R0165084 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0165083	1.6000	423
06R0165084 THRU 06R0173931	1.6000	486
06R0173932 THRU CURRENT	1.6000	514
CAMSHAFT AND GEAR TRAIN	1.7000	766
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0165083	1.8000	403
06R0165084 THRU CURRENT	1.8000	455
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP		
THRU 06R0037080	2.2000	262
06R0037081 THRU CURRENT	2.2000	265
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	198
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR		
THRU 06R0165083	4.1000C	42
06R0165084 THRU CURRENT	4.1000C	38
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM	4.8000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
PRIOR TO STD OPTION	5.1000	271
STD OPTION	5.1000	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
BATTERY, CHARGING GENERATOR	7.1000A	*
TACHOMETER DRIVE	7.4000B	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0475002 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0475002 THRU 06R0525865	1.2000	176
06R0525866 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0475002 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0475002 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0475002 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0475002 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0475002 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0475002 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0475002 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0475002 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0475002 THRU 06R0505474	1.7000	1158
06R0505475 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0475002 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0475002 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0475002 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0475002 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0475002 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0475002 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0475002 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0475002 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0475002 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0471864 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0475002 THRU 06R0480836	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0475002 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0475002 THRU 06R0480836	4.1000C	38
OIL FILTER		
06R0475002 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0475002 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0475002 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0475002 THRU CURRENT	4.6000A	*
OIL PAN		
06R0475002 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0506316 THRU CURRENT	4.8000A	*
06R0475002 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0475002 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0475002 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0475002 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0475002 THRU CURRENT	5.3000B	*
FAN		
06R0475002 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0498487 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0475002 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0475002 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0475002 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR COMPRESSOR		
06R0475002 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0481890 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0481890 THRU 06R0511038	1.2000	176
06R0511039 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0481890 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0481890 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0481890 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0481890 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0481890 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0481890 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0481890 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0481890 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0481890 THRU 06R0488486	1.7000	1158
06R0488487 THRU 06R0511038	1.7000	1174
06R0511039 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0481890 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0481890 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0481890 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0481890 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0481890 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0481890 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0481890 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0481890 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0481890 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0481890 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0481890 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0481890 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0481890 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0481890 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0481890 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0481890 THRU CURRENT	4.5000A	*
06R0488487 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0481890 THRU CURRENT	4.6000A	*
OIL PAN		
06R0481890 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0481890 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0481890 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0481890 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0481890 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0481890 THRU CURRENT	5.3000B	*
FAN		
06R0481890 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0481890 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0481890 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0481890 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0472047 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0472047 THRU 06R0509086	1.2000	176
06R0509087 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0472047 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0472047 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0472047 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0472047 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0483260 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0472047 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0472047 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0472047 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0472047 THRU 06R0506526	1.7000	1170
06R0506527 THRU 06R0503534	1.7000	1182
06R0503535 THRU 06R0508448	1.7000	1170
06R0508449 THRU CURRENT	1.7000	1182
ACCESSORY DRIVE		
06R0472047 THRU CURRENT	1.7000B	*
06R0472047 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0472047 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0472047 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0472047 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0472047 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0472047 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0472047 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0472047 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0472047 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0472047 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0472047 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0472047 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0472047 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0472047 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0472047 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0472047 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0472047 THRU CURRENT	4.6000A	*
OIL PAN		
06R0472047 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0494111 THRU CURRENT	4.8000A	*
06R0472047 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0472047 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0472047 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0472047 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0472047 THRU CURRENT	5.3000B	*
FAN		
06R0472047 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0480014 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0472047 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0472047 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ENGINE MOUNTING AND BASE		
06R0472047 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0472047 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0474104 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0474104 THRU 06R0511799	1.2000	176
06R0511800 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0474104 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0474104 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0474104 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0474104 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0475194 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0474104 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0474104 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0474104 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0474104 THRU 06R0506370	1.7000	1170
06R0506371 THRU CURRENT	1.7000	1182
ACCESSORY DRIVE		
06R0474104 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0474104 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0474104 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0474104 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0474104 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0474104 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0474104 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0474104 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0474104 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0474104 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0474104 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0474104 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0474104 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0474104 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0474104 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0474104 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0474104 THRU CURRENT	4.6000A	*
OIL PAN		
06R0474104 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0474104 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0474104 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0474104 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0474104 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0474104 THRU CURRENT	5.3000B	*
FAN		
06R0474104 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0474104 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0474104 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0474104 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0475406 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0475406 THRU 06R0511167	1.2000	176
06R0511168 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0475406 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0475406 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0475406 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0475406 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0475406 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0475406 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0475406 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0475406 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0475406 THRU 06R0506123	1.7000	1170
06R0506124 THRU CURRENT	1.7000	1182
ACCESSORY DRIVE		
06R0475406 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0475406 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0475406 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0475406 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0475406 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0475406 THRU CURRENT	2.2000	*
FUEL LINES AND FUEL COOLER		
06R0475406 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0475406 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0475406 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0475406 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0475406 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0475406 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0475406 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0475406 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0475406 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0475406 THRU CURRENT	4.6000A	*
OIL PAN		
06R0475406 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0475406 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0475406 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0475406 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0475406 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0475406 THRU CURRENT	5.3000B	*
FAN		
06R0475406 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0475406 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0475406 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0475406 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0471878 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0471878 THRU 06R0508998	1.2000	176
06R0508999 THRU 06R0506770	1.2000	485
06R0506771 THRU 06R0509057	1.2000	176
06R0509058 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0471878 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0471878 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0471878 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0471878 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0471878 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0471878 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0471878 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0471878 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0471878 THRU 06R0506069	1.7000	1170
06R0506070 THRU CURRENT	1.7000	1182
ACCESSORY DRIVE		
06R0471878 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0471878 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0471878 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0471878 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0471878 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0471878 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0471878 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0471878 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0471878 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0471878 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0471878 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0471878 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0471878 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0471878 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0471878 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0471878 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0471878 THRU CURRENT	4.6000A	*
OIL PAN		
06R0471878 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0472484 THRU CURRENT	4.8000A	*
06R0471878 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0471878 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0471878 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0471878 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0471878 THRU CURRENT	5.3000B	*
FAN		
06R0471878 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0471878 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0521579 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0471878 THRU CURRENT	11.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR COMPRESSOR		
06R0471878 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0463652	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0463652	THRU 06R0509336	1.2000	176
06R0509337	THRU 06R0508853	1.2000	485
06R0508854	THRU 06R0509456	1.2000	176
06R0509457	THRU 06R0507551	1.2000	485
06R0507552	THRU 06R0510192	1.2000	176
06R0510193	THRU 06R0501837	1.2000	485
06R0501838	THRU 06R0508993	1.2000	176
06R0508994	THRU 06R0492982	1.2000	485
06R0492983	THRU 06R0524280	1.2000	176
06R0524281	THRU 06R0493006	1.2000	485
06R0493007	THRU 06R0527545	1.2000	176
06R0527546	THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET			
06R0463652	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0463652	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0463652	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0463652	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0463652	THRU CURRENT	1.3000C	*
FLYWHEEL			
06R0463652	THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING			
06R0463652	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0463652	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0463652	THRU 06R0501678	1.7000	1158
06R0501679	THRU 06R0501709	1.7000	1179
06R0501710	THRU 06R0501697	1.7000	1158
06R0501698	THRU 06R0501703	1.7000	1179
06R0501704	THRU 06R0506153	1.7000	1158
06R0506154	THRU 06R0505930	1.7000	1179
06R0505931	THRU 06R0505963	1.7000	1158
06R0505964	THRU 06R0504009	1.7000	1179
06R0504010	THRU 06R0507361	1.7000	1158

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
06R0507362	THRU 06R0501837	1.7000	1179
06R0501838	THRU 06R0507292	1.7000	1158
06R0507293	THRU 06R0492982	1.7000	1179
06R0492983	THRU 06R0524280	1.7000	1158
06R0524281	THRU 06R0493006	1.7000	1179
06R0493007	THRU 06R0527545	1.7000	1158
06R0527546	THRU CURRENT	1.7000	1179
ACCESSORY DRIVE			
06R0463652	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0463652	THRU CURRENT	1.8000	*
ROCKER COVER			
06R0463652	THRU CURRENT	1.8000A	*
FUEL INJECTOR			
06R0463652	THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC			
06R0463652	THRU CURRENT	2.1000B	*
FUEL PUMP			
06R0463652	THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER			
06R0463652	THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER			
06R0463652	THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD			
06R0463652	THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER			
06R0463652	THRU CURRENT	3.5000A	*
OIL PUMP			
06R0463652	THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM			
06R0463652	THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR			
06R0463652	THRU CURRENT	4.1000C	38
OIL FILTER			
06R0463652	THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES			
06R0463652	THRU CURRENT	4.4000A	*
OIL, FILLER			
06R0463652	THRU CURRENT	4.5000A	*
DIPSTICK			
06R0463652	THRU CURRENT	4.6000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL PAN		
06R0463652 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0464935 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0463652 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0463652 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0463652 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0463652 THRU CURRENT	5.3000B	*
FAN		
06R0463652 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0463652 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0463652 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0463652 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0463652 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0463652 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0449529 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0449529 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0449529 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0449529 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0449529 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0449529 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0449529 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0449529 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0449529 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0449529 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0449529 THRU CURRENT	1.7000	1158
ACCESSORY DRIVE		
06R0449529 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0449529 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0449529 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0449529 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0449529 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0449529 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0449529 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0449529 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0449529 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0449529 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0449529 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0449529 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0449529 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0449529 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0449529 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0449529 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0449529 THRU CURRENT	4.6000A	*
OIL PAN		
06R0449529 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0449529 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0449529 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0449529 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0449529 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0449529 THRU CURRENT	5.3000B	*
FAN		
06R0449529 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0449529 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0449529 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0449529 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0472550 THRU 06R0512549	1.1000	559
06R0512550 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0472550 THRU 06R0503421	1.2000	176
06R0503422 THRU 06R0503457	1.2000	*
06R0503458 THRU 06R0509008	1.2000	176
06R0509009 THRU 06R0507072	1.2000	485
06R0507073 THRU 06R0510248	1.2000	176
06R0510249 THRU 06R0507911	1.2000	485
06R0507912 THRU 06R0510614	1.2000	176
06R0510615 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0472550 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0472550 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0472550 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0472550 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0472550 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0473804 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0472550 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0472550 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0472550 THRU 06R0479284	1.7000	1158
06R0479285 THRU 06R0479985	1.7000	1174
06R0479986 THRU 06R0480462	1.7000	1158
06R0480463 THRU 06R0480463	1.7000	1174
06R0480464 THRU 06R0481415	1.7000	1158
06R0481416 THRU 06R0481610	1.7000	1174
06R0481611 THRU 06R0482652	1.7000	1158
06R0482653 THRU 06R0482653	1.7000	1174
06R0482654 THRU 06R0482655	1.7000	1158
06R0482656 THRU 06R0482656	1.7000	1174
06R0482657 THRU 06R0487135	1.7000	1158
06R0487136 THRU 06R0487504	1.7000	1174

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
06R0487505	THRU 06R0485326	1.7000	1158
06R0485327	THRU 06R0488597	1.7000	1174
06R0488598	THRU 06R0487284	1.7000	1158
06R0487285	THRU 06R0488768	1.7000	1174
06R0488769	THRU 06R0489972	1.7000	1158
06R0489973	THRU 06R0489973	1.7000	1174
06R0489974	THRU 06R0491675	1.7000	1158
06R0491676	THRU 06R0491677	1.7000	1174
06R0491678	THRU 06R0491683	1.7000	1158
06R0491684	THRU 06R0492053	1.7000	1174
06R0492054	THRU 06R0491684	1.7000	1158
06R0491685	THRU 06R0492104	1.7000	1174
06R0492105	THRU 06R0497664	1.7000	1158
06R0497665	THRU 06R0497423	1.7000	1174
06R0497424	THRU 06R0498684	1.7000	1158
06R0498685	THRU 06R0498685	1.7000	1174
06R0498686	THRU 06R0500402	1.7000	1158
06R0500403	THRU 06R0501038	1.7000	1174
06R0501039	THRU 06R0501892	1.7000	1158
06R0501893	THRU 06R0502260	1.7000	1174
06R0502261	THRU 06R0502145	1.7000	1158
06R0502146	THRU 06R0503420	1.7000	1174
06R0503421	THRU 06R0503457	1.7000	1158
06R0503458	THRU 06R0503867	1.7000	1174
06R0503868	THRU 06R0506371	1.7000	1158
06R0506372	THRU 06R0509008	1.7000	1179
06R0509009	THRU 06R0509395	1.7000	1187
06R0509396	THRU 06R0511034	1.7000	1179
06R0511035	THRU 06R0511035	1.7000	1187
06R0511036	THRU 06R0510614	1.7000	1179
06R0510615	THRU 06R0511458	1.7000	1187
06R0511459	THRU 06R0512554	1.7000	1179
06R0512555	THRU 06R0512717	1.7000	1187
06R0512718	THRU 06R0512555	1.7000	1179
06R0512556	THRU 06R0513035	1.7000	1187
06R0513036	THRU 06R0515473	1.7000	1179
06R0515474	THRU 06R0516499	1.7000	1187
06R0516500	THRU 06R0520360	1.7000	1179
06R0520361	THRU 06R0520381	1.7000	1187
06R0520382	THRU 06R0520410	1.7000	1179
06R0520411	THRU 06R0520486	1.7000	1187

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
06R0520487	THRU 06R0521076	1.7000	1179
06R0521077	THRU 06R0523263	1.7000	1187
06R0523264	THRU 06R0523264	1.7000	1179
06R0523265	THRU 06R0523968	1.7000	1187
06R0523969	THRU 06R0526240	1.7000	1179
06R0526241	THRU 06R0526318	1.7000	1187
06R0526319	THRU 06R0528221	1.7000	1179
06R0528222	THRU 06R0528520	1.7000	1187
06R0528521	THRU 06R0529940	1.7000	1179
06R0529941	THRU 06R0530576	1.7000	1187
06R0530577	THRU 06R0532114	1.7000	1179
06R0532115	THRU 06R0532520	1.7000	1187
06R0532521	THRU CURRENT	1.7000	1179
ACCESSORY DRIVE			
06R0472550	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0472550	THRU CURRENT	1.8000	*
ROCKER COVER			
06R0472550	THRU CURRENT	1.8000A	*
FUEL INJECTOR			
06R0472550	THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC			
06R0472550	THRU CURRENT	2.1000B	*
FUEL PUMP			
06R0472550	THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER			
06R0472550	THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER			
06R0472550	THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD			
06R0472550	THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER			
06R0472550	THRU CURRENT	3.5000A	*
OIL PUMP			
06R0472550	THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM			
06R0472550	THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR			
06R0472550	THRU CURRENT	4.1000C	38
OIL FILTER			
06R0472550	THRU CURRENT	4.2000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL COOLER AND MARINE GEAR LINES		
06R0472550 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0473804 THRU CURRENT	4.5000A	*
06R0502261 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0472550 THRU CURRENT	4.6000A	*
OIL PAN		
06R0472550 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0517537 THRU CURRENT	4.8000A	*
06R0474105 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0472550 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0472550 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0472550 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0472550 THRU CURRENT	5.3000B	*
FAN		
06R0472550 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0472550 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0472550 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0472550 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0477933 THRU 06R0512719	1.1000	559
06R0512720 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0477933 THRU 06R0510237	1.2000	176
06R0510238 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0477933 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0477933 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0477933 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0477933 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0477933 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0477933 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0481734 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0477933 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0477933 THRU 06R0506711	1.7000	1158
06R0506712 THRU CURRENT	1.7000	1179
ACCESSORY DRIVE		
06R0477933 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0477933 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0477933 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0477933 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0477933 THRU CURRENT	2.1000B	*
06R0477933 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0477933 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0478825 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

All information subject to change without notice.

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0477933 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0477933 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0477933 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0477933 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0477933 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0477933 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0477933 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0477933 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0477933 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0477933 THRU CURRENT	4.6000A	*
OIL PAN		
06R0477933 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0477933 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0477933 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0477933 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0477933 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0477933 THRU CURRENT	5.3000B	*
FAN		
06R0477933 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0477933 THRU CURRENT	6.1000A	*
EXHAUST MUFFLER AND/OR CONNECTIONS		
06R0477933 THRU CURRENT	6.2000A	*
POWER TAKEOFF AND/OR CLUTCH		
06R0477933 THRU CURRENT	8.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0481734	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0477933	THRU CURRENT	12.4000A	*
HYDRAULIC PUMP			
06R0477933	THRU CURRENT	12.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0464643	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0464643	THRU 06R0509333	1.2000	176
06R0509334	THRU 06R0507867	1.2000	485
06R0507868	THRU 06R0508999	1.2000	176
06R0509000	THRU 06R0497960	1.2000	485
06R0497961	THRU 06R0509011	1.2000	176
06R0509012	THRU 06R0508822	1.2000	485
06R0508823	THRU 06R0509075	1.2000	176
06R0509076	THRU 06R0507893	1.2000	485
06R0507894	THRU 06R0510670	1.2000	176
06R0510671	THRU 06R0497959	1.2000	485
06R0497960	THRU 06R0509397	1.2000	176
06R0509398	THRU 06R0497961	1.2000	485
06R0497962	THRU 06R0510368	1.2000	176
06R0510369	THRU 06R0507894	1.2000	485
06R0507895	THRU 06R0511766	1.2000	176
06R0511767	THRU 06R0495957	1.2000	485
06R0495958	THRU 06R0512559	1.2000	176
06R0512560	THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET			
06R0464643	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0464643	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0464643	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0464643	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0464643	THRU CURRENT	1.3000C	*
FLYWHEEL			
06R0464643	THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING			
06R0464643	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0464643	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0464643	THRU 06R0506070	1.7000	1158
06R0506071	THRU 06R0506009	1.7000	1179
06R0506010	THRU 06R0506085	1.7000	1158

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
06R0506086	THRU 06R0505393	1.7000	1179
06R0505394	THRU 06R0506590	1.7000	1158
06R0506591	THRU 06R0497960	1.7000	1179
06R0497961	THRU 06R0508632	1.7000	1158
06R0508633	THRU 06R0497959	1.7000	1179
06R0497960	THRU 06R0509397	1.7000	1158
06R0509398	THRU 06R0497961	1.7000	1179
06R0497962	THRU 06R0510368	1.7000	1158
06R0510369	THRU 06R0495957	1.7000	1179
06R0495958	THRU 06R0512559	1.7000	1158
06R0512560	THRU CURRENT	1.7000	1179
ACCESSORY DRIVE			
06R0464643	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0464643	THRU CURRENT	1.8000	*
ROCKER COVER			
06R0464643	THRU CURRENT	1.8000A	*
FUEL INJECTOR			
06R0464643	THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC			
06R0464643	THRU CURRENT	2.1000B	*
FUEL PUMP			
06R0464643	THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER			
06R0471876	THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER			
06R0464643	THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD			
06R0464643	THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER			
06R0464643	THRU CURRENT	3.5000A	*
OIL PUMP			
06R0464643	THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM			
06R0464643	THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR			
06R0464643	THRU CURRENT	4.1000C	38
OIL FILTER			
06R0464643	THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES			
06R0464643	THRU CURRENT	4.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
OIL, FILLER			
06R0464643	THRU CURRENT	4.5000A	*
DIPSTICK			
06R0464643	THRU CURRENT	4.6000A	*
OIL PAN			
06R0464643	THRU CURRENT	4.7000A	*
VENTILATING SYSTEM			
06R0501938	THRU CURRENT	4.8000A	*
06R0464643	THRU CURRENT	4.8000A	*
FRESH WATER PUMP			
06R0464643	THRU CURRENT	5.1000	*
THERMOSTAT			
06R0464643	THRU CURRENT	5.2000B	*
WATER BYPASS TUBE			
06R0464643	THRU CURRENT	5.2000C	*
WATER CONNECTIONS			
06R0464643	THRU CURRENT	5.3000B	*
FAN			
06R0464643	THRU CURRENT	5.4000A	*
WATER FILTER			
06R0493874	THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS			
06R0464643	THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR			
06R0464643	THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE			
06R0464643	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0464643	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

	GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK			
06R0510177	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0510177	THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET			
06R0510177	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0510177	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0510177	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0510177	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0510177	THRU CURRENT	1.3000C	*
FLYWHEEL, HOUSING			
06R0510177	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0510177	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0510177	THRU CURRENT	1.7000	1179
ACCESSORY DRIVE			
06R0510177	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0510177	THRU CURRENT	1.8000	*
ROCKER COVER			
06R0510177	THRU CURRENT	1.8000A	*
FUEL INJECTOR			
06R0510177	THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC			
06R0510177	THRU CURRENT	2.1000B	*
FUEL PUMP			
06R0510177	THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER			
06R0510177	THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER			
06R0510177	THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD			
06R0510177	THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER			
06R0510177	THRU CURRENT	3.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL PUMP		
06R0510177 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0510177 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0510177 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0510177 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0510177 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0510177 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0510177 THRU CURRENT	4.6000A	*
OIL PAN		
06R0510177 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0510177 THRU CURRENT	4.8000A	*
06R0510177 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0510177 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0510177 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0510177 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0510177 THRU CURRENT	5.3000B	*
FAN		
06R0510177 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0510177 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0510177 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0510177 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0395934 THRU 06R0407823	1.1000	497
06R0407824 THRU 06R0407835	1.1000	*
06R0407836 THRU 06R0408773	1.1000	497
06R0408774 THRU 06R0408104	1.1000	559
06R0408105 THRU 06R0410796	1.1000	497
06R0410797 THRU 06R0412031	1.1000	559
06R0412032 THRU 06R0442276	1.1000	566
06R0442277 THRU 06R0440200	1.1000	*
06R0440201 THRU 06R0442268	1.1000	566
06R0442269 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0395934 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0395934 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0395934 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0395934 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0395934 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0395934 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0396145 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0395934 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0395934 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0395934 THRU 06R0444678	1.7000	1116
06R0444679 THRU 06R0450682	1.7000	1158
06R0450683 THRU 06R0444686	1.7000	1116
06R0444687 THRU 06R0451528	1.7000	1158
06R0451529 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0395934 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0395934 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0395934 THRU CURRENT	1.8000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL INJECTOR		
06R0395934 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0395934 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0395934 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0395934 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0395934 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0395934 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0395934 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0395934 THRU CURRENT	4.1000A	198
JIL DISTRIBUTION SYSTEM		
06R0395934 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0395934 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0395934 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0395934 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0395934 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0395934 THRU CURRENT	4.6000A	*
OIL PAN		
06R0395934 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0395934 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0395934 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0395934 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0395934 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0395934 THRU CURRENT	5.3000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FAN		
06R0395934 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0395934 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0395934 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0395934 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0395934 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0395934 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0383487 THRU 06R0395515	1.1000	537
06R0395516 THRU 06R0394317	1.1000	497
06R0394318 THRU 06R0398709	1.1000	*
06R0398710 THRU 06R0407650	1.1000	497
06R0407651 THRU 06R0407972	1.1000	*
06R0407973 THRU 06R0408792	1.1000	497
06R0408793 THRU 06R0409093	1.1000	559
06R0409094 THRU 06R0409114	1.1000	*
06R0409115 THRU 06R0411209	1.1000	559
06R0411210 THRU 06R0411574	1.1000	566
06R0411575 THRU 06R0412017	1.1000	559
06R0412018 THRU 06R0409488	1.1000	566
06R0409489 THRU 06R0412625	1.1000	559
06R0412626 THRU 06R0407116	1.1000	566
06R0407117 THRU 06R0413308	1.1000	497
06R0413309 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0383487 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0383487 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0383487 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0383487 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0383487 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0383487 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0383487 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0383487 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0383487 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0383487 THRU CURRENT	1.7000	1116
06R0383487 THRU CURRENT	1.7000	1119
ACCESSORY DRIVE		
06R0383487 THRU CURRENT	1.7000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
VALVE AND INJECTOR OPERATING MECHANISM		
06R0383487 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0383487 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0383487 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0383487 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0383487 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0383487 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0383487 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0383487 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0383487 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0383487 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0383487 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0383487 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0383487 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0383487 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0383487 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0383487 THRU CURRENT	4.6000A	*
OIL PAN		
06R0383487 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0383487 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0383487 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0383487 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0383487 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0383487 THRU CURRENT	5.3000B	*
FAN		
06R0383487 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0447387 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0383487 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0450621 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0383487 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0383487 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0419760 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0419760 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0419760 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0419760 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0419760 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0419760 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0419760 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0419760 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0419760 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0419760 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0419760 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0419760 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0419760 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0419760 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0419760 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0419760 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0419760 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0419760 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0419760 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0419760 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0419760 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0419760 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0419760 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0419760 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0419760 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0419760 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0419760 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0419760 THRU CURRENT	4.6000A	*
OIL PAN		
06R0419760 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0419760 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0419760 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0419760 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0419760 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0419760 THRU CURRENT	5.3000B	*
FAN		
06R0419760 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0419760 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0419760 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0419760 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0371892 THRU CURRENT	1.1000	*
06R0371892 THRU CURRENT	1.1000	537
06R0371892 THRU CURRENT	1.1000	550
06R0371892 THRU CURRENT	1.1000	497
06R0371892 THRU CURRENT	1.1000	559
06R0371892 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0371892 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0371892 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0371892 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0371892 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0371892 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0371892 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0371892 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0371892 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0371892 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0371892 THRU 06R0378658	1.7000	1103
06R0378659 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0371892 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0371892 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0371892 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0371892 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0378659 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0371892 THRU CURRENT	2.2000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL FILTER AND STRAINER		
06R0371892 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0371892 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0371892 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0371892 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0371892 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0371892 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0371892 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0371892 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0371892 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0371892 THRU CURRENT	4.5000A	*
06R0395061 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0371892 THRU CURRENT	4.6000A	*
OIL PAN		
06R0371892 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0449978 THRU CURRENT	4.8000A	*
06R0371892 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0371892 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0371892 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0371892 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0371892 THRU CURRENT	5.3000B	*
FAN		
06R0371892 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0371892 THRU CURRENT	6.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
BATTERY, CHARGING GENERATOR		
06R0396646 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0371892 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0371892 THRU CURRENT	12.4000A	*
APPEARANCE PACKAGE PARTS		
06R0381791 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0423455 THRU 06R0529943	1.1000	566
06R0529944 THRU 06R0527519	1.1000	*
06R0527520 THRU CURRENT	1.1000	566
CYLINDER HEAD		
06R0423455 THRU 06R0509434	1.2000	176
06R0509435 THRU 06R0508016	1.2000	485
06R0508017 THRU 06R0511691	1.2000	176
06R0511692 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0423455 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0423455 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0423455 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0423455 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0423455 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0423455 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0423455 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0423455 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0423455 THRU 06R0507116	1.7000	1116
06R0507117 THRU 06R0519241	1.7000	1185
06R0519242 THRU 06R0518200	1.7000	1191
06R0518201 THRU 06R0527512	1.7000	1185
06R0527513 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0423455 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0423455 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0423455 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0423455 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0423455 THRU CURRENT	2.1000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL PUMP		
06R0423455 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0423455 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0423455 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0423455 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0423455 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0423455 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0423455 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0423455 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0423455 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0423455 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0423455 THRU CURRENT	4.5000A	*
06R0424425 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0423455 THRU CURRENT	4.6000A	*
OIL PAN		
06R0423455 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0503869 THRU CURRENT	4.8000A	*
06R0423455 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0423455 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0423455 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0423455 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0423455 THRU CURRENT	5.3000B	*
FAN		
06R0423455 THRU CURRENT	5.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0423455 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0423455 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0423455 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0423455 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0262435 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0262435 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0262435 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0262435 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0262435 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0262435 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0273656 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0262435 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0262435 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0262435 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0262435 THRU 06R0380238	1.7000	1054
06R0380239 THRU CURRENT	1.7000	1117
ACCESSORY DRIVE		
06R0262435 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0262435 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0262435 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0262435 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0276691 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0262435 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0262435 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0262435 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0262435 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0262435 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0262435 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0262435 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0262435 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0262435 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0262435 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0262435 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0262435 THRU CURRENT	4.6000A	*
OIL PAN		
06R0262435 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0322353 THRU CURRENT	4.8000A	*
06R0262435 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0262435 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0262435 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0262435 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0262435 THRU CURRENT	5.3000B	*
FAN		
06R0262435 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0262435 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0262435 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0262435 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0262435 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0262435 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0319292 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0319292 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0319292 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0319292 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0319292 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0319292 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0319292 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0327171 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0319292 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0319292 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0319292 THRU CURRENT	1.7000	1054
06R0319292 THRU CURRENT	1.7000	1070
06R0319292 THRU CURRENT	1.7000	1117
06R0319292 THRU CURRENT	1.7000	1130
ACCESSORY DRIVE		
06R0319292 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0319292 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0319292 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0319292 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0319292 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0319292 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0319292 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0319292 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0319292 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0319292 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0319292 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0319292 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0319292 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0319292 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0319292 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0319292 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0319292 THRU CURRENT	4.6000A	*
OIL PAN		
06R0319292 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0319292 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0319292 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0319292 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0319292 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0319292 THRU CURRENT	5.3000B	*
FAN		
06R0319292 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0319292 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0375837 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0319292 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0319292 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0316594 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0316594 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0316594 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0316594 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0316594 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0316594 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0316594 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0316594 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0316594 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0316594 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0316594 THRU 06R0378816	1.7000	1054
06R0378817 THRU CURRENT	1.7000	1117
ACCESSORY DRIVE		
06R0316594 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0316594 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0316594 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0316594 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0316594 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0316594 THRU CURRENT	2.2000	*
FUEL LINES AND FUEL COOLER		
06R0316594 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0316594 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0316594 THRU CURRENT	3.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL PUMP		
06R0316594 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0316594 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0316594 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0316594 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0316594 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0316594 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0316594 THRU CURRENT	4.6000A	*
OIL PAN		
06R0316594 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0316594 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0316594 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0316594 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0316594 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0316594 THRU CURRENT	5.3000B	*
FAN		
06R0316594 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0316594 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0316594 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0316594 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0260488 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0260488 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0260488 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0260488 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0260488 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0260488 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0260488 THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT		
06R0322035 THRU CURRENT	1.3000D	*
FLYWHEEL		
06R0260488 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0260488 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0260488 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0260488 THRU CURRENT	1.7000	1054
06R0260488 THRU CURRENT	1.7000	1070
06R0260488 THRU CURRENT	1.7000	1094
06R0260488 THRU CURRENT	1.7000	1117
06R0260488 THRU CURRENT	1.7000	1130
ACCESSORY DRIVE		
06R0260488 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0260488 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0260488 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0260488 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0260488 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0260488 THRU CURRENT	2.2000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL FILTER AND STRAINER		
06R0260488 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0260488 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0260488 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0260488 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0260488 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0260488 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0260488 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0260488 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0260488 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0260488 THRU CURRENT	4.5000A	*
06R0311290 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0260488 THRU CURRENT	4.6000A	*
OIL PAN		
06R0260488 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0262207 THRU CURRENT	4.8000A	*
06R0260488 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0260488 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0260488 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0260488 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0260488 THRU CURRENT	5.3000B	*
FAN		
06R0260488 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0278019 THRU CURRENT	5.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0260488 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0367840 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0260488 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0260488 THRU CURRENT	12.4000A	*
APPEARANCE PACKAGE PARTS		
06R0278019 THRU CURRENT	12.7000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0391784 THRU 06R0420178	1.1000	497
06R0420179 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0391784 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0391784 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0391784 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0391784 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0391784 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0391784 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0391784 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0391784 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0391784 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0391784 THRU 06R0406498	1.7000	1133
06R0406499 THRU CURRENT	1.7000	1117
ACCESSORY DRIVE		
06R0391784 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0391784 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0391784 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0391784 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0391784 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0391784 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0391784 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0391784 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0391784 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0391784 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0391784 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0391784 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0391784 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0391784 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0391784 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0391784 THRU CURRENT	4.5000A	*
06R0406499 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0391784 THRU CURRENT	4.6000A	*
OIL PAN		
06R0391784 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0406499 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0391784 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0391784 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0391784 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0391784 THRU CURRENT	5.3000B	*
FAN		
06R0391784 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0391784 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0391784 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0391784 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0504953 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0504953 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0504953 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0504953 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0504953 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0504953 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0504953 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0504953 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0504953 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0504953 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0504953 THRU CURRENT	1.7000	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0504953 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0504953 THRU CURRENT	1.8000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0504953 THRU CURRENT	2.1000B	*
ALTERNATE FUEL SYSTEMS		
06R0504953 THRU CURRENT	2.4000A	*
FUEL LINES AND FUEL COOLER		
06R0504953 THRU CURRENT	2.5000A	*
THROTTLE CONTROLS		
06R0504953 THRU CURRENT	2.9000A	*
AIR INTAKE MANIFOLD		
06R0504953 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0504953 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0504953 THRU CURRENT	4.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL DISTRIBUTION SYSTEM		
06R0504953 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0504953 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0504953 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0504953 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0504953 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0504953 THRU CURRENT	4.6000A	*
OIL PAN		
06R0504953 THRU CURRENT	4.7000A	*
FRESH WATER PUMP		
06R0504953 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0504953 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0504953 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0504953 THRU CURRENT	5.3000B	*
FAN		
06R0504953 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0504953 THRU CURRENT	6.1000A	*
SPARK PLUG,IGNITION COIL,WIRING HARNESS		
06R0504953 THRU CURRENT	7.8000C	*
ENGINE MOUNTING AND BASE		
06R0504953 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0504953 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0402948 THRU 06R0428961	1.1000	497
06R0428962 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0402948 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0402948 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0402948 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0402948 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0402948 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0485959 THRU CURRENT	1.3000C	*
CRANKSHAFT PULLEY BELT		
06R0485959 THRU CURRENT	1.3000D	*
FLYWHEEL		
06R0402948 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0402948 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0402948 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0402948 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0485959 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0402948 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0402948 THRU CURRENT	1.8000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0402948 THRU CURRENT	2.1000B	*
ALTERNATE FUEL SYSTEMS		
06R0428962 THRU CURRENT	2.4000A	*
FUEL LINES AND FUEL COOLER		
06R0485959 THRU CURRENT	2.5000A	*
THROTTLE CONTROLS		
06R0402948 THRU CURRENT	2.9000A	*
AIR INTAKE MANIFOLD		
06R0402948 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0402948 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0402948 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0402948 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0402948 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0402948 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0402948 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0454175 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0402948 THRU CURRENT	4.6000A	*
OIL PAN		
06R0402948 THRU CURRENT	4.7000A	*
FRESH WATER PUMP		
06R0402948 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0402948 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0402948 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0402948 THRU CURRENT	5.3000B	*
FAN		
06R0402948 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0485959 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0402948 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0402948 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0519894 THRU CURRENT	7.3000A	*
SPARK PLUG,IGNITION COIL,WIRING HARNESS		
06R0402948 THRU CURRENT	7.8000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ENGINE MOUNTING AND BASE		
06R0402948 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0454175 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
CYLINDER BLOCK			
06R0377181	THRU 06R0395956	1.1000	497
06R0395957	THRU 06R0398699	1.1000	*
06R0398700	THRU 06R0397635	1.1000	497
06R0397636	THRU 06R0398840	1.1000	*
06R0398841	THRU 06R0404950	1.1000	497
06R0404951	THRU 06R0404793	1.1000	*
06R0404794	THRU 06R0408822	1.1000	497
06R0408823	THRU 06R0397628	1.1000	559
06R0397629	THRU 06R0412170	1.1000	*
06R0412171	THRU 06R0403959	1.1000	559
06R0403960	THRU 06R0414116	1.1000	*
06R0414117	THRU 06R0442224	1.1000	559
06R0442225	THRU CURRENT	1.1000	*
CYLINDER HEAD			
06R0377181	THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET			
06R0377181	THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS			
06R0377181	THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER			
06R0377181	THRU CURRENT	1.3000A	*
VIBRATION DAMPER			
06R0377181	THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY			
06R0395766	THRU CURRENT	1.3000C	*
FLYWHEEL			
06R0377181	THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING			
06R0377181	THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON			
06R0377181	THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN			
06R0377181	THRU 06R0380368	1.7000	1103
06R0380369	THRU 06R0444694	1.7000	1116
06R0444695	THRU 06R0450291	1.7000	1158
06R0450292	THRU CURRENT	1.7000	1116
ACCESSORY DRIVE			
06R0377181	THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM			
06R0377181	THRU CURRENT	1.8000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
ROCKER COVER		
06R0377181 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0377181 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0377181 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0377181 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0377181 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0377181 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0377181 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0377181 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0377181 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0377181 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0377181 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0377181 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0377181 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0377181 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0377181 THRU CURRENT	4.6000A	*
OIL PAN		
06R0377181 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0398361 THRU CURRENT	4.8000A	*
06R0377181 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0377181 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0377181 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0377181 THRU CURRENT	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS		
06R0377181 THRU CURRENT	5.3000B	*
FAN		
06R0377181 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0377181 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0377181 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0377181 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0377181 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0377181 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0394308 THRU 06R0395184	1.1000	*
06R0395185 THRU 06R0408747	1.1000	497
06R0408748 THRU 06R0408793	1.1000	*
06R0408794 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0394308 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0394308 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0394308 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0394308 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0394308 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0394308 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0397460 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0394308 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0394308 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0394308 THRU CURRENT	1.7000	1116
06R0394308 THRU 06R0445394	1.7000	1119
06R0445395 THRU 06R0447801	1.7000	1116
06R0447802 THRU 06R0447795	1.7000	1119
06R0447796 THRU 06R0452552	1.7000	1116
06R0452553 THRU 06R0452344	1.7000	1119
06R0452345 THRU 06R0454908	1.7000	1116
06R0454909 THRU 06R0454942	1.7000	1119
06R0454943 THRU 06R0465224	1.7000	1116
06R0465225 THRU 06R0463585	1.7000	1119
06R0463586 THRU 06R0467710	1.7000	1116
06R0467711 THRU 06R0467922	1.7000	1119
06R0467923 THRU 06R0470805	1.7000	1116
06R0470806 THRU 06R0471564	1.7000	1119
06R0471565 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0394308 THRU CURRENT	1.7000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
VALVE AND INJECTOR OPERATING MECHANISM		
06R0394308 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0394308 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0394308 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0394308 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0394308 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0394308 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0394308 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0394308 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0394308 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0394308 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0394308 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0394308 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0394308 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0394308 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0394308 THRU CURRENT	4.5000A	*
06R0402034 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0394308 THRU CURRENT	4.6000A	*
OIL PAN		
06R0394308 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0394308 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0394308 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0394308 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0394308 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0394308 THRU CURRENT	5.3000B	*
FAN		
06R0394308 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0394308 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0450129 THRU CURRENT	7.1000A	*
ENGINE MOUNTING AND BASE		
06R0394308 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0394308 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0389952 THRU 06R0415145	1.1000	550
06R0415146 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0389952 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0389952 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0389952 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0389952 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0389952 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0389952 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0389952 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0415146 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0389952 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0389952 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0389952 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0389952 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0389952 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0389952 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0389952 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0389952 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0389952 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0389952 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0389952 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0389952 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0389952 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0389952 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0389952 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0389952 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0389952 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0389952 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0389952 THRU CURRENT	4.6000A	*
OIL PAN		
06R0389952 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0389952 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0389952 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0389952 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0389952 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0389952 THRU CURRENT	5.3000B	*
FAN		
06R0389952 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0389952 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0415146 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0389952 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0414121 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0414121 THRU CURRENT	1.2000	*
ENGINE, LIFTER BRACKET		
06R0414121 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0414121 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0414121 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0414121 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0414121 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0414121 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0414121 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0414121 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0414121 THRU CURRENT	1.7000	*
ACCESSORY DRIVE		
06R0414121 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0414121 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0414121 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0414121 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0414121 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0414121 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0414121 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0414121 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0414121 THRU CURRENT	3.3000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0414121 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0414121 THRU CURRENT	4.1000A	*
OIL DISTRIBUTION SYSTEM		
06R0414121 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0414121 THRU CURRENT	4.1000C	*
OIL FILTER		
06R0414121 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0414121 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0414121 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0414121 THRU CURRENT	4.6000A	*
OIL PAN		
06R0414121 THRU CURRENT	4.7000A	*
FRESH WATER PUMP		
06R0414121 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0414121 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0414121 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0414121 THRU CURRENT	5.3000B	*
FAN		
06R0414121 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0414121 THRU CURRENT	6.1000A	*
ENGINE MOUNTING AND BASE		
06R0414121 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0414121 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0375200 THRU 06R0469491	1.1000	497
06R0375200 THRU 06R0469491	1.1000	550
06R0375200 THRU CURRENT	1.1000	*
06R0375200 THRU 06R0469491	1.1000	559
CYLINDER HEAD		
06R0375200 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0375200 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0375200 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0375200 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0375200 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0375200 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0375200 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0375200 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0375200 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0375200 THRU 06R0388659	1.7000	1103
06R0388660 THRU CURRENT	1.7000	1116
ACCESSORY DRIVE		
06R0375200 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0375200 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0375200 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0375200 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0375200 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0375200 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0375200 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0375200 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0375200 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0375200 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0375200 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0375200 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0375200 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0375200 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0375200 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0375200 THRU CURRENT	4.5000A	*
06R0395197 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0375200 THRU CURRENT	4.6000A	*
OIL PAN		
06R0375200 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0403450 THRU CURRENT	4.8000A	*
06R0375200 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0375200 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0375200 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0375200 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0375200 THRU CURRENT	5.3000B	*
FAN		
06R0375200 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0375200 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0398827 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0375200	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0375200	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0431972 THRU 06R0446277	1.1000	559
06R0446278 THRU CURRENT	1.1000	*
CYLINDER HEAD		
06R0431972 THRU 06R0510901	1.2000	176
06R0510902 THRU CURRENT	1.2000	485
ENGINE, LIFTER BRACKET		
06R0431972 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0431972 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0431972 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0431972 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0431972 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0431972 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0431972 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0431972 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0431972 THRU 06R0499812	1.7000	1116
06R0499813 THRU 06R0503498	1.7000	1115
06R0503499 THRU 06R0507745	1.7000	1116
06R0507746 THRU 06R0507917	1.7000	1185
06R0507918 THRU 06R0512761	1.7000	1183
06R0512762 THRU 06R0510943	1.7000	1185
06R0510944 THRU 06R0514596	1.7000	1183
06R0514597 THRU 06R0518986	1.7000	1185
06R0518987 THRU 06R0521566	1.7000	1183
06R0521567 THRU 06R0524993	1.7000	1185
06R0524994 THRU 06R0526844	1.7000	1183
06R0526845 THRU 06R0529512	1.7000	1185
06R0529513 THRU 06R0529850	1.7000	1183
06R0529851 THRU 06R0528768	1.7000	1185
06R0528769 THRU CURRENT	1.7000	1183
ACCESSORY DRIVE		
06R0431972 THRU CURRENT	1.7000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
VALVE AND INJECTOR OPERATING MECHANISM		
06R0431972 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0431972 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0431972 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0431972 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0431972 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0431972 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0431972 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0431972 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0431972 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0431972 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0431972 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0431972 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0431972 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0431972 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0431972 THRU CURRENT	4.5000A	*
06R0431972 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0431972 THRU CURRENT	4.6000A	*
OIL PAN		
06R0431972 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0431972 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0431972 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0431972 THRU CURRENT	5.2000B	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER BYPASS TUBE		
06R0431972 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0431972 THRU CURRENT	5.3000B	*
FAN		
06R0431972 THRU CURRENT	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0431972 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0437354 THRU CURRENT	7.1000A	*
STARTING MOTOR		
06R0510902 THRU CURRENT	7.3000A	*
ENGINE MOUNTING AND BASE		
06R0431972 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0431972 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0152710 THRU 06R0211372	1.1000	451
06R0211373 THRU 06R0434612	1.1000	497
06R0434613 THRU CURRENT	1.1000	559
CYLINDER HEAD		
06R0152710 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0152710 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0152710 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0152710 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0152710 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0170613 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0158432 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0152710 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0152710 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0152710 THRU 06R0434612	1.7000	895
06R0434613 THRU CURRENT	1.7000	1123
ACCESSORY DRIVE		
06R0152710 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0152710 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0152710 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0152710 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0152710 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0152710 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0152710 THRU CURRENT	2.3000A	*
FUEL LINES AND FUEL COOLER		
06R0152710 THRU CURRENT	2.5000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
AIR INTAKE MANIFOLD		
06R0152710 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0152710 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0152710 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0152710 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0152710 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0152710 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0152710 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0152710 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0152710 THRU CURRENT	4.6000A	*
OIL PAN		
06R0152710 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM		
06R0152710 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0152710 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0152710 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0152710 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0152710 THRU CURRENT	5.3000B	*
FAN		
06R0152710 THRU CURRENT	5.4000A	*
WATER FILTER		
06R0158635 THRU CURRENT	5.7000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0152710 THRU CURRENT	6.1000A	*
BATTERY, CHARGING GENERATOR		
06R0173589 THRU CURRENT	7.1000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME		GROUP NO	TYPE
ENGINE MOUNTING AND BASE			
06R0152710	THRU CURRENT	11.1000A	*
AIR COMPRESSOR			
06R0152710	THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
06R0133561 THRU CURRENT	1.1000	451
06R0133561 THRU CURRENT	1.1000	497
CYLINDER HEAD		
06R0133561 THRU 06R0255864	1.2000	176
06R0255865 THRU 06R0259021	1.2000	*
06R0259022 THRU CURRENT	1.2000	176
ENGINE, LIFTER BRACKET		
06R0133561 THRU CURRENT	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
06R0133561 THRU CURRENT	1.3000	*
CRANKSHAFT FRONT COVER		
06R0133561 THRU CURRENT	1.3000A	*
VIBRATION DAMPER		
06R0133561 THRU CURRENT	1.3000B	*
CRANKSHAFT PULLEY		
06R0133561 THRU CURRENT	1.3000C	*
FLYWHEEL		
06R0133561 THRU CURRENT	1.4000A	*
FLYWHEEL, HOUSING		
06R0133561 THRU CURRENT	1.5000A	*
CONNECTING ROD AND PISTON		
06R0133561 THRU CURRENT	1.6000	*
CAMSHAFT AND GEAR TRAIN		
06R0133561 THRU CURRENT	1.7000	895
06R0133561 THRU CURRENT	1.7000	1046
06R0133561 THRU CURRENT	1.7000	1123
ACCESSORY DRIVE		
06R0133561 THRU CURRENT	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
06R0133561 THRU CURRENT	1.8000	*
ROCKER COVER		
06R0133561 THRU CURRENT	1.8000A	*
FUEL INJECTOR		
06R0133561 THRU CURRENT	2.1000A	*
INJECTOR, CONTROLS ELECTRONIC		
06R0133561 THRU CURRENT	2.1000B	*
FUEL PUMP		
06R0133561 THRU CURRENT	2.2000	*
FUEL FILTER AND STRAINER		
06R0133561 THRU CURRENT	2.3000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
FUEL LINES AND FUEL COOLER		
06R0133561 THRU CURRENT	2.5000A	*
AIR INTAKE MANIFOLD		
06R0133561 THRU CURRENT	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER		
06R0133561 THRU CURRENT	3.5000A	*
OIL PUMP		
06R0133561 THRU 06R0255864	4.1000A	198
06R0255865 THRU 06R0259021	4.1000A	*
06R0259022 THRU CURRENT	4.1000A	198
OIL DISTRIBUTION SYSTEM		
06R0133561 THRU CURRENT	4.1000B	*
OIL, PRESSURE REGULATOR		
06R0133561 THRU 06R0255864	4.1000C	38
06R0255865 THRU 06R0259021	4.1000C	*
06R0259022 THRU CURRENT	4.1000C	38
OIL FILTER		
06R0133561 THRU CURRENT	4.2000A	*
OIL COOLER AND MARINE GEAR LINES		
06R0133561 THRU CURRENT	4.4000A	*
OIL, FILLER		
06R0133561 THRU CURRENT	4.5000A	*
OIL FILLER CAP		
06R0188360 THRU CURRENT	4.5000A	*
DIPSTICK		
06R0133561 THRU CURRENT	4.6000A	*
OIL PAN		
06R0133561 THRU CURRENT	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)		
06R0133561 THRU CURRENT	4.8000A	*
FRESH WATER PUMP		
06R0133561 THRU CURRENT	5.1000	*
THERMOSTAT		
06R0133561 THRU CURRENT	5.2000B	*
WATER BYPASS TUBE		
06R0133561 THRU CURRENT	5.2000C	*
WATER CONNECTIONS		
06R0133561 THRU CURRENT	5.3000B	*
FAN		
06R0133561 THRU CURRENT	5.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
EXHAUST MANIFOLD AND/OR CONNECTIONS		
06R0133561 THRU CURRENT	6.1000A	*
POWER TAKEOFF AND/OR CLUTCH		
06R0255740 THRU CURRENT	8.1000A	*
ENGINE MOUNTING AND BASE		
06R0133561 THRU CURRENT	11.1000A	*
AIR COMPRESSOR		
06R0133561 THRU CURRENT	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	105
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	369
06R0004651 THRU CURRENT	1.6000	405
CAMSHAFT AND GEAR TRAIN	1.7000	588
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU CURRENT	1.8000	363
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
INJECTOR, CONTROLS ELECTRONIC	2.1000B	*
FUEL PUMP	2.2000	256
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP	5.1000	263
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK	1.1000	278
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS	1.3000	105
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL HOUSING (SAE #1)	1.5000A	*
CONNECTING ROD AND PISTON		
THRU 06R0004650	1.6000	369
06R0004651 THRU 06R0016009	1.6000	405
06R0016010 THRU CURRENT	1.6000	422
CAMSHAFT AND GEAR TRAIN		
THRU 06R0013158	1.7000	588
06R0013159 THRU CURRENT	1.7000	724
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM		
THRU 06R0004454	1.8000	298
06R0004455 THRU 06R0004908	1.8000	324
06R0004909 THRU PRIOR TO STD OPTION	1.8000	363
STD OPTION	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP		
PRIOR TO STD OPTION	2.2000	256
STD OPTION	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	195
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL PRESSURE RELIEF VALVE	4.1000C	37
OIL, PRESSURE REGULATOR	4.1000C	34
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL FILLER (LESS TUBE)	4.5000A	*
DIPSTICK	4.6000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
THRU 06R0016592	5.1000	263
06R0016593 THRU CURRENT	5.1000	270
FRESH, WATER PUMP COVER	5.1000A	*
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
CYLINDER BLOCK		
THRU 06R0115450	1.1000	365
06R0115451 THRU CURRENT	1.1000	*
CYLINDER HEAD	1.2000	176
ENGINE, LIFTER BRACKET	1.2000A	*
CRANKSHAFT, OIL SEALS AND STABILIZERS		
PRIOR TO STD OPTION	1.3000	105
STD OPTION	1.3000	*
CRANKSHAFT FRONT COVER	1.3000A	*
VIBRATION DAMPER	1.3000B	*
CRANKSHAFT PULLEY	1.3000C	*
FLYWHEEL	1.4000A	*
FLYWHEEL, HOUSING	1.5000A	*
CONNECTING ROD AND PISTON		
PRIOR TO STD OPTION	1.6000	422
STD OPTION	1.6000	*
CAMSHAFT AND GEAR TRAIN	1.7000	724
CAMSHAFT AND GEAR TRAIN	1.7000	588
ACCESSORY DRIVE	1.7000B	*
VALVE AND INJECTOR OPERATING MECHANISM	1.8000	*
ROCKER COVER	1.8000A	*
FUEL INJECTOR	2.1000A	*
ELECTRONIC CONTROL MODULE	2.1000B	*
ELECTRONIC INJECTOR CONTROLS (DDEC II)	2.1000B	*
FUEL PUMP	2.2000	*
FUEL FILTER AND STRAINER	2.3000A	*
FUEL LINES AND FUEL COOLER	2.5000A	*
AIR INTAKE MANIFOLD	3.3000C	*
TURBOCHARGER, INTERCOOLER AND AFTERCOOLER	3.5000A	*
OIL PUMP	4.1000A	198
OIL DISTRIBUTION SYSTEM	4.1000B	*
OIL, PRESSURE REGULATOR	4.1000C	38
OIL FILTER	4.2000A	*
OIL COOLER AND MARINE GEAR LINES	4.4000A	*
OIL, FILLER	4.5000A	*
DIPSTICK	4.6000A	*
OIL PAN	4.7000A	*
VENTILATING SYSTEM (ON ROCKER COVER)	4.8000A	*
FRESH WATER PUMP		
PRIOR TO STD OPTION	5.1000	271
STD OPTION	5.1000	*

* STANDARD OPTION REFER TO OPTION LABEL

GROUP NAME	GROUP NO	TYPE
THERMOSTAT	5.2000B	*
WATER BYPASS TUBE		
PRIOR TO STD OPTION	5.2000C	464
STD OPTION	5.2000C	*
WATER CONNECTIONS	5.3000B	*
FAN	5.4000A	*
EXHAUST MANIFOLD AND/OR CONNECTIONS	6.1000A	*
ENGINE MOUNTING AND BASE	11.1000A	*
AIR COMPRESSOR	12.4000A	*

* STANDARD OPTION REFER TO OPTION LABEL

* STANDARD OPTION REFER TO OPTION LABEL

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

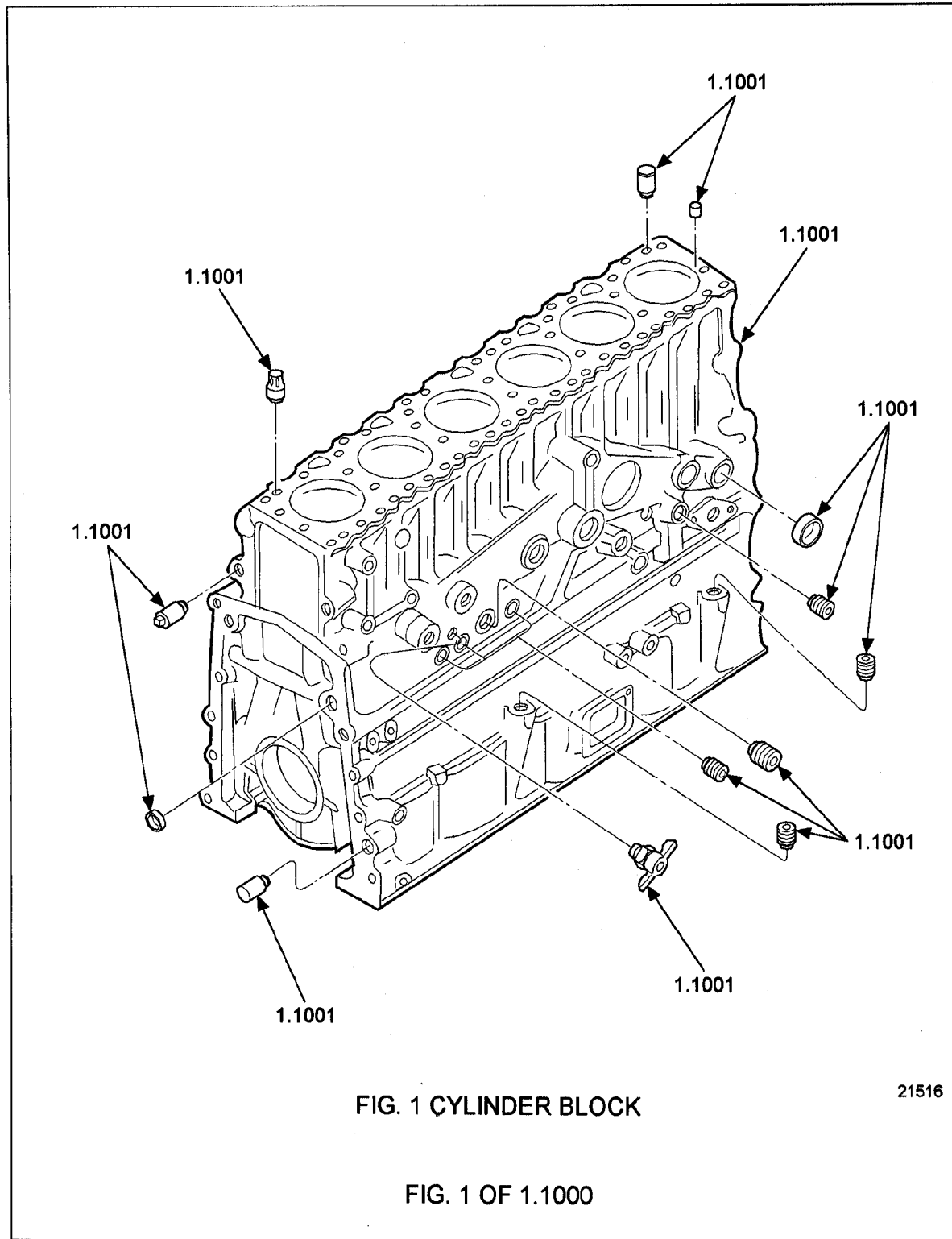
- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

DETROIT DIESEL**SERIES 60 ENGINE**

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					TYPES									
1.1000 CYLINDER BLOCK					2	2	3	4	4	5	5	5	5	5
					5	7	6	5	9	3	5	5	5	5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.		1	8	5	1	7	7	0	7	9	6
FOR OPTION CODE 628, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING # 06A01 6031														
1.1001 BLOCK, CYLINDER														
FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1														
	R23506976	BLOCK ASSY., (REMANUFACTURED)				1								
1	23506977	BLOCK ASSY. (SIAMESE PORT RT SIDE ENGINE)	A1				NS							
1	23517417	BLOCK ASSY. (ADAPTORLESS AIR COMP)	A1				1							
1	23517417	BLOCK ASSY. (ADAPTORLESS AIR COMP)	A1					1			1			
	23521765	BLOCK ASSY.,CYL TLC 12MM W/CLG NOZ. FOR STL	A1						1					
	23522886	BLOCK ASSY.,CYL.TLC FOR ARTICULATED STL	A1											1
	23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS & 14MM F/W HOLES	A1							1		1	1	1
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED						1	1	1	1	1	1	1
	8922327	PLUG, 1/4" NPTF (12.9550)						4	4	4	4	4	4	4
	8929432	PLUG, WEEP HOLE (SPECIAL)						6	6	6	6	6	6	6
	23509239	STUD. M12X1.75X34.0						1	1	1	1	1	1	1
	8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)						1	1	1	1	1	1	1
	8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)						2	2	2	2	2	2	2
	8929152	PIN, DOWEL 20.0 MM CIRCULAR						1	1	1	1	1	1	1
	8929153	PIN, DOWEL 20.0 MM DIAMOND						1	1	1	1	1	1	1
	23506222	BOLT, M8 X 1.25 X 20 12 PT.											6	
	23521375	NOZZLE ASSY.,PSTN CLG ARTICULATED STL											6	
	23514649	CYLINDER BLOCK ASSY.,TLC	A1					NS						
	23517417	BLOCK ASSY. (ADAPTORLESS AIR COMP)	A1					1						
1	8929187	BLOCK ASSY.		obs										
1.1002 GASKET KIT, ENGINE OVERHAUL														
A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.														
	23512691	GASKET KIT W/SQUARE RING SEALS			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1.1035 SHELL, CRANKSHAFT MAIN BEARING														
	23524154	KIT, LWR MAIN BRG W /THRUST WASHERS												1

TYPES

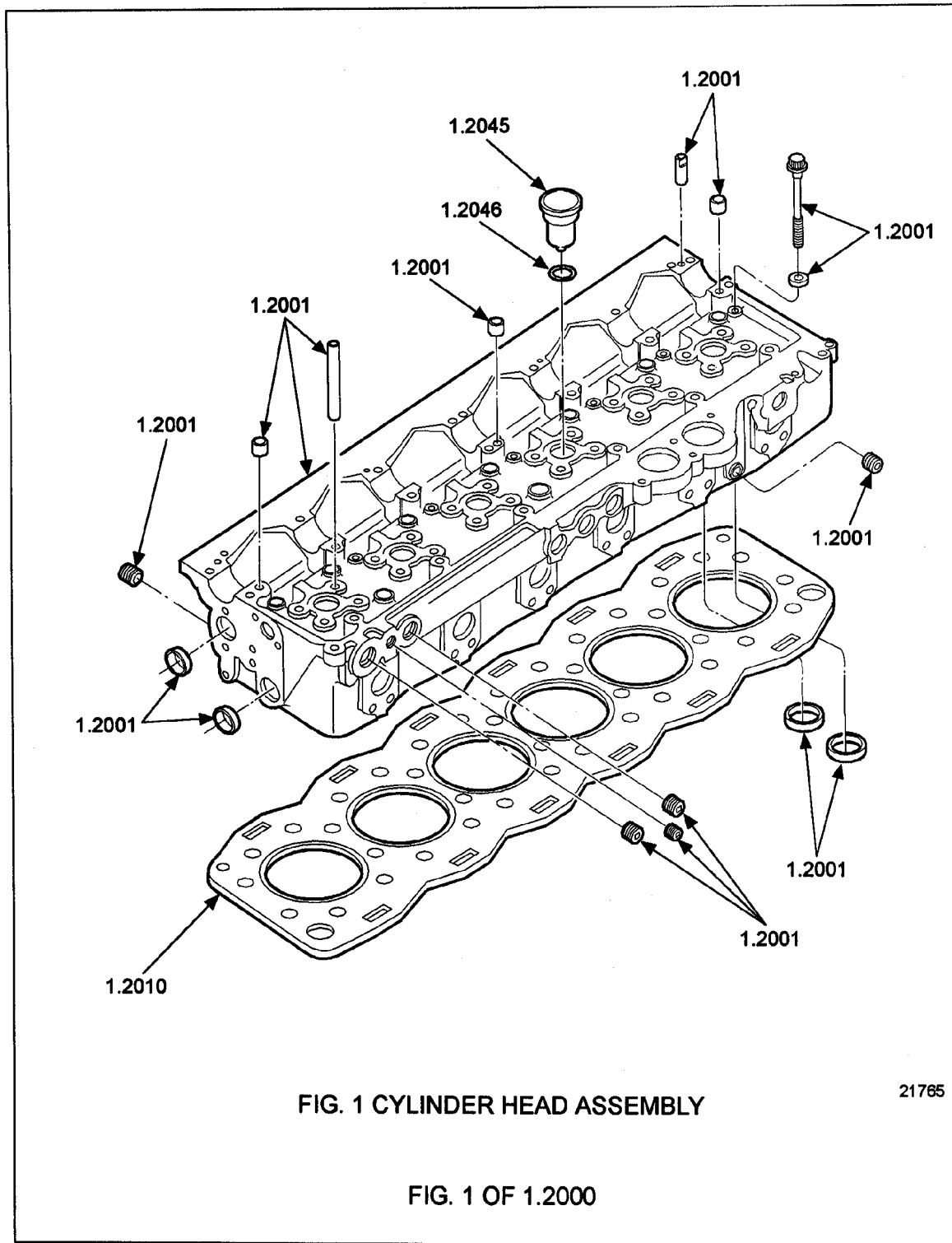
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	0	7									
		1.1000 CYLINDER BLOCK													
	1.1001	BLOCK, CYLINDER													
		FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1													
	23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS & 14MM F/W HOLES	A1	1											
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED		1											
	8922327	PLUG, 1/4" NPTF (12.9550)		4											
	8929432	PLUG, WEEP HOLE (SPECIAL)		6											
	23509239	STUD. M12X1.75X34.0		1											
	8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)		1											
	8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)		2											
	8929152	PIN, DOWEL 20.0 MM CIRCULAR		1											
	8929153	PIN, DOWEL 20.0 MM DIAMOND		1											
	1.1002	GASKET KIT, ENGINE OVERHAUL													
		A GASKET KIT CONSISTS OF THE NECESSARY GASKETS FOR ONE COMPLETE ENGINE OVERHAUL.													
	23512691	GASKET KIT W/SQUARE RING SEALS	AR												

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F												
		1.1000 CYLINDER BLOCK																		
		(Note: Assemblies are shown for component reference only.)																		
	1.1001	BLOCK, CYLINDER																		
		FOR COMPONENTS OF CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGEA1.																		
1	23506977	BLOCK ASSY. (SIAMESE PORT RT SIDE ENGINE)	1																	
	23514649	CYLINDER BLOCK ASSY.,TLC		1																
1	23517417	BLOCK ASSY. (ADAPTORLESS AIR COMP)			1															
	23521765	BLOCK ASSY.,CYL TLC 12MM W/CLG NOZ. FOR STL				1														
	23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS & 14MM F/W HOLES					1													
	23522886	BLOCK ASSY.,CYL.TLC FOR ARTICULATED STL						1												
	23506222	BOLT, M8 X 1.25 X 20 12 PT.					6	6												
	23509239	STUD. M12X1.75X34.0	1																	
	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)		1	2															
	23522437	COVER PSTN CLG NOZZLE HOLE					6													
	5139988	PLUG, CUP 1" DIA. STNLS.	2	2	2	2	2	2												
1	5139991	PLUG, 1-1/2" CUP (1.1001)	5	5	5	5	5	5												
1	5151272	PLUG, 11/32" SPECIAL (1.8160)	1	1	1	1	1	1												
1	8922327	PLUG, 1/4" NPTF (12.9550)	6	1	2	2	2	2												
	8923916	PLUG, 1/2" PIPE (12.9550)	1			2	2	2												
1	8924140	DRAINCOCK, 1/4" (12.9510)	1	1																
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3	3	3	3	3	3												
1	8929015	* DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1		1															
1	8929022	* DOWEL PIN 16 MM., DIAMOND (1.1001)	2		2															
	8929124	BOLT, M20 X 178.0	14	14	14	14	14	14												
	8929125	WASHER, SPECIAL	14	14	14	14	14	14												
1	8929152	* PIN, DOWEL 20.0 MM CIRCULAR	1		1															
1	8929153	* PIN, DOWEL 20.0 MM DIAMOND	1		1															
	8929276	CAP, MAIN BEARING (UNSLOTTED)	7	7	7	7	7	7												
	8929432	* PLUG, WEEP HOLE (SPECIAL)	6		6															
1	8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1	1	1	1	1	1												
		*PARTS ARE PUT IN A BAG AND SHIPPED LOOSE WITH CYLINDER BLOCK ASSY.																		
	1.1025	NOZZLE, PISTON COOLING																		
	23521375	NOZZLE ASSY.,PSTN CLG ARTICULATED STL				6		6												
	23506222	BOLT, M8 X 1.25 X 20 12 PT.				6		6												

DETROIT DIESEL

SERIES 60 ENGINE



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					TYPES															
1.2000 CYLINDER HEAD					1	4	4	4	4	4										
					7	3	4	8	8	8										
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.		6	5	2	3	5	6										
FOR OPTIONAL RECONDITIONED CYLINDER HEAD SEE CUSTOM PARTS CATALOG																				
1.2001 HEAD ASSY., CYLINDER																				
FOR COMPONENTS OF CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGEA1.																				
	23519543	HEAD ASSY.,	A1			1														
	23521102	HEAD ASSY.,CYL COMPL 0.015 SPLG GAP	A1				1													
	23523294	HEAD ASSY., 3 BOLT W/RACE TRACK DESIGNWITHOUT VALVES	A1						1											
	23525000	HEAD ASSY., CYLINDER	A1					1												
1	8929872	HEAD ASSY. (4 VALVE) (SIAMESE PORT)	A1	NS																
1	23523294	HEAD ASSY., 3 BOLT W/RACE TRACK DESIGN	A1	1																
	23525250	HEAD ASSY., CYL RACETRCK SEAL	A1							1										
1	8929123	BOLT, M16 X 2 X 175 (12.9005)			38	38	38	38	38	38										
1	8929328	WASHER, 16.8" X 25.8" (12.9190)			38	38	38	38	38	38										
	R23525566	* HEAD ASSY., 3 BOLT THRUST PLATE W/RACE TRACK SEAL			AR				AR											
	R23525567	* HEAD ASSY., 3 BOLT THRUST PLATE W/RACE TRACK SEALWITH "U" EXHAUST VALVES *THRU UNITS 6R37023 WITH 8929590 EXHAUST VALVES. *EFFECTIVE WITH UNITS 6R37024 WITH 23506350 EXHAUST VALVES.			AR															
1.2002 GASKET KIT, CYLINDER HEAD OVERHAUL																				
GASKET KIT CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.																				
	23501572	GASKET KIT			AR	AR	AR	AR	AR	AR										
	23526274	KIT, GASKET CYL HD RACE TRACK								AR										
1.2010 GASKET, CYLINDER HEAD COMPRESSION																				
1	23518340	GASKET CYL HEAD			1	1	1													
	23522588	GASKET, CYLINDER HEAD							1	1	1									

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F										
		1.2000 CYLINDER HEAD																
		(Note: Assemblies are shown for component reference only.)																
	1.2001	HEAD ASSY., CYLINDER																
1	8929872	HEAD ASSY. (4 VALVE) (SIAMESE PORT)	1															
	23519543	HEAD ASSY.,		1														
	23521102	HEAD ASSY.,CYL COMPL 0.015 SPLG GAP			1													
	23525000	HEAD ASSY., CYLINDER				1												
	23523294	HEAD ASSY., 3 BOLT W/RACE TRACK DESIGN					1	1										
	23525250	HEAD ASSY., CYL RACETRK SEAL							1									
1	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1	1	1	1	1	1	1									
	23513197	PLUG, 3/8"-18 PIPE SQ SOC COATED	2	4	4	2	2	2										
1	5109157	PLUG, 1-1/4" CUP (5.5001)	11	11	11	11	11	11										
1	5139991	PLUG, 1-1/2" CUP (1.1001)	2	2	2	2	2	2										
1	8923313	PLUG, 3/4" PIPE (12.9550)	2															
1	8923916	PLUG, 1/2" PIPE (12.9550)	2			2	2	2										
	8926993	PLUG, FUSE (1/4"-18 RECESSED SOC. HD.)	1	1		1	1	1										
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12					12	12									
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12					12	12									
	8929129	BOLT, M12 X 1.75 X 65	7		7	7	7	7										
	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR					AR	AR									
	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR					AR	AR									
	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR					AR	AR									
	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR					AR	AR									
	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR					AR	AR									
	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR					AR	AR									
1	23518571	GUIDE	24					24	24									
	23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL						1	1									
	23525003	INSERT, (EXHAUST)					12											
	23525004	INSERT, (INTAKE)					12											
	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)	1		1	1												
	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1		1	1	1	1										
	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4		4	4	4	4										
	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1		1	1	1	1										
1	5138638	DOWEL, .626"X.37" HOLLOW (4.1040)	7		7	7	7	7										
1	8929843	DOWEL, CAMSHAFT DRIVE (1.7004)	3		3	3	3	3										
	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)		2	2													

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F											
		1.2000 CYLINDER HEAD																	
		(Note: Assemblies are shown for component reference only.)																	
	1.2001	HEAD ASSY., CYLINDER (CONT.)																	
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP		2	2	1	1	1											
	23526187	GUIDE, VALVE 101.5-1-2.0							24										
	8923847	PLUG, PIPE 1/4-18" NPTF		1	1	1	1	1											
	8926991	PLUG CYLINDER HEAD FUSE			1			1											
	1.2003	ADAPTOR SPARK PLUG																	
	23516515	ADAPTOR-SPARK PLUG SST S50G		6															
	1.2006	WASHER SPARK PLUG ADAPTOR																	
	23515927	WASHER-SPARK PLUG ADAP S50 SING		6															
	1.2009	RING SPARK PLUG																	
	23516876	RING-SEAL LWR SPLG ADAP S50G		6															
1	1.2045	TUBE, INJECTOR HOLE																	
	23501580	TUBE KIT (INCLUDES SEAL RING IN 1.2046)	6	6		6	6	6											
	1.2046	RING, INJECTOR HOLE TUBE SEAL																	
1	23515470	SEAL RING INJ TUBE GREEN FLUOROCARBON	6	6			6	6											

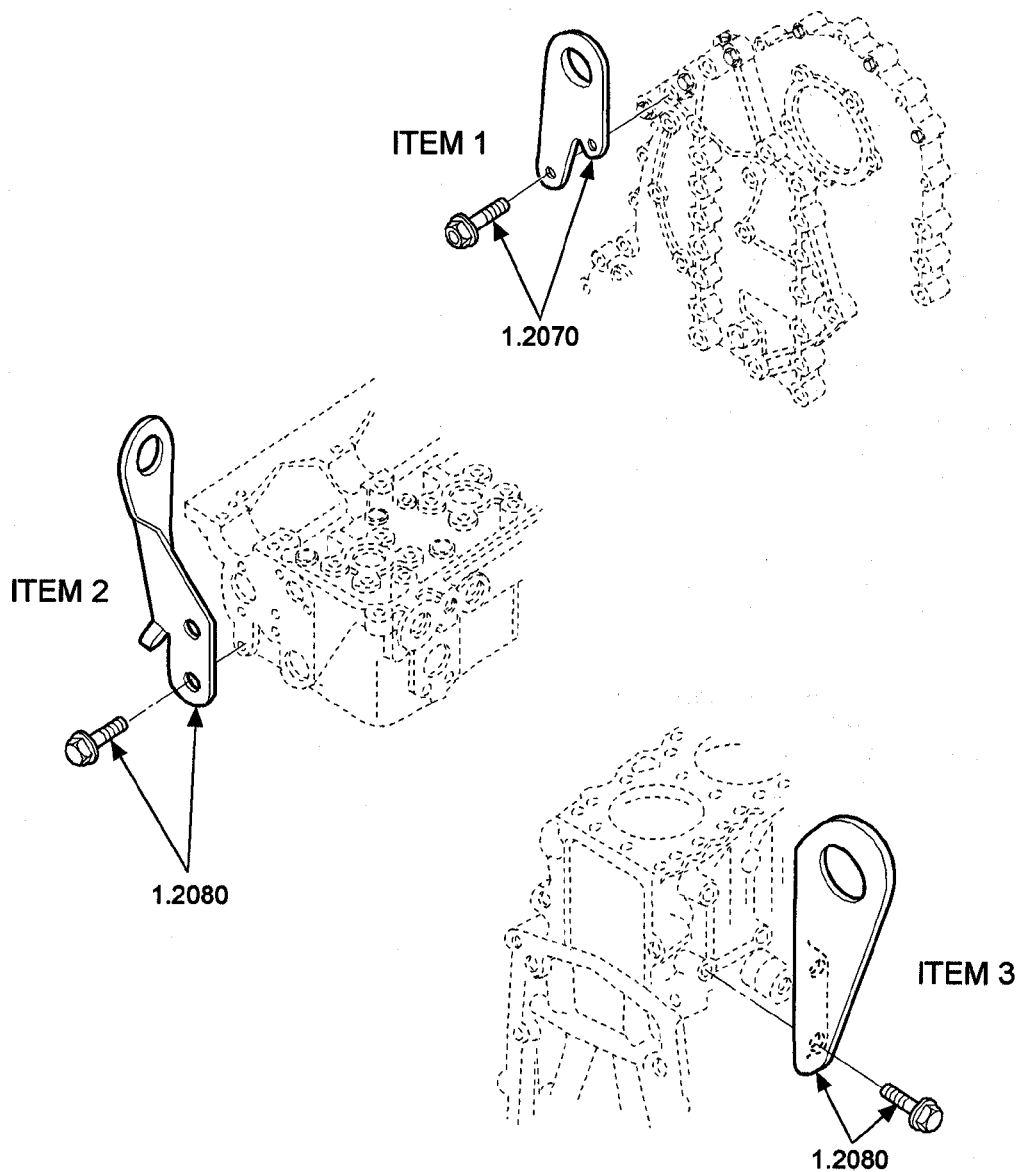
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 ENGINE LIFTER BRACKETS

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FIG. 1 OF 1.2000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES								
				2 5 8	2 6 0	2 8 6	2 8 7	2 9 4	2 9 8	3 2 0	3 3 5	3 3 6
		1.2000A ENGINE, LIFTER BRACKET										
		REFER TO ENGINEERING DRAWING # 06A05 6010										
	1.2070	BRACKET, ENGINE LIFTER-FRONT										
1	23509250	BRACKET (ITEM 1)					1	1				
1	23511220	BRACKET (ITEM 1)				1			1			1
	23521195	BRACKET ENG LIFTER FRT SPL FOR ERF								1		
	23525023	BRACKET, ENG LFTR FRT RB									1	
	23525066	BRACKET, ENG LFTR FRT LB									1	
1	8929754	BRACKET (ITEM 1)		1						1		
	11505299	BOLT, M10 X 1.5 X 30.0 MM									1	
	11509524	BOLT M10 1.50 X 95.00 LG										1
	11509526	BOLT, M10 X 1.5 X 130 MM					3	3				
1	11509530	BOLT, M14 X 2.0 X 40 MM		2				2		2		
	23505050	BOLT, M10 X 1.5 X 85			1							
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)			1						6	
	23526411	SPACER										2
	8929169	WASHER (12.9190)				1			1			
	11506101	NUT, M10 X 1.5				1	3	3	1		6	1
	11509525	BOLT, M10 X 1.5 X 110 MM							1			
	11513960	BOLT, M10 X 1.5 X 145 MM							1			1
	1.2080	BRACKET, ENGINE LIFTER - REAR										
1	23518652	BRACKET ENG LFTR RR LB HD PLATED S80		1	1	1	1	1	1	1		1
1	8929408	BRACKET (ITEM 2)		1	1	1	1	1	1	1		1
1	11509528	BOLT, M12 X 1.75 X 30 MM		5	5	5	5	5	5	4		4

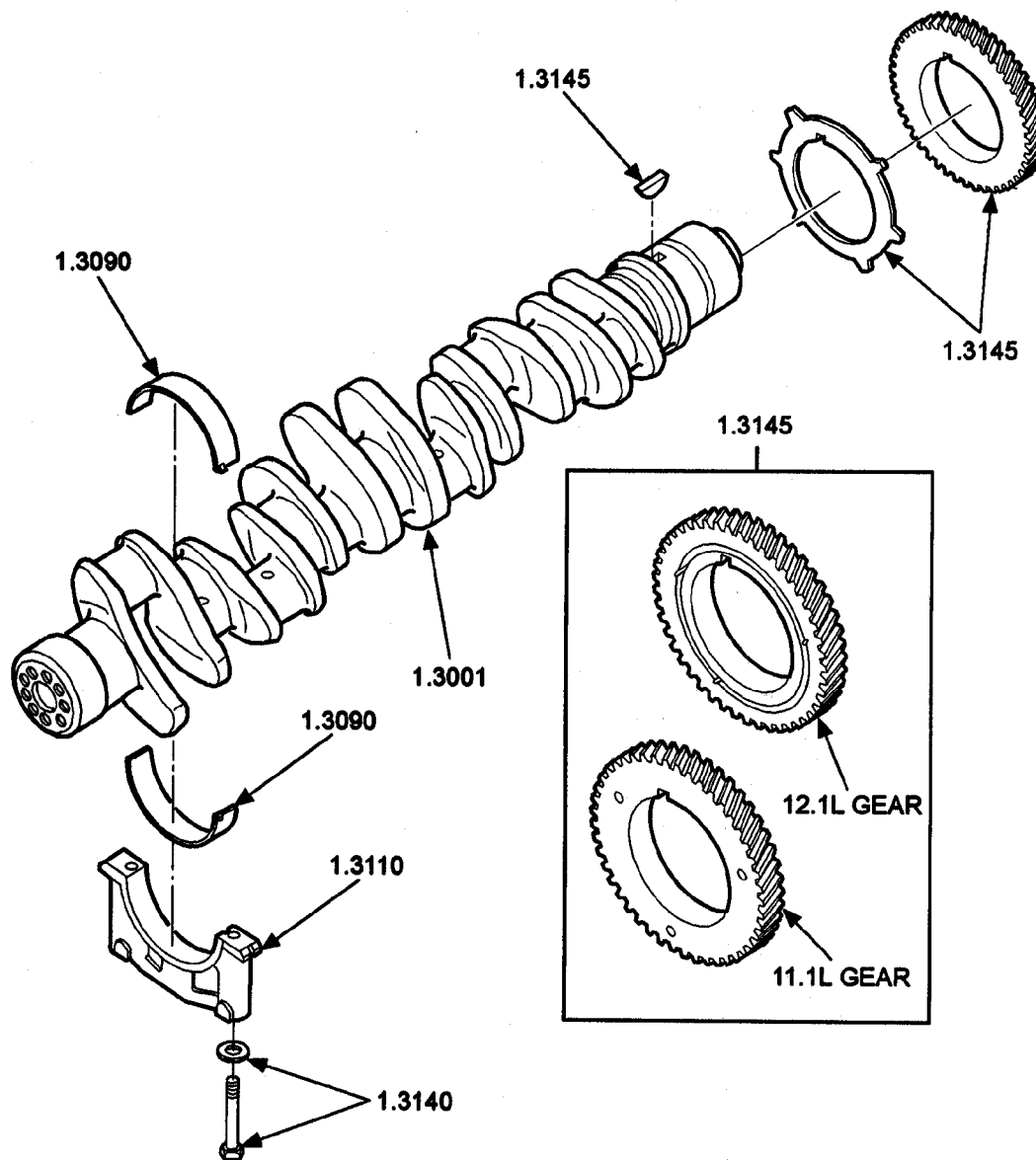
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 CRANKSHAFT

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FIG. 1 OF 1.3000

				TYPES											
1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS				1 0 5	1 0 6	1 2 3	1 2 4	1 2 6	1 3 0	1 3 1	1 3 2	1 3 4	1 4 0	1 4 1	1 5 3
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
FOR OPTION CODE 176, SEE CUSTOM PARTS CATALOG															
	1.3001	CRANKSHAFT ASSY. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.													
	R8929238	REMANUFACTURED 8929238		AR			AR								
	R8929239	REMANUFACTURED 8929239			AR	AR									
1	23511790	+ CRANKSHAFT, 12 HOLE 12.7L (FORMER STYLE) (23515598)						1							
1	23515596	CRANKSHAFT, 6 HOLE 11.1L (ACCOMMODATE WIDER CONN ROD BEARINGS)							1		1				
	23515599	CRANKSHAFT, 12 HOLE 12.7L (ACCOMMODATE WIDER CONN ROD BEARINGS)												1	
	23518646	CRANKSHAFT 160 STRKE LRG BRG 8.5 S60G											1		
	23522887	CRANKSHAFT, 14.OL 168 STROKE													1
1	8929238	* CRANKSHAFT, 6 HOLE 11.1L (FORMER STYLE) (23515598)		1			1								
1	8929239	+ CRANKSHAFT, 6 HOLE 12.7L (FORMER STYLE) (23515598)			1	1									
	23515598	CRANKSHAFT, 6 HOLE 12.7L (ACCOMMODATE WIDER CONN ROD BEARINGS) *NOT SERVICED, USE CRANKSHAFT SHOWN IN PARENTHESES PLUS 6-23515594 CONN RODSAND 6-23515581 SHELL SETS. +NOT SERVICED, USE CRANKSHAFT SHOWN IN PARENTHESES PLUS 6-23515593 CONN RODSAND 6-23515581 SHELL SETS.								1		1			
	1.3003	KIT, LOWER ENGINE BEARINGS AND GASKETS													
	23526280	KIT, LOWER END BRG 47MM & GASKET (MARINE ARTICULATED STEEL PISTON)								AR					
	23519904	LOWER ENGINE BEARING AND GASKET 47MM (NON-ARTICULATED STEEL PISTON)								AR				AR	
	23519905	LOWER ENGINE BEARING AND GASKET 47MM .010US (NON-ARTICULATED STEEL PISTON)								AR				AR	
	23519906	LOWER ENGINE BEARING AND GASKET 47MM .020US (NON-ARTICULATED STEEL PISTON)								AR				AR	
	23524260	LOWER ENGINE BEARING AND GASKET 47MM								AR					
	23519901	LOWER ENGINE BEARING AND GASKET KIT 43MM		AR	AR	AR	AR	AR							AR

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1
				0	0	2	2	2	3	3	3	3	4	4	5
		1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS		5	6	3	4	6	0	1	2	4	0	1	3
	1.3040	SEAL, CRANKSHAFT OIL-FRONT													
	NOTE	SEAL (REFER TO 1.3166 IN 1.3000A)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.3060	SEAL, CRANKSHAFT OIL-REAR													
	NOTE	SEAL (REFER TO 1.5004 IN 1.5000A)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.3066	SLEEVE, CRANKSHAFT REAR OIL SEAL													
	NOTE	SLEEVE (REFER TO 1.5012 IN 1.5000A)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.3090	SHELL, CRANKSHAFT MAIN BEARING													
		A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.													
1	8929670	SHELL SET, STANDARD (MAIN)		6	6	6	6	6	6	6	6	6	6	6	6
1	8929671	SHELL SET, .254MM UNDER SIZE (MAIN)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929672	SHELL SET, .508MM UNDER SIZE (MAIN)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929673	SHELL SET, .762MM UNDER SIZE (MAIN)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929680	SHELL SET, STANDARD (THRUST)		1	1	1	1	1	1	1	1	1	1	1	1
	8929681	SHELL SET, .254MM UNDERSIZE (THRUST)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929682	SHELL SET, .508MM UNDERSIZE (THRUST)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929683	SHELL SET, .762MM UNDERSIZE (THRUST)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.3100	WASHER, CRANKSHAFT MAIN BEARING THRUST													
	8929085	WASHER, (UPPER THRUST ONLY)		2	2	2	2	2	2	2	2	2	2	2	2
	8929697	WASHER, .127MM O.S.		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929698	WASHER, .254MM O.S.		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.3110	CAP, CRANKSHAFT MAIN BEARING													
1	8929276	CAP, MAIN BEARING (UNSLOTTED)		7	7	7	7	7	7	7	7	7	7	7	7
	1.3140	BOLT, CRANKSHAFT MAIN BEARING CAP													
1	8929124	BOLT, M20 X 178.0		14	14	14	14	14	14	14	14	14	14	14	14
1	8929125	WASHER, SPECIAL		14	14	14	14	14	14	14	14	14	14	14	14

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 0 5	1 0 6	1 2 3	1 2 4	1 2 6	1 3 0	1 3 1	1 3 2	1 3 3	1 4 0	1 4 1	1 5 3
	1.3145	GEAR, CRANKSHAFT TIMING													
1	8929241	GEAR, RH, 82T, 132.9MM I.D. 11L		1			1	1		1					
	23513537	WHEEL, TIMING RING (2.3145)				1	1	1	1	1			1	1	1
1	8929240	WHEEL, TIMING RING		1	1					1	1				
1	8929497	GEAR, RH, 82T, 133.6MM I.D. 12.7L			1	1		1		1	1	1	1	1	1
	8929808	KEY, .25"X1.375" (12.9350)		1	1	1	1	1	1	1	1	1	1	1	1

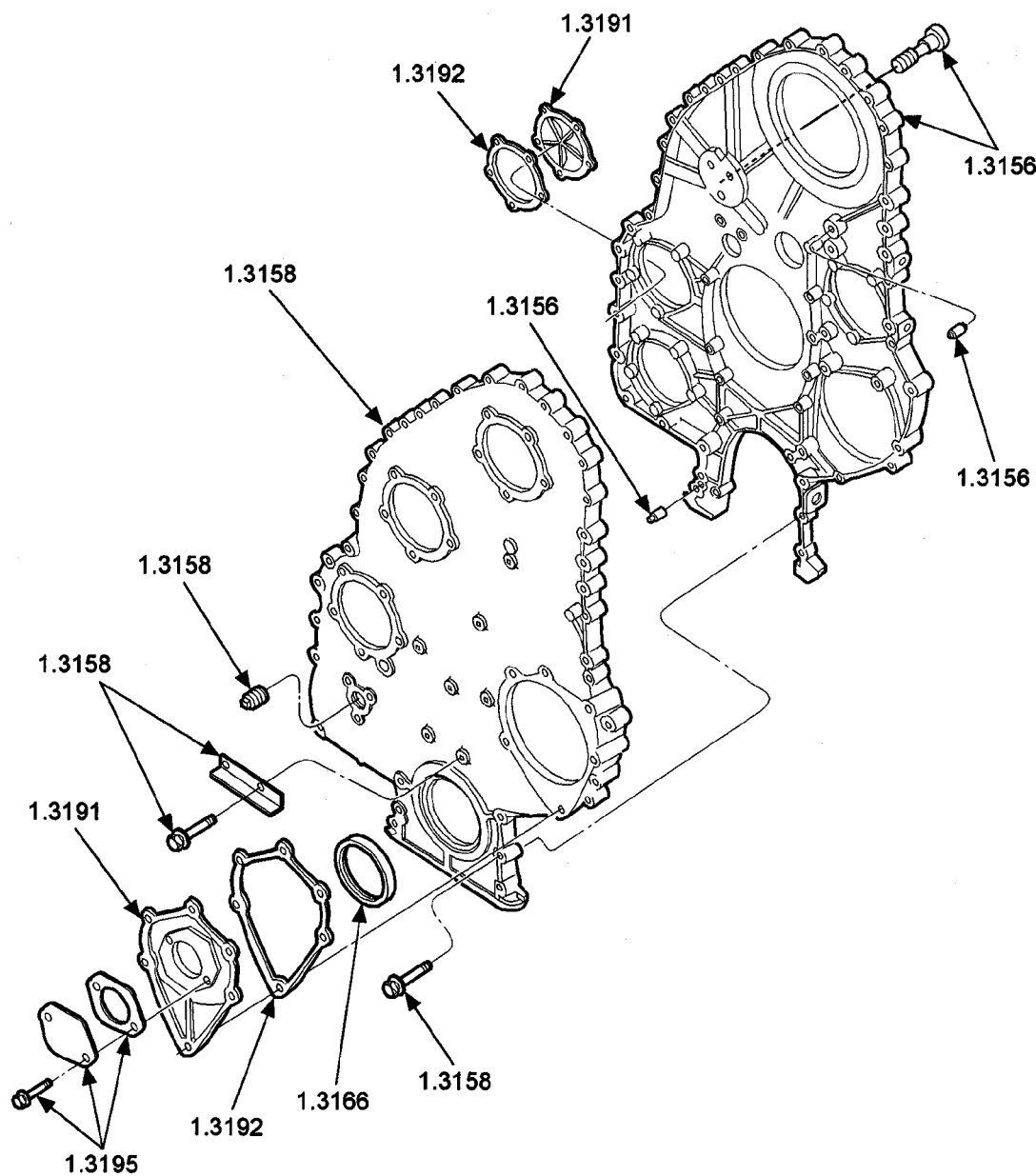
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 GEAR CASE AND FRONT COVER ASSEMBLY

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FIG. 1 OF 1.3000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 6 4	1 6 5	1 6 6	1 6 7	1 7 2	1 7 5	1 7 8	1 7 9	1 8 0	1 8 1	1 8 9	1 9 2
		1.3000A CRANKSHAFT FRONT COVER													
	1.3156	HOUSING ASSY., GEAR CASE													
1	23505875	HOUSING ASSY., REAR MOUNT WATER PUMP (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)							1		1	1			1
1	23511983	HOUSING ASSY., GEAR CASE CAST FUEL PUMP HOLE (INCLUDES 8929333 BOLTS, DOWELS & PLUG IN 1.3156)								1			1	1	
	8929760	SUPPORT (1.3160)		1		1		1	1	1	1	1		1	1
1	8929794	HOUSING ASSY. (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)		1	1	1	1	1							
	8929398	SPACER, 13.0 MM (1.3169)			1		1								
	8929757	SUPPORT (1.3160)			1		1								
	445066	PLUG, 5/16X24 HEX. HD. (1.3160)		1	1	1	1				1				
	8924380	PLUG, 1/8"-27 PIPE (12.9550)								1			1	1	
1	8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)		1	1	1	1	1	1	1	1	1	1	1	1
	8929397	SPACER, 20.0 MM (1.3169)			1		1								
	8929740	SEAL, RING .134X.074X.480 I.D.)		1	1	1	1	1	1	1	1	1	1	1	1
	11509527	BOLT, M10 X 1.5 X 180 MM		1		1									
	11513960	BOLT, M10 X 1.5 X 145 MM			1		1								
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		9	9	9	9	9	9	9	9	9	9	9	9
	11503454	BOLT, M10 X 1.5 X 20.0		2	2	2	2	2	2	2	2	2	2	2	2
	11505299	BOLT, M10 X 1.5 X 30.0 MM		3	3	3	3	3	3	3	3	3	3	3	3
	11513811	BOLT, M12 X 1.75 X 20 MM		1	1	1	1	1	1	1	1	1	1	1	1
	181333	BOLT, 5/16"-24 X .625"							1	1		1	1	1	1
1	8929333	BOLT, M12 X 1.75 X 65 (SPECIAL)		3	3	3	3	3	3	3	3	3	3	3	3
	5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)		1	1	1	1	1	1	1	1	1	1	1	1
	5180370	WASHER, .55" I.D. COPPER (7.4969)		1	1	1	1	1	1	1	1	1	1	1	1
	11506101	NUT, M10 X 1.5		1	1		1								
	1.3158	COVER, GEAR CASE													
1	23505876	COVER, FRONT							1	1	1	1	1	1	1
1	8929137	COVER (1.3162)		1	1	1	1								
1	8929791	COVER, ENGINE FRONT						1							
	11504986	BOLT, M8 X 1.25 X 14 MM				2	2	2		2	2	2	2	2	2
	5141452	SEAL, RING (3.4143)		1	1	1	1	1	1	1	1	1	1	1	1
1	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		1	1	1	1	1	1	1	1	1	1	1	1
1	11509523	BOLT, M10 X 1.5 X 55 MM		16	16	16	16	16	16	16	16	16	16	16	16
1	11509525	BOLT, M10 X 1.5 X 110 MM		4	4	4	4	4	4	4	4	4	4	4	4
	23507422	GUARD, BOLT V18 DMPR & FRT CVR				1	1	1		1	1	1	1	1	1
	1.3166	SEAL, CRANKSHAFT OIL FRONT													
1	23518355	SEAL FRONT CR/SHAFT CR UNITIZED WARPAROUND		1	1	1	1	1	1	1	1	1	1	1	1

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 6 4	1 6 5	1 6 6	1 6 7	1 7 2	1 7 5	1 7 8	1 7 9	1 8 0	1 8 1	1 8 9	1 9 2
		1.3000A CRANKSHAFT FRONT COVER													
	1.3191	COVER, ENGINE FRONT ACCESSORY DRIVE													
	23511760	COVER												1	
1	8929007	COVER, UPPER RIGHT REAR & FRONT CAM ACCESS.		2	2	1	1	3	2	1	1	2	2	1	2
1	8929099	COVER, FRONT ACCESSORY		1	1	1	1	1	1	1	1	1	1	1	1
	23511033	STRAP (1.3160)											1		
	23512389	SPACER, 20.0MM											1		
	5157412	SPACER, 7/8"X13/32"X1/4"											1		
1	11504822	BOLT, M8 X 1.25 X 30		16	16	8	8	21	16	11	11	16	16	16	16
	23505051	BOLT M10 X 1.5 X 170											1		
	1.3192	GASKET, ENGINE FRONT ACCESSORY DRIVE													
1	8929299	GASKET, ACCESSORY FRONT		1	1	1	1	1	1	1	1	1	1	1	1
1	8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.		2	2	1	1	3	2	1	2	2	2	2	2

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES																
				2 0 5	2 0 8	2 1 7	2 1 8	2 1 9	2 3 5	2 3 6										
		1.3000A CRANKSHAFT FRONT COVER																		
		REFER TO ENGINEERING DRAWING # 06J00 6026																		
	1.3156	HOUSING ASSY., GEAR CASE																		
1	23505875	HOUSING ASSY., REAR MOUNT WATER PUMP (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)		1	1				1	1										
1	23511983	HOUSING ASSY., GEAR CASE CAST FUEL PUMP HOLE (INCLUDES 8929333 BOLTS, DOWELS & PLUG IN 1.3156)				1	1	1												
	8929760	SUPPORT (1.3160)		1	1	1	1	1	1	1										
	445066	PLUG, 5/16X24 HEX. HD. (1.3160)		1																
	8924380	PLUG, 1/8"-27 PIPE (12.9550)				1	1	1												
1	8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)		1	1	1	1	1	1	1										
1	8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)		1	1	1	1	1	1	1										
	8929740	SEAL, RING .134X.074X.480 I.D.) 1		1	1	1	1	1	1	1										
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		9	9	9	9	9	9	9										
	11503454	BOLT, M10 X 1.5 X 20.0		2	2	2	2	2	2	2										
	11505299	BOLT, M10 X 1.5 X 30.0 MM		3	4	4	3	4	3	3										
	11513811	BOLT, M12 X 1.75 X 20 MM		1	1	1	1	1	1	1										
	181333	BOLT, 5/16"-24 X .625"			1	1	1	1	1	1										
1	8929333	BOLT, M12 X 1.75 X 65 (SPECIAL)		3	3	3	3	3	3	3										
	5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)		1	1	1	1	1	1	1										
	5180370	WASHER, .55" I.D. COPPER (7.4969)		1	1	1	1	1	1	1										
	23505050	BOLT, M10 X 1.5 X 85				5		1												
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP				1														
	8922327	PLUG, 1/4" NPTF (12.9550)				1														
	1.3158	COVER, GEAR CASE																		
1	23505876	COVER, FRONT		1	1	1	1	1	1	1										
	11504986	BOLT, M8 X 1.25 X 14 MM		2	2	2	2	2	2											
	5141452	SEAL, RING (3.4143)		1	1	1	1	1	1	1										
	8923847	PLUG, PIPE 1/4-18" NPTF																	2	
1	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		1	1	1	1	1	1	1										
1	11509523	BOLT, M10 X 1.5 X 55 MM		16	14	14	14	14	14	14										
1	11509525	BOLT, M10 X 1.5 X 110 MM		4	4	4	4	4	4	4										
	23507422	GUARD, BOLT V18 DMPR & FRT CVR		1	1	1	1	1	1	1										
	1.3166	SEAL, CRANKSHAFT OIL FRONT																		
1	23518355	SEAL FRONT CR/SHAFT CR UNITIZED WARPAROUND		1	1	1	1	1	1	1										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES													
				2 0 5	2 0 8	2 1 7	2 1 8	2 1 9	2 3 5	2 3 6							
		1.3000A CRANKSHAFT FRONT COVER															
	1.3191	COVER, ENGINE FRONT ACCESSORY DRIVE															
	23514714	COVER FRT CAMSHF 5 HOLES S60				1	1		2	1							
1	23517382	COVER, ACSRY REAR 6 HOLE			1	1											
1	8929007	COVER, UPPER RIGHT REAR & FRONT CAM ACCESS.	1														
1	8929099	COVER, FRONT ACCESSORY	2	2	1	1	1	1	1	1							
	23521020	TENSIONER ASSY., AUTO						1									
	23520920	MOUNT, TENSIONER						1									
	8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)						1									
1	11504822	BOLT, M8 X 1.25 X 30	17	11	11	9	11	16	11								
	23515703	BOLT, M8X1.25X30				2											
	1.3192	GASKET, ENGINE FRONT ACCESSORY DRIVE															
1	8929299	GASKET, ACCESSORY FRONT	2	2	2	1	1	1	1								
1	8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	2	1	1	1		2	1								

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SERIES 60 ENGINE

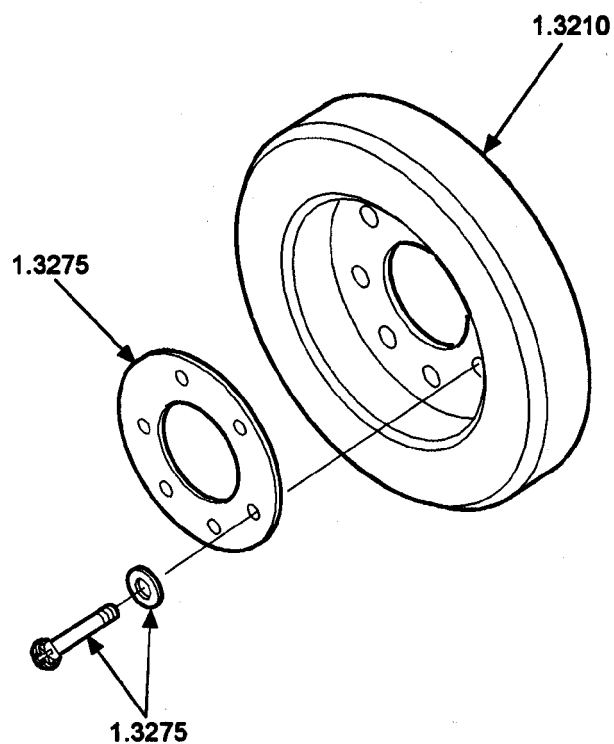


FIG. 1 VIBRATION DAMPER ASSEMBLY

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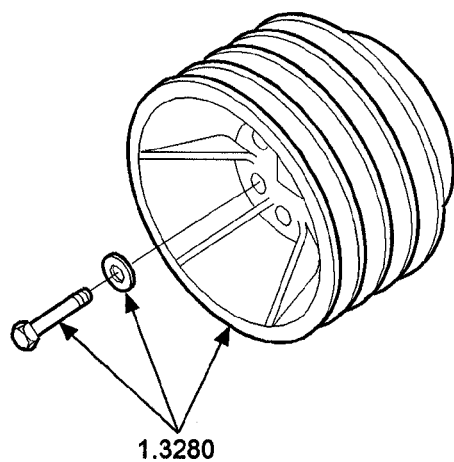
FIG. 1 OF 1.3000B

TYPES

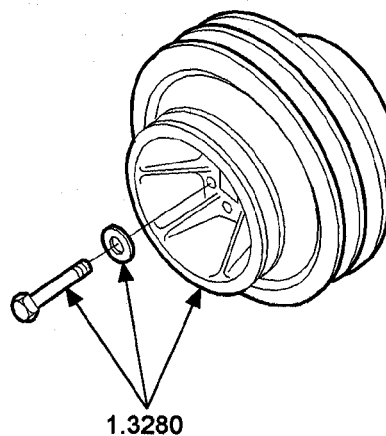
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 5 3	1 6 1	2 1 2	2 2 1								
		1.3000B VIBRATION DAMPER													
		REFER TO ENGINEERING DRAWING # 06C02 6002													
	1.3210	DAMPER, VIBRATION													
	23522891	DAMPER, VIBRATION CR/SHF				1									
	23525990	DAMPER, VIB CR/SHF 13.5" DIA 1 PC PA 14					1								
1	8929502	DAMPER, 11L & 12.7L		1	1										
	1.3275	SPACER, VIBRATION DAMPER													
1	8929527	* SPACER		1	1										
1	5133981	WASHER, 19/32" (1.1001)		6	6										
1	8929222	BOLT, 9/16"-18 X 2 1/2"		6	6										
		*USE SPACER WHEN CRANKSHAFT PULLEY IS NOT REQUIRED.													

DETROIT DIESEL

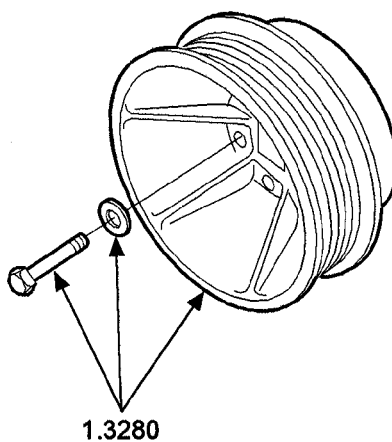
SERIES 60 ENGINE



ITEM 1



ITEM 2



ITEM 3

FIG. 2 CRANKSHAFT PULLEYS

24004

FIG. 1 OF 1.3000C

				TYPES											
1.3000C CRANKSHAFT PULLEY				3	4	4	4	4	4	4	4	4	4	4	4
				8	3	4	4	4	4	5	6	6	6	7	7
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	8	2	3	6	9	5	0	8	9	1	4
REFER TO ENGINEERING DRAWING # 06K01A 6001															
	1.3280	PULLEY, CRANKSHAFT													
1	23507193	PULLEY, 14 GRV POLY-V 188 (ITEM 3)					1								
1	23508726	PULLEY CR/SHF 14GRV 188.D (PA) (ITEM 3)							1						
1	23509064	PULLEY CR/SHF 10GRV 194.0 DIA. (ITEM 3)						1							
1	23511438	PULLEY, 4 GRV 190.5/279.4 DIA. (ITEM 2)								1					
1	23512760	PULLEY & HUB ASM CR/SHF 4GRV 17A VEE	A1								1				
1	23512844	PULLEY, 8 GRV POLY-V 196.5 DIA.(ITEM 3)										1			
1	23514252	PULLEY ASM CR/SHF 14K POLY-V FRT PTO											1	1	
1	8929077	PULLEY, 188.0MM O.D., 4 GROOVE (ITEM 3)		1											
1	8929222	BOLT, 9/16"-18 X 2 1/2"		6			6	6	6	6	6	6	6		
1	5133981	WASHER, 19/32" (1.1001)		6			6	6	6	6	6	6	6		
	23516690	PULLEY HUB&BUSH ASM CR/SHF 4GRV "5V"	A1												1
	1.3281	ADAPTOR KIT, POWER TAKE OFF													
		NOTE: ITEMS IN THIS SECTION MARKED * INDICATE COMPONENTS OF KIT 23504440. [NOTE: ITEMS IN THIS SECTION MARKED [amp] INDICATE COMPONENTS OF KIT 23504441.													
	23504440	ADAPTOR KIT, FRT MOUNTED PTO (SPICER 1310 SERIES)					AR								
	23504441	ADAPTOR KIT, FRT MOUNTED PTO (SPICER 1350 SERIES)			AR									AR	
	23504106	PULLEY ASSY., C/S FRT (4 GROOVE, 188.0MM DIA.)	B1	1		1								1	
	8920172	DOWEL, CAMSHAFT (1.7200)		1		1								1	
	23504108	HUB ASSY., C/S FRT (SPICER 1350 SERIES)		1										1	
	23504122	HUB ASSY., C/S FRT (SPICER 1310 SERIES)				1									
	145643	BALL, STEEL 3/8"		6		6								6	
	5103522	INSULATOR ASSY.		1		1								1	
	23504112	RETAINER, C/S PULLEY		1		1								1	
	23501274	BOLT, 1"-14X3.50" L		1		1								1	
	8929222	BOLT, 9/16"-18 X 2 1/2"		6		6								6	
	5133981	WASHER, 19/32" (1.1001)		6		6	6							6	
	1.3283	SPINDLE, CRANKSHAFT PULLEY													
	23512228	SPINDLE									1				1
	5131724	KEY, 3/8"X1" WOODRUFF (1.3280)									2				2
	5133981	WASHER, 19/32" (1.1001)													6
	8929222	BOLT, 9/16"-18 X 2 1/2"													6

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1.3000C CRANKSHAFT PULLEY											
				3	4	4	4	4	4	4	4	4	4	4	4
				8	3	4	4	4	4	5	6	6	6	7	7
	1.3310	HUB, CRANKSHAFT PULLEY		7	8	2	3	6	9	5	0	8	9	1	4
	5157930	RETAINER, 1 1/32" I.D. X 2 3/8" O.D. X 1/2" THK.									1				1
	23505089	BOLT, 1"-14X4.50"									1				1

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	4	4	4	4	4	5	5	5	5
				7	7	7	8	9	9	1	1	2	2
1.3000C CRANKSHAFT PULLEY				5	6	8	7	1	5	2	3	2	3
	1.3280	PULLEY, CRANKSHAFT											
	23518935	PULLEY CR/SHF 10GRV 188.0 DIA					1						
	23520537	PULLEY, CR/SHF 10 GRV POLY-V 235.0D (PK)									1		
	23520843	PULLEY CR/SHF 236.0D PL 6 & 4GRV ERF						1					
	23521136	PULLEY CR/SHF 252.7D 2 GRV & 1 INDST C G							1				
	23522772	PULLEY CR/SHF SOLID 2 5V GRV @ 190.5 & 2								1			
	23524832	PULLEY, CRANKSHAFT										1	
1	8929077	PULLEY, 188.0MM O.D., 4 GROOVE (ITEM 3)											1
1	8929222	BOLT, 9/16"-18 X 2 1/2"			6		6	6	6	6	6	6	6
1	5133981	WASHER, 19/32" (1.1001)			6		6	6	6	6	6	6	6
	23518270	PULLEY CR/SHF 16GRV KSECT W.5VGRV			1								
	1.3281	ADAPTOR KIT, POWER TAKE OFF											
		NOTE: ITEMS IN THIS SECTION MARKED * INDICATE COMPONENTS OF KIT 23504440. [NOTE: ITEMS IN THIS SECTION MARKED [amp] INDICATE COMPONENTS OF KIT 23504441.											
	23504106	PULLEY ASSY., C/S FRT (4 GROOVE, 188.0MM DIA.)	B1				1						
	8929222	BOLT, 9/16"-18 X 2 1/2"					6						
	5133981	WASHER, 19/32" (1.1001)					6						
	1.3283	SPINDLE, CRANKSHAFT PULLEY											
	23512228	SPINDLE		1									
	5131724	KEY, 3/8"X1" WOODRUFF (1.3280)		2									
	5133981	WASHER, 19/32" (1.1001)		6									
	8929222	BOLT, 9/16"-18 X 2 1/2"		6									
	1.3310	HUB, CRANKSHAFT PULLEY											
	23518936	DRIVE ASSY.,CR/SHF PUL PWR TAKE OFF					1						
	5157930	RETAINER, 1 1/32".I.D.X2 3/8".O.D.X1/2" THK.		1									
	23505089	BOLT, 1"-14X4.50"		1									
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.					6						
	23517304	PULLEY & HUB ASM CR/SHF 2GRV&PL16 S50	C1	1									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				4	4	4	4	4	4	5	5	5	5
		1.3000C CRANKSHAFT PULLEY		7	7	7	8	9	9	1	1	2	2
				5	6	8	7	1	5	2	3	2	3
	1.3311	INSULATOR											
		ASSY.,CRANKSHAFT PULLEY											
	5103522	INSULATOR ASSY.					2						
	147489	BALL, STEEL 3/8"					12						

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	1.3000C CRANKSHAFT PULLEY															
			A	B														
1	1.3280	PULLEY, CRANKSHAFT																
	23512760	PULLEY & HUB ASM CR/SHF 4GRV 17A VEE	1															
	23516690	PULLEY HUB&BUSH ASM CR/SHF 4GRV "5V"		1														
	1.3281	ADAPTOR KIT, POWER TAKE OFF																
	147489	BALL, STEEL 3/8"		6														
	1.3310	HUB, CRANKSHAFT PULLEY																
	5172770	HUB	1	1														
	1.3311	INSULATOR ASSY., CRANKSHAFT PULLEY																
	23503230	INSULATOR ASSY.	2	2														
	147489	BALL, STEEL 3/8"	6															

1.3000C CRANKSHAFT PULLEY A

(Note: Assemblies are shown for component reference only.)

ADAPTOR KIT, POWER TAKE OFF

PULLEY ASSY., C/S FRT (4 GROOVE,
188.0MM DIA.)

DOWEL, CAMSHAFT (1.7200)

A

1

1

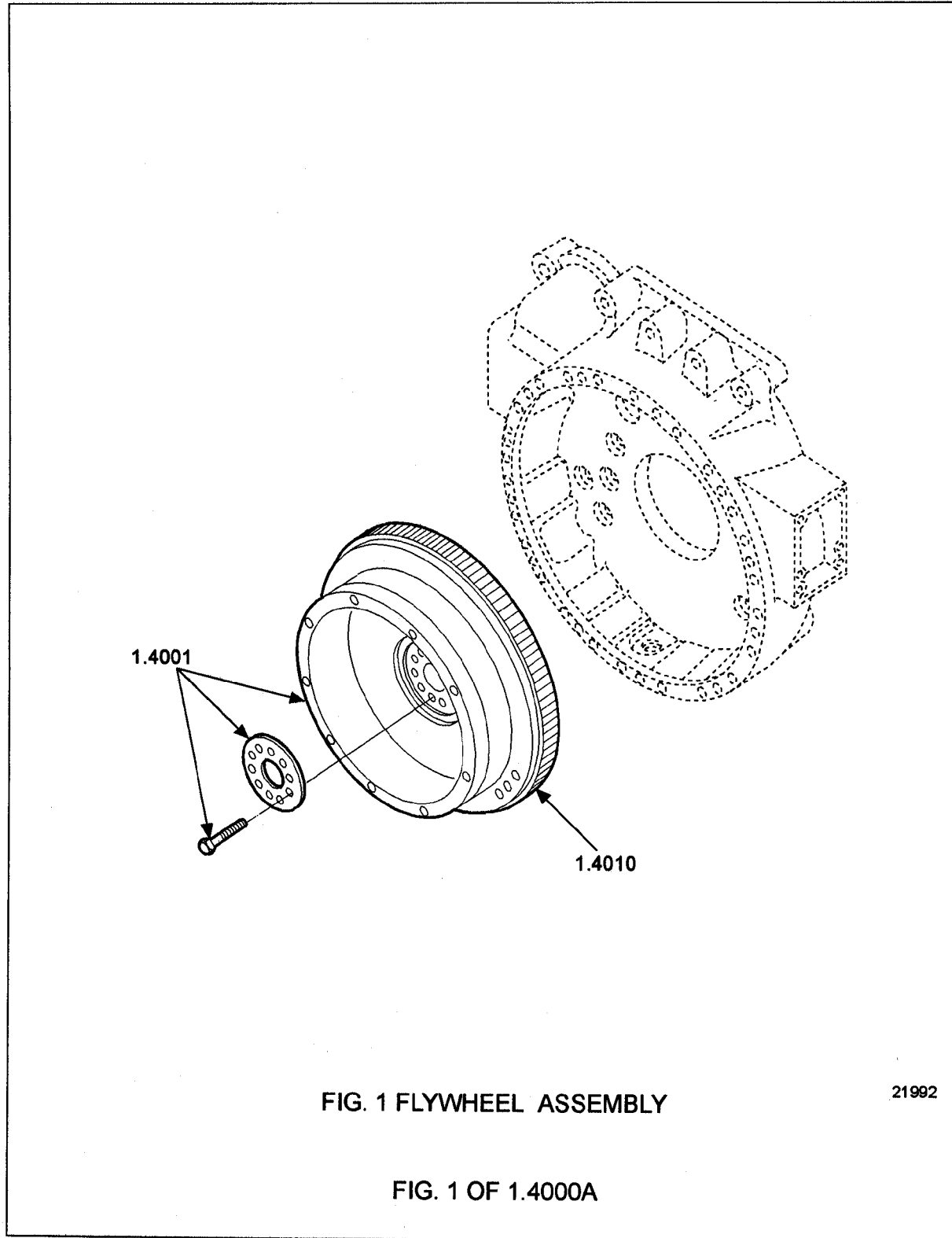
ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	A																	
		1.3000C CRANKSHAFT PULLEY	A																	
	1.3310	HUB, CRANKSHAFT PULLEY																		
	23517304	PULLEY & HUB ASM CR/SHF 2GRV&PL16 S50	1																	
	23512802	HUB	1																	
	1.3311	INSULATOR ASSY., CRANKSHAFT PULLEY																		
	147489	BALL, STEEL 3/8"	6																	
	23503230	INSULATOR ASSY.	2																	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1	2	2	2	3	3	3			
		1.3000D CRANKSHAFT PULLEY BELT		3	1	7	9	6	6	6			
				3	4	7	1	7	8	9			
	1.3320	BELT, CRANKSHAFT PULLEY DRIVE											
	23511274	BELT, V RIBBED (POLY-V 10PK)					1						
	5109109	BELT SET (3 BELTS; 49" L., .500" W.)				1							
	5133761	BELT SET (3 BELTS; 53" L., .500" W.)		1				1					
	5134215	BELT SET (3 BELTS; 45" L., .500" W.)			1								
	23517136	BELT V RIBBED (POLY-V 16PK) S60								1			
	23521340	BELT, POLYVEE 82.8"L. 16 RIB							1				

DETROIT DIESEL

SERIES 60 ENGINE



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SERIES 60 ENGINE

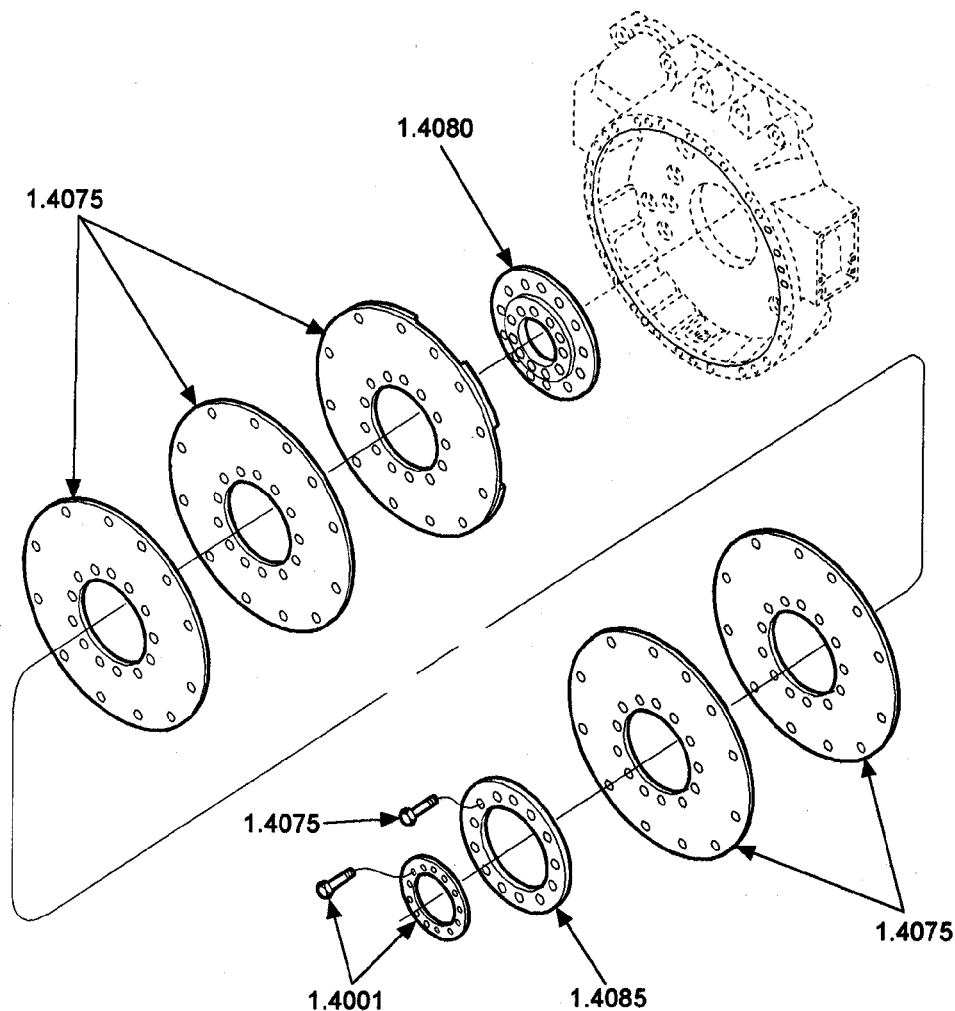


FIG. 2 FLEX PLATE ASSEMBLY

24002

FIG. 2 OF 1.4000A

TYPES

1.4000A FLYWHEEL				8	1	1	1	1	1	1	1	1	1	1	1	1
				7	0	0	0	0	0	0	1	1	1	1	1	1
				4	1	6	6	8	8	9	0	1	1	3	4	4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.		7	1	1	2	3	4	2	5	2	7	6	9
	1.4001	FLYWHEEL ASSY.														
		INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.														
1	23502975	FLYWHEEL ASSY. (SAE #1) (NC)	A1								1					
1	23505075	FLYWHEEL ASSY. (SAE #1) (C) FLAT TYPE VALEO CLU										1				
1	23505078	FLYWHEEL ASSY. (SAE #2) (C) FLAT REDUCED WT											1			
1	23505958	FLYWHEEL ASSY. (SAE #1) (C) FLAT TYPE VALEO CLU												1		
1	23507442	FLYWHEEL ASSY. (SAE #1) (C) FLAT TYPE													1	
1	23507975	FLYWHEEL ASSY. (SAE #1) FLAT TYPE	A1													1
1	23516162	FLYWHL ASM 1 TYPE B FOR18.376DRVGRS60	A1		1											
1	5100534	FLYWHEEL ASSY. (SAE #1) (C) FLAT REDUCED WT.					1									
1	5101799	FLYWHEEL ASSY. (SAE #1) (C) POT TYPE REDUCED WT.					1									
1	8929648	FLYWHEEL ASSY. (SAE #2) (C) FLAT TYPE JD								1						
1,2	5100532	PLATE, SCUFF (BEARING RETAINER)		1		1	1	1	1	1	1	1	1	1	1	1
1	5107251	PLATE, 6 BOLT SCUFF			1											
1	8929221	BOLT, 9/16"-18 X 2" AA LK PHOS CTD								12						
1	8929795	BOLT, 9/16"-18 X 1 3/4"					12	12					12	12	12	12
1,2	8929805	BOLT, 9/16"-18 X 1 1/2"							12			12				
1	9410925	BOLT, 9/16"-18 X 2 1/4" (12.9001)		12							12					
1	9411631	BOLT, 9/16"-18X2 3/4" LOCK (12.9001)			12											
	5103212	FLYWHEEL ASSY. (SAE #1) (NC)	A1	1												
	1.4010	GEAR, FLYWHEEL RING														
1	5110894	GEAR, SAE #2, 102 TEETH, RH CHAMFER								1			1			
1	5166664	GEAR, SAE #1, 118 TEETH, RH CHAMFER				1	1					1		1	1	
	1.4075	DISC, FLYWHEEL FLEXIBLE COUPLING														
		A PLATE ASSY. INCLUDES DISC AND (12) 9409056 BOLTS IN 1.4075 AND ITEMS IN 1.4080 AND 1.4085.														
2	6750468	DISC (8.3247)								4						
2	6751516	DISC ASSY. (8.3247)								1						
	6882610	PLATE ASSY., FLEX								1						
2	9409056	BOLT, 1/2"-20 X 3/4" (12.9001)								12						
	1.4080	HUB, FLYWHEEL FLEXIBLE COUPLING														
2	23045507	HUB								1						

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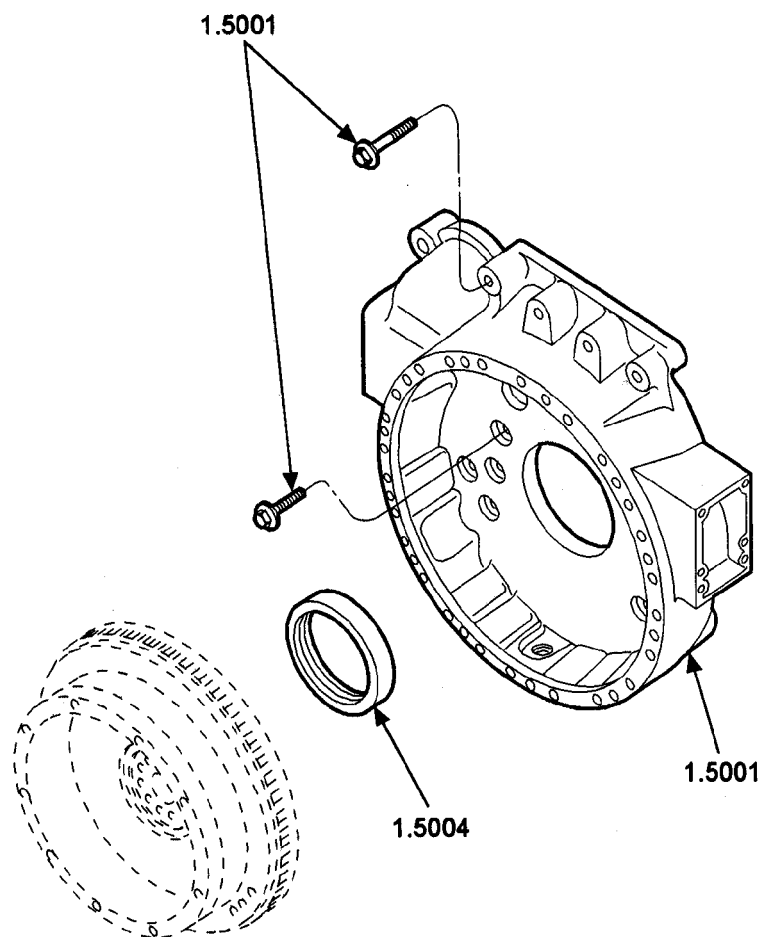
				TYPES											
1.4000A FLYWHEEL				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1	2	2	2	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	6	7	8	8	9	9	9	9	0	0	1
				2	6	5	0	2	2	6	7	8	2	5	5
REFER TO ENGINEERING DRAWING # 06C03 6022															
1.4001 FLYWHEEL ASSY.															
INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.															
1	23509709	FLYWHEEL ASSY. (SAE #1) (C)	A1		1			1							
1	23514066	FLYWHEEL ASSY. (SAE #1) (C) FLAT ZED-F TRANS													
1	23514751	FLYWHEEL ASSY,SAE1 TYPE 1,GMHD & 1.76		1											
1	23514780	FLYWHEEL ASM NO.1 FLAT C/I RH CHAMF	A1						1						
1	23516162	FLYWHL ASM 1 TYPE B FOR18.376DRVGRS80	A1										1		
1	23516315	FLYWHEEL ASM.SAE #1 TYPE B							1						
1	23516544	FLYWHL ASM SAE 1T/DIS 8FLW1452CONVV92	A1									1			
1	5100539	FLYWHEEL ASSY. (SAE #1) (C)	A1								1				
1	23513493	PLATE, SCUFF ZF TRANS					1								
1,2	5100532	PLATE, SCUFF (BEARING RETAINER)		1	1	1		1	1	1	1	1		1	
1	5107251	PLATE, 6 BOLT SCUFF												1	
1	8929795	BOLT, 9/16"-18 X 1 3/4"			12	12	12	12		12		12			12
1,2	8929805	BOLT, 9/16"-18 X 1 1/2"									12				
1	9410925	BOLT, 9/16"-18 X 2 1/4" (12.9001)		12					12				12	12	
	23517286	FLYWHEEL ASM SAE #1 FLAT 16 CLU BOLT	A1												1
1.4010 GEAR, FLYWHEEL RING															
1	5166664	GEAR, SAE #1, 118 TEETH, RH CHAMFER						1	1	1					
1	5184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED		1											
1.4040 BEARING, CLUTCH PILOT															
	23503707	BEARING, BALL SGL ROW						1							1
	5129220	BUSHING								1					
1.4045 RETAINER, CLUTCH PILOT BEARING															
	23514959	RETAINER FLYWHEEL PILOT BRG.								1	1				

			TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1	2	2	2
		1.4000A FLYWHEEL		5	6	7	8	8	9	9	9	0	0	1
				2	6	5	0	2	2	6	7	8	2	5
	1.4074	KIT, ENGINE ADAPTATION												
	29513181	* KIT, ENGINE ADAPTION ALSN A/T #1 GR *NOT SERVICED, PROCURE THRU ALLISON WORLD TRANSMISSION.										1		
	1.4085	PLATE, FLYWHEEL FLEXIBLE COUPLING												
	23513491	PLATE, FLEX. ZF TRANS					4							
	23513492	FLANGE, ZF TRANS					1							

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1					
				2	2	2	2	2					
				2	4	4	6	6					
				6	4	9	0	7					
	1.4000A FLYWHEEL												
	1.4001	FLYWHEEL ASSY.											
		INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.											
	23511268	FLYWHEEL ASSY., SAE #0	A1					1					
	23514177	FLYWHEEL ASM SAE #1 FLAT LOW INERTIA	A1				1						
	23518892	FLYWHEEL ASSY., SAE #1	A1		1								
	23519196	FLYWHEEL ASSY., SAE1 TYPE1 GMHD & 1.76 RED	A1	1									
1,2	5100532	PLATE, SCUFF (BEARING RETAINER)		1	1	1	1	1					
1	8929795	BOLT, 9/16"-18 X 1 3/4"			12	12	12	12					
	9409532	BOLT, 9/16"-18X2" LOCK (12.9001)		12									
	23517286	FLYWHEEL ASM SAE #1 FLAT 16 CLU BOLT	A1			1							
	1.4040	BEARING, CLUTCH PILOT											
	23503707	BEARING, BALL SGL ROW				1							
	23512808	BEARING, BALL DBL ROW						1					
	1.4045	RETAINER, CLUTCH PILOT BEARING											
	23514959	RETAINER FLYWHEEL PILOT BRG.				1							
	103323	LOCKWASHER, 1/2"						5					
	186646	BOLT, 1/2"-13X1 3/4"						5					
	5102130	RETAINER						1					

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES												
			A	B	C	D	E	F	G	H	I	J	K	L	M
		1.4000A FLYWHEEL													
	1.4001	FLYWHEEL ASSY.													
	5103212	FLYWHEEL ASSY. (SAE #1) (NC)	1												
1	23516162	FLYWHL ASM 1 TYPE B FOR18.376DRVGRS80		1											
1	23502975	FLYWHEEL ASSY. (SAE #1) (NC)			1										
1	23507975	FLYWHEEL ASSY. (SAE #1) FLAT TYPE				1									
1	23509709	FLYWHEEL ASSY. (SAE #1) (C)					1								
1	23514780	FLYWHEEL ASM NO.1 FLAT C/I RH CHAMF						1							
1	5100539	FLYWHEEL ASSY. (SAE #1) (C)							1						
1	23516544	FLYWHL ASM SAE 1T/DIS 8FLW1452CONVV92								1					
	23517286	FLYWHEEL ASM SAE #1 FLAT 16 CLU BOLT									1				
	23519196	FLYWHEEL ASSY.,SAE1 TYPE1 GMHD & 1.76 RED										1			
	23518892	FLYWHEEL ASSY.,SAE #1											1		
	23514177	FLYWHEEL ASM SAE #1 FLAT LOW INERTIA												1	
	23511268	FLYWHEEL ASSY., SAE #0													1
	5184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED	1	1	1					1					
	1.4010	GEAR, FLYWHEEL RING													
	5166664	GEAR, SAE #1, 118 TEETH, RHCHAMFER				1	1	1	1		1			1	
	5184773	GEAR, SAE #1, 118 TEETH, UNCHAMFERED										1	1		1

DETROIT DIESEL**SERIES 60 ENGINE****FIG. 1 FLYWHEEL HOUSING ASSEMBLY**

21993

FIG. 1 OF 1.5000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7	7	7	7	7	8	8	8	8	8	8	8
				0	3	5	5	6	0	0	1	1	2	2	6
				7	4	7	8	8	5	9	4	9	4	8	8
	1.5000A FLYWHEEL HOUSING														
	1.5001	HOUSING ASSY., FLYWHEEL													
1	23504428	= HOUSING FLYWHL #1 C/I 8BOLT MT PAD				1									
1	23505124	HOUSING (SAE #1; 8 BOLT MT PAD)	A1	1			1		1				1		
1	23505243	* HOUSING FLYWHL SAE #1 AL STLSI8BOLT 9DEG TILT						1							
	23505912	HSG ASM FLYWHL NO.1 AL 9 DEG LT&12 RT	A1					1							
1	23514776	HOUSING ASM FLYWHL #1 C/I 8BOLT MTPAD	A1									1		1	
1	23515496	HOUSING FLYWHL # 1 ALUM 8 BOLT	A1								1				
	23522439	HOUSING ASSY.,FLYWHEEL SAE #1	A1												1
1	8929647	HOUSING FLYWHL SAE#2 C/I 8BOLT MT PAD			1					1					
1	11500945	BOLT, M12 X 1.75 X 45.0		8	8	8	8	8	8	8	8	8	8	8	8
1	11500950	BOLT, M12 X 1.75 X 90.0		4	4	4	4	4	4	4	4	4	4	4	4
	23509483	WASHER, 33/64"X1 1/16"X1/8"		12	12	12	12	12	12	12	12	12	12	12	12
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP		1	1	1		1	1	1					
	5106899	PLUG, 3/4"-16		1	1	1		1	1	1					
	8924751	PLUG, 1 1/4" (12.9550)		1	1	1		1	1	1					
		*NOT SERVICED, USE 23505912. =OBSOLETE.													
	1.5004	SEAL, CRANKSHAFT OIL													
	23513578	SEAL/SLEEVE ASSY., RR DBL LIP WRAP-AROUND							1	1				1	1
	23516969	SEAL & SLEV ASM RR CR/SHF TEFLON LIP		1	1	1	1	1			1	1	1		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8	8	8	8	8	8	8	8	8	8	8	8
				7	7	7	7	7	7	9	9	9	9	9	9
				1	4	5	6	7	8	9	3	6	7	8	9
	1.5000A FLYWHEEL HOUSING														
	1.5001	HOUSING ASSY., FLYWHEEL													
	23505073	HOUSING (SAE #1; 8 BOLT MT PAD; ALUM)	A1						NS						
	23505124	HOUSING (SAE #1; 8 BOLT MT PAD)	A1						1						
1	23514776	HOUSING ASM FLYWHL #1 C/I 8BOLT MTPAD	A1		1					1					
	23522639	HOUSING ASSY FLYWHEEL SAE #1	A1		1										
	23522642	HOUSING FLYWHEEL #2													1
	23522643	HOUSING ASSY.,FLYWHEEL #1 AL 14MM BOLT HOLES	A1	1								1	1		
	23522645	HOUSING ASSY FLYWHEEL SAE #1	A1				1								
	23522646	HOUSING ASSY FLYWHEEL SAE #1	A1			1								1	
	23522647	HOUSING ASSY FLYWHEEL SAE #1						1							
	23522648	HOUSING ASSY.,FLYWHEEL #1 AL 14MM BOLT	A1								1				
1	11500945	BOLT, M12 X 1.75 X 45.0							8						
1	11500950	BOLT, M12 X 1.75 X 90.0							4						
	23522327	BOLT M14 2.00 X 50.0 LG HEX HD		8	8	8	8	8		8	8	8	8	8	8
	23522329	BOLT M14 2.00 X 95.0 LG HEX HD		4	4	4	4	4		4	4	4	4	4	4
	007603020103	WASHER, A20 X 26 COPPER											1		
	23509483	WASHER, 33/64"X1 1/16"X1/8"							12						
	23522326	WASHER		12	12	12	12	12		12	12	12	12	12	12
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP													1
	445055	PLUG 3/4-16 HEX HD CAD/ZINC CTD S60											1		
	5106899	PLUG, 3/4"-16													1
	8924751	PLUG, 1 1/4" (12.9550)													1
	1.5004	SEAL, CRANKSHAFT OIL													
	23513578	SEAL/SLEEVE ASSY., RR DBL LIP WRAP-AROUND						1	1	1	1				
	23516969	SEAL & SLEV ASM RR CR/SHF TEFLON LIP		1	1	1	1								1
	23519651	SEAL, REAR CR/SHF										1	1	1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				9 0 0	9 0 1	9 0 5	9 0 7	9 0 8	9 0 9						
		1.5000A FLYWHEEL HOUSING													
		REFER TO ENGINEERING DRAWING # 06B00 6042													
	1.5001	HOUSING ASSY., FLYWHEEL													
	23522639	HOUSING ASSY FLYWHEEL SAE #1	A1		1		1								
	23522643	HOUSING ASSY., FLYWHEEL #1 AL 14MM BOLT HOLES	A1	1				1							
	23522645	HOUSING ASSY FLYWHEEL SAE #1	A1			1									
	23524010	HOUSING ASSY.F/W #0 14MM BOLT HOLES 12 BOLT MT PAD	A1						1						
	11509533	BOLT, M14 X 2.0 X 100 MM		4											
	23522327	BOLT M14 2.00 X 50.0 LG HEX HD		8	8	8	8	8	8						
	23522329	BOLT M14 2.00 X 95.0 LG HEX HD			4	4	4	4	4						
	23522326	WASHER		8	12	12	12	12	12						
	1.5004	SEAL, CRANKSHAFT OIL													
	23519651	SEAL, REAR CR/SHF		1	1	1	1	1	1						

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B	C	D	E	F	G	H	I	J	K	L
		1.5000A FLYWHEEL HOUSING												
		(Note: Assemblies are shown for component reference only.)												
	1.5001	HOUSING ASSY., FLYWHEEL												
1	23505124	HOUSING (SAE #1; 8 BOLT MT PAD)	1											
	23505912	HSG ASM FLYWHL NO.1 AL 9 DEG LT&12 RT		1							1			
1	23515496	HOUSING FLYWHL # 1 ALUM 8 BOLT			1					1				
1	23514776	HOUSING ASM FLYWHL #1 C/I 8BOLT MTPAD				1								
	23522439	HOUSING ASSY.,FLYWHEEL SAE #1					1							
	23522643	HOUSING ASSY.,FLYWHEEL #1 AL 14MM BOLT HOLES						1						
	23522639	HOUSING ASSY FLYWHEEL SAE #1							1					
	23522646	HOUSING ASSY FLYWHEEL SAE #1								1				
	23522645	HOUSING ASSY FLYWHEEL SAE #1									1			
	23505073	HOUSING (SAE #1; 8 BOLT MT PAD; ALUM)										1		
	23522648	HOUSING ASSY.,FLYWHEEL #1 AL 14MM BOLT											1	
	23524010	HOUSING ASSY.F/W #0 14MM BOLT HOLES 12 BOLT MT PAD												1
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1	1	1	1		1	1	1	1	1		1
	23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD	1	1	1		1	1	1	1	1		1	1
	445055	PLUG 3/4-16 HEX HD CAD/ZINC CTD S60												1
	5106899	PLUG, 3/4"-16	1		1	1	1	1	1	1		1	1	

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
		1.5000B FLYWHEEL HOUSING ADAPTOR		4											
				9											
	1.5130	ADAPTOR, FLYWHEEL HOUSING													
	23519197	SPACER FLYWHL HSG AL 530.23D BC S50G GEN		1											
	23519495	CAPSCREW 7/16-14X2.00 SOC HD S50G		2											

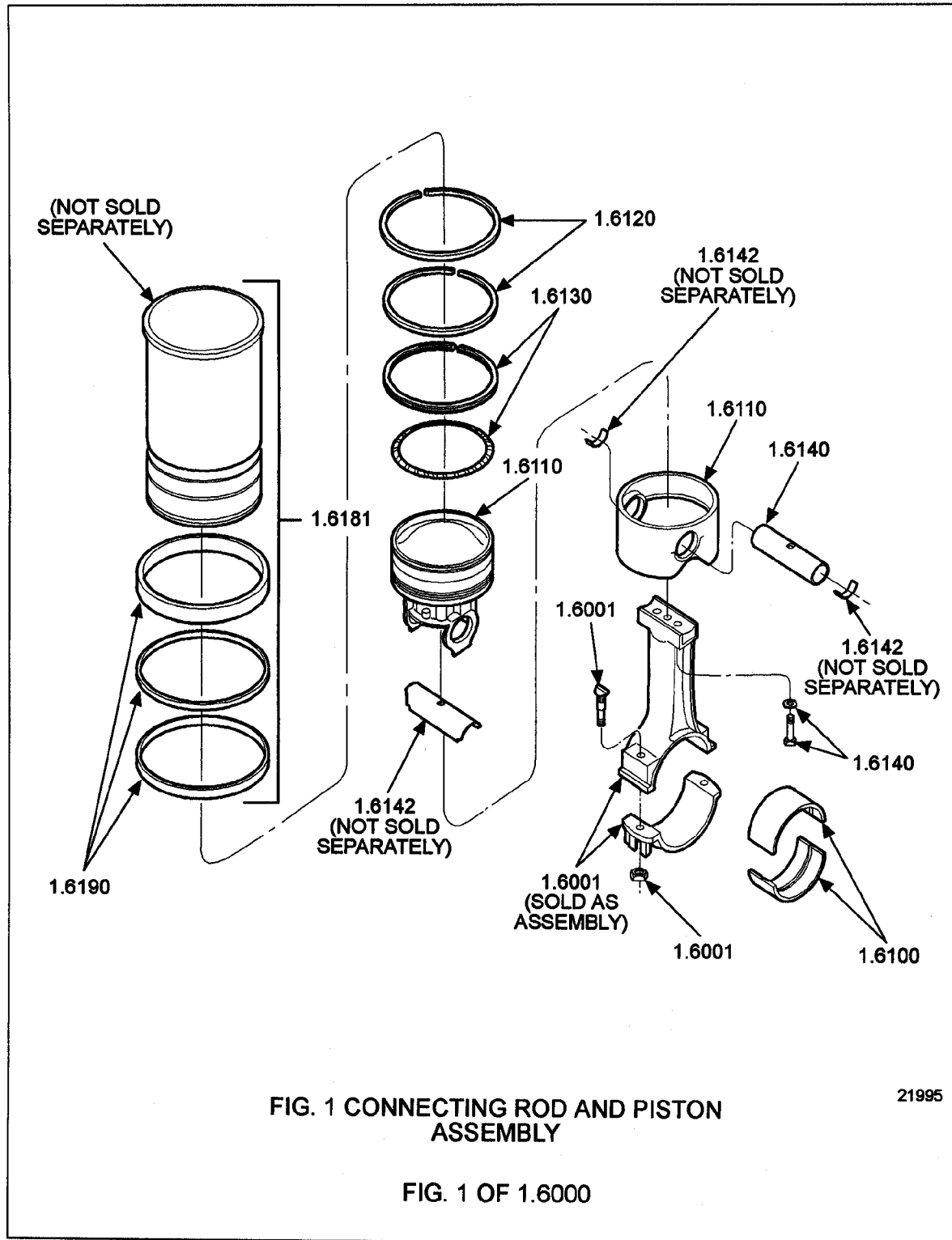
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES										
				3	3	4	4	4	4	4	4	4	5	5
				6	7	0	0	2	2	2	5	8	9	0
				9	0	5	6	1	2	3	7	6	6	1
		1.6000 CONNECTING ROD AND PISTON												
		FOR OPTION # 758, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING # 06D00 6059												
	1.6001	CONNECTING ROD ASSY.												
		QUANTITIES SHOWN ARE PER CYLINDER. A CROSSHEAD ROD ASSY. INCLUDES A CAP. WHICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.												
		NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.												
	23515593	ROD ASSY., 15:1 12.7L (WIDER BEARING SURFACE)			1		1	1		1		1	1	
1	23515594	ROD ASSY., 16:1 11.1L (WIDER BEARING SURFACE)		1		1			1		1			1
1	8929237	ROD ASSY., 16:1 11.1L (FORMER STYLE CRANKSHAFT)		AR		AR			AR		AR			AR
1	8929236	ROD ASSY., 15:1 12.7L (FORMER STYLE CRANKSHAFT)			AR		AR	AR		AR		AR	AR	
	R8929236	REMANUFACTURED 8929236			1		1	1		1		1	1	
	R8929237	REMANUFACTURED 8929237		1		1			1		1			1
1	8929355	BOLT, MJ14 X 1.5 X 108		2	2	2	2	2	2	2	2	2	2	2
1	8929019	NUT, MJ14X1.5		2	2	2	2	2	2	2	2	2	2	2
	1.6095	KIT, CONNECTING ROD BEARING AND GASKET												
	23515442	KIT CONN ROD BRG (STD) AND GASKETS S60 43MM (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23521522	KIT CONN ROD BRG (STD) AND GASKETS S60 47MM (W/WIDER CONN ROD BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.6100	SHELL, CONNECTING ROD BEARING												
		A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL.												
		NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.												
1	8929710	SHELL SET, STD. (FORMER STYLE CRANKSHAFT)		1	1	1	1	1	1	1	1	1	1	1
	8929711	SHELL SET, .254 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929712	SHELL SET, .508 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929713	SHELL SET, .762 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	23515581	SHELL SET, STD. (WIDER BEARINGS)		1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3 6 9	3 7 0	4 0 5	4 0 6	4 2 1	4 2 2	4 2 3	4 5 7	4 8 6	4 9 6	5 0 1	5 0 9
	1.6100	SHELL, CONNECTING ROD BEARING (CONT.)													
1	23515582	SHELL SET, .254 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	23515583	SHELL SET, .508 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	23515584	SHELL SET, .762 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.6110	PISTON KIT A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140. QUANTITIES SHOWN ARE PER CYLINDER.													
	23519624	KIT PSTN LRG OD DOME & SKIRT 2.5MM RG		1	1	1	1	1	1				1	1	
	23519635	KIT PSTNLRG OD DOME 3.5MM RG PRESS FIT BRG \$NOT SERVICED USE PART NO. SHOWN IN PARENTHESES.								1	1	1			1
	1.6115	RING SET, PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.													
	23503747	RING SET, W/KEYSTONE COMPRESSION RINGS (2.5MM TOP)		1	1	1	1	1	1				1	1	
	23505729	RING SET, W/KEYSTONE COMPRESSION RINGS (3.5MM TOP)								1	1	1			1
	1.6120	RING, PISTON COMPRESSION													
1	23504941	RING, TOP (3.5 MM KEYSTONE)								1	1	1			1
1	8929844	RING, TOP (2.5 MM KEYSTONE)		1	1	1	1	1	1				1	1	
1	8929845	RING, BOTTOM (KEYSTONE)		1	1	1	1	1	1	1	1	1	1	1	1
	1.6130	RING, PISTON OIL CONTROL													
1	23515500	RING PSTN OIL CONT CR/HD		1	1	1	1	1	1	1	1	1	1	1	1
1	23515499	EXPANDER		1	1	1	1	1	1	1	1	1	1	1	1
	1.6140	PIN, PISTON													
1	8929087	PIN		1	1	1	1	1	1	1	1	1	1	1	1
1	8929337	BOLT, M14 X 1.5 X 60 12 PT.		2	2	2	2	2	2	2	2	2	2	2	2
1	8929504	SPACER		2	2	2	2	2	2	2	2	2	2	2	2

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				3	3	4	4	4	4	4	4	4	5	5	
		1.6000 CONNECTING ROD AND PISTON		6	7	0	0	2	2	2	5	8	9	0	0
				9	0	5	6	1	2	3	7	6	6	1	9
	1.6142	BEARING, PISTON PIN.													
		KIT INCLUDES (1) TOP BEARING AND (2) EAR BEARINGS WHICH ARE NOT SERVICED SEPARATELY.													
1	23519723	KIT BEARING						1	1	1	1	1	1	1	1
	1.6181	KIT, CYLINDER LINER AND SEALS													
		KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190													
1	23505278	KIT, CLY. LINER AND SEALS		1	1	1	1	1	1	1	1				
	23523948	KIT, LINER TOP COOLING & SEALS										1	1	1	1
	1.6182	CYLINDER KIT													
		A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.													
	R23523951	KIT CYL PTS TLC LNR LRG OD DOME 2.5MM											AR		
	23519625	KIT CYL PTS STD LNR LRG OD DOME 2.5MM		AR	AR	AR	AR	AR	AR						
	23519626	KIT CYL PTS TLC LNR LRG OD DOME 2.5MM												AR	
	23519636	KIT CYLINDER PTS TLC LNR LRG OD DOME 3.5MM										AR			AR
	23519637	KIT CYL PTS STD LNR LRG OD DOME 3.5MM								AR	AR				
	R23505277	REMANUFACTURED 23505277		AR		AR									
	R23505728	REMANUFACTURED 23505728									AR				
	R23513208	REMANUFACTURED 23513208												AR	
	R23513209	REMANUFACTURED 23513209													AR
		\$NOT SERVICED, USE PART NO. SHOWN IN PARENTHESES.													
	1.6190	SEAL, CYLINDER LINER													
1	8929013	SEAL, CREVICE		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 1 2	5 1 3	5 1 4	5 1 8	5 2 1	5 2 2	5 2 4	5 2 6	5 7 2	5 7 7	5 9 6	6 0 2
	1.6001	CONNECTING ROD ASSY. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.													
	23515593	ROD ASSY., 15:1 12.7L (WIDER BEARING SURFACE)		1		1				1	1	1			
1	23515594	ROD ASSY., 16:1 11.1L (WIDER BEARING SURFACE)			1		1	1	1						
	23516447	ROD ASSY. 160MM 10:1													1
	23518407	ROD ASSY., 15:1 11.1L (WIDER BEARING SURFACE)											1	1	
1	8929237	ROD ASSY., 16:1 11.1L (FORMER STYLE CRANKSHAFT)			AR		AR								
1	8929236	ROD ASSY., 15:1 12.7L (FORMER STYLE CRANKSHAFT)		AR		AR									
	R8929236	REMANUFACTURED 8929236		1		1									
	R8929237	REMANUFACTURED 8929237			1		1								
1	8929355	BOLT, MJ14 X 1.5 X 108		2	2	2	2	2	2	2	2	2	2	2	2
1	8929019	NUT, MJ14X1.5		2	2	2	2	2	2	2	2	2	2	2	2
	1.6095	KIT, CONNECTING ROD BEARING AND GASKET													
	23515442	KIT CONN ROD BRG (STD) AND GASKETS S60 43MM (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR								
	23521522	KIT CONN ROD BRG (STD) AND GASKETS S60 47MM (W/WIDER CONN ROD BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.6100	SHELL, CONNECTING ROD BEARING A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.													
1	8929710	SHELL SET, STD. (FORMER STYLE CRANKSHAFT)		1	1	1	1								
	8929711	SHELL SET, .254 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR								
	8929712	SHELL SET, .508 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR								
	8929713	SHELL SET, .762 MM U.S. (FORMER STYLE CRANKSHAFT)		AR	AR	AR	AR								
1	23515581	SHELL SET, STD. (WIDER BEARINGS)		1	1	1	1	1	1	1	1	1	1	1	1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				5 1 2	5 1 3	5 1 4	5 1 8	5 2 1	5 2 2	5 2 4	5 2 6	5 7 2	5 7 7	5 9 6	6 0 2
		1.6000 CONNECTING ROD AND PISTON													
	1.6100	SHELL, CONNECTING ROD BEARING (CONT.)													
1	23515582	SHELL SET, .254 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	23515583	SHELL SET, .508 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	23515584	SHELL SET, .762 MM U.S. (WIDER BEARINGS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.6110	PISTON KIT A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140. QUANTITIES SHOWN ARE PER CYLINDER.													
	23519624	KIT PSTN LRG OD DOME & SKIRT 2.5MM RG		1	1				1	1			1		
	23519644	PISTON KIT, LRG OD DOME & SKIRT 3.5MM RG (NS USE 23524841 PISTON KIT & 23524842 RING SET)													1
	23519635	KIT PSTNLRG OD DOME 3.5MM RG PRESS FIT BRG				1	1	1			1			1	
	23519646	PISTON KIT, LRG OD DOME & SKIRT 2.5MM RG										1			
	23519734	PSTN ASM CR/HD 3.5MM RGGFRV CNC CMFR												1	
	1.6115	RING SET, PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.													
	23524842	KIT, RING SET 3.5MM COMP 3 PC OIL CONT RING													1
	23503747	RING SET, W/KEYSTONE COMPRESSION RINGS (2.5MM TOP)		1	1				1	1		1	1		
	23505729	RING SET, W/KEYSTONE COMPRESSION RINGS (3.5MM TOP)				1	1	1			1			1	
	1.6120	RING, PISTON COMPRESSION													
	23518373	RING COMP RECT NEG TWIST CR/HD PSTN													1
1	8929844	RING, TOP (2.5 MM KEYSTONE)		1	1				1	1		1	1		
1	23504941	RING, TOP (3.5 MM KEYSTONE)				1	1	1			1			1	1
1	8929845	RING, BOTTOM (KEYSTONE)		1	1	1	1	1	1	1	1	1	1	1	
	1.6130	RING, PISTON OIL CONTROL													
1	23515500	RING PSTN OIL CONT CR/HD		1	1	1	1	1	1	1	1	1	1	1	1
1	23515499	EXPANDER		1	1	1	1	1	1	1	1	1	1	1	1

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 1 2	5 1 3	5 1 4	5 1 8	5 2 1	5 2 2	5 2 4	5 2 6	5 7 2	5 7 7	5 9 6	6 0 2
	1.6140	PIN, PISTON													
1	8929087	PIN		1	1	1	1	1	1	1	1	1	1	1	1
1	8929337	BOLT, M14 X 1.5 X 60 12 PT.		2	2	2	2	2	2	2	2	2	2	2	2
1	8929504	SPACER		2	2	2	2	2	2	2	2	2	2	2	2
	1.6142	BEARING, PISTON PIN.													
		KIT INCLUDES (1) TOP BEARING AND (2) EAR BEARINGS WHICH ARE NOT SERVICED SEPARATELY.													
1	23519723	KIT BEARING		1	1	1	1	1	1	1	1	1	1	1	1
	1.6181	KIT, CYLINDER LINER AND SEALS													
		KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190													
	23523948	KIT, LINER TOP COOLING & SEALS		1	1	1	1	1	1	1	1	1	1	1	1
	1.6182	CYLINDER KIT													
		A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.													
	R23523951	KIT CYL PTS TLC LNR LRG OD DOME 2.5MM		AR	AR			AR	AR			AR			
	23524840	KIT, CYL TLC LINER 3PC OIL CONTROL RING													1
	23519636	KIT CYLINDER PTS TLC LNR LRG OD DOME 3.5MM				AR	1	1		1				1	
	23519647	CYLINDER KIT PTS STD LNR LRG OD DOME 2.5MM									1				
	1.6190	SEAL, CYLINDER LINER													
1	8929013	SEAL, CREVICE		1	1	1	1	1	1	1	1	1	1	1	1

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	6	6	6	6	6	7	7	7	
				3	6	8	9	9	9	0	2	2	
		1.6000 CONNECTING ROD AND PISTON		1	4	0	3	4	9	3	0	1	
	1.6001	CONNECTING ROD ASSY.											
	23515593	ROD ASSY., 15:1 12.7L (WIDER BEARING SURFACE)			1			1	1				
	23516447	ROD ASSY. 160MM 10:1								1			
	23522876	ROD ASSY., 14L				1							
	23523195	ROD ASSY., 15:1 12L		1			1						
	23524956	ROD ASSY., CONN PLATED GROOVED BRASS BUSHIN										1	
	23526078	ROD ASSY., CONN DRILLED STL PSTN LEAD FREE									1		
	23522877	BOLT, M14 X 1.5 X 111.5L				2							
1	8929355	BOLT, MJ14 X 1.5 X 108		2	2		2	2	2	2			
1	8929019	NUT, MJ14X1.5		2	2	2	2	2	2	2			
	1.6095	KIT, CONNECTING ROD BEARING AND GASKET											
	23521522	KIT CONN ROD BRG (STD) AND GASKETS S80 47MM (W/WIDER CONN ROD BEARINGS)			AR				AR				
	1.6100	SHELL, CONNECTING ROD BEARING											
		A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL. NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.											
	23524857	SHELL SET, STD ARTICULATED 14L				1						1	
1	23515581	SHELL SET, STD. (WIDER BEARINGS)			1			1	1	1			
1	23515582	SHELL SET, .254 MM U.S. (WIDER BEARINGS)			AR			AR	AR	AR			
1	23515583	SHELL SET, .508 MM U.S. (WIDER BEARINGS)			AR			AR	AR	AR			
1	23515584	SHELL SET, .762 MM U.S. (WIDER BEARINGS)			AR			AR	AR	AR			
	23523935	SHELL SET (UPR&LWR)(ARTICULATED STEEL)GROOVELESS		1			1						
	23526846	KIT, CONN ROD BRG LWR & UPR DRILLED									1		

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6 3 1	6 6 4	6 8 0	6 9 3	6 9 4	6 9 9	7 0 3	7 2 0	7 2 1						
	1.6110	PISTON KIT A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140. QUANTITIES SHOWN ARE PER CYLINDER.																
	R23524841	PISTON KIT, DOME & SKIRT 3PC OIL CONT RING								1								
	23519624	KIT PSTN LRG OD DOME & SKIRT 2.5MM RG			1				1									
	23523096	PISTON KIT, STEEL PISTON & SKIRT (W/PISTON PIN IN 1.6140 & 2-RETAINERS IN 1.6150)	1															
	23524594	PISTON ASSY.,CR/HD CNC 3.5MM LG RG DOME EAR								1								
	23524597	DOME KIT & SKIRT PSTN ASSY.,1.1MM ARTI STL					1											
	23524601	KIT, PSTN LRG OD DOME 2.5MM RG PRESS FIT BRG						1										
	23524778	PISTON KIT, STEEL PISTON & SKIRT (W/PISTON PIN IN 1.6140 & 2-RETAINERS IN 1.6150)				1												
	23525738	KIT, DOME & SKIRT PSTN ASSY. ART STL 15:1										1						
	23526277	KIT, DOME & SKIRT ASSY. ARTICULATED STEEL									1							
	1.6115	RING SET, PISTON RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.																
	23524842	KIT, RING SET 3.5MM COMP 3 PC OIL CONT RING								1								
	23525553	RING SET (2.5MM TOP)	1				1											
	23525573	RING SET				1						1						
	23526278	KIT, PISTON RING SET									1							
	23503747	RING SET, W/KEYSTONE COMPRESSION RINGS (2.5MM TOP)			1			1	1									
	1.6120	RING, PISTON COMPRESSION																
	23518373	RING COMP RECT NEG TWIST CR/HD PSTN								1								
	23522713	RING, TOP (2.5MM CHR FLISH)	1				1											
	23522878	RING, TOP (3MM CHR FLISH 14L)				1							1					
	23525170	RING, TOP COMP 3.0MM									1							
1	8929844	RING, TOP (2.5 MM KEYSTONE)			1			1	1									
1	23504941	RING, TOP (3.5 MM KEYSTONE)								1								
	23522879	RING, COMP 14L				1										1		
1	8929845	RING, BOTTOM (KEYSTONE)		1	1		1	1	1		1							

				TYPES								
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6 3 1	6 6 4	6 8 0	6 9 3	6 9 4	6 9 9	7 0 3	7 2 0	7 2 1
		1.6000 CONNECTING ROD AND PISTON										
	1.6130	RING, PISTON OIL CONTROL										
	23522880	RING, PSTN OIL CONT 14L				1						1
1	23524633	RAIL SPR PSTN OIL CONT LG RING								2		
	23515499	EXPANDER		1	1		1	1	1		1	
	23522881	EXPANDER 14L				1						1
	23524632	EXPANDER, SPR PSTN OIL CONT LG RING								1		
	23515500	RING PSTN OIL CONT CR/HD		1	1		1	1	1		1	
	1.6140	PIN, PISTON										
	23521649	PIN, PISTON STL ARTICULATED		1			1					
	23522872	PIN, PISTON STL ARTICULATED 14L				1						1
	23525168	PIN, PISTON ARTICULATED STL PISTON									1	
1	8929087	PIN			1			1	1	1		
1	8929337	BOLT, M14 X 1.5 X 60 12 PT.			2			2	2	2		
1	8929504	SPACER			2			2	2	2		
	1.6142	BEARING, PISTON PIN.										
		KIT INCLUDES (1) TOP BEARING AND (2) EAR BEARINGS WHICH ARE NOT SERVICED SEPARATELY.										
1	23519723	KIT BEARING			1			1	1	1		
	1.6150	RETAINER, PISTON PIN										
	23521781	RETAINER, STEEL PISTON PIN		2		2	2				2	2
	1.6181	KIT, CYLINDER LINER AND SEALS										
		KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190										
	23523948	KIT, LINER TOP COOLING & SEALS		1	1		1	1	1	1	1	
	23524843	KIT, LINER TOP COOLING AND SEALS				1						

			TYPES								
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	6	6	6	6	6	7	7
				3	6	8	9	9	9	0	2
		1.6000 CONNECTING ROD AND PISTON		1	4	0	3	4	9	3	0
	1.6182	CYLINDER KIT A KIT INCLUDES ITEMS IN 1.6110, 1.6115, 1.6140 AND 1.6181.									
	R23523951	KIT CYL PTS TLC LNR LRG OD DOME 2.5MM			AR				AR		
	R23524840	CYLINDER KIT,PTS TLC LNR PRESS FIT BRG 3PC OIL CONT								AR	
	23523955	CYLINDER KIT, ARTICULATED PISTON 2.5MM	AR								
	23524602	(R) CYLINDER KIT PTS TLC LRG OD DOME 2.5MM						1			
	23524779	CYLINDER KIT, ARTICULATED STEEL PISTON 3.0MM				AR					
	23525835	KIT, CYLINDER ART STL PSTN 15:1									AR
	23524596	CYLINDER KIT, ARTICULATED STL PSTN 1.1MM					AR				
	1.6190	SEAL, CYLINDER LINER									
1	8929013	SEAL, CREVICE			1		1	1	1	1	1

DETROIT DIESEL

SERIES 60 ENGINE

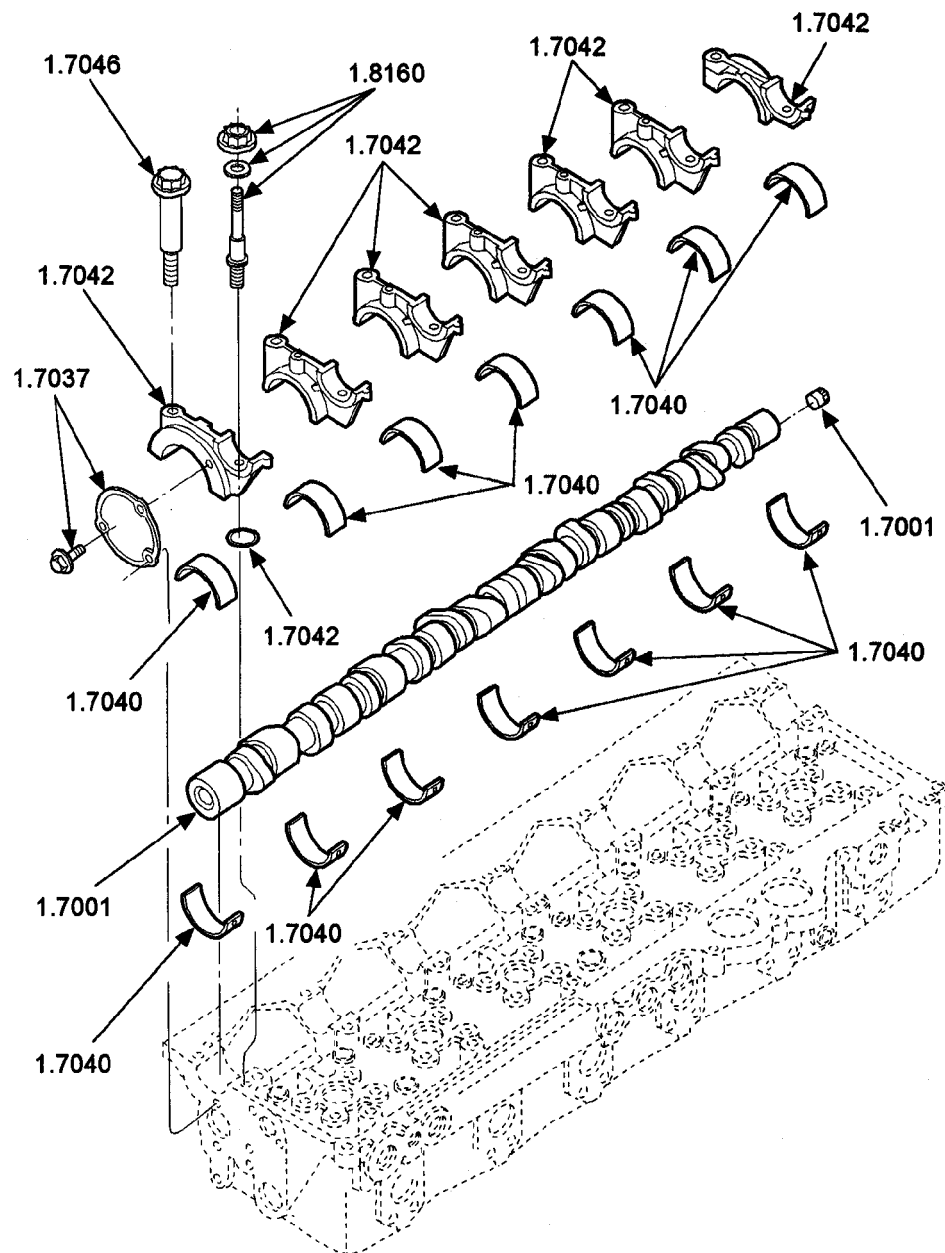


FIG. 1 CAMSHAFT

24086

FIG. 1 OF 1.7000

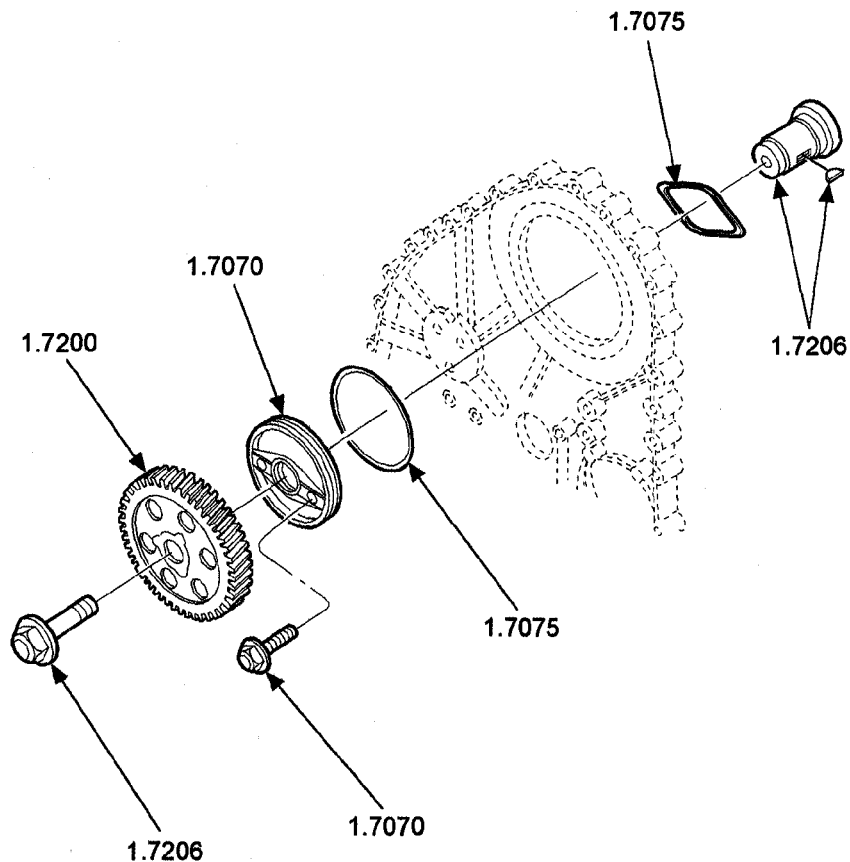
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 2 CAMSHAFT GEAR ASSEMBLY

38494

FIG. 2 OF 1.7000

DETROIT DIESEL

SERIES 60 ENGINE

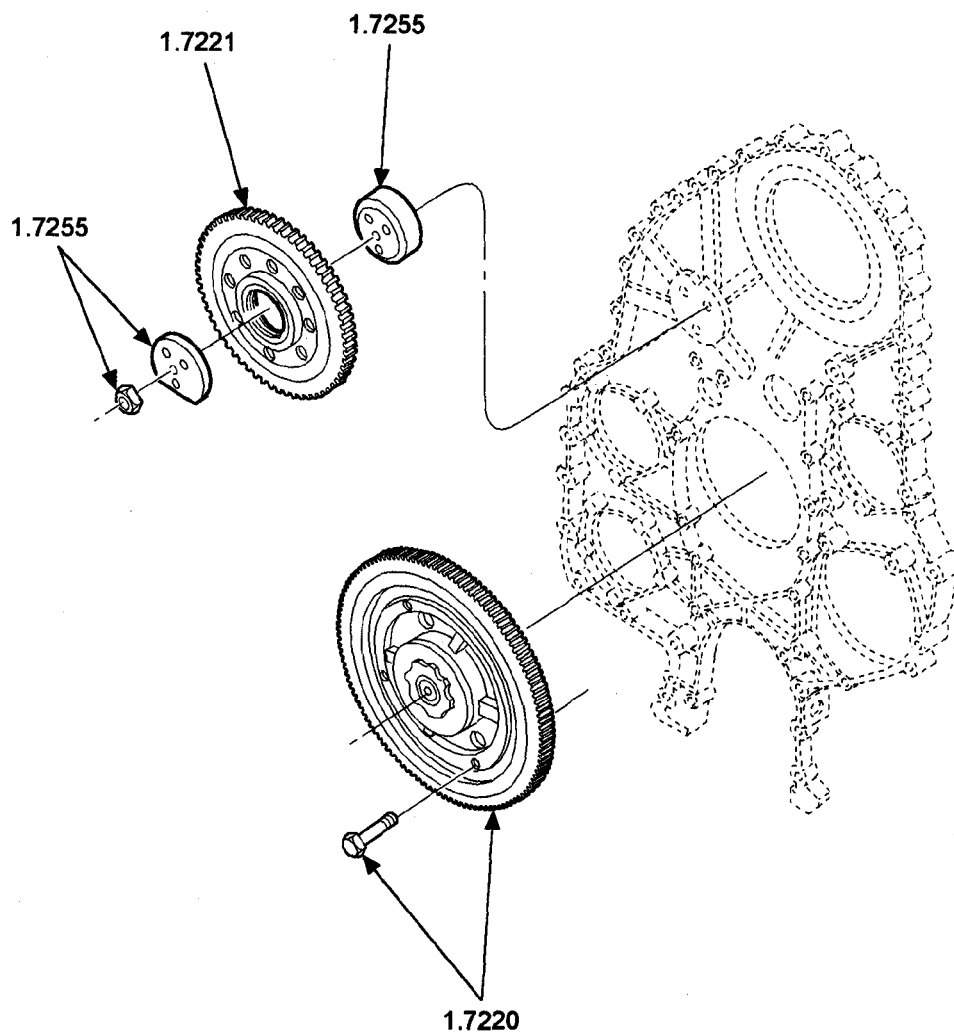


FIG. 3 GEAR IDLER ASSEMBLY

21991

FIG. 3 OF 1.7000

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5	5	7	7	7	7	7	7	7	8	8	8
				8	8	2	2	3	4	5	6	6	8	8	9
				8	9	4	5	8	3	3	2	6	4	7	5
	1.7001	CAMSHAFT ASSY. A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.													
1	23505195	CAMSHAFT ASSY. 12L						1	1	1		1			
1	23513562	CAMSHAFT ASSY. 11L													1
1	23513564	CAMSHAFT ASSY. 12L											1	1	
1	8929473	CAMSHAFT ASSY. 12.7L			1		1				1				
1	8929485	(R) CAMSHAFT ASSY., 11 L.	1			1									
1	8920172	DOWEL, CAMSHAFT (1.7200)	1	1	1	1	1	1	1	1	1	1	1	1	1
	R23505195	REMANUFACTURED 23505195						AR	AR	AR		AR			
	R23513562	REMANUFACTURED 23513562													AR
	R23513564	REMANUFACTURED 23513564											AR	AR	
	R8929485	REMANUFACTURED 8929485	AR			AR									
	1.7037	COVER, CAMSHAFT BEARING CAP													
1	23514716	COVER RR CAMSHF S60		1	1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		3	3	3	3	3	3	3	3	3	3	3	3
	1.7040	BEARING, CAMSHAFT A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.													
1	8929690	BEARING SET (STD.)		7	7	7	7	7	7	7	7	7	7	7	7
1	8929691	BEARING SET, .254 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929692	BEARING SET, .508 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929693	BEARING SET, .762 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.7042	CAP, CAMSHAFT BEARING													
1	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)		4	4	4	4	4	4	4	4	4	4	4	4
1	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	5138638	DOWEL, .626"X.37" HOLLOW (4.1040) *FIG. 1 OF 1.2000.		7	7	7	7	7	7	7	7	7	7	7	7
	1.7046	BOLT, CAMSHAFT BEARING CAP													
1	8929129	BOLT, M12 X 1.75 X 85		7	7	7	7	7	7	7	7	7	7	7	7

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5	5	7	7	7	7	7	7	7	8	8	8
				8	8	2	2	3	4	5	6	6	8	8	9
		1.7000 CAMSHAFT AND GEAR TRAIN		8	9	4	5	8	3	3	2	6	4	7	5
	1.7070	PLATE, CAM AND BALANCE SHAFT THRUST													
2	23521001	PLATE THRUST FRT CAMSHF 2 BOLT S60		1	1	1	1	1	1	1	1	1	1	1	1
2	11504822	BOLT, M8 X 1.25 X 30		2	2	2	2	2	2	2	2	2	2	2	2
	1.7075	SEAL, CAMSHAFT THRUST PLATE													
2	23517334	SEAL, CAM THRUST PLATE TO CYL HEAD 2 BOLT		1	1	1	1	1	1	1	1	1	1	1	1
2	8929318	SEAL (GEAR HOUSING)		1	1	1	1	1	1	1	1	1	1	1	1
	1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT													
2	8929379	GEAR 111T		1	1	1	1	1	1	1	1	1	1	1	1
	1.7206	HUB, CAMSHAFT GEAR													
2	23524883	HUB CAM DRV GEAR		1	1	1	1	1	1	1	1	1	1	1	1
2	8929206	BOLT, M18 X 1.5 X 100 SLOTTED (12.9001)		1	1			1				1			
2	8929810	KEY, NON ROCK (12.9350)		1	1	1	1	1	1	1	1	1	1	1	1
2	23504851	BOLT, M18 X 1.5 X 100 (12.9001)				1	1	1		1	1		1	1	1
	1.7220	GEAR ASSY., IDLER													
		A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.													
	R8929168	REMANUFACTURED 8929168		AR		AR				AR	AR	AR		AR	
3	23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III											1		1
3	8929168	GEAR AND HUB ASSY., BULL ACCSY. AND CAMSHF.		1	1	1	1	1	1	1	1	1		1	
3	8929448	BOLT, M12 X 1.75 X 35		4	4	4	4	4	4	4	4	4	4	4	4
	1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER													
3	8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)		1	1	1	1	1	1	1	1	1	1	1	1
	1.7255	HUB, ADJUSTABLE IDLER GEAR													
3	8929111	HUB		1	1	1	1	1	1	1	1	1	1	1	1
3	11509607	NUT, M12 X 1.75		3	3	3	3	3	3	3	3	3	3	3	3
3	8929336	PLATE, ADJUSTMENT		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				9	1	1	1	1	1	1	1	1	1	1	1
				2	0	0	0	0	0	0	0	0	0	0	1
				3	3	3	4	5	7	7	9	9	9	0	1
				3	6	6	4	0	2	1	4	6	3	4	
	1.7001	CAMSHAFT ASSY. A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.													
1	23505195	CAMSHAFT ASSY. 12L	1												
1	23513562	CAMSHAFT ASSY. 11L				1									
1	23513564	CAMSHAFT ASSY. 12L			1				1						
	23518718	CAMSHAFT ASSY. 11 L.					1	1							
	23520292	CAMSHAFT ASM 47J 3 LOBE 11L DDECIII (15:1)									1				
	23520627	CAMSHAFT ASM NO INJ LOBES S60G								1					
	23521681	CAMSHAFT ASSY.,12L											1	1	
	23522200	CAMSHAFT ASM 65J 11L DDEC IV													1
1	8920172	DOWEL, CAMSHAFT (1.7200)	1	1	1	1	1	1	1	1		1	1	1	
	R23505195	REMANUFACTURED 23505195	AR												
	R23513562	REMANUFACTURED 23513562				AR									
	R23513564	REMANUFACTURED 23513564			AR	AR			AR						
	1.7037	COVER, CAMSHAFT BEARING CAP													
1	23514716	COVER RR CAMSHF S60	1	1	1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM	3	3	3	3	3	3	3	3	3	3	3	3	3
	1.7040	BEARING, CAMSHAFT A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.													
1	8929690	BEARING SET (STD.)	7	7	7	7	7	7	7	7	7	7	7	7	7
1	8929691	BEARING SET, .254 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929692	BEARING SET, .508 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929693	BEARING SET, .762 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.7042	CAP, CAMSHAFT BEARING													
1	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4	4	4	4	4	4	4	4	4	4	4	4	4
1	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929740	SEAL, RING .134X.074X.480 I.D.	2	2	2	2	2	2	2	2	2	2	2	2	2
	5138638	DOWEL, .626"X.37" HOLLOW (4.1040) *FIG. 1 OF 1.2000.	7	7	7	7	7	7	7	7	7	7	7	7	7

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	1	1	1	1	1	1	1	1	1	1	1	1
				2	0	0	0	0	0	0	0	0	0	0	1	1
				3	3	3	4	5	7	7	9	9	9	0	1	
					3	6	6	4	0	2	1	4	6	3	4	
1.7000 CAMSHAFT AND GEAR TRAIN																
1.7046 BOLT, CAMSHAFT BEARING CAP																
1	8929129	BOLT, M12 X 1.75 X 65		7	7	7	7	7	7	7	7	7	7	7	7	7
1.7070 PLATE, CAM AND BALANCE SHAFT THRUST																
	23519769	PLATE, THRUST FRT CAMSHAFT						1			2					
2	23521001	PLATE THRUST FRT CAMSHF 2 BOLT S60		1	1	1	1	1	1	1	1	1	1	1	1	1
2	11504822	BOLT, M8 X 1.25 X 30		2	2	2	2	2	2	3	2	2	2	2	2	2
1.7075 SEAL, CAMSHAFT THRUST PLATE																
2	23517334	SEAL, CAM THRUST PLATE TO CYL HEAD 2 BOLT		1	1	1	1	1	1	1	1	1	1	1	1	1
2	8929318	SEAL (GEAR HOUSING)		1	1	1	1	1	1	1	1	1	1	1	1	1
1.7200 GEAR, CAMSHAFT AND BALANCE SHAFT																
2	8929379	GEAR 111T		1	1	1	1	1	1	1	1	1	1	1	1	1
	8929493	GEAR ASM CAMSHAFT								1						
1.7206 HUB, CAMSHAFT GEAR																
2	23524883	HUB CAM DRV GEAR		1	1	1	1	1	1	1	1	1	1	1	1	1
2	8929206	BOLT, M18 X 1.5 X 100 SLOTTED (12.9001)				1		1								
2	8929810	KEY, NON ROCK (12.9350)		1	1	1	1	1	1	1	1	1	1	1	1	1
2	23504851	BOLT, M18 X 1.5 X 100 (12.9001)		1	1	1		1		1	1	1	1	1	1	1
1.7220 GEAR ASSY., IDLER																
A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.																
3	23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III		1	1	1	1	1	1	1			1	1	1	1
3	8929168	GEAR AND HUB ASSY., BULL ACCSY. AND CAMSHF.									1					
3	8929448	BOLT, M12 X 1.75 X 35		4	4	4	4	4	4	4	4	4	4	4	4	4
1.7221 GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER																
3	8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)		1	1	1	1	1	1	1	1	1	1	1	1	1

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				9	1	1	1	1	1	1	1	1	1	1	1
		1.7000 CAMSHAFT AND GEAR TRAIN		2	0	0	0	0	0	0	0	0	0	1	1
				3	3	3	4	5	7	7	9	9	9	0	1
					3	6	6	4	0	2	1	4	6	3	4
	1.7255	HUB, ADJUSTABLE IDLER GEAR													
3	8929111	HUB		1	1	1	1	1	1	1	1	1	1	1	1
3	11509607	NUT, M12 X 1.75		3	3	3	3	3	3	3	3	3	3	3	3
3	8929336	PLATE, ADJUSTMENT		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		1.7000 CAMSHAFT AND GEAR TRAIN		1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	2	2	2	2	3	3	3	4
				5	6	7	9	1	2	3	6	0	1	3	6
	1.7001	CAMSHAFT ASSY.													
		A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.													
1	23513562	CAMSHAFT ASSY. 11L							1				1		
1	23513564	CAMSHAFT ASSY. 12L		1				1							
	23518718	CAMSHAFT ASSY. 11 L				1						1			
	23520292	CAMSHAFT ASM 47J 3 LOBE 11L DDECIII (15:1)												1	
	23520627	CAMSHAFT ASM NO INJ LOBES S60G							1						
	23521681	CAMSHAFT ASSY.,12L			1		1								
	23522200	CAMSHAFT ASM 65J 11L DDEC IV								1					
1	8920172	DOWEL, CAMSHAFT (1.7200)		1	1	1	1	1	1	1	1	1	1	1	1
	R23513562	REMANUFACTURED 23513562											AR		
	R23513564	REMANUFACTURED 23513564	AR					AR							
	23522893	CAMSHAFT ASSY., 14L (3 LOBE 80J)													1
	1.7037	COVER, CAMSHAFT BEARING CAP													
1	11509511	BOLT, M8 X 1.25 X 20 MM		3	3	3	3	3	3	3	3	3	3	3	3
	23514716	COVER RR CAMSHF S60		1	1	1	1	1	1	1	1	1	1	1	1
	1.7040	BEARING, CAMSHAFT													
		A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.													
1	8929690	BEARING SET (STD.)		7	7	7	7	7	7	7	7	7	7	7	7
1	8929691	BEARING SET, .254 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929692	BEARING SET, .508 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929693	BEARING SET, .762 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.7042	CAP, CAMSHAFT BEARING													
1	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)		4	4	4	4	4	4	4	4	4	4	4	4
1	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)		1	1	1	1	1	1	1	1	1	1	1	1
1	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	5138638	DOWEL, .626"X.37" HOLLOW (4.1040)		7	7	7	7	7	7	7	7	7	7	7	7
		*FIG. 1 OF 1.2000.													
	1.7046	BOLT, CAMSHAFT BEARING CAP													
1	8929129	BOLT, M12 X 1.75 X 65		7	7	7	7	7	7	7	7	7	7	7	7

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		1.7000 CAMSHAFT AND GEAR TRAIN		1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	2	2	2	2	3	3	3	4
				5	6	7	9	1	2	3	6	0	1	3	6
	1.7070	PLATE, CAM AND BALANCE SHAFT THRUST													
	23521892	PLATE, CAM THRUST 3 BOLT		1	1	1	1	1	1	1	1	1	1	1	1
2	11504822	BOLT, M8 X 1.25 X 30		3	3	3	3	3	3	3	3	3	3	3	3
	1.7075	SEAL, CAMSHAFT THRUST PLATE													
	23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT		1	1	1	1	1	1	1	1	1	1	1	1
2	8929318	SEAL (GEAR HOUSING)		1	1	1	1	1	1	1	1	1	1	1	1
	1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT													
	23521895	GEAR ASSY., CAMSHFT DRIVE 3-BLT TRSTPLT NITR										1	1	1	
2	8929379	GEAR 111T		1	1	1	1	1	1	1	1	1	1	1	1
	8929493	GEAR ASM CAMSHAFT													1
	1.7206	HUB, CAMSHAFT GEAR													
2	23524883	HUB CAM DRV GEAR		1	1	1	1	1	1	1	1	1	1	1	1
2	8929206	BOLT, M18 X 1.5 X 100 SLOTTED (12.9001)					1	1				1	1		
2	23504851	BOLT, M18 X 1.5 X 100 (12.9001)		1	1	1			1	1	1			1	1
	8929810	KEY, NON ROCK (12.9350)		1	1	1	1	1	1	1	1	1	1	1	1
	1.7220	GEAR ASSY., IDLER													
		A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.													
3	23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III		1	1	1	1	1	1	1	1	1	1	1	1
3	8929448	BOLT, M12 X 1.75 X 35		4	4	4	4	4	4	4	4	4	4	4	4
	1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER													
3	8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)		1	1	1	1	1	1	1	1	1	1	1	1
	1.7255	HUB, ADJUSTABLE IDLER GEAR													
3	8929111	HUB		1	1	1	1	1	1	1	1	1	1	1	1
3	11509607	NUT, M12 X 1.75		3	3	3	3	3	3	3	3	3	3	3	3
3	8929336	PLATE, ADJUSTMENT		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				4	5	7	7	7	7	8	8	8	8	8	8
		1.7000 CAMSHAFT AND GEAR TRAIN		8	8	0	4	6	8	9	2	3	4	5	6
	1.7001	CAMSHAFT ASSY.													
		A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.													
	23522200	CAMSHAFT ASM 65J 11L DDEC IV	1												
	23524292	CAMSHAFT & DOWEL ASSY.			1		1								
	23524655	CAMSHAFT & DOWEL ASSY.				1			1						
	23524898	CAMSHAFT ASSY. 11 L													1
	23524900	CAMSHAFT & DOWEL ASSY., 44N/32J/7E 11L											1		
	23524906	CAMSHAFT ASSY., 12L										1			
	23524912	CAMSHAFT & DOWEL ASSY., 44N/92J/16E							1						
	23525526	CAMSHAFT ASSY. (44N/98J/16E W/13DEG ADV)						1							
1	8920172	DOWEL, CAMSHAFT (1.7200)	1	1	1	1	1		1	1	1	1	1	1	1
	23524908	CAMSHAFT ASSY., 12L (44N/47J/16E)												1	
	23524914	CAMSHAFT ASSY., 11L (44N/97J/7E)									1				
	1.7037	COVER, CAMSHAFT BEARING CAP													
1	11509511	BOLT, M8 X 1.25 X 20 MM	3	3	3	3	3	3	3	3	3	3	3	3	3
	23514716	COVER RR CAMSHF S60	1	1	1	1	1	1	1	1	1	1	1	1	1
	1.7040	BEARING, CAMSHAFT													
		A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.													
1	8929690	BEARING SET (STD.)	7	7	7	7	7	7	7	7	7	7	7	7	7
1	8929691	BEARING SET, .254 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929692	BEARING SET, .508 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929693	BEARING SET, .762 MM O.S.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.7042	CAP, CAMSHAFT BEARING													
1	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)	1	1	1	1	1	1			1			1	
	23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL (USED WITH 23522975 RACE TRACK SEAL)							1			1	1		1
1	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4	4	4	4	4	4	4	4	4	4	4	4	4
1	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929740	SEAL, RING .134X.074X.480 I.D.	2	2	2	2	2	2	1	2	1	1	2	1	
	5138638	DOWEL, .626"X.37" HOLLOW (4.1040)	7	7	7	7	7	7	7	7	7	7	7	7	7
		*FIG. 1 OF 1.2000.													

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		1.7000 CAMSHAFT AND GEAR TRAIN		1	1	1	1	1	1	1	1	1	1	1	1
				4	5	7	7	7	7	8	8	8	8	8	8
				8	8	0	4	6	8	9	2	3	4	5	6
1	1.7046	BOLT, CAMSHAFT BEARING CAP													
	8929129	BOLT, M12 X 1.75 X 65		7	7	7	7	7	7	7	7	7	7	7	7
2	1.7070	PLATE, CAM AND BALANCE SHAFT THRUST													
	23521892	PLATE, CAM THRUST 3 BOLT		1	1	1	1	1	1	1	1	1	1	1	1
	11504822	BOLT, M8 X 1.25 X 30		3	3	3	3	3	3	3	3	3	3	3	3
2	1.7075	SEAL, CAMSHAFT THRUST PLATE													
	23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT		1	1	1	1	1	1	1	1	1	1	1	1
	8929318	SEAL (GEAR HOUSING)		1	1	1	1	1	1	1	1	1	1	1	1
2	1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT													
	23521895	GEAR ASSY., CAMSHFT DRIVE 3-BLT TRSTPLT NITR		1		1	1				1	1	1	1	
	8929379	GEAR 111T		1	1	1	1	1	1	1	1	1	1	1	1
2	1.7206	HUB, CAMSHAFT GEAR													
	23524883	HUB CAM DRV GEAR		1	1	1	1	1	1	1	1	1	1	1	1
	23524882	BOLT, M20 X 1.50 X 100.0						1		1	1	1	1	1	1
2	8929206	BOLT, M18 X 1.5 X 100 SLOTTED (12.9001)		1			1	1							
2	23504851	BOLT, M18 X 1.5 X 100 (12.9001)			1	1									
	8929810	KEY, NON ROCK (12.9350)		1	1	1	1	1	1	1	1	1	1	1	1
3	1.7220	GEAR ASSY., IDLER													
		A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.													
	R23513559	GEAR ASSY., CAMSHF/ACSRV BRG & HUB						AR				1	1		
3	23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III		1	1	1	1	1	1	1				1	1
3	8929448	BOLT, M12 X 1.75 X 35		4	4	4	4	4	4	4	4	4	4	4	4
3	1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER													
	8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		1.7000 CAMSHAFT AND GEAR TRAIN		1	1	1	1	1	1	1	1	1	1	1	1
				4	5	7	7	7	7	8	8	8	8	8	8
				8	8	0	4	6	8	9	2	3	4	5	6
	1.7255	HUB, ADJUSTABLE IDLER GEAR													
3	8829111	HUB		1	1	1	1	1	1	1	1	1	1	1	1
3	11509607	NUT, M12 X 1.75		3	3	3	3	3	3	3	3	3	3	3	3
3	8829336	PLATE, ADJUSTMENT		1	1	1	1	1	1	1	1	1	1	1	1

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1 1 8 7	1 1 9 0	1 1 9 1							
		1.7000 CAMSHAFT AND GEAR TRAIN											
	1.7001	CAMSHAFT ASSY. A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.											
	23524906	CAMSHAFT ASSY., 12L				1							
	23524912	CAMSHAFT & DOWEL ASSY., 44N/92J/16E		1									
1	8920172	DOWEL, CAMSHAFT (1.7200)		1	1	1							
	23524910	CAMSHAFT ASSY., (W/O INJ LOBES 18N/4)			1								
	1.7037	COVER, CAMSHAFT BEARING CAP											
1	11509511	BOLT, M8 X 1.25 X 20 MM		3	3	3							
	23514716	COVER RR CAMSHF S60		1	1	1							
	1.7040	BEARING, CAMSHAFT A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.											
1	8929690	BEARING SET (STD.)		7	7	7							
1	8929691	BEARING SET, .254 MM O.S.		AR	AR	AR							
1	8929692	BEARING SET, .508 MM O.S.		AR	AR	AR							
1	8929693	BEARING SET, .762 MM O.S.		AR	AR	AR							
	1.7042	CAP, CAMSHAFT BEARING											
1	8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)		1	1								
	23522649	CAP, #1 CAMSHAFT BEARING FRT RACE TRACK SEAL (USED WITH 23522975 RACE TRACK SEAL)				1							
1	8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)		4	4	4							
1	8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)		1	1	1							
1	8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)		1	1	1							
1	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	1							
	5138638	DOWEL, .626"X.37" HOLLOW (4.1040) *FIG. 1 OF 1.2000.		7	7	7							
	1.7046	BOLT, CAMSHAFT BEARING CAP											
1	8929129	BOLT, M12 X 1.75 X 65		7	7	7							

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1							
				1	1	1							
		1.7000 CAMSHAFT AND GEAR TRAIN		8	9	9							
				7	0	1							
	1.7070	PLATE, CAM AND BALANCE SHAFT THRUST											
	23521892	PLATE, CAM THRUST 3 BOLT		1	1	1							
2	11504822	BOLT, M8 X 1.25 X 30		3	3	3							
	1.7075	SEAL, CAMSHAFT THRUST PLATE											
	23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT		1	1	1							
2	8929318	SEAL (GEAR HOUSING)		1	1	1							
	1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT											
	23521895	GEAR ASSY. CAMSHFT DRIVE 3-BLT TRSTPLT NITR		1	1	1							
2	8929379	GEAR 111T		1	1	1							
	1.7206	HUB, CAMSHAFT GEAR											
	23524883	HUB CAM DRV GEAR		1	1	1							
	23524882	BOLT, M20 X 1.50 X 100.0		1	1	1							
	8929810	KEY, NON ROCK (12.9350)		1	1	1							
	1.7220	GEAR ASSY., IDLER											
		A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.											
	R23513559	GEAR ASSY. CAMSHF/ACSRV BRG & HUB				1							
3	23513559	GEAR AND HUB ASSY., BULL ACCSY. & CAMSHF DDEC III		1	1								
3	8929448	BOLT, M12 X 1.75 X 35		4	4	4							
	1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER											
3	8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)		1	1	1							
	1.7255	HUB, ADJUSTABLE IDLER GEAR											
3	8929111	HUB		1	1	1							
3	11509607	NUT, M12 X 1.75		3	3	3							
3	8929336	PLATE, ADJUSTMENT		1		1							

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				6 4	6 6	6 9							
		1.7000A BALANCE WEIGHT COVER											
	1.7530	COVER, ACOUSTICAL											
	23515738	COVER-ACOUSTICAL	1										
	23515739	COVER ACOUSTICAL			1								
	23515740	COVER-ACOUSTICAL				1							
	11505560	BOLT, M6XF20X9.8	3	3	3								
	11506101	NUT, M10 X 1.5	3	5	5								
	11507036	NUT, M8 X 1.25	5	5	5								
	11509511	BOLT, M8 X 1.25 X 20 MM	1	1									
	11509514	BOLT, M8 X 1.25 X 50 MM		1	1								
	11509525	BOLT, M10 X 1.5 X 110 MM	1	1	1								
	11509526	BOLT, M10 X 1.5 X 130 MM	1	1									
	11509527	BOLT, M10 X 1.5 X 160 MM			1	2							
	23505051	BOLT M10 X 1.5 X 170	2	2	3								
	23515703	BOLT, M8X1.25X30	5	5	5								
	1.7540	COVER ASSY., ACCESSORY DRIVE ACOUSTICAL											
	23515621	COVER ASSY.,ACCESSORY DRIVE ACOUSTICAL	1	1	1								
	1.7550	COVER ASSY., GEAR CASE ACOUSTICAL											
	23515622	COVER ASSY.,GR CASE ACOUSTICAL (LEFT REAR)			1	1							
	23515741	COVER-ACOUSTICAL (RIGHT REAR)	1										
	23515742	COVER ACOUSTICAL (RIGHT REAR)			1								
	23515743	COVER-ACOUSTICAL (RIGHT REAR)				1							
	23515744	COVER ASSY.,GR CASE ACOUSTICAL (LEFT REAR)	1										
	11509512	BOLT, M8 X 1.25 X 25 MM	3	3	3								
	1.7560	CLIP, ACOUSTICAL											
	23515745	CLIP-ACOUSTICAL COVER	4	6	3								

DETROIT DIESEL

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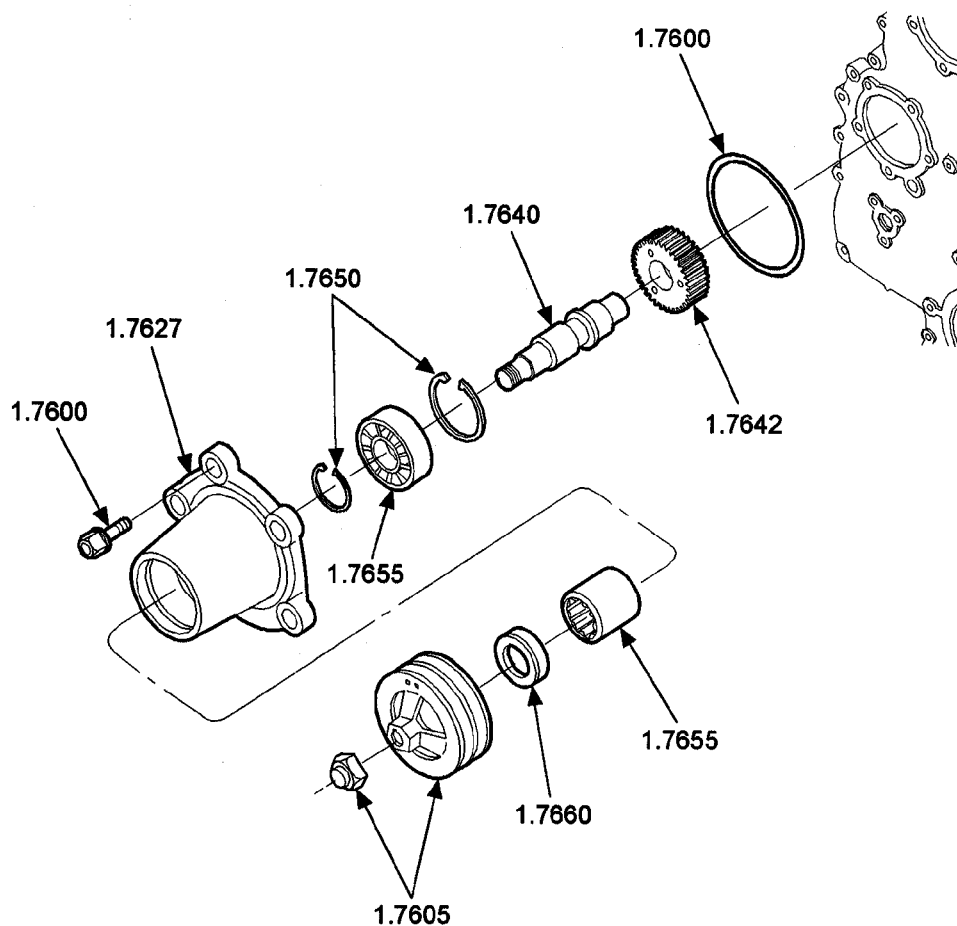


FIG. 1 ACCESSORY DRIVE ASSEMBLY

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FIG. 1 OF 1.7000B

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3	4	4	4	4	4	4	4	4	4	4	4
				9	0	3	3	4	4	4	5	5	5	6	6
		1.7000B ACCESSORY DRIVE		9	0	8	9	1	4	8	1	6	9	1	9
FOR OPTION # 508, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06X04 6044															
	1.7600	DRIVE ASSY., ACCESSORY													
	NOTE	FOR TYPE 1.7000B-439 USE TYPE IN 12.5000A-202.					X								
	NOTE	FOR TYPE 1.7000B-441 USE TYPE IN 12.5000A-203.						X							
	23509200	DRIVE ASSY., 2 GROOVE 120.0 MM PULLEY LRG BRG	A1			1					1				
	23511710	DRIVE ASSY., 12 GROOVE 120.0 MM PULLEY	A1					1							
	23511996	DRIVE ASM ACSRY 5GRV POLY-V 118.5D	A1										1		
	23514505	DRIVE ASSY.2GRV PUL WIDE OIL SEAL	A1									1			
	23514507	DRIVE ASSY.12 GROOVE POLY WIDE OIL SEAL	A1											1	
	23519028	DRIVE ASSY.,ACSRY 3 GRV HVY DTY LRG BRG	A1												1
1	8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)		1	1	1		1			1	1	1	1	1
	8929496 U	DRIVE ASSY., 2 GROOVE 120.0 MM PULLEY (23509200)	A1	1											
	8929624 @	DRIVE ASSY., 4 GROOVE 114.5MM PULLEY	A1			1									
	23512830	COVER (1.3191)								1					
	23512877	GASKET, COVER (1.3192)							1						
1	11504822	BOLT, M8 X 1.25 X 30		5	5	5		5	5	5	5	5	5	5	5
		U NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES													
		@ NOT SERVICED, USE 23509200 DRIVE ASSY. AND REPLACE 8929532 PULLEY (2 GRV.) WITH 8929623 PULLEY (4 GRV.)													
	1.7650	LOCKRING, ACCESSORY DRIVE													
	23505643	LOCKRING (USE FOR P/S PUMP ADAPTATION)		1	1										
	23505339	SPROCKET, POWER STEERING PUMP		1	1										

				TYPES										
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1.7000B ACCESSORY DRIVE										
				4 7 0	4 7 1	4 7 7	4 7 9	4 7 8 8						
	1.7600	DRIVE ASSY., ACCESSORY												
	23518333	DRIVE ASSY., 12 GROOVE LRG BRG	A1	1										
	23519373	DRIVE ASSY.,ACSRV 6 GRV HVY DTY LRG BRG	A1		NS									
	23520933	DRIVE ASSY.,ACSRV 6 GRV HVY DTY LRG BRG	A1		1									
	23520035	DRIVE ASSY.,ACCESSORY 12G POLY-V 1G .50 DUAL A	A1			1								
	23520391	DRIVE ASSY.,ACSRV 8GRV POLY-V TRI-DRIVE	A1				1							
	23520933	DRIVE ASSY.,ACSRV 6 GRV HVY DTY LRG BRG	A1		1									
1	8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)		1	1	1	1							
1	11504822	BOLT, M8 X 1.25 X 30		5	5	5	5							
	1.7612	PULLEY, ACCESSORY DRIVEN												
	23521659	PULLEY ASSY., IDLER FREON CMPR 2 GRV						1						
	23519985	STUD M14 X 2.0 X 92.0						1						
	11504822	BOLT, M8 X 1.25 X 30						1						
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.						1						
	23519986	NUT M14 X 2.0-6H						1						
	1.7624	SUPPORT, SNUBBER FREON COMPRESSOR												
	23522972	SNUBBER ASSY.						1						
	23522974	ADAPTOR SNUBBER ASSY.						1						
	11505068	BOLT, M10 1.50 X 60.0 LG						3						
	11509512	BOLT, M8 X 1.25 X 25 MM						3						

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
		1.7000B ACCESSORY DRIVE													
		DRIVE ASSY., ACCESSORY													
	8929496	DRIVE ASSY., 2 GROOVE 120.0 MM PULLEY	1												
	8929624	DRIVE ASSY., 4 GROOVE 114.5MM PULLEY		1											
	23509200	DRIVE ASSY., 2 GROOVE 120.0 MM PULLEY LRG BRG			1										
	23511710	DRIVE ASSY., 12 GROOVE 120.0 MM PULLEY				1									
	23514505	DRIVE ASSY.2GRV PUL WIDE OIL SEAL					1								
	23511996	DRIVE ASM ACSRY 5GRV POLY-V 118.5D						1							
	23514507	DRIVE ASSY.12 GROOVE POLY WIDE OIL SEAL							1						
	23519028	DRIVE ASSY.,ACSRY 3 GRV HVY DTY LRG BRG								1					
	23518333	DRIVE ASSY., 12 GROOVE LRG BRG									1				
	23519373	DRIVE ASSY.,ACSRY 6 GRV HVY DTY LRG BRG										1			
	23520933	DRIVE ASSY.,ACSRY 6 GRV HVY DTY LRG BRG											1		
	23520035	DRIVE ASSY.,ACCESSORY 12G POLY-V 1G .50 DUAL A												1	
	23520391	DRIVE ASSY.,ACSRY 8GRV POLY-V TRI-DRIVE													1
		PULLEY, ACCESSORY DRIVE													
1	11509584	NUT, LOCK M24 X 3.0	1	1	1	1	1	1	1		1	1	1	1	1
1	23511702	PULLEY, 12 GROOVE POLY-V 120 OD				1					1				
	23511995	PULLEY ACSRY DR 5GRV POLY-V 118.5D						1							
	23514513	PULLEY ACC DR 2GRV 120 OD WIDE SEAL					1								
	23514515	PULLEY 12 GROOVE POLY-V WIDE SEAL							1						
	23517967	NUT LOCK								1					
	23518332	PULLEY, 12 GROOVE POLY-V 122 OD									1				
	23519027	PULLEY ACSRY DRIV 3 GRV 120.OD HVY DTY								1					
	23519372	PULLEY 6 GROOVE POLY-V 118.5D										1			
	23520040	PULLEY ACCESSORY DRIVE 12G POLY-V & 1G .50 D												1	
	23520369	PULLEY, ACSRY DR 8GRV POLY-V													1
	23520932	PULLEY 6 GROOVE POLY-V 118.5D											1		
1	8929532	PULLEY, 2 GROOVE 120.0MM	1		1										
1	8929623	PULLEY, 4 GROOVE (POLYVEE) 114.5MM		1											

			ASSEMBLIES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M
1.7000B ACCESSORY DRIVE															
(Note: Assemblies are shown for component reference only.)															
	1.7627	HOUSING, ACCESSORY DRIVE													
	23509201	HOUSING			1			1							1
1	23511701	HOUSING				1				1	1	1	1		
	23514508	HOUSING ACC DR LRG BRG WIDE SEAL					1								
	23514509	HOUSING,WIDE SEAL							1						
	23520036	HOUSING ACCESSORY DRIVE FOR DUAL ALTERNATOR SYSTEM												1	
1	8929531	U HOUSING (23509200) U NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES	1	1											
	1.7640	SHAFT, ACCESSORY DRIVE													
1	23505101	U SHAFT (23509200)	1	1											
1	23509202	SHAFT, LRG BRG			1	1		1		1	1	1	1		1
	23514510	SHAFT ACC DR LRG BRG WIDE OIL SEAL					1		1						
	23520037	SHAFT ALTERNATOR & ACCESSORY DRIVE DUAL SYSTEM U NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES												1	
	1.7642	GEAR, ACCESSORY DRIVE SHAFT													
1	8929310	GEAR	1	1	1	1	1	1	1	1	1	1	1	1	1
	1.7650	LOCKRING, ACCESSORY DRIVE													
1	23509204	LOCKRING			1	1	1	1	1	1	1	1	1	1	1
	23511746	LOCKRING				1			1	1	1	1	1		
	23520038	RING INNER RACE BRG ACCESSORY DRIVE												1	
	274621	RING, LOCK (7.1545)												1	
1	8929062	LOCKRING	1	1	1	1	1	1	1	1	1	1	1	1	1
1	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1	1											
	1.7655	BEARING, ACCESSORY DRIVE													
1	23509203	BEARING, BALL SGL			1	1	1	1	1	1	1	1	1	1	1
1	23511745	BEARING, ROLLER				1			1	1	1	1	1		
1	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1	1											
	23520039	BEARING NDL RLR HVY DTY ACSRY DRIVE DUAL												1	
1	8929024	BEARING ASSY.	1	1	1		1	1							1

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES												
			A	B	C	D	E	F	G	H	I	J	K	L	M
		1.7000B ACCESSORY DRIVE													
		(Note: Assemblies are shown for component reference only.)													
	1.7660	SEAL, ACCESSORY DRIVE OIL													
1	23511747	SEAL				1			1	1	1	1	1		
	23514511	SEAL OIL ACC DR WIDE LRG BRG					1								
	23520041	SEAL OIL ACCESSORY DRIVE SPR LOADED SYN DUAL												1	
1	8929154	SEAL	1	1	1			1							1

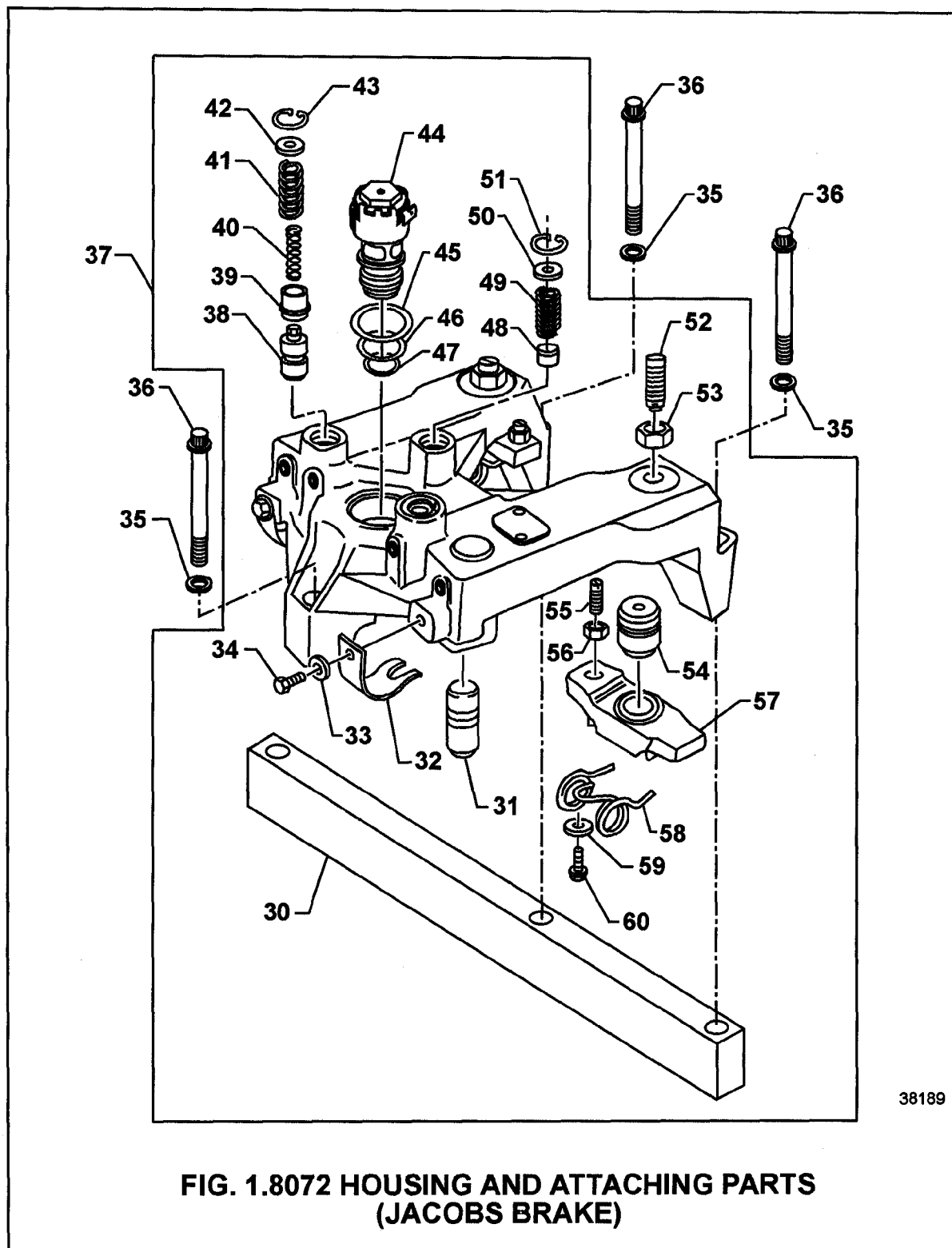
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	3	3	3	3	3	3	4	4	4	4	4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM		9	2	2	6	6	7	8	0	0	1	1	5
				8	3	4	2	3	5	9	3	4	4	6	0
		FOR OPTION # 753, REFER TO CUSTOM PARTS CATALOG													
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929550	ARM ASSY., EXHAUST		6	6	6	6	6	6	6	6	6	6	6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171 #	KIT, JAKE BRAKE 12V (18113)						1	1					1	
	23507824 *	KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)								1					1
	8929746 *	KIT, JACOBS BRAKE (MODEL 760 PART NO. 014601)			1										
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30) *PROCURE THRU JACOBS BRAKE. # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.			2			2	2	2		2	2	2	
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSGINCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE									1				1
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSGINCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE						1	1					1	
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG						AR	AR	AR				AR	AR
	17537	HOUSING ASSY.,MODEL 765 12VDC (FIG. 37)	A1							3					3
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1					3	3					3	
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1					1	1	1				1	1
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

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				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	3	3	3	3	3	3	4	4	4	4	4
				9	2	2	6	6	7	8	0	0	1	1	5
				8	3	4	2	3	5	9	3	4	4	6	0
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	5	6	6	7	7	7	8	8	8
				1	2	4	5	6	8	4	5	8	1	2	9
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929550	ARM ASSY., EXHAUST		6	6	6	6	6	6	6	6	6	6	6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171	# KIT, JAKE BRAKE 12V (18113)			1									1	
	23507824	* KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)					1		1						
	23513481	* KIT, JAKE BRAKE 24V 12L						1							
	23514080	* KIT, JAKE BRAKE 12V 12L								1		1			
	23515440	# KIT JAKE BRAKE 24V 12L (19032)													1
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)				2	2		2				2	2	2
	23511681	BAR SPCR (JAKE BRAKE) *PROCURE THRU JACOBS BRAKE. # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.						1		1		1			
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSG INCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE					1		1						
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSG INCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE			1									1	
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE													1
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG			AR		AR		AR					AR	
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1				3		3						
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1		3									3	
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1												3
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMON HARDWARE	A1		1		1		1					1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	5	6	6	7	7	7	8	8	8
				1	2	4	5	6	8	4	5	8	1	2	9
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23511675	REMANUFACTURED 23511675		AR	AR	AR	AR		AR		AR		AR	AR	
1	23511675	ARM ASSY., INJECTOR		6	6	6	6		6		6		6	6	
1	8929854	ARM ASSY., INJECTOR						6		6		6			6
	R8929854	REMANUFACTURED 8929854						AR		AR		AR			AR
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR		AR		AR		AR	AR	
		* NOT SERVICED, FOR SERVICE USE 23513939 ROCKER ARM ASSY. AND 23513530 SHAFT ASSY.													
		⊙ ALSO USE ROCKER ARM SHAFT 23513530.													
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	18	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	5176830	NUT, 3/8"-24 JAM (1.8180)		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2		2		2		2	2	
1	8929617	SHAFT ASSY. (INCLUDES PLUG)						2		2		2			2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.						2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	5	6	6	7	7	7	8	8	8
				1	2	4	5	6	8	4	5	8	1	2	9
1.8000 VALVE AND INJECTOR OPERATING MECHANISM															
1	1.8173 8929586	SPACER, ROCKER SHAFT SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
1	1.8310 23507504	VALVE, EXHAUST VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
1	1.8315 23501576	VALVE, INTAKE VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
1	1.8320 23518571	GUIDE, EXHAUST VALVE GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	1.8330 8929127	INSERT, EXHAUST VALVE INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	1.8340 8929415	SPRING, EXHAUST VALVE SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
1	1.8360 8929076	SEAT, EXHAUST VALVE SPRING SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	5	6	6	7	7	7	8	8	8
				1	2	4	5	6	8	4	5	8	1	2	9
1	1.8365	1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	8929105	ROTATOR, VALVE ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
1	1.8370	LOCK, EXHAUST VALVE SPRING													
	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4	4	4	4	4	5	5	5	5	5	5	5
				9	9	9	9	9	0	0	2	2	2	2	2
				1	5	6	7	9	1	3	1	3	5	7	8
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)										1		1	
	23513605	HARNESS EDU TO INJ													1
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)										1		1	
	23513556	HARNESS ENG EDU TO INJ DDEC III											1		
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929550	ARM ASSY., EXHAUST		6	6	6	6	6	6	6	6	6	6	6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171	# KIT, JAKE BRAKE 12V (18113)												1	
	23507824	* KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)						1				1			
	23513481	* KIT, JAKE BRAKE 24V 12L					1								
	23515440	# KIT JAKE BRAKE 24V 12L (19032)			1										
	23516137	* KIT, JAKE BRAKE 12V 11L						1							
	23517616	* KIT, JAKE BRAKE 24V 11L									1				
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)			2			2		2		2		2	
	23511681	BAR SPCR (JAKE BRAKE)		2		2			2		1				
		*PROCURE THRU JACOBS BRAKE.													
		# NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSG INCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE						1				1			
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSG INCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE												1	
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE			1										
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG						AR				AR		AR	
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1					3				3			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4 9 1	4 9 5	4 9 6	4 9 7	4 9 9	5 0 1	5 0 3	5 2 1	5 2 3	5 2 5	5 2 7	5 2 8
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1											3	
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1		3										
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1		1			1				1		1	
	1.8073	KIT, JACOBS BRAKE FIELD													
	23513481 *	KIT, JAKE BRAKE 24V 12L				AR	1								
	23514080 *	KIT, JAKE BRAKE 12V 12L		AR											
	23516137 *	KIT, JAKE BRAKE 12V 11L *PROCURE THRU JACOBS BRAKE. *PROCURE THRU JACOBS BRAKE						1							
	1.8075	ARM ASSY., INTAKE VALVE ROCKER ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23511675	REMANUFACTURED 23511675		AR	AR	AR	AR	AR	AR	AR					
1	23511675 *	ARM ASSY., INJECTOR		6	6	6	6	6	6	6					
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING									6	6	6	6	6
	R23513939 @	REMANUFACTURED 23513939 * NOT SERVICED, FOR SERVICE USE 23513939 ROCKER ARM ASSY. AND 23513530 SHAFT ASSY. @ALSO USE ROCKER ARM SHAFT 23513530.		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	18	18	18	18	18

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4 9 1	4 9 5	4 9 6	4 9 7	4 9 9	5 0 1	5 0 3	5 2 1	5 2 3	5 2 5	5 2 7	5 2 8
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8135	SCREW, ROCKER ARM ADJUSTING (CONT.)													
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM									30	30	30	30	30
1	5176830	NUT, 3/8"-24 JAM (1.8180)		30	30	30	30	30	30	30					
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	12	15	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

				TYPES											
1.8000 VALVE AND INJECTOR OPERATING MECHANISM				4	4	4	4	4	5	5	5	5	5	5	5
				9	9	9	9	9	0	0	2	2	2	2	2
				1	5	6	7	9	1	3	1	3	5	7	8
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48
	1.8810	TERMINAL RING TYPE													
	12034222	TERMINAL RING SLOTTED (RED)													

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 2 9	5 3 0	5 3 1	5 3 2	5 3 3	5 3 6	5 3 8	5 3 9	5 4 0	5 4 1	5 4 2	5 4 4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)			1						1				
	23513605	HARNESS EDU TO INJ		1				1	1				1		
	23513661	HARNESS EDU TO INJ DDEC III JAKE				1									
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS (THRU UNITS BUILT 12/3/97)					1					1		1	1
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1						1				
	23513556	HARNESS ENG EDU TO INJ DDEC III								1					
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929550	ARM ASSY., EXHAUST		6	6	6	4	6	6	6	6	6	6	6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171 #	KIT, JAKE BRAKE 12V (18113)										1			
	23507824 *	KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)									1				1
	23515440 #	KIT JAKE BRAKE 24V 12L (19032)					1							1	
	23516137 *	KIT, JAKE BRAKE 12V 11L				1									
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)					2				2	2		2	2
	23511681	BAR SPCR (JAKE BRAKE)				1									
		*PROCURE THRU JACOBS BRAKE.													
		# NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSG INCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE									1				1
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSG INCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE										1			
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE					1							1	
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG									AR	AR			AR
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1								3				3

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 2 9	5 3 0	5 3 1	5 3 2	5 3 3	5 3 6	5 3 8	5 3 9	5 4 0	5 4 1	5 4 2	5 4 4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1									3			
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1				3							3	
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1				1				1	1		1	1
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	3	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6	12	6	6	6	6	6	6	6	6
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	18	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	4	2	2	2	2	2	2	2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 2 9	5 3 0	5 3 1	5 3 2	5 3 3	5 3 6	5 3 8	5 3 9	5 4 0	5 4 1	5 4 2	5 4 4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8160	SHAFT ASSY., ROCKER (CONT.)													
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	15	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 2 9	5 3 0	5 3 1	5 3 2	5 3 3	5 3 6	5 3 8	5 3 9	5 4 0	5 4 1	5 4 2	5 4 4
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48
	1.8810	TERMINAL RING TYPE													
	12034222	TERMINAL RING SLOTTED (RED)								1					

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 4 5	5 4 6	5 4 7	5 4 8	5 5 0	5 5 1	5 5 2	5 5 4	5 5 5	5 5 6	5 5 9	5 6 1
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)							1	1	1	1			
	23513661	HARNESS EDU TO INJ DDEC III JAKE					1	1						1	1
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS (THRU UNITS BUILT 12/3/97)		1		1									
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)							1	1	1	1			
	23513556	HARNESS ENG EDU TO INJ DDEC III											1		
	23515333	HARNESS EDU TO INJ DDEC3 EXT LG INDST			1										
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929550	ARM ASSY., EXHAUST		6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR	6 AR
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE													
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171 #	KIT, JAKE BRAKE 12V (18113)										1			
	23507824 *	KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)		1							1				
	23514080 *	KIT, JAKE BRAKE 12V 12L					1								
	23516137 *	KIT, JAKE BRAKE 12V 11L												1	
	23517615 #	KIT, JAKE BRAKE 24V 11L (18974)							1						
	23517616 *	KIT, JAKE BRAKE 24V 11L						1							1
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)		2					2		2	2			
	23511681	BAR SPCR (JAKE BRAKE) *PROCURE THRU JACOBS BRAKE. * NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.					1	1						1	1
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSGINCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE		1							1				
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSGINCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE										1			
	18974	KIT, BRAKE BASE MODEL 760A 24V 3 HSGINCLUDES 3-18972 ASSYS. & 1-21268 KIT IN TYPE							1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5	5	5	5	5	5	5	5	5	5	5	5
				4	4	4	4	5	5	5	5	5	5	5	6
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM		5	6	7	8	0	1	2	4	5	6	9	1
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG		AR							AR	AR			
	17537	HOUSING ASSY.,MODEL 765 12VDC (FIG. 37)	A1	3							3				
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1									3			
	18972	HOUSING ASSY., MODEL 760A 24VDC (FIG. 37)	A1					3							
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1	1				1			1	1			
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6	6	6	6	6	6	6	6	6	6
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	18	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 4 5	5 4 6	5 4 7	5 4 8	5 5 0	5 5 1	5 5 2	5 5 4	5 5 5	5 5 6	5 5 9	5 6 1
	1.8160	SHAFT ASSY., ROCKER (CONT.)													
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	AR	12	12	12	12	12	AR	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5	5	5	5	5	5	5	5	5	5	5	5
				4	4	4	4	5	5	5	5	5	5	5	6
				5	6	7	8	0	1	2	4	5	6	9	1
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5 6 2	5 6 3	5 6 6	5 6 9	5 7 0	5 7 2	5 7 4	5 7 5	5 7 6	5 8 7	5 9 3	5 9 4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)			1			1	1				1		
	23513605	HARNESS EDU TO INJ								1					
	23513661	HARNESS EDU TO INJ DDEC III JAKE	1												
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS (THRU UNITS BUILT 12/3/97)				1									
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1			1	1				1		
	23513556	HARNESS ENG EDU TO INJ DDEC III										1			
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23509809	ARM & SHF ASM RKR CERAMIC RLRS RR S80										6	6		
1	8929550	ARM ASSY., EXHAUST	6	6	6	6	6	6	6	6	6			6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	AR	AR	AR	AR	AR	AR	AR	AR	AR			AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)	12	12	12	12	12	12	12	12	12				12
	23509808	ARM & SHF ASM RKR CERAMIC RLRS FRTS60										6	6		
	1.8070	JACOBS BRAKE CYLINDER													
	23506171 #	KIT, JAKE BRAKE 12V (18113)					1	1					1		1
	23507824 *	KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)												1	
	23513481 *	KIT, JAKE BRAKE 24V 12L	1												
	23515440 #	KIT JAKE BRAKE 24V 12L (19032)							1						
	23517615 #	KIT, JAKE BRAKE 24V 11L (18974)				1									
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)				2	2	2	2				2	2	2
	23511681	BAR SPCR (JAKE BRAKE) *PROCURE THRU JACOBS BRAKE. # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.	1												
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSGINCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE												1	
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSGINCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE					1	1					1		1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5 6 2	5 6 3	5 6 6	5 6 9	5 7 0	5 7 2	5 7 4	5 7 5	5 7 6	5 8 7	5 9 3	5 9 4
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	18974	KIT, BRAKE BASE MODEL 760A 24V 3 HSG INCLUDES 3-18972 ASSYS. & 1-21268 KIT IN TYPE				1									
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE							1						
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG					AR	AR					AR	AR	AR
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1											3	
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1				3	3					3		3
	18972	HOUSING ASSY., MODEL 760A 24VDC (FIG. 37)	A1			3									
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1						3						
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1			1	1	1	1				1	1	1
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6	6	6	6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	23511675	ARM ASSY., INJECTOR												6	6
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6	6	6	6	6	6	6	6		
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		* NOT SERVICED, FOR SERVICE USE 23513939 ROCKER ARM ASSY. AND 23513530 SHAFT ASSY.													
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV. ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	24	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	12	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 6 2	5 6 3	5 6 6	5 6 9	5 7 0	5 7 2	5 7 4	5 7 5	5 7 6	5 8 7	5 9 3	5 9 4
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8135	SCREW, ROCKER ARM ADJUSTING (CONT.)													
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	24				
1	5176830	NUT, 3/8"-24 JAM (1.8180)										30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	24	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
	23520148	KIT EXHAUST VALVE S50/60 NATURAL GAS									12				
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12		12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12		12	12	12	12
	23520149	KIT INTAKE VALVE S50/60 NATURAL GAS									12				
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24		24	24	24	24
	23516483	SEAL, VALVE STEM GUIDE S50G									24				
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

				TYPES											
1.8000 VALVE AND INJECTOR OPERATING MECHANISM				5 6 2	5 6 3	5 6 6	5 6 9	5 7 0	5 7 2	5 7 4	5 7 5	5 7 6	5 8 7	5 9 3	5 9 4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	1.8330	INSERT, EXHAUST VALVE													
	23519090	INSERT EXHAUST VALVE									12				
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12				12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
	23517058	INSERT (INTAKE) S50G									12				
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12				12	AR
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR				AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5 9 5	5 9 8	6 0 0	6 0 1	6 0 2	6 0 4	6 0 9	6 1 1	6 1 2	6 1 3	6 1 4	6 2 2
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)			1	1	1	1		1					1
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS (THRU UNITS BUILT 12/3/97)												1	
	23521552	HARNESS ASSY.,EDU TO INJ DDEC III									1				
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1	1	1	1		1					1
	23513556	HARNESS ENG EDU TO INJ DDEC III							1	1			1		
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23509809	ARM & SHF ASM RKR CERAMIC RLRS RR S60			6				6						
	23520645	ARM & RLR ASSY. EXH RKR W/O OIL HOLE													6
1	8929550	ARM ASSY., EXHAUST	6	6	6	6			6	6	6	6	6	6	
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	AR		AR	AR	AR		AR	AR	AR	AR	AR	AR	
	9421740	PLUG, CUP 3/16" (12.9320)	12	12	12	12	12		12	12	12	12	12	12	12
	23509808	ARM & SHF ASM RKR CERAMIC RLRS FRTS60			6				6						
	1.8070	JACOBS BRAKE CYLINDER													
	23507824	* KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)				1				1					
	23517615	# KIT, JAKE BRAKE 24V 11L (18974)		1										1	
	23522209	# KIT JAKE BRK ENHANCED 12V 3 HSG 12L (25326)													1
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30) # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.		2	2				2	2			2	2	2
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSGINCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE				1				1					
	18974	KIT, BRAKE BASE MODEL 760A 24V 3 HSGINCLUDES 3-18972 ASSYS. & 1-21268 KIT IN TYPE		1										1	
	25326	KIT, BRAKE BASE MODEL 765A 12V 3 HSGINCLUDES 3-25231 ASSYS. & 1-21268 KIT IN TYPE													1
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG				AR				AR					AR

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	5	6	6	6	6	6	6	6	6	6	6
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM		9	9	0	0	0	0	0	1	1	1	1	2
				5	8	0	1	2	4	9	1	2	3	4	2
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	17537	HOUSING ASSY.,MODEL 765 12VDC (FIG. 37)	A1			3				3					
	18972	HOUSING ASSY., MODEL 760A 24VDC (FIG. 37)	A1		3								3		
	25231	HOUSING ASSY., MODEL 765A 12VDC (FIG. 37)	A1												3
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1		1	1				1			1	1	
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE						6							6
1	8929544	ARM ASSY., INTAKE		6	6	6	6	6		6	6	6	6	6	
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR	AR	AR		AR	AR	AR	AR	AR	
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	23511675	ARM ASSY., INJECTOR		6	6										
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING				6	6	6	6	6	6	6	6	6	6
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		* NOT SERVICED, FOR SERVICE USE 23513939 ROCKER ARM ASSY. AND 23513530 SHAFT ASSY.													
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	18	18	18	18	18	18	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM				30	30	30	30	30	30	30	30	30	30
1	5176830	NUT, 3/8"-24 JAM (1.8180)		30	30										
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1.8000 VALVE AND INJECTOR OPERATING MECHANISM											
				5	5	6	6	6	6	6	6	6	6	6	6
				9	9	0	0	0	0	1	1	1	1	2	
				5	8	0	1	2	4	9	1	2	3	4	2
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521734	STUD/SEAL ASSY.										1			2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12		12	12	12	12	12	12	12	12	12	12
	8929589	VALVE INTAKE CODEBLANK S60 4VLV			12										
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
	23518572	GUIDE VALVE										AR			AR
	23516483	SEAL, VALVE STEM GUIDE S50G		24											
1	23523930	SEAL EXH VALVE STEM (4 VLV)			24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)		AR	AR	AR	AR	AR	AR	AR		AR	AR		

				TYPES												
1.8000 VALVE AND INJECTOR OPERATING MECHANISM				5	5	6	6	6	6	6	6	6	6	6	6	6
				9	9	0	0	0	0	0	1	1	1	1	1	1
				5	8	0	1	2	4	9	1	2	3	4	2	2
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
	1.8330	INSERT, EXHAUST VALVE														
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929628	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE														
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING														
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE														
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING														
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48	48

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 2 3	6 2 4	6 2 5	6 2 6	6 2 7	6 2 9	6 3 0	6 3 4	6 3 6	6 3 7	6 3 8	6 4 0
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)			1	1		1		1	1	1			
	23513605	HARNESS EDU TO INJ													1
	23522176	HARNESS EDU TO INJ SCREW TERM JAKE DDEC3	1												
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1	1		1		1	1	1			
	23513556	HARNESS ENG EDU TO INJ DDEC III					1	1		1				1	
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520645	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	6												
	23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE			6						6				
1	8929550	ARM ASSY., EXHAUST				6	6	6	6	6		6	6	6	6
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE				AR	AR	AR	AR	AR		AR	AR	AR	AR
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23506171	# KIT, JAKE BRAKE 12V (18113)									1				
	23507824	* KIT, JAKE BRAKE 24V 12L RT SIDE ENGINE (18112)				1		1							
	23522171	# KIT JAKE BRK SCREW TERM 12V (18112)	1												
	23522172	# KIT JAKE BRK SCREW TERM 24V (19032)			1										
	23522210	# KIT JAKE BRK ENHANCED 24V (25333)									1				
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30) # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.		2	2	2	2	2	2		2	2		2	
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSG INCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE		1		1		1							
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSG INCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE									1				
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE			1										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 2 3	6 2 4	6 2 5	6 2 6	6 2 7	6 2 9	6 3 0	6 3 4	6 3 6	6 3 7	6 3 8	6 4 0
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)													
	25333	KIT, BRAKE BASE MODEL 765A 24V 3 HSG INCLUDES 3-25279 ASSYS. & 1-21268 KIT IN TYPE									1				
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG		AR	AR	AR			AR			AR			
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1	3		3			3						
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1									3			
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1		3										
	25279	HOUSING ASSY., MODEL 765A 24VDC (FIG. 37)	A1								3				
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1	1	1	1			1		1	1			
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE		6	6						6				
1	8929544	ARM ASSY., INTAKE				6	6	6	6	6		6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE				AR	AR	AR	AR	AR		AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6	6	6	6	6	6	6	6	6	6
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
	23520013	SCREW ASSY., INT VLV ADJ W/O OIL HOLES		6											
	23520014	SCREW ASSY., EXH VLV ADJ W/O OIL HOLES		6											
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		6	18	18	18	18	18	18	18	18	18	18	18

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	6	6	6	6	6	6	6	6	6	6	6
				2	2	2	2	2	2	3	3	3	3	3	4
				3	4	5	6	7	9	0	4	6	7	8	0
	1.8135	SCREW, ROCKER ARM ADJUSTING (CONT.)													
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521734	STUD/SEAL ASSY.		2	2						2				
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24	24	24	24	24	24	24	24	24
	23518572	GUIDE VALVE		AR	AR						AR				
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)				AR	AR	AR	AR	AR		AR	AR	AR	AR
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	6	6	6	6	6	6	6	6	6	6	6
				2	2	2	2	2	2	3	3	3	3	3	4
				3	4	5	6	7	9	0	4	6	7	8	0
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8330	INSERT, EXHAUST VALVE (CONT.)													
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 4 1	6 4 2	6 4 3	6 4 4	6 4 6	6 4 7	6 4 9	6 5 0	6 5 2	6 5 3	6 5 4	6 5 5
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)			1						1		1	1	1
	23513605	HARNESS EDU TO INJ							1			1			
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS (THRU UNITS BUILT 12/3/97)					1								
	23522176	HARNESS EDU TO INJ SCREW TERM JAKE DDEC3						1							
	23522177	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)					1								
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1					1	1		1	1	1
	23513556	HARNESS ENG EDU TO INJ DDEC III				1									
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23509809	ARM & SHF ASM RKR CERAMIC RLRS RR S60												6	
	23520645	ARM & RLR ASSY. EXH RKR W/O OIL HOLE						6		6					6
	23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE					6								
1	8929550	ARM ASSY., EXHAUST		6	6	6			6		6	6	6		
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE		AR	AR	AR			AR		AR	AR	AR		
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	23509808	ARM & SHF ASM RKR CERAMIC RLRS FRTS60												6	
	1.8070	JACOBS BRAKE CYLINDER													
	23506171 #	KIT, JAKE BRAKE 12V (18113)											1		
	23517615 #	KIT, JAKE BRAKE 24V 11L (18974)												1	
	23522167	KIT JAKE BRK SCREW TERM 12V (18113)						1							
	23522168 #	KIT JAKE BRK SCREW TERM 24V (18974)								1					
	23522172 #	KIT JAKE BRK SCREW TERM 24V (19032)					1								
	23522209 #	KIT JAKE BRK ENHANCED 12V 3 HSG 12L (25326)													1
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30) # NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.				2	2	2		2			2	2	2

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 4 1	6 4 2	6 4 3	6 4 4	6 4 6	6 4 7	6 4 9	6 5 0	6 5 2	6 5 3	6 5 4	6 5 5
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18113	KIT, BRAKE BASE MODEL 760A 12V 3 HSGINCLUDES 3-17751 ASSYS. & 1-21268 KIT IN TYPE						1					1		
	18974	KIT, BRAKE BASE MODEL 760A 24V 3 HSGINCLUDES 3-18972 ASSYS. & 1-21268 KIT IN TYPE												1	
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSGINCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE					1								
	25326	KIT, BRAKE BASE MODEL 765A 12V 3 HSGINCLUDES 3-25231 ASSYS. & 1-21268 KIT IN TYPE													1
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG					AR	AR		AR			AR		AR
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	A1					3					3		
	18972	HOUSING ASSY., MODEL 760A 24VDC (FIG. 37)	A1							3				3	
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1				3								
	25231	HOUSING ASSY., MODEL 765A 12VDC (FIG. 37)	A1												3
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1				1	1		1			1	1	1
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE					6	6		6					6
1	8929544	ARM ASSY., INTAKE		6	6	6			6		6	6	6	6	6
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE		AR	AR	AR			AR		AR	AR	AR	AR	AR
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
1	23511675	* ARM ASSY., INJECTOR		6										6	
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING			6	6	6	6	6	6	6	6	6		6
	R23513939	REMANUFACTURED 23513939 * NOT SERVICED, FOR SERVICE USE 23513939 ROCKER ARM ASSY. AND 23513530 SHAFT ASSY.		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

				TYPES											
1.8000 VALVE AND INJECTOR OPERATING MECHANISM				6 4 1	6 4 2	6 4 3	6 4 4	6 4 6	6 4 7	6 4 9	6 5 0	6 5 2	6 5 3	6 5 4	6 5 5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60	30	30	30	30	30	30	30	30	30	30	30	30	30
	23520013	SCREW ASSY., INT VLV ADJ W/O OIL HOLES						6							
	23520014	SCREW ASSY., EXH VLV ADJ W/O OIL HOLES						6							
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END	18	18	18	6	6	18	18	18	18	18	18	18	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END	12	12	12	12	12	12	12	12	12	12	12	12	12
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30		30
1	5176830	NUT, 3/8"-24 JAM (1.8180)	30											30	
1	8929494	RETAINER (1.8090)	30	30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)	2	2	2	2	2	2	2	2	2	2	2	2	2
	23521734	STUD/SEAL ASSY.				2	2		2						2
	23521111	SEAL	2	2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)	2	2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.	2	2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)	2	2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)	6	6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75	2	2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)	8	8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12	12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12	12	12	12	12	12	12	12	12	12	12		12
	8929589	VALVE INTAKE CODEBLANK S60 4VLV												12	

				TYPES											
				6	6	6	6	6	6	6	6	6	6	6	6
				4	4	4	4	4	4	4	5	5	5	5	5
				1	2	3	4	6	7	9	0	2	3	4	5
1.8000 VALVE AND INJECTOR OPERATING MECHANISM															
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE	24	24	24	24	24	24	24	24	24	24	24	24	24
	23518572	GUIDE VALVE					AR	AR		AR					AR
	23516483	SEAL, VALVE STEM GUIDE S50G	24												
1	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)	AR	AR	AR			AR		AR	AR	AR	AR	AR	
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12	12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12	12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)	24	24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)	24	24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR	24	24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING	48	48	48	48	48	48	48	48	48	48	48	48	48

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	6	6	6	6	6	6	6	6	6	6	6
				5	5	5	6	6	6	7	8	8	9	9	6
				7	8	9	4	7	8	9	0	0	1	5	6
	1.8050	1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
		HARNESS ASSY., INJECTOR													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID (THRU UNITS BUILT 12/3/97)				1	1								
	23522176	HARNESS EDU TO INJ SCREW TERM JAKE DDEC3						1		1					1
	23522177	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)							1						
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)				1	1	1			1			1	
	23522179	HARNESS, INJ DDEC III SCREW TERM	1												
	5101020	STRAP, NYLON (2.5255)	7												
	23513556	HARNESS ENG EDU TO INJ DDEC III			1								1		
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520645	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	6				6				6				
	23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE				6		6	6	6		6		6	6
1	8929550	ARM ASSY., EXHAUST			6								6		
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE			AR								AR		
	9421740	PLUG, CUP 3/16" (12.9320)		12	12		12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23522171	# KIT JAKE BRK SCREW TERM 12V (18112)								1					
	23522205	# KIT, JAKE BRAKE ENHANCED 12V 3 HSG 11L (25419)				1			1						
	23522206	KIT JAKE BRK ENHANCED 24V 3 HSG 11L (25412)						1							
	23522209	# KIT JAKE BRK ENHANCED 12V 3 HSG 12L (25326)					1				1				
	23522211	KIT, JAKE BRK ENHANCED 12V (25321)	1												
	23523596	* KIT, JAKE BRAKE 12V 3 HSG (26546)										1			1
	23524120	# KIT, JAKE BRAKE 24V 3 HSG (26547)												1	
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)			2	2	2	2	2	2	2	2		2	2
	23511681	BAR SPCR (JAKE BRAKE)	1												
		# NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.													

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				657	658	659	664	667	668	669	670	680	681	695	696
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	18112	KIT, BRAKE BASE MODEL 765 12V 3 HSG INCLUDES 3-17537 ASSYS. & 1-21268 KIT IN TYPE								1					
	25321	KIT, BRAKE BASE MODEL 765A 12V 2 HSG INCLUDES 2-25283 ASSYS. & 1-21268 KIT IN TYPE		1											
	25326	KIT, BRAKE BASE MODEL 765A 12V 3 HSG INCLUDES 3-25231 ASSYS. & 1-21268 KIT IN TYPE					1			1					
	25419	KIT, BRAKE BASE MODEL 760B 12V 3 HSG INCLUDES 3-25384 ASSYS. & 1-21268 KIT IN TYPE				1			1						
	26546	KIT, BRAKE BASE MODEL 770 12V 3 HSG INCLUDES 3-25911 ASSYS. & 1-21268 KIT IN TYPE									1				1
	26547	KIT, BRAKE BASE 770 24V 3 HSG INCLUDES 3-26550 ASSYS. & 1-21268 KIT IN TYPE												1	
	20530	KIT, TUNE UP MODEL 750/750A/765A 2 HSG		AR											
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG					AR			AR	AR				
	25405	KIT, TUNE UP MODEL 760B 3 HSG				AR		AR	AR						
	26618	KIT, TUNE UP MODEL 770 3 HSG									AR		AR	AR	
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)	A1							3					
	25231	HOUSING ASSY., MODEL 765A 12VDC (FIG. 37)	A1				3			3					
	25283	HOUSING ASSY., MODEL 765A 12VDC		2											
	25384	HOUSING ASSY., MODEL 760B 12VDC (FIG. 37)	A1			3			3						
	25385	HOUSING ASSY., MODEL 760B 24VDC (FIG. 37)	A1					3							
	25911	HOUSING ASSY., MOD 770 12V (FIG. 37)	A1								3				3
	26550	HOUSING ASSY., JAKE MOD 770 24V (FIG. 37)	A1											3	
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMON HARDWARE	A1	1		1	1	1	1	1	1	1			1
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE		6		6	6	6	6	6	8	6		6	6
1	8929544	ARM ASSY., INTAKE			6								6		
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE			AR							AR	AR		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 5 7	6 5 8	6 5 9	6 6 4	6 6 7	6 6 8	6 6 9	6 7 0	6 8 0	6 8 1	6 9 5	6 9 6
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6	6	6	6	6	6	6	6	6	6
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS			AR	6	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV. ADJ. SCREW EXH ARMS		AR	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
	23520013	SCREW ASSY., INT VLV ADJ W/O OIL HOLES					6	6	6	6					
	23520014	SCREW ASSY., EXH VLV ADJ W/O OIL HOLES					6	6	6	6					
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		18	18	6	6	6	6	6	18	18	18	6	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END		12	12		12				12	12	12		12
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521734	STUD/SEAL ASSY.		2			2	2	2	2	2	2		2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	2	2	2	2	2	2	2	2	2
	9421745	PLUG, CUP 1/2" (12.9330)		2	2		2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12	12	12	12	12	12	12	12	12	12

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 5 7	6 5 8	6 5 9	6 6 4	6 6 7	6 6 8	6 6 9	6 7 0	6 8 0	6 8 1	6 9 5	6 9 6
	1.8320	1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
1	23518571	GUIDE, EXHAUST VALVE		24	24	24	24	24	24	24	24	24	24	24	24
	23518572	GUIDE VALVE		AR			AR	AR	AR	AR	AR	AR		AR	AR
	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929633	GUIDE (14.43MM-14.45MM DIA.)			AR	AR							AR		
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12	12	12	12	12	12	12	12	12
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929630	INSERT, (EXHAUST) (.030" U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24	24	24	24	24	24	24	24	24
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24	24	24	24	24	24	24	24	24
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	1.8365	ROTATOR, VALVE													
1	8929105	ROTATOR		24	24	24	24	24	24	24	24	24	24	24	24
	1.8370	LOCK, EXHAUST VALVE SPRING													
1	8929573	LOCK, KEY EXHAUST VALVE SPRING		48	48	48	48	48	48	48	48	48	48	48	48

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 9 7	7 0 4	7 0 5	7 0 6	7 0 8	7 1 1	7 1 2	7 1 3	7 1 4	7 1 5	7 1 8	7 2 1
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23513605	HARNESS EDU TO INJ											1		
	23522176	HARNESS EDU TO INJ SCREW TERM JAKE DDEC3												1	
	23522178	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)						1	1	1	1	1			1
	23522179	HARNESS, INJ DDEC III SCREW TERM		1		1									
	23525240	HARNESS ASSY., EDU TO INJ DDEC IV INDST			1										
	5101020	STRAP, NYLON (2.5255)		7		7				3					
	23525278	CLIP, .375ID .68 OFFSET .53 BOLT HOLE			1										
	11503316	BOLT, M12 1.75 X 35.0			1										
	11509511	BOLT, M8 X 1.25 X 20 MM			2										
	23525279	SPACER, 13 X 18 X 12			1										
	23513556	HARNESS ENG EDU TO INJ DDEC III					1								
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE					6								6
	23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE		6	6	6		6	6	6	6	6	6	6	
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12	12	12	12	12	12	12	12	12
	1.8070	JACOBS BRAKE CYLINDER													
	23522205	# KIT, JAKE BRAKE ENHANCED 12V 3 HSG 11L (25419)										1			
	23522209	# KIT JAKE BRK ENHANCED 12V 3 HSG 12L (25326)									1				
	23522210	# KIT JAKE BRK ENHANCED 24V (25333)													1
	23523596	* KIT, JAKE BRAKE 12V 3 HSG (26546)						1	1					1	
	23524121	* KIT, JAKE BRAKE 24V 3 HSG (26544)		1											
	23524122	# KIT, JAKE BRAKE 24V (26545)				1									
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)						2	2		2	2			2
	23511681	BAR SPCR (JAKE BRAKE) * NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.		1		1									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 9 7	7 0 4	7 0 5	7 0 6	7 0 8	7 1 1	7 1 2	7 1 3	7 1 4	7 1 5	7 1 8	7 2 1
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	25326	KIT, BRAKE BASE MODEL 765A 12V 3 HSGINCLUDES 3-25231 ASSYS. & 1-21268 KIT IN TYPE									1				
	25333	KIT, BRAKE BASE MODEL 765A 24V 3 HSGINCLUDES 3-25279 ASSYS. & 1-21268 KIT IN TYPE													1
	25419	KIT, BRAKE BASE MODEL 760B 12V 3 HSGINCLUDES 3-25384 ASSYS. & 1-21268 KIT IN TYPE										1			
	26544	KIT, BRAKE BASE 770 12V 2 HSG		1											
	26545	KIT, BRAKE BASE MODEL 770 24V 2 HSG				1									
	26546	KIT, BRAKE BASE MODEL 770 12V 3 HSGINCLUDES 3-25911 ASSYS. & 1-21268 KIT IN TYPE						1	1					1	
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG									AR				
	25405	KIT, TUNE UP MODEL 760B 3 HSG										AR			
	26615	KIT, TUNE UP MODEL 750B/770 2 HSG		AR		AR									
	26618	KIT, TUNE UP MODEL 770 3 HSG						AR	AR					AR	
	25231	HOUSING ASSY., MODEL 765A 12VDC (FIG. 37)	A1								3				
	25279	HOUSING ASSY., MODEL 765A 24VDC (FIG. 37)	A1												3
	25384	HOUSING ASSY., MODEL 760B 12VDC (FIG. 37)	A1									3			
	25911	HOUSING ASSY., MOD 770 12V (FIG. 37)	A1					3	3					3	
	26548	HOUSING ASSY., JAKE MOD 770 12V 3 HSG		3											
	21183	BOLT, 12 POINT M12 X 110 LG				6									
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1	1				1	1		1	1		1	1
	21184	WASHER, FLAT CHAMFERED				6									
	1.8075	ARM ASSY., INTAKE VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE					6								6
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE		6	6	6		6	6	6	6	6	6	6	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 9 7	7 0 4	7 0 5	7 0 6	7 0 8	7 1 1	7 1 2	7 1 3	7 1 4	7 1 5	7 1 8	7 2 1
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8080	ARM ASSY., INJECTOR ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6	6	6		6	6	6	6	6	6	6	
	R23513939	REMANUFACTURED 23513939		AR	AR	AR	6	AR	AR	AR	AR	AR	AR	AR	6
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23517283	BUTTON, VALVE S50/60		30	30	30	30	30	30	30	30	30	30	30	30
	23520013	SCREW ASSY., INT VLV ADJ W/O OIL HOLES		6	6			6	6	6	6	6	6	6	
	23520014	SCREW ASSY., EXH VLV ADJ W/O OIL HOLES		6	6			6	6	6	6	6	6	6	
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		6	6	6	18	6	6	6	6	6	6	6	18
1	8929751	SCREW, W/9/32" EXTERNAL SOCKET END					12								
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30	30	30	30	30	30	30	30	30
1	8929494	RETAINER (1.8090)		30	30	30	30	30	30	30	30	30	30	30	30
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2	2	2	2	2	2	2	2	2
	23521734	STUD/SEAL ASSY.		2	2	2	2	2	2	2	2	2	2	2	2
	23521111	SEAL		2	2	2	2	2	2	2	2	2	2	2	2
	23522975	SEAL, RACETRACK FRT CAMSHAFT CAP					1	1	1	1	1	1	1	1	1
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2	2	2	2	2	2	2	2	2
	8929740	SEAL, RING .134X.074X.480 I.D.		2	2	2	1	1	1	1	1	1	1	1	1
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2	2	2	2	2	2	2	2	2
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6	6	6	6	6	6	6	6	6
1	23500708	NUT, M12 X 1.75		2	2	2	2	2	2	2	2	2	2	2	2
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8	8	8	8	8	8	8	8	8
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12		12	12	12	12	12	12	12	12	12	12
	23525179	VALVE, EXHAUST PYROMET CHROME (MARKED "U1")			12										

				TYPES												
1.8000 VALVE AND INJECTOR OPERATING MECHANISM				6 9 7	7 0 4	7 0 5	7 0 6	7 0 8	7 1 1	7 1 2	7 1 3	7 1 4	7 1 5	7 1 8	7 2 1	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
1	1.8315	VALVE, INTAKE														
	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)	12		12	12	12	12	12	12	12	12	12	12	12	
	23525180	VALVE, INTAKE EATONITE CHROME (MARKED "A7")		12												
1	1.8320	GUIDE, EXHAUST VALVE														
	23518571	GUIDE	24		24	24	24	24	24	24	24	24	24	24	24	
	23518572	GUIDE VALVE	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	23523930	SEAL EXH VALVE STEM (4 VLV)	24		24	24	24	24	24	24	24	24	24	24	24	
1	1.8330	INSERT, EXHAUST VALVE														
	23525004	INSERT, (INTAKE)		12												
	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)	12		12	12	12	12	12	12	12	12	12	12	12	
	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	23525003	INSERT, (EXHAUST)		12												
	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)	12		12	12	12	12	12	12	12	12	12	12	12	
	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)	AR		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	1	1.8340	SPRING, EXHAUST VALVE													
		8929415	SPRING (YELLOW STRIPE)	24	24	24	24	24	24	24	24	24	24	24	24	24
1	1.8360	SEAT, EXHAUST VALVE SPRING														
	8929076	SEAT (2.2MM-2.4MM)	24	24	24	24	24	24	24	24	24	24	24	24	24	
	8929634	SEAT (2.45MM-2.65MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929635	SEAT (2.70MM-2.90MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
	8929636	SEAT (2.95MM-3.15MM)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	
1	1.8365	ROTATOR, VALVE														
	8929105	ROTATOR	24	24	24	24	24	24	24	24	24	24	24	24	24	
1	1.8370	LOCK, EXHAUST VALVE SPRING														
	8929573	LOCK, KEY EXHAUST VALVE SPRING	48	48	48	48	48	48	48	48	48	48	48	48	48	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 2 3	7 2 4	7 2 5	7 2 9								
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8050	HARNESS ASSY., INJECTOR													
	23521552	HARNESS ASSY.,EDU TO INJ DDEC III				1									
	23522177	HARNESS EDU TO INJ DDEC3 SCREW TERM JAKE SOLENOID (EFFECTIVE WITH UNITS BUILT 12/4/97)			1										
	23522179	HARNESS, INJ DDEC III SCREW TERM		1											
	23525240	HARNESS ASSY., EDU TO INJ DDEC IV INDST					1								
	5101020	STRAP, NYLON (2.5255)		7											
	23525278	CLIP, .375ID .68 OFFSET .53 BOLT HOLE					1								
	11503316	BOLT, M12 1.75 X 35.0					1								
	11509511	BOLT, M8 X 1.25 X 20 MM			2	2	2								
	23525279	SPACER, 13 X 18 X 12					1								
	1.8060	ARM ASSY., EXHAUST VALVE ROCKER													
		ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE			6	6	6								
	23523174	(R) ARM & RLR ASSY. EXH RKR W/O OIL HOLE		6											
	9421740	PLUG, CUP 3/16" (12.9320)		12	12	12	12								
	1.8070	JACOBS BRAKE CYLINDER													
	23522172	* KIT JAKE BRK SCREW TERM 24V (19032)			1										
	23524121	* KIT, JAKE BRAKE 24V 3 HSG (26544)		1											
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)			2										
	23511681	BAR SPCR (JAKE BRAKE) * NOT SERVICED. USE PART NUMBER SHOWN IN PARENTHESES.		1											
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)													
	19032	KIT, BRAKE BASE MODEL 765 24V 3 HSG INCLUDES 3-19974 ASSYS. & 1-21268 KIT IN TYPE			1										
	26544	KIT, BRAKE BASE 770 12V 2 HSG		1											
	20531	KIT, TUNE UP MODEL 760A/765A 3 HSG			AR										
	26615	KIT, TUNE UP MODEL 750B/770 2 HSG		AR											
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)	A1		3										
	26548	HOUSING ASSY., JAKE MOD 770 12V 3 HSG		3											
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMONHARDWARE	A1	1	1										

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	7	7	7								
				2	2	2	2								
				3	4	5	9								
	1.8075	ARM ASSY., INTAKE VALVE ROCKER ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE			6	6	6								
	23520644	(R) ARM & RLR ASSY. INT RKR W/O OIL HOLE		6											
	1.8080	ARM ASSY., INJECTOR ROCKER ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.													
	23513939	ARM ASSY., INJ RKR CER RLR HONED BUSHING		6											
	R23513939	REMANUFACTURED 23513939		AR	6	6	6								
	1.8135	SCREW, ROCKER ARM ADJUSTING													
	23505056	KIT, VLV. ADJ SCREW INJ & INTAKE ARMS		AR	AR	AR	AR								
	8929646	KIT, VLV ADJ. SCREW EXH ARMS		AR	AR	AR	AR								
	23517283	BUTTON, VALVE S50/60		30	30	30	30								
	23520013	SCREW ASSY., INT VLV ADJ W/O OIL HOLES		6			6								
	23520014	SCREW ASSY., EXH VLV ADJ W/O OIL HOLES		6			6								
1	8929607	SCREW, W/3/16" INTERNAL SOCKET END		6	18	18	18								
1	23514371	NUT, 3/8"-24 HEX JAM		30	30	30	30								
1	8929494	RETAINER (1.8090)		30	30	30	30								
	1.8160	SHAFT ASSY., ROCKER													
	23513530	SHAFT ASSY., LUBRITED (INCLUDES PLUG)		2	2	2	2								
	23521734	STUD/SEAL ASSY.		2	2	2	2								
	23521111	SEAL		2	2	2	2								
	23522975	SEAL, RACETRACK FRT CAMSHAFT CAP		1	1	1	1								
1	8929588	STUD, M12 X 1.75 X 123.0 (1.8170)		2	2	2	2								
	8929740	SEAL, RING .134X.074X.480 I.D.		1	1	1	1								
	9421745	PLUG, CUP 1/2" (12.9330)		2	2	2	2								
1	8929587	BOLT, M12 X 1.75 X 110.0 (1.7046)		6	6	6	6								
1	23500708	NUT, M12 X 1.75		2	2	2	2								
	1.8173	SPACER, ROCKER SHAFT													
1	8929586	SPACER (01.8170)		8	8	8	8								

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 2 3	7 2 4	7 2 5	7 2 9								
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													
	1.8310	VALVE, EXHAUST													
1	23507504	VALVE KIT (IDENTIFICATION-H) (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12									
	23525179	VALVE, EXHAUST PYROMET CHROME (MARKED "U1")					12								
	1.8315	VALVE, INTAKE													
1	23501576	VALVE KIT (INCLUDES SEAL IN 1.8320 AND LOCK IN 1.8370)		12	12	12									
	23525180	VALVE, INTAKE EATONITE CHROME (MARKED "A7")					12								
	1.8320	GUIDE, EXHAUST VALVE													
1	23518571	GUIDE		24	24	24	24								
	23518572	GUIDE VALVE		AR	AR	AR									
	23523930	SEAL EXH VALVE STEM (4 VLV)		24	24	24	24								
	1.8330	INSERT, EXHAUST VALVE													
1	8929127	INSERT, (INTAKE) (STD) (7.155MM-7.257MM)		12	12	12	12								
1	8929625	INSERT, (INTAKE) (.010" U.S.) (6.901MM-7.003MM)		AR	AR	AR	AR								
1	8929626	INSERT, (INTAKE) (.020" U.S.) (6.647MM-6.749MM)		AR	AR	AR	AR								
1	8929627	INSERT, (INTAKE) (.030" U.S.) (6.393MM-6.495MM)		AR	AR	AR	AR								
1	8929126	INSERT, (EXHAUST) (STD) (6.261MM-6.363MM)		12	12	12	12								
1	8929628	INSERT, (EXHAUST) (.010" U.S.) (6.007MM-6.109MM)		AR	AR	AR	AR								
1	8929629	INSERT, (EXHAUST) (.020" U.S.) (5.753MM-5.855MM)		AR	AR	AR	AR								
1	8929630	INSERT, (EXHAUST) (.030 U.S.) (5.499MM-5.601MM)		AR	AR	AR	AR								
	1.8340	SPRING, EXHAUST VALVE													
1	8929415	SPRING (YELLOW STRIPE)		24	24	24	24								
	1.8360	SEAT, EXHAUST VALVE SPRING													
1	8929076	SEAT (2.2MM-2.4MM)		24	24	24	24								
1	8929634	SEAT (2.45MM-2.65MM)		AR	AR	AR	AR								
1	8929635	SEAT (2.70MM-2.90MM)		AR	AR	AR	AR								
1	8929636	SEAT (2.95MM-3.15MM)		AR	AR	AR	AR								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	7	7	7								
				2	2	2	2								
				3	4	5	9								
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM													

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K
		1.8000 VALVE AND INJECTOR OPERATING MECHANISM											
		(Note: Assemblies are shown for component reference only.)											
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE)											
	17751	HOUSING ASSY., MODEL 760A 12VDC (FIG. 37)	1										
	21268	KIT, HOUSING BOLTS & WASHERS JAKE COMMON		1									
	17537	HOUSING ASSY., MODEL 765 12VDC (FIG. 37)			1								
	19974	HOUSING ASSY., MODEL 765 24VDC (FIG. 37)				1							
	18972	HOUSING ASSY., MODEL 760A 24VDC (FIG. 37)					1						
	25231	HOUSING ASSY., MODEL 765A 12VDC (FIG. 37)						1					
	25279	HOUSING ASSY., MODEL 765A 24VDC (FIG. 37)							1				
	25384	HOUSING ASSY., MODEL 760B 12VDC (FIG. 37)								1			
	25385	HOUSING ASSY., MODEL 760B 24VDC (FIG. 37)									1		
	25911	HOUSING ASSY., MOD 770 12V (FIG. 37)										1	
	26550	HOUSING ASSY., JAKE MOD 770 24V (FIG. 37)											1
	16687	BAR, SPACER (FIG. 30)	2		2	2	2		2	2	2		
	21183	BOLT, 12 POINT M12 X 110 LG		9									
	23504431	BAR SPCR (JAKE BRAKE) (FIG. 30)										2	2
	18485	PLUG, PIPE FLUSH SEAL	11		11	11	11	11	11	11	11	11	11
	1024612	SOLENOID, PKG'D 12VDC S/SCR (FIG. 44)	1		1			1		1		1	
	1024619	SOLENOID PKG'D 24VDC S/SCR (FIG. 44)				1	1		1		1		1
	21184	WASHER, FLAT CHAMFERED		9									
	20229	SEAL, RING UPPER (FIG. 45)	1		1	1	1	1	1	1		1	1
	1082	SEAL, RING CENTER (FIG. 46)	1		1	1	1	1	1	1	1	1	1
	1083	SEAL, RING LOWER (FIG. 47)	1		1	1	1	1	1	1	1	1	1
	11930	SPOOL ASSY., CONT VALVE (FIG. 38)	2		2	2	2	2	2	2	2	2	2
	16557	CONTROL, VALVE COLLAR (FIG. 39)	2		2	2	2	2	2	2	2	2	2
	18179	SPRING, INNER C/V YELLOW (FIG. 40)	2		2	2	2	2	2	2	2	2	2
	1519	SPRING, CONTROL VALVE STOP (FIG. 41)	2		2	2	2	2	2	2	2	2	2
	16505	WASHER (FIG. 42)	5		5	5	5	5	5	5	5	5	5
	12991	RING, RETAINING (FIG. 43)	3		3	3	3	3	3	3	3	3	3
	12983	PISTON, ACCUMULATOR (FIG. 48)	1		1	1	1	1	1	1	1	1	1
	12990	SPRING (FIG. 49)	1		1	1	1	1	1	1	1	1	1
	17565	PISTON, MASTER .936 DIA (FIG. 31)	2		2	2	2	2	2	2	2	2	2
	17048	PISTON, SLAVE 1.125 DIA (FIG. 54)	2		2	2	2	2	2	2	2		
	24338	PISTON, SLAVE (FIG. 54)										2	2
	16771	BRIDGE, SLAVE PISTON (FIG. 57)	2		2	2	2	2	2	2	2	2	2
	11426	SCREW, ADJUSTING (FIG. 55)	2		2	2	2	2	2	2	2	2	2

			ASSEMBLIES										
FIG. REF.	PART NO.	1.8000 VALVE AND INJECTOR OPERATING MECHANISM	A	B	C	D	E	F	G	H	I	J	K
		NAME AND DESCRIPTION											
		(Note: Assemblies are shown for component reference only.)											
	1.8072	KIT, HOUSINGS AND ATTACHING PARTS (JACOBS BRAKE) (CONT.)											
	16766	NUT, HEX 3/8"-24 (FIG. 56)	2		2	2	2	2	2	2	2	2	2
	19576	TORSION, SPRING (FIG. 58)	2		2	2	2	2	2	2	2	2	2
	19740	SCREW, 3/8"-16 X .75" L. HEX SOC (FIG. 60)	2		2	2	2	2	2	2	2	2	2
	19741	WASHER, TORSION SPRING (FIG. 59)	2		2	2	2	2	2	2	2	2	2
	20382	POWER, LASH ASSY. .07-.078 (FIG. 52)	2		2	2	2	2	2	2			
	28082	J LASH .023 (FIG. 52)										2	2
	11395	NUT, HEX JAM (FIG. 53)	2		2	2	2	2	2	2	2	2	2
	17658	SPRING, FLAT (FIG. 32)	2		2	2	2	2	2	2	2	2	2
	1492	CAP, SCREW 1/2-20 X .500 LG (FIG. 34)	2		2	2	2	2	2	2	2	2	2

DETROIT DIESEL

SERIES 60 ENGINE

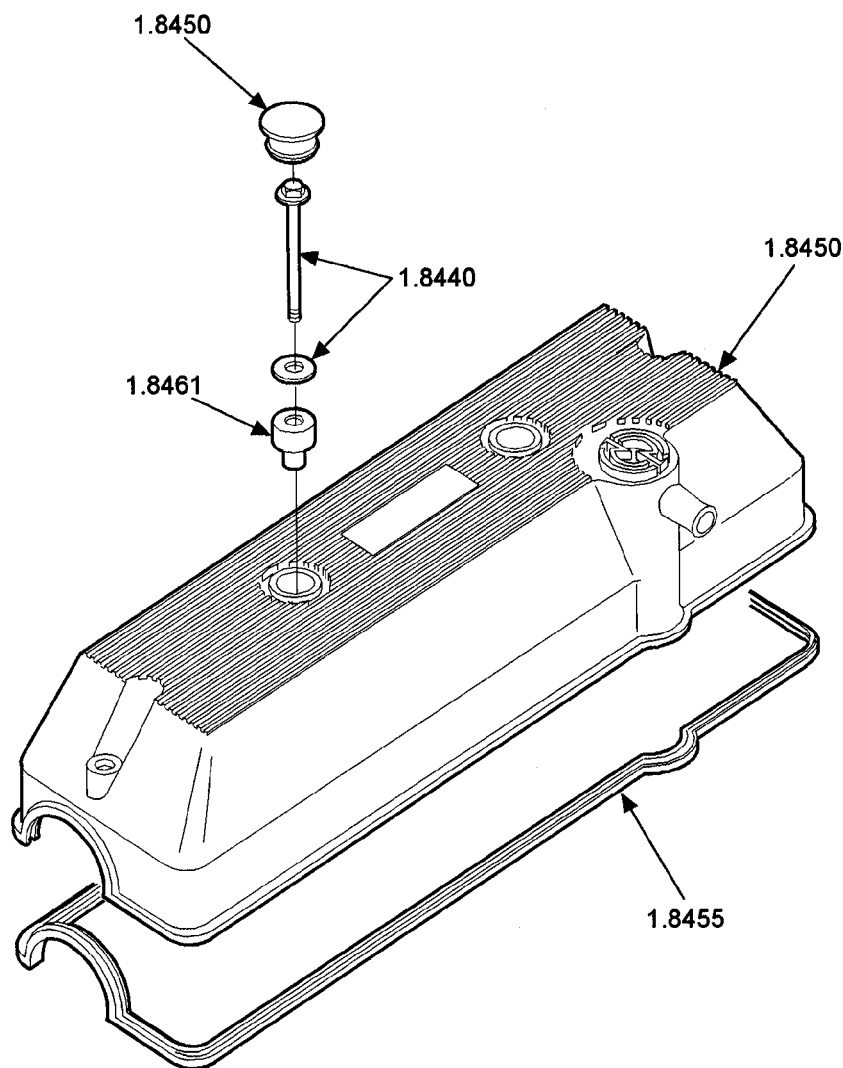


FIG. 1 ROCKER COVER ASSEMBLY

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FIG. 1 OF 1.8000A

DETROIT DIESEL

SERIES 60 ENGINE

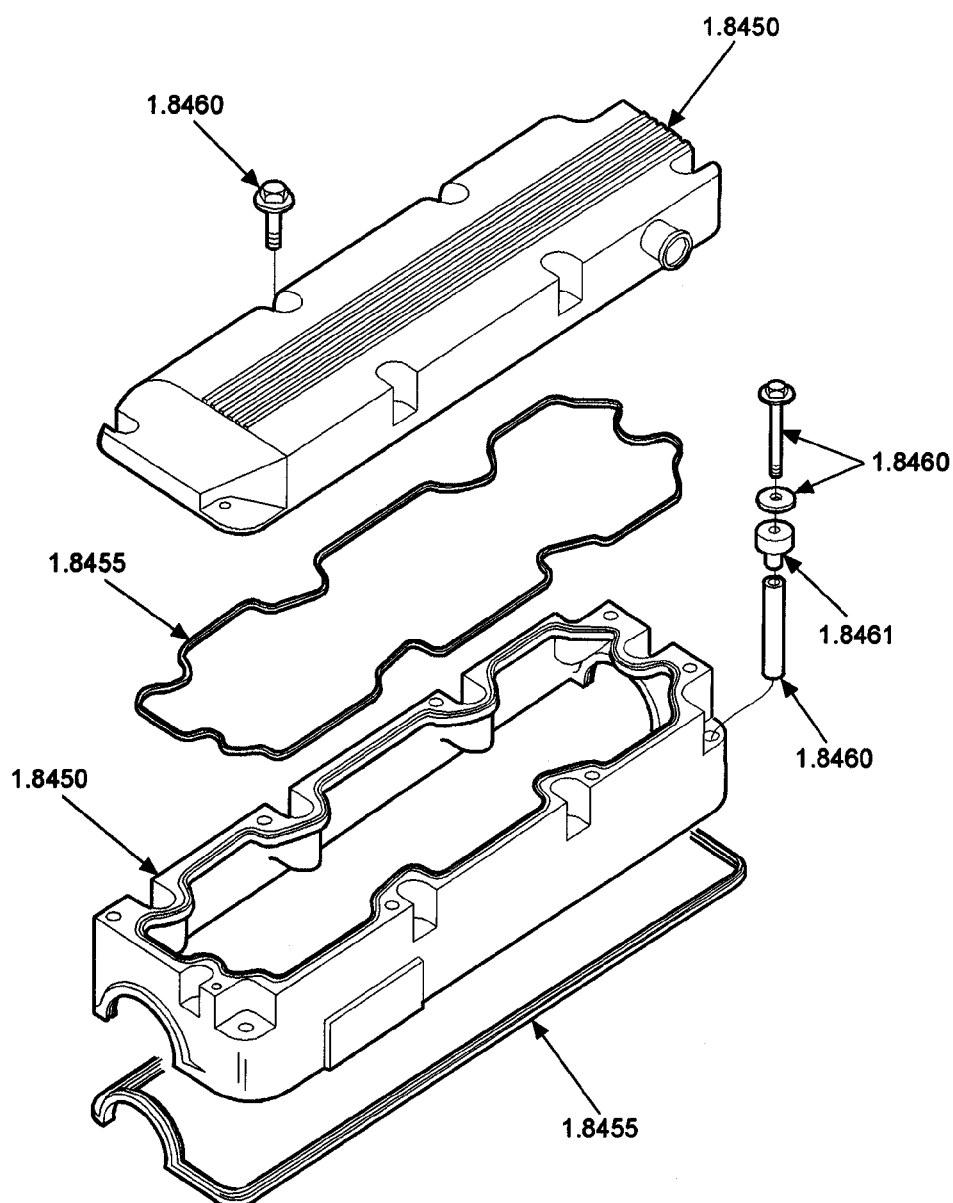


FIG. 2 ROCKER COVER

24014

FIG. 2 OF 1.8000A

				TYPES												
				5	5	5	5	5	5	5	5	5	5	5	5	5
				2	3	3	3	4	6	6	7	7	7	7	8	8
				8	2	5	9	3	1	6	1	5	9	3	6	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
FOR OPTION # 649, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06X03A 6052																
	1.8043	CAPLUG R/C S60														
	23515484	CAPLUG														1
	1.8450	COVER ASSY., ROCKER														
1	8929139	COVER (THERMOSET SHEET MOLDING COMPOUND)	1												1	
	23505973	COVER, INTERMEDIATE 3PC (ALUMINUM)						1								
	23505974	COVER, UPPER 3PC (ALUMINUM)						1								
	23511634	COVER RKR LWR AL 2&3PC ENLRG SEAL GRV					1		1	1	1	1	1			1
	23511893	COVER UPR LOW PROF CAST BTHR HOLE									1					
	23511989	COVER RKR INTER AL 3 PC ENLRG SEAL GRV.												1		
	23513426	COVER UPR LOW PROF					1									1
2	23513427	COVER RKR UPR 2 PC ALUM S60				1										
	23515501	COVER VLV RKR 2 PC UPR 4 CYL JAKE BRAKE							1							
	23517063	COVER VLV RKR 2PC UPR 4 CYL JAKE BRAKE										1				
	23518106	COVER RKR PR LOW PROFILE BRIT COLUM											1			
	23518335	COVER RKR (UPR) 3 PCAL W/CCBRTHRHOL												1		
2	8929490	COVER, UPPER (ALUMINUM) (NS USE 23511634 COVER + 23511991 GASKET)				1										
1	23506062	PLUG	2												2	
1	23505110	NAME PLATE SERIES 80	AR	AR	AR	AR	AR			AR	AR			AR	AR	AR
	5106236	PLATE, BREATHER HOLE					1			1						
	5103646	SEAL DC ROCKER COVER BREATHER					1			1						
	5103647	RETAINER ROCKER COVER BREATHER					1			1						
	23504751	SCREW #10-24 X .50" (4.8055)					3			3						
	1.8455	GASKET, ROCKER COVER														
	23506153	GASKET (USE WITH 23505973 ROCKER COVER)						1								
1,2	23516322	GASKET-ROCKER COVER S60	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2	8929803	GASKET, INTERMEDIATE (USE WITH 8929653 ROCKER COVER) 1			1		1									
	23511991	GASKET LWR TO INTER UPR LRG GRV.				1	1		1	1	1	1	1			1
	23511992	GASKET INTER TO UPR RKR CVR LRG GRV.												1		

1.8000A ROCKER COVER

RPSTL 3-133

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	5	5	5	5	5	5	6	6	6	6	6
				8	9	9	9	9	9	9	0	0	0	2	3
				7	0	1	3	5	6	7	1	2	4	3	9
	1.8043	CAPLUG R/C S60													
	23515483	CAPLUG ALUMINUM R/C S60				1									
	23515484	CAPLUG		1											
	1.8450	COVER ASSY., ROCKER													
	23505974	COVER, UPPER 3PC (ALUMINUM)								1					
	23511634	COVER RKR LWR AL 2&3PC ENLRG SEAL GRV		1	1	1	1	1	1	1	1	1			
	23511893	COVER UPR LOW PROF CAST BTHR HOLE					1								
	23511989	COVER RKR INTER AL 3 PC ENLRG SEAL GRV.								1		1			
	23513426	COVER UPR LOW PROF				1									
	23513427	COVER RKR UPR 2 PC ALUM S60			1										
	23515501	COVER VLV RKR 2 PC UPR 4 CYL JAKE BRAKE		1											
	23517063	COVER VLV RKR 2PC UPR 4 CYL JAKE BRAKE							1						
	23518106	COVER RKR PR LOW PROFILE BRIT COLUM						1							
	23518335	COVER RKR (UPR) 3 PCAL W/CCBRTHRHOL										1			
	23519346	COVER RKR UPR COIL OVER PLUG IGN									1			1	
	23520918	COVER RKR 4 BOLT W/O BTHR TUBE CONN S60											1		
	23523727	COVER ASSY.,RKR LWR												1	
	23525042	COVER, RKR LOW PROF CAST BTHR HOLE (CHROME)													1
	23525223	COVER, RKR LOWER 2PC LO PROFILE													1
	23506062	PLUG											2		
	23505110	NAME PLATE SERIES 60		AR	AR	AR	AR	AR	AR	AR					
	5103646	SEAL DC ROCKER COVER BREATHER										1			
	5103647	RETAINER ROCKER COVER BREATHER										1			
	1.8453	TUBE EXTENSION (NATURAL GAS ENGINE)													
	23519365	COVER IGNITION COIL									1			1	
	23518864	TUBE EXTENSION COIL OVER PLUG IGN S50G									6			6	
	23516906	RING-SEAL 1.112 ID LWR TUBE									12			12	
	23518865	SEAL RING IGN COIL EXT TUBE S50G									6			6	
	23521163	BOLT HEX FLANGE M6X1.0 X 16									6			6	
	1.8455	GASKET, ROCKER COVER													
	23511991	GASKET LWR TO INTER UPR LRG GRV.		1	1	1	1	1	1	1	1	1		1	1
	23516322	GASKET-ROCKER COVER S60		1	1	1	1	1	1	1	1	1	1	1	1
	23511992	GASKET INTER TO UPR RKR CVR LRG GRV.								1		1			

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	5	5	5	5	5	5	6	6	6	6	6
				8	9	9	9	9	9	0	0	0	2	3	
				7	0	1	3	5	6	7	1	2	4	3	9
1.8000A ROCKER COVER															
2	1.8460	BOLT, ROCKER COVER													
	11504822	BOLT, M8 X 1.25 X 30		8	8	8	8	8	8	16	8	16		8	8
	11509518	BOLT, M8 X 1.25 X 90 MM									10	10		10	
	120392	WASHER, 1/4"					3								
	23517913	BOLT M10 X 1.5 X 125.0											4		
	23517914	SPACER		10	10	10	10	10	10	10	10	10		10	10
	5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)													8
1.8461															
		ISOLATOR, ROCKER COVER													
		BOLT													
	11509518	BOLT, M8 X 1.25 X 90 MM		10	10	10	10	10	10	10					10
	23517911	ISOLATOR		10	10	10	10	10	10	10	10	10		10	10
	23517912	ISOLATOR											4		

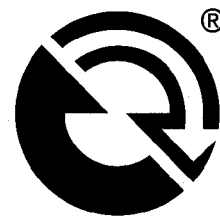
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				6 4 0	6 4 1	6 4 2	6 4 5	6 4 6					
		1.8000A ROCKER COVER											
	1.8043	CAPLUG R/C S60											
	23526114	CAP						1					
	1.8450	COVER ASSY., ROCKER											
	23511634	COVER RKR LWR AL 2&3PC ENLRG SEAL GRV						1					
	23511893	COVER UPR LOW PROF CAST BTHR HOLE	1										
	23513427	COVER RKR UPR 2 PC ALUM S60			1			1					
	23522272	COVER ASSY., ROCKER 10BLT SMC VINYL				1							
	23522273	COVER, ROCKER 10 BOLT W/O BTHR TUBE CONN					1						
	23523212	COVER, ROCKER LOWER ALUM. 1PC			1								
	23523727	COVER ASSY.,RKR LWR	1										
	1.8455	GASKET, ROCKER COVER											
	23522269	GASKET, ROCKER COVER MOD SEAL			1	1	1						
	23511991	GASKET LWR TO INTER UPR LRG GRV.	1		1			1					
	23516322	GASKET-ROCKER COVER S60	1					1					
	1.8460	BOLT, ROCKER COVER											
2	11504822	BOLT, M8 X 1.25 X 30	8	8				8					
	23522271	SLEEVE ASSY., ROCKER COVER BOLT MOD SEAL			10	10	10						
	23517914	SPACER	10					10					
	1.8461	ISOLATOR, ROCKER COVER BOLT											
	11509518	BOLT, M8 X 1.25 X 90 MM	10					10					
	23517911	ISOLATOR	10					10					

DETROIT DIESEL
CORPORATION



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www.detroitdiesel.com

DETROIT DIESEL



SERIES 60[®]

Section 2 - 12

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A AIR COMPRESSOR
- 12.5000A HYDRAULIC PUMP
- 12.6000B AIR STARTER
- 12.6000C COLD WEATHER STARTING AIR KIT
- 12.7000A APPEARANCE PACKAGE PARTS
- 12.8000A SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B FABRICATION MATERIAL
- 12.8000C SERVICE KITS AND SETS

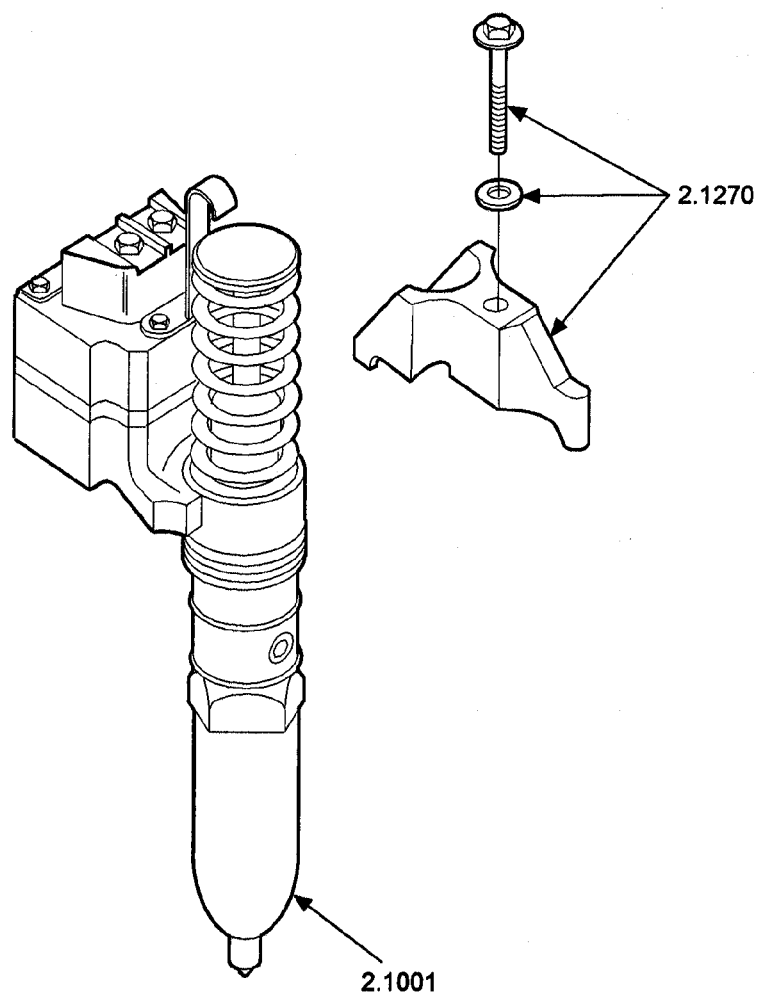
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 ELECTRONIC UNIT INJECTOR (E.U.I.)

24011

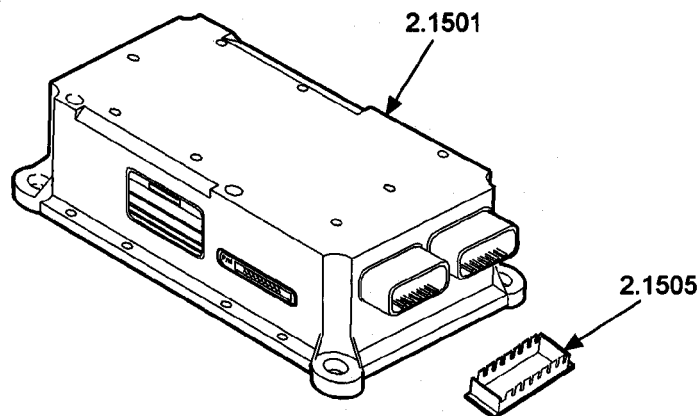
FIG. 1 OF 2.1000A

				TYPES											
2.1000A FUEL INJECTOR				2	2	2	2	3	3	3	3	3	3	3	3
				5	7	7	7	1	1	1	2	5	6	6	6
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	2	3	4	3	4	5	2	2	1	2	3
FOR OPTION CODE # 461, REFER TO CUSTOM PARTS CATALOG															
	2.1001	INJECTOR ASSY.													
1	R5234785	INJECTOR, 10MM 9.600X180-12.7L (REMANUFACTURED)		6											
1	R5234795	INJECTOR, 10MM 9.675X180-12.7L (REMANUFACTURED)			6										
1	R5234865	INJECTOR, 10MM 9.500X180-11L (REMANUFACTURED)				6									
1	R5234870	INJECTOR, 10MM 9.550X180-11L (REMANUFACTURED)					6								
1	R5234935	INJECTOR, 10MM 9.475X180-11L (REMANUFACTURED)						6							
1	R5234940	INJECTOR, 10MM 9.600X155-12.7L (REMANUFACTURED)						6							
1	R5234945	INJECTOR, 10MM 9.675X180-11L (REMANUFACTURED)							6						
1	R5234970	REMANUFACTURED 5234970								6					
	R5235550	INJECTOR, (10 MM 8.450 X 155)									6				
	R5235575	INJECTOR,(10MM,8-1.46 X 155)										6			
	R5235580	INJECTOR,(10MM,8-1.22 X 160)											6		
	R5235605	INJECTOR(10MM 9HOLE HI PRESS)11L												6	
	2.1002	SERVICE KIT, INJECTOR													
	5234934	KIT, EUI GROOVED SOLENOID STATOR		AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR
	5236116	KIT, EUI SOLENOID SEALS & SCREWS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	2.1040	RING, INJECTOR SEAL													
		FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS. CURRENTSTYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.													
	5234702	RING, SEAL UPPER		1	1	1	1	1	1	1	1	1	1	1	1
	5234699	RING, SEAL LOWER		2	2	2	2	2	2	2	2	2	2	2	2
	2.1270	CLAMP, INJECTOR													
1	8929088	CLAMP		6	6	6	6	6	6	6	6	6	6	6	6
1	8929021	WASHER		6	6	6	6	6	6	6	6	6	6	6	6
1	8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)		6	6	6	6	6	6	6	6	6	6	6	6

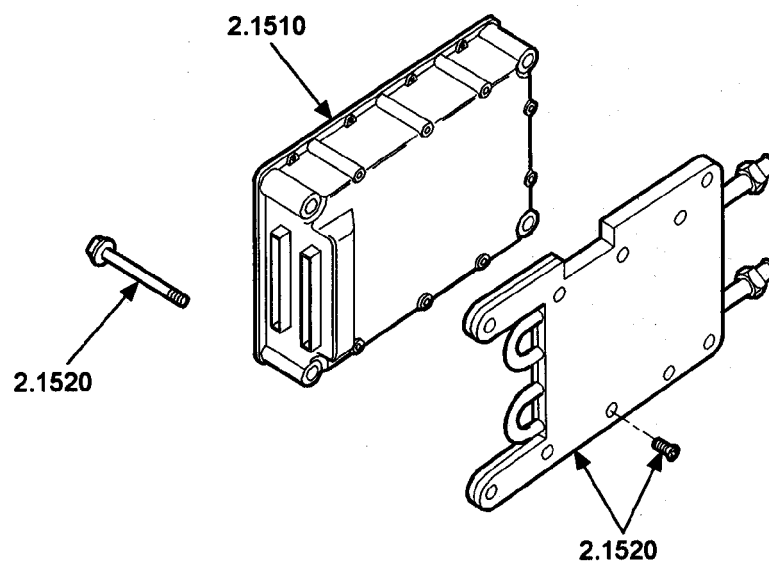
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				3 7 3	3 8 2	3 8 3	4 0 9	4 1 2	4 1 3	4 3 1	4 4 8	4 5 0	4 5 3
	2.1001	INJECTOR ASSY.											
	R5235695	INJECTOR,(10MM,9.640 X 155) 12L		6									
	R5236952	INJECTOR ASSY.10MM 8 HOLE VCO 155 DEG SPRA.				6							
	R5236977	INJECTOR ASSY.,10MM 8-.450 X 155 SHORT HOL.						6					
	R5236978	INJECTOR ASSY.,10MM 8 1.22 X 160 SHORT HOL.							6				
	5236995	(R) INJECTOR ASSY., SP ANGL 155DEG 9-HOLE								6			
	5237014	(R) INJECTOR ASSY., 10MM (9-1.80 X 155)									6		
	5237026	(R) INJECTOR ASSY., 9 HOLE 2.05 1/MIN 145 DEG										6	
	5237045	(R) INJECTOR ASSY. 10MM .450 X 155 SHORT HOLE											6
	R5235600	REMANUFACTURED 5235600			6								
	R5235915	REMANUFACTURED 5235915				6							
	2.1002	SERVICE KIT, INJECTOR											
	5234934	KIT, EUI GROOVED SOLENOID STATOR		AR	AR	AR	AR	AR	AR	AR			
	5234950	KIT, SOLENOID STATOR (CONTAINS AN ENGINE SET OF ASOLENOID STATORS)					AR	AR	AR				
	5236116	KIT, EUI SOLENOID SEALS & SCREWS		AR	AR	AR	AR	AR	AR	AR			
	2.1040	RING, INJECTOR SEAL											
		FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS. CURRENTSTYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.											
	5234702	RING, SEAL UPPER		1	1	1	1	1	1	1	1	1	1
	5234699	RING, SEAL LOWER		2	2	2	2	2	2	2	2	2	2
	5104701	SEAL RING, INJECTOR HOLE TUBE (1.2046) (AUXILIARY INJECTOR SEAL) 2								AR			
	2.1270	CLAMP, INJECTOR											
1	8929088	CLAMP		6	6	6	6	6	6	6	6	6	6
1	8929021	WASHER		6	6	6	6	6	6	6	6	6	6
1	8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)		6	6	6	6	6	6	6	6	6	6

DETROIT DIESEL

SERIES 60 ENGINE



ELECTRONIC CONTROL MODULE, E.C.M.



ELECTRONIC DISTRIBUTION UNIT, E.D.U.

FIG. 1 DDEC I, ELECTRONIC MODULES

21677

FIG. 1 OF 2.1000B

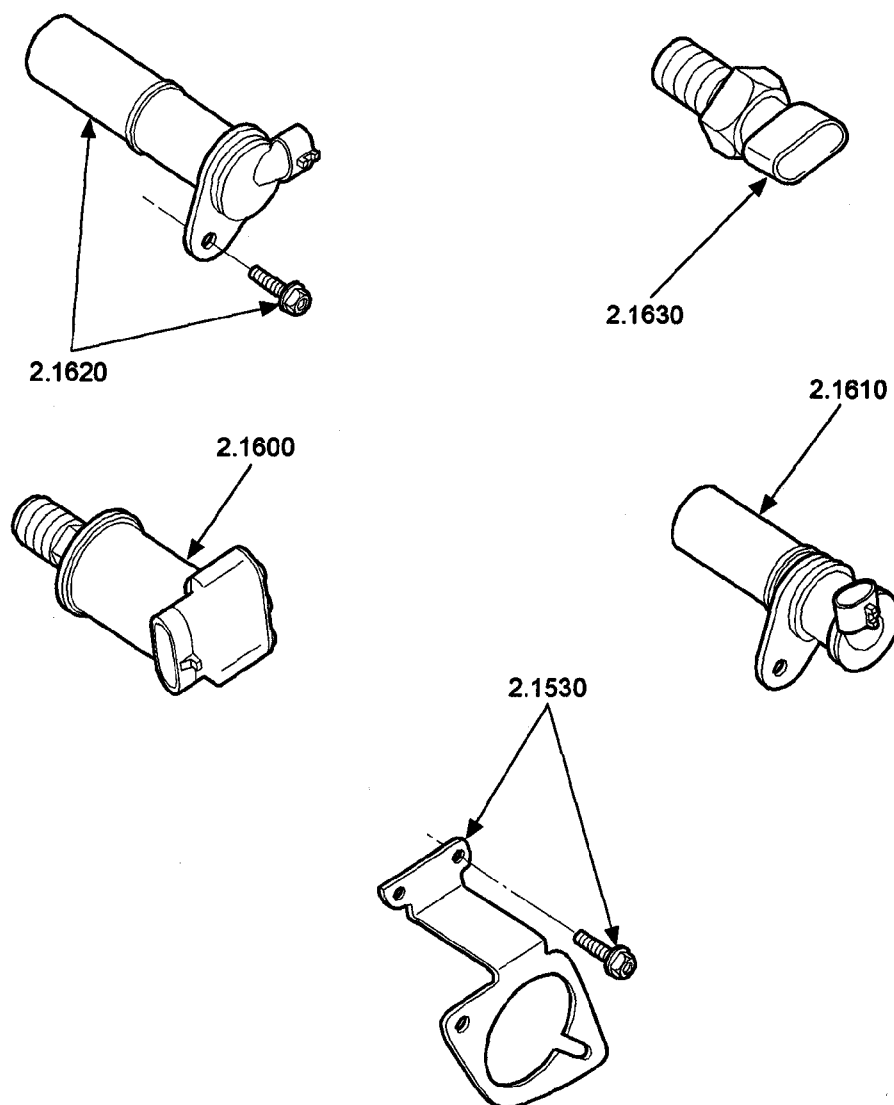
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 2 ELECTRONIC INJECTOR CONTROLS

24082

FIG. 2 OF 2.1000B

DETROIT DIESEL

SERIES 60 ENGINE

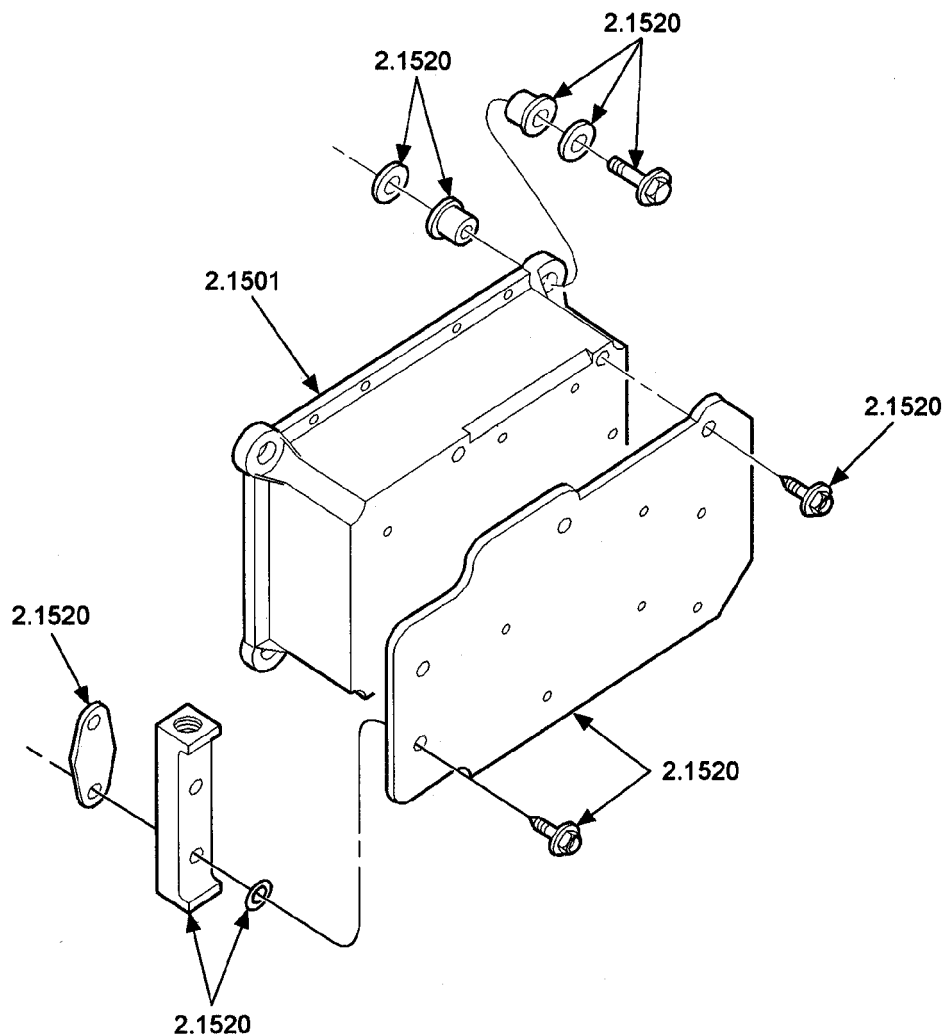


FIG. 3 ELECTRONIC CONTROL MODULE (ECM, DDEC II)

21520

FIG. 3 OF 2.1000B

DETROIT DIESEL

SERIES 60 ENGINE

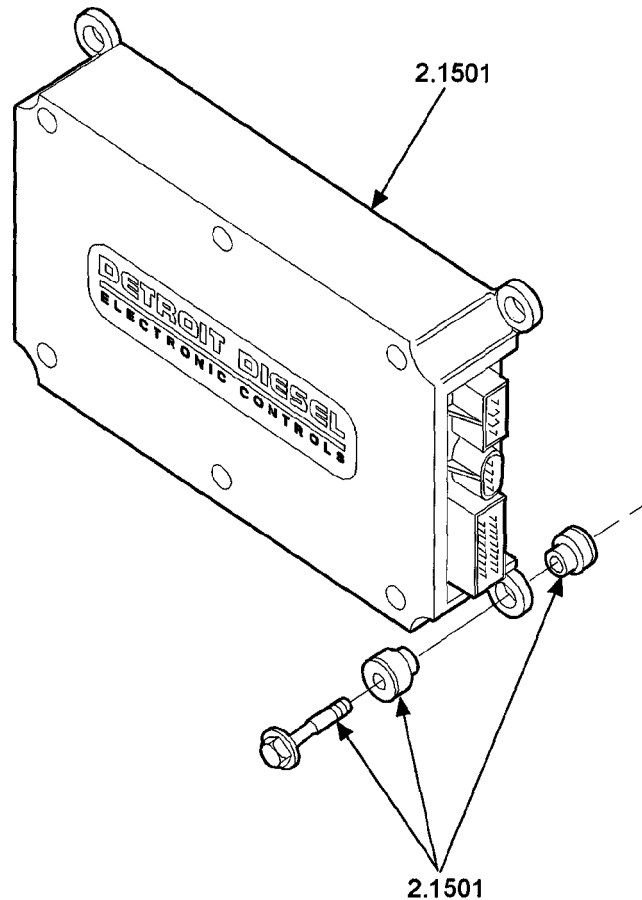
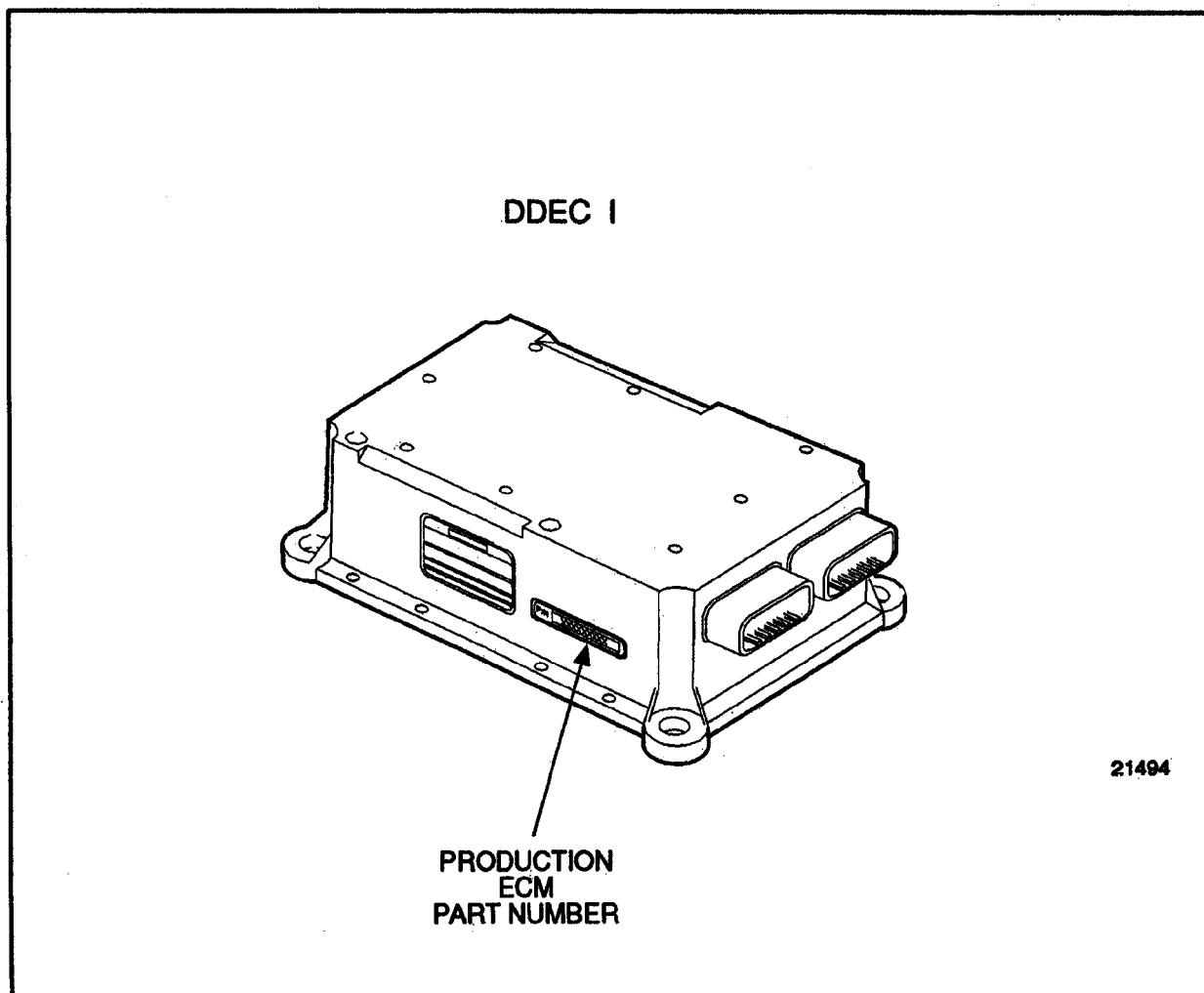


FIG. 4 ELECTRONIC CONTROL MODULE
(ECM, DDEC III)

24090

FIG. 4 OF 2.1000B



PRODUCTION ECM

**PROM AND
CARRIER
ASSEMBLY
2.1505**

REMARKS

16068489	16068846
16068499	16068852
16068509	16068857
16068519	16068863
16068529	16068868
16068539	16068882
16068549	16068887
16068559	16068893
16068569	16068898
16068579	16068904

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
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16068589	16068909
16068599	16068915
16068609	16068920
16068619	16068930
16068629	16068936
16071799	16072454
16071809	16072459
16071819	16072465
16071829	16072473
16071839	16072478
16071849	16072484
16071859	16072489
16071869	16072495
16071879	16072500
16071889	16072506
16071899	16072512
16071919	16072517
16071929	16072523
16071939	16072528
16071949	16072534
16071959	16072539
16071969	16072545
16071979	16072550
16071989	16072555
16071999	16072560
16072009	16072565
16072019	16072570
16072029	16072575
16072039	16072580
16076149	16076893
16076159	16076898
16076169	16076904
16076179	16076909
16076189	16076915
16076199	16076920
16076209	16076926
16076239	16076948
16076249	16076954
16076259	16076959
16076269	16076965
16076279	16076974
16076289	16076979

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
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16076299	16076990
16076309	16076996
16076319	16077002
16076329	16077032
16076339	16077038
16076349	16077044
16076359	16077049
16076369	16077055
16076379	16077060
16076389	16077066
16076399	16077072
16076409	16077077
16076419	16077083
16076429	16077088
16076439	16077094
16076449	16077099
16076459	16077105
16076469	16077110
16076479	16077116
16076489	16077122
16076499	16077127
16076509	16077133
16076519	16077212
16076529	16077217
16076539	16077223
16076549	16077228
16076559	16077234
16076569	16077239
16076579	16077245
16076589	16077250
16056599	16077256
16076609	16077262
16076619	16077267
16076629	16077273
16076639	16077278
16076649	16077284
16076659	16077364
16076669	16077370
16076679	16077375
16076689	16077381
16076699	16077386
16076709	16077392

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
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16076719	16077397	
16076729	16077410	
16076739	16077415	
16076749	16077420	
16076759	16077425	
16076769	16077430	
16076779	16077435	
16076789	16077440	
16076799	16077445	
16076809	16077450	
16076819	16077455	
16076829	16077460	
16076839	16077465	
16076849	16077470	
16076859	16077475	
16076869	16077480	
16076879	16077485	
16076889	16077490	
16078129	16078166	
16078139	16078172	
16078149	16078177	
16078159	16078183	
16078169	16078188	
16078179	16078194	
16078189	16078200	
16078199	16078205	
16078209	16078211	
16078219	16078216	
16078229	16078222	
16078239	16078227	
16078249	16078233	
16078259	16078238	
16078269	16078268	
16078279	16078296	
16078289	16078313	
16078299	16078352	
16078309	16078380	
16078319	16078244	
16078329	16078263	
16078339	16078307	
16078349	16078335	
16078359	16078374	

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
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16078369	16078252
16078379	16078257
16078389	16078274
16078399	16078280
16078409	16078285
16078419	16078291
16078429	16078318
16078439	16078330
16078449	16078341
16078459	16088346
16078469	16078302
16078479	16078324
16078489	16078357
16078499	16078363
16078509	16078368
16078519	16078385
16078529	16078391
16078539	16078407
16078549	16078424
16078559	16078435
16078569	16078396
16078579	16078402
16078589	16078413
16078599	16078418
16078609	16078430
16078619	16078463
16078629	16078474
16078639	16078491
16078649	16078513
16078659	16078518
16078669	16078524
16078679	16078441
16078689	16078446
16078699	16078452
16078709	16078457
16078719	16078468
16078729	16078480
16078739	16078485
16078749	16078496
16078759	16078502
16078769	16078507
16078779	16078530

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
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16078789	16078541
16078799	16078552
16078809	16078535
16078819	16078546
16078829	16078557
16078839	16078563
16078849	16078568
16078859	16078574
16078869	16078580
16078879	16078591
16078889	16078596
16078899	16078602
16078909	16078607
16078919	16078613
16078929	16078618
16078939	16078694
16078949	16078700
16078959	16078705
16078969	16078711
16078979	16078716
16078989	16078722
16078999	16078727
16079009	16078734
16079019	16078740
16079029	16078814
16079039	16078820
16079049	16078825
16079059	16078831
16079069	16078836
16079079	16078842
16079089	16078847
16079099	16078858
16079109	16078864
16079119	16078870
16079129	16078900
16079139	16078907
16079149	16078913
16079159	16078952
16079169	16078958
16079179	16078966
16079189	16078972
16079199	16078978

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
16079209	16078985	
16079219	16078991	
16079229	16078997	
16079239	16079003	
16079249	16079010	
16079259	16079016	
16079269	16079022	
16079279	16079028	
16079289	16079034	
16079299	16079040	
16079309	16079045	
16079319	16079051	
16079329	16079056	
16079339	16079062	
16079349	16079067	
16079359	16079073	
16079369	16079078	
16079379	16079086	
16079389	16079092	
16079399	16079097	
16079409	16079103	
16079419	16079108	
16079429	16079114	
16079439	16079120	
16079449	16079125	
16079459	16079131	
16079469	16079136	
16079479	16079142	
16079489	16079147	
16079499	16079153	
16079509	16079158	
16079519	16079164	
16079529	16079170	
16079539	16079175	
16079549	16079181	
16079559	16079186	
16079569	16079192	
16079579	16079197	
16079589	16079203	
16079599	16079208	
16079609	16079214	
16079619	16079220	

PRODUCTION ECM

PROM AND
CARRIER
ASSEMBLY
2.1505

REMARKS

16079629	16079225
16079639	16079274
16079649	16079280
16079659	16079286
16079669	16079293
16079679	16079298
16079689	16079305
16079699	16079312
16079709	16079317
16079719	16079323
16079729	16079328
16079739	16079334
16079749	16079340
16079759	16079345
16079769	16079352
16079779	16079357
16079789	16079364
16079799	16079370
16079809	16079375
16079819	16079381
16079829	16079386
16079839	16079392
16079849	16079397
16079859	16079403
16079869	16079408
16079879	16079553
16079889	16079562
16079899	16079568
16079909	16079575
16079919	16079583
16079929	16079588
16079939	16079595
16079949	16079602
16079959	16079607
16079969	16079613
16079979	16079618
16079989	16079624
16079999	16079630
16080009	16079635
16080019	16079641
16080029	16079646
16080039	16079652

PRODUCTION ECM	PROM AND CARRIER ASSEMBLY 2.1505	REMARKS
16080049	16079657	
16080059	16079663	
16080069	16079668	
16080079	16079677	
16080089	16079683	
16080099	16079688	
16080109	16079694	
16080119	16079700	
16080129	16079705	
16080139	16079711	
16080149	16079716	
16080159	16079722	
16080169	16079727	
16080179	16079733	
16080189	16079744	
16080199	16079754	
16080229	16079771	
16080239	16079776	
16080239	16079804	
16080319	16079821	
16080329	16079826	
16080349	16079837	
16080359	16079843	
16080369	16079848	
16080399	16079855	
16080419	16079866	
16080449	16079975	
16080459	16079981	
16080469	16079986	
16080479	16079992	
16080489	16080001	
16080499	16078758	
16080509	16078764	
16080519	16078770	
16080529	16078775	
16080539	16078781	
16080549	16078786	
16080559	16078792	
16080569	16078797	
16080579	16078803	
16080589	16078808	
16080639	16078893	

PRODUCTION ECM

PROM AND
CARRIER
ASSEMBLY
2.1505REMARKS

16080429	16079872
16080599	16078853
16080609	16078875
16080619	16078881
16080629	16078887

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	1	1	1	1	1	2	2	2	2	2
		2.1000B INJECTOR CONTROLS ELECTRONIC		9	0	7	8	8	9	9	0	2	2	3	3
						8	4	7	0	1	3	0	7	4	9
FOR OPTION # 841, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06N04 6167															
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
1	R1227327	MODULE, REMANUFACTURED (ECM) W/O PROM			1										
	R6136806	MODULE, W/SHIFTED CRYSTAL (REMANUFACTURED)				AR	AR	AR	AR	AR	AR		AR	AR	AR
3	R7570049	REMANUFACTURED 7570049				1	1	1	1	1	1		1	1	1
	R23514706	KIT CONVERSION DDEC I TO DDEC II (REMANUFACTURED)			AR										
	2.1502	KIT, EPROM STABILIZER													
	R6171618	EPROM STABILIZER KIT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R16171618	REMANUFACTURED 16171618				AR	AR	AR	AR	AR	AR		AR	AR	AR
	2.1505	PROM AND CARRIER ASSY., ELECTRONIC CONTROL													
1	XXXXXXX	PROM AND NOTE: TO PROCURE THE SERVICE PROM AND CARRIER ASSEMBLY PART NUMBER OBTAIN THE ECM PRODUCTION PART NUMBER SHOWN ON THE PART NUMBER LABEL LOCATED ON THE SIDE OF THE ECM ASSEMBLY. NOW, REFER TO THE PROM AND CARRIER ASSEMBLY CHART AND LOCATE THAT ECM NUMBER, THE SERVICE PROM AND CARRIER ASSEMBLY PART NUMBER IS LISTED IN A COLUMN TO THE RIGHT OF THE PRODUCTION ECM NUMBER. CARRIER ASSY. (REFER TO CHART)			1										
	2.1510	MODULE, ELECTRONIC DISTRIBUTOR UNIT (EDU)													
	R1227328	MODULE, REMANUFACTURED (EDU)			1										
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
3	23502860	PLATE (DDEC II)				1	1	1			1		1	1	
3	23503565	PLATE, RETAINER				1	1	1			1		1	1	
1	8929426	PLATE ASSY.		1	1										
	23502858	SEAL, FUEL FILTER TO PLATE				2	2	2							
3	23502879	ISOLATOR, ECM MOUNT (DDEC II)				8	8	8	8	8	8		8	8	8
3	23503566	FITTING, BLOCK END PLATE				1	1	1							
3	23504640	FITTING, BLOCK END PLATE								1			1	1	
3	23504641	SEAL, FUEL FITTING BLOCK								2			2	2	
3	8929874	SPACER, ECM ISOLATOR 3.0-3.4 THK					8	8	8	8	8		8	8	8

				TYPES											
				3	4	1	1	1	1	1	2	2	2	2	2
				9	0	7	8	8	9	9	0	2	2	3	3
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.			8	4	7	0	1	3	0	7	4	9
2.1000B INJECTOR CONTROLS ELECTRONIC															
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD (CONT.)													
3	11504603	SCREW, M8X1.00X25.0 MM				8	8	8			8		8	8	
3	11504822	BOLT, M8 X 1.25 X 30				4									
3	11504972	BOLT, M6 X 1.00 X 30 MM				2							2	2	
3	11509513	BOLT, M8 X 1.25 X 40 MM							4				4	4	4
1	11509518	BOLT, M8 X 1.25 X 90 MM		4	4										
1	23500530	SCREW, 1/4"-20X3/4"		9	9										
	2.1530	BRACKET, ELECTRONIC DISTRIBUTOR UNIT													
2	8929431	BRACKET (22 PIN CONNECTOR)		1	1										
2	11503454	BOLT, M10 X 1.5 X 20.0		2	2										
	2.1580	CONNECTOR, PERIPHERAL													
	12040945	SEAL, CONNECTOR (5-PIN HARNESS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	12059226	SEAL, CONNECTOR (6-PIN HARNESS)		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1			1	1			1	1	1
	5101020	STRAP, NYLON (2.5255)		3	3	3	3	3	3	3	3		3	3	3
	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1							1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1									
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1		1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1		1	1	1
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1		1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1		1	1	1
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
2	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	2	1	1	1	1	1		1	1	1
2	23503951	FITTING, FUEL TEMP SENSOR											1	1	

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	1	1	1	1	2	2	2	2	2	
				9	0	7	8	8	9	9	0	2	2	3	3
		2.1000B INJECTOR CONTROLS ELECTRONIC				8	4	7	0	1	3	0	7	4	9
	2.1665	SENSOR, COOLANT LEVEL A KIT INCLUDES ALL ITEMS IN 2.1665													
	23503509	SENSOR, 3/8" PROBE (2.1670)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	23503510	SENSOR, 1/4" PROBE (2.1670)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23505265	MODULE ASSY.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23503508	HARNESS, WIRE (2.1670)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	12015323	SEAL, WIRE HARNESS	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	12089040	TERMINAL, WEATHER PACK (2.6645)	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	2.1670	KIT, COOLANT LEVEL SENSOR A KIT INCLUDES ALL ITEMS IN 2.1665													
	23509964	KIT, COOLANT LEVEL SENSOR 1/4"	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23509963	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDEC	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR			
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	12087832	HARNESS INJ. DDEC I ANTI-CAPILLARY WIRE	1	1											
	12114461	HARNESS EDU TO INJ DDEC II JAKE BRK					1	1		1				1	1
	23506183	HARNESS (DDEC II)											1		
	8929469	HARNESS (DDEC II)			1	1				1					
	5101020	STRAP, NYLON (2.5255)						2	2						
	8929534	CLIP	1	1	1	1	1	1	1	1	1		1	1	1
	11509511	BOLT, M8 X 1.25 X 20 MM	2	2	2	2	2	2	2	2	2		2	2	2
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER	1	1	1	1	1	1	1	1	1		1	1	1
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	8929390	HARNESS	1	1											
	23506182	HARNESS (DDEC II)											1	1	
	23506371	HARNESS ASM GOV PRESS SENSOR PIGTAIL													1
	23508374	HARNESS ENG SENSOR DDECII 3WAY													1
	8929468	HARNESS (DDEC II)			1	1	1	1	1	1	1				
	23520795	PRESSURE TRANSDUCER													1
	11503454	BOLT, M10 X 1.5 X 20.0								1					
	11504986	BOLT, M8 X 1.25 X 14 MM	2	2	2	4	4	4	4	4	4		4	4	4
	120380	LOCKWASHER, 1/4"	2	2											
	120392	WASHER, 1/4"	1	1											
	120375	NUT, 1/4"-20	2	2											

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	1	1	1	1	1	2	2	2	2	2
				9	0	7	8	8	9	9	0	2	2	3	3
		2.1000B INJECTOR CONTROLS ELECTRONIC				8	4	7	0	1	3	0	7	4	9
	2.1755	KIT, REPOWER CONNECTOR AND TERMINAL													
	23502685	KIT, REPOWER CONNECTOR AND TERMINAL DDEC II		AR	AR	AR	AR	AR	AR	AR	AR				
	2.1757	REPAIR KIT, HARNESS TERMINAL													
	23503157	REPAIR KIT, HARNESS TERMINAL DDEC II		AR	AR	AR	AR	AR	AR	AR	AR				
	2.1758	REPAIR KIT, CONNECTOR AND SEAL HARNESS													
	23503158	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II		AR	AR	AR	AR	AR	AR	AR	AR				
	23503159	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II		AR	AR	AR	AR	AR	AR	AR	AR				
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515649	REMANUFACTURED 23515649				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515668	PRO DRIVER PETERBILT FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515669	PRO DRIVER KENWORTH FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515671	PRO DRIVER VOLVO FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23515672	PRO DRIVER FORD FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	R23516428	PRO DRIVER KENWORTH SURFACE MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT				AR	AR	AR	AR	AR	AR		AR	AR	AR
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT				AR	AR	AR	AR	AR	AR		AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 4 0	2 4 1	2 4 2	2 4 4	2 4 8	2 5 1	2 9 6	3 0 6	3 2 1	3 2 2	3 2 4	3 2 5
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
4	R3513553	MODULE, REMANUFACTURED W/OUT CAN (DDEC III)												1	1
	R6136806	MODULE, W/SHIFTED CRYSTAL (REMANUFACTURED)		AR	AR	AR	AR			AR	AR				
3	R7570049	REMANUFACTURED 7570049		1	1	1	1		AR	1	1				
3	R7570050	REMANUFACTURED 7570050										1	1		
	7570050	MODULE, W/INTEGRAL PROM (DDEC II)							1						
	2.1502	KIT, EPROM STABILIZER													
	R6171618	EPROM STABILIZER KIT		AR	AR	AR	AR		AR	AR	AR	AR	AR		
	R16171618	REMANUFACTURED 16171618		AR	AR	AR	AR		AR	AR	AR	AR	AR		
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
3	23502879	ISOLATOR, ECM MOUNT (DDEC II)		8	8	8	8			8					
3,4	23512307	ISOLATOR, ECM MOUNT							8		8	8	8	8	8
3	8929874	SPACER, ECM ISOLATOR 3.0-3.4 THK		8	8	8	8		8	8	8				
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD							4		4			4	4
3	11509513	BOLT, M8 X 1.25 X 40 MM		4	4	4	4			4					
	2.1580	CONNECTOR, PERIPHERAL													
	12040945	SEAL, CONNECTOR (5-PIN HARNESS)		AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR
	12059226	SEAL, CONNECTOR (6-PIN HARNESS)		AR	AR	AR	AR		AR	AR	AR	AR	AR	AR	AR
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1	1		1	1	1	1	2	1	1
	5101020	STRAP, NYLON (2.5255)		7	3	3	3		5		5	3	3	9	3
	11503454	BOLT, M10 X 1.5 X 20.0			1		1		1	1	1	1		1	
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1		1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1		1	1	1	1	1	1	1
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1		1	1	1	1	1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1		1	1	1	1	1	1	1

TYPES

2.1000B INJECTOR CONTROLS ELECTRONIC			2 4 0	2 4 1	2 4 2	2 4 4	2 4 8	2 5 1	2 9 6	3 0 6	3 2 1	3 2 2	3 2 4	3 2 5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.											
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE												
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III											1	
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS												1
2	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1		1	1	1	1	1	2
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S				1	1							
	23514708	SENSOR ASM COOL TEMP DDEC III											1	1
	2.1647	SENSOR, AIR TEMPERATURE												
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III												1
	2.1665	SENSOR, COOLANT LEVEL												
	23503509	SENSOR, 3/8" PROBE (2.1670)						AR		AR			AR	AR
	23503510	SENSOR, 1/4" PROBE (2.1670)						AR		AR			AR	AR
	23505264	MODULE, COOLANT LEVEL SENSOR					1							
	23505265	MODULE ASSY.						AR		AR			AR	AR
	23515238	MODULE, COOLANT LEVEL SENSOR (DDEC III VOLVO)											AR	AR
	23503508	HARNESS, WIRE (2.1670)						AR		AR			AR	AR
	23509924	HARNESS WIRE					1							
	12015323	SEAL, WIRE HARNESS						AR		AR			AR	AR
	23511474	PROBE COOLANT LEVEL SENSOR					1							
	12077412	TERMINAL METRIC PACK 280 SERIES FEM					2							
	12089040	TERMINAL, WEATHER PACK (2.6645)						AR		AR			AR	AR
	12103881	TERMINAL METRIC PACK 150 SERIES FEM					1							
	15300027	CONNECTOR METRI PACK 280 SERIES					1							
	2.1670	KIT, COOLANT LEVEL SENSOR												
		A KIT INCLUDES ALL ITEMS IN 2.1665												
	23509964	KIT, COOLANT LEVEL SENSOR 1/4"						AR		AR			AR	AR
	23511493	KIT COOLANT LEVEL SENSOR (1/4" PROBE)					1							
	23509963	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDEC						AR		AR			AR	AR

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	3	3	3	3	3
				4	4	4	4	4	5	9	0	2	2	2	2
				0	1	2	4	8	1	6	6	1	2	4	5
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	12114461	HARNESS EDU TO INJ DDEC II JAKE BRK		1					1	1					
	12114464	HARNESS EDU TO INJ									1				
	23513556	HARNESS ENG EDU TO INJ DDEC III												1	
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID													1
	8929469	HARNESS (DDEC II)			1	1	1					1	1		
	5101020	STRAP, NYLON (2.5255)							2	7	2				
	8929534	CLIP		1	1	1	1		1	1	1	1	1	1	1
	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2		2	2	2	2	2	2	2
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER		1	1	1	1		1	1	1	1	1	1	1
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23506182	HARNESS (DDEC II)											1		
	23506371	HARNESS ASM GOV PRESS SENSOR PIGTAIL			1		1					1			
	23508374	HARNESS ENG SENSOR DDECII 3WAY			1		1					1			
	23513558	HARNESS ENG SENSOR DDEC III												1	1
	8929468	HARNESS (DDEC II)		1		1			1	1	1				
	23520795	PRESSURE TRANSDUCER			1		1					1			
	12020833	CONNECTOR DDEC WIRE HARNESS			1		1					1			
	11503454	BOLT, M10 X 1.5 X 20.0											1		1
	11504986	BOLT, M8 X 1.25 X 14 MM		4	4	4	4		4	4	4	4	4		4
	11509511	BOLT, M8 X 1.25 X 20 MM												1	
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S		1											
	2.1755	KIT, REPOWER CONNECTOR AND TERMINAL													
	23502685	KIT, REPOWER CONNECTOR AND TERMINAL DDEC II							AR		AR			AR	AR
	2.1757	REPAIR KIT, HARNESS TERMINAL													
	23503157	REPAIR KIT, HARNESS TERMINAL DDEC II							AR		AR			AR	AR

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	3	3	3	3	3
				4	4	4	4	4	5	9	0	2	2	2	2
				0	1	2	4	8	1	6	6	1	2	4	5
	2.1758	REPAIR KIT, CONNECTOR AND SEAL HARNESS													
	23503158	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II							AR		AR			AR	AR
	23503159	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II							AR		AR			AR	AR
	2.1890	MINDER, ENGINE/MASTER													
	23511984	CONTROL, MASTER MINDER										1			
	23511985	CONTROL, ENGINE MINDER										1			
	23512220	KIT, MASTER/ENGINE MINDER CONNECTOR (INCLUDES CONNECTORS AND LOCKS IN 2.1890) 1										1			
	23512221	CONNECTOR ASSY, 4 PIN RECEPTACLE-DEUTSCH										1			
	23512222	CONNECTOR ASSY, 8 PIN RECEPTACLE-DEUTSCH										1			
	23512223	CONNECTOR ASSY, 8 SOCKET PLUG-DEUTSCH										1			
	23507136	SEAL PLUG, DEUTSCH										2			
	23512224	LOCK, SECONDARY 4 PIN CONNECTOR-DEUTSCH										1			
	23512225	LOCK, SECONDARY 8 PIN CONNECTOR-DEUTSCH										1			
	23512226	LOCK, SECONDARY 8 SOCKET PLUG-DEUTSCH										1			
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448		AR	AR	AR	AR			AR	AR				
	R23515649	REMANUFACTURED 23515649		AR	AR	AR	AR			AR	AR				
	R23515668	PRO DRIVER PETERBILT FLUSH MT		AR	AR	AR	AR			AR	AR	AR	AR		
	R23515669	PRO DRIVER KENWORTH FLUSH MT		AR	AR	AR	AR			AR	AR	AR	AR		
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT		AR	AR	AR	AR			AR	AR	AR	AR		
	R23515671	PRO DRIVER VOLVO FLUSH MT		AR	AR	AR	AR			AR	AR	AR	AR		
	R23515672	PRO DRIVER FORD FLUSH MT		AR	AR	AR	AR			AR	AR	AR	AR		
	R23516428	PRO DRIVER KENWORTH SURFACE MT		AR	AR	AR	AR			AR	AR	AR	AR		
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT		AR	AR	AR	AR			AR	AR				
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT		AR	AR	AR	AR			AR	AR				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3 2 8	3 4 3	3 5 2	3 5 4	3 5 7	3 5 8	3 5 9	3 6 1	3 6 5	3 7 1	3 7 5	3 8 4
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
4	R3513553	MODULE, REMANUFACTURED W/OUT CAN (DDEC III)			1	1	1	1	1	1	1			1	
3	R7570050	REMANUFACTURED 7570050		1											1
	2.1502	KIT, EPROM STABILIZER													
	R6171618	EPROM STABILIZER KIT	AR												
	R16171618	REMANUFACTURED 16171618	AR												
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
	23516935	PLATE ASM COLD ECM END MT DDEC III						1							
3	23502879	ISOLATOR, ECM MOUNT (DDEC II)			8										
3,4	23512307	ISOLATOR, ECM MOUNT		8		8	8	8	8	8	8			8	8
3	8929874	SPACER, ECM ISOLATOR 3.0-3.4 THK			8										
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4		4	4	4	4	4	4			4	
3	11504603	SCREW, M8X1.00X25.0 MM						5							2
	23513588	STUD/SPCR M8 X 1.25 SPCR LG 55.0													2
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT													
	23502894	SHIELD ASSY., ECM HEAT (DDEC II)													1
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD													4
	2.1580	CONNECTOR, PERIPHERAL													
	12040945	SEAL, CONNECTOR (5-PIN HARNESS)	AR	AR	AR	AR	AR	AR	AR	AR	AR			AR	
	12059226	SEAL, CONNECTOR (6-PIN HARNESS)	AR	AR	AR	AR	AR	AR	AR	AR	AR			AR	
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1		1	1	1	1	1	1				1
	5101020	STRAP, NYLON (2.5255)		3	3	3	7								3
	11503454	BOLT, M10 X 1.5 X 20.0		1											1
	11504986	BOLT, M8 X 1.25 X 14 MM													2
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1			1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1			1	

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
				3	3	3	3	3	3	3	3	3	3	3	3	
				2	4	5	5	5	5	6	6	7	7	8	8	
2.1000B INJECTOR CONTROLS ELECTRONIC				8	3	2	4	7	8	9	1	5	1	5	4	
2	2.1620	SENSOR, MAG. CRANKSHAFT														
	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1	1			1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1	1			1	2
2.1630																
2	23515250	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE														
		SENSOR ASSY., AIR TEMP PLSTC DDEC III				1			1	1	1	1				
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS					1	1		1		1			1	
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	2	2	2	1	2	2	2				2	2
	23514708	SENSOR ASM COOL TEMP DDEC III				1	1	1	1		1				1	
2.1665																
	23503509	SENSOR, 3/8" PROBE (2.1670)			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	23503510	SENSOR, 1/4" PROBE (2.1670)			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	23520380	SENSOR, COOLANT LEVEL 1/4"-18											1			
	23505265	MODULE ASSY.			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	23515238	MODULE, COOLANT LEVEL SENSOR (DDEC III VOLVO)				AR	AR	AR	AR	AR	AR	AR			AR	
	23503508	HARNESS, WIRE (2.1670)			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	12015323	SEAL, WIRE HARNESS			AR	AR	AR	AR	AR	AR	AR	AR	3		AR	
	12077411	TERMINAL COOLANT LEVEL SENSOR											4			
	12077412	TERMINAL METRIC PACK 280 SERIES FEM											4			
	12089040	TERMINAL, WEATHER PACK (2.6645)			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	12103881	TERMINAL METRIC PACK 150 SERIES FEM											2			
	15300014	CONNECTOR SECONDARY LOCK											1			
	15300027	CONNECTOR METRI PACK 280 SERIES											1			
2.1670																
		KIT, COOLANT LEVEL SENSOR														
		A KIT INCLUDES ALL ITEMS IN 2.1665														
	23509964	KIT, COOLANT LEVEL SENSOR 1/4"			AR	AR	AR	AR	AR	AR	AR	AR			AR	
	23515397	KIT COOLANT LVL SENSOR 1/4 NPT											1			
	23515398	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDED 3												1		
	23509963	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDEC			AR	AR	AR	AR	AR	AR	AR	AR			AR	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3 2 8	3 4 3	3 5 2	3 5 4	3 5 7	3 5 8	3 5 9	3 6 1	3 6 5	3 7 1	3 7 5	3 8 4
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR													
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	12114461	HARNESS EDU TO INJ DDEC II JAKE BRK	1						1	1					
	23513556	HARNESS ENG EDU TO INJ DDEC III									1				
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID			1	1					1			1	
	23513605	HARNESS EDU TO INJ						1							
	23513661	HARNESS EDU TO INJ DDEC III JAKE					1								
	5101020	STRAP, NYLON (2.5255)												6	
	8929534	CLIP	1	1	1	1	1	1	1	1	1			1	
	11509511	BOLT, M8 X 1.25 X 20 MM	2	2	2	2	2	2	2	2	2			2	2
	2.1702	COVER, INJECTOR HARNESS COVER													
	8929508		1	1	1	1	1	1	1	1	1			1	
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23506371	HARNESS ASM GOV PRESS SENSOR PIGTAIL	1												
	23508374	HARNESS ENG SENSOR DDECII 3WAY	1												
	23513558	HARNESS ENG SENSOR DDEC III			1	1	1		1	1	1			1	
	23513604	HARNESS ENG SENSOR						1							
	23520795	PRESSURE TRANSDUCER	1												
	12020833	CONNECTOR DDEC WIRE HARNESS	1												
	23509256	CLIP, 3/8" DIA. 7/16" BOLT						1							
	5101020	STRAP, NYLON (2.5255)						9	9	9	9			9	
	11503454	BOLT, M10 X 1.5 X 20.0			1		1	1	1		1			1	
	11504986	BOLT, M8 X 1.25 X 14 MM	4	4	4	4	4	4	4	4	4			4	
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S				1				1					
	2.1755	KIT, REPOWER CONNECTOR AND TERMINAL													
	23502685	KIT, REPOWER CONNECTOR AND TERMINAL DDEC II		AR	AR	AR	AR	AR	AR	AR	AR			AR	
	2.1757	REPAIR KIT, HARNESS TERMINAL													
	23503157	REPAIR KIT, HARNESS TERMINAL DDEC II		AR	AR	AR	AR	AR	AR	AR	AR			AR	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3 2 8	3 4 3	3 5 2	3 5 4	3 5 7	3 5 8	3 5 9	3 6 1	3 6 5	3 7 1	3 7 5	3 8 4
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1758	REPAIR KIT, CONNECTOR AND SEAL HARNESS													
	23503158	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II			AR	AR	AR	AR	AR	AR	AR			AR	
	23503159	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II			AR	AR	AR	AR	AR	AR	AR			AR	
	2.1780	BRACKET, ACTUATOR MOUNTING													
	11506101	NUT, M10 X 1.5													2
	11509526	BOLT, M10 X 1.5 X 130 MM													2
	23515936	BRACKET-THROTTLE BODY													1
	23515937	BRACKET-ACTUATOR													1
	2.1890	MINDER, ENGINE/MASTER													
	23511984	CONTROL, MASTER MINDER		1											
	23511985	CONTROL, ENGINE MINDER		1											
	23512220	KIT, MASTER/ENGINE MINDER CONNECTOR (INCLUDES CONNECTORS AND LOCKS IN 2.1890)		1											
	23512221	CONNECTOR ASSY, 4 PIN RECEPTACLE-DEUTSCH		1											
	23512222	CONNECTOR ASSY, 8 PIN RECEPTACLE-DEUTSCH		1											
	23512223	CONNECTOR ASSY, 8 SOCKET PLUG-DEUTSCH		1											
	23507136	SEAL PLUG, DEUTSCH		1											
	23512224	LOCK, SECONDARY 4 PIN CONNECTOR-DEUTSCH		1											
	23512225	LOCK, SECONDARY 8 PIN CONNECTOR-DEUTSCH		1											
	23512226	LOCK, SECONDARY 8 SOCKET PLUG-DEUTSCH		1											
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515668	PRO DRIVER PETERBILT FLUSH MT		AR											
	R23515669	PRO DRIVER KENWORTH FLUSH MT		AR											
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT		AR											
	R23515671	PRO DRIVER VOLVO FLUSH MT		AR											
	R23515672	PRO DRIVER FORD FLUSH MT		AR											
	R23516428	PRO DRIVER KENWORTH SURFACE MT		AR											

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2.1000B INJECTOR CONTROLS ELECTRONIC											
				3 8 7	3 9 4	3 9 5	4 0 4	4 9 4	4 9 7	4 9 8	5 0 0	5 0 2	5 0 4	5 0 7	5 1 0
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
4	R23518645	MODULE, REMANUFACTURED DDEC III								1				1	1
	R3513553	MODULE, REMANUFACTURED W/OUT CAN (DDEC III)		1	1	1			1		1	1	1		
	R3516923	MODULE REMANUFACTURED ELEC CNT INJ DRV&CANCHIP					1								
	23514772	LABEL DDC ELECTRONIC CONT			1	1		1							1
	R23513553	MODULE, REMANUFACTURED W/PROM						1							
	12040542	COVER ECM TERMINAL PROTECTION						1		1				1	1
	23513607	COVER COMMUNICATION PROTECTION DDEC III						1		1				1	1
	23513608	COVER POWER CONN PROTECTION DDEC III						1		1				1	1
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
3	23503565	PLATE, RETAINER			1	1		1							11
	23516935	PLATE ASM COLD ECM END MT DDEC III		1	1	1		1				1	1		1
3,4	23512307	ISOLATOR, ECM MOUNT		8	8	8	8	8	8	8	8	8	8	8	8
3	23504641	SEAL, FUEL FITTING BLOCK			2	2		2							2
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD			4	4	4		4	4	4	4		4	4
	23514201	BLOCK			1	1		1							1
	23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7		4				4					4		
3	11504603	SCREW, M8X1.00X25.0 MM		5	5	5		5			5	5			5
	23514656	BOLT,M6X1.00X30.00			2	2		2							2
4	23514934	BOLT M8X1.25 SHOULDER 12 PT HD		4				4					4		
	2.1580	CONNECTOR, PERIPHERAL													
	12040945	SEAL, CONNECTOR (5-PIN HARNESS)	AR						AR		AR	AR	AR		
	12059226	SEAL, CONNECTOR (6-PIN HARNESS)	AR						AR		AR	AR	AR		
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE			1	1	1	1	1	1	1	1		1	1
	5101020	STRAP, NYLON (2.5255)		3	8	8	3	9	9	9	16	3	3	9	9
	11503454	BOLT, M10 X 1.5 X 20.0			1	1	1	1	1			1		1	1
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	2	1		1	1	1		

				TYPES											
2.1000B INJECTOR CONTROLS ELECTRONIC				3	3	3	4	4	4	4	5	5	5	5	5
				8	9	9	0	9	9	9	0	0	0	0	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	4	5	4	4	7	8	0	2	4	7	0
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1	1	1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1		1	2	1	1	1	2	2
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	1	1	1	1	1	1	1	1	1	1	1
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS					1		1		1				
2	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1	1	1	1	1	1	1	1	1
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S								1					
	23514708	SENSOR ASM COOL TEMP DDEC III		1	1	1				1		1	1	1	1
	2.1665	SENSOR, COOLANT LEVEL													
		A KIT INCLUDES ALL ITEMS IN 2.1665													
	23503509	SENSOR, 3/8" PROBE (2.1670)	AR						AR		AR	AR	AR		
	23503510	SENSOR, 1/4" PROBE (2.1670)	AR						AR		AR	AR	AR		
	23514708	SENSOR ASM COOL TEMP DDEC III					1								
	23505265	MODULE ASSY.	AR						AR		AR	AR	AR		
	23515238	MODULE, COOLANT LEVEL SENSOR (DDEC III VOLVO)	AR				AR		AR	AR	AR	AR	AR	AR	AR
	23503508	HARNESS, WIRE (2.1670)	AR						AR		AR	AR	AR		
	12015323	SEAL, WIRE HARNESS	AR						AR		AR	AR	AR		
	12089040	TERMINAL, WEATHER PACK (2.6645)	AR						AR		AR	AR	AR		
	2.1670	KIT, COOLANT LEVEL SENSOR													
		A KIT INCLUDES ALL ITEMS IN 2.1665													
	23509964	KIT, COOLANT LEVEL SENSOR 1/4"	AR						AR		AR	AR	AR		
	23509963	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDEC	AR						AR		AR	AR	AR		
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR													
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	23513605	HARNESS EDU TO INJ	1												
	23513661	HARNESS EDU TO INJ DDEC III JAKE					1								
	5101020	STRAP, NYLON (2.5255)				3									
	8929534	CLIP		1	1	1	1	1	1	1	1	1	1	1	1
	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	2	2	2	2	2
	23515763	HARNESS EDU TO INJ DDEC III JAKEBRKS			1	1		1							

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	3	3	4	4	4	4	5	5	5	5	5
				8	9	9	0	9	9	9	0	0	0	0	1
				7	4	5	4	4	7	8	0	2	4	7	0
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER		1	1	1	1	1	1	1	1	1	1	1	1
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23513558	HARNESS ENG SENSOR DDEC III					1		1	1	1				
	23513604	HARNESS ENG SENSOR		1	1	1		1				1	1		
	23515332	HARNESS ENG SENSOR DDEC 3 EXT LG INDST													1
	23518400	HARNESS ENG SENSOR OI DDEC III S60												1	
	23509256	CLIP, 3/8" DIA. 7/16" BOLT		1	1	1		1				1	1		1
	11503454	BOLT, M10 X 1.5 X 20.0		1					1		1	1	1		
	11504986	BOLT, M8 X 1.25 X 14 MM		4	4	4	4	4	4	3		4	4	3	4
	11509511	BOLT, M8 X 1.25 X 20 MM			1	1		1		1				1	1
	2.1755	KIT, REPOWER CONNECTOR AND TERMINAL													
	23502685	KIT, REPOWER CONNECTOR AND TERMINAL DDEC II		AR					AR		AR	AR	AR		
	2.1757	REPAIR KIT, HARNESS TERMINAL													
	23503157	REPAIR KIT, HARNESS TERMINAL DDEC II		AR					AR		AR	AR	AR		
	2.1758	REPAIR KIT, CONNECTOR AND SEAL HARNESS													
	23503158	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II		AR					AR		AR	AR	AR		
	23503159	REPAIR KIT, CONNECTOR AND SEAL HARNESS DDEC II		AR					AR		AR	AR	AR		
	2.1810	TERMINAL RING TYPE													
	12089891	TERMINAL JAKE SOLENOID						1							

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	3	3	4	4	4	4	5	5	5	5	5
				8	9	9	0	9	9	9	0	0	0	0	1
				7	4	5	4	4	7	8	0	2	4	7	0
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448						AR		AR				AR	AR
	R23515649	REMANUFACTURED 23515649						AR		AR				AR	AR
	R23515668	PRO DRIVER PETERBILT FLUSH MT						AR		AR				AR	AR
	R23515669	PRO DRIVER KENWORTH FLUSH MT						AR		AR				AR	AR
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT						AR		AR				AR	AR
	R23515671	PRO DRIVER VOLVO FLUSH MT						AR		AR				AR	AR
	R23515672	PRO DRIVER FORD FLUSH MT						AR		AR				AR	AR
	R23516428	PRO DRIVER KENWORTH SURFACE MT						AR		AR				AR	AR
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT						AR		AR				AR	AR
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT						AR		AR				AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 1 1	5 1 3	5 1 4	5 2 2	5 2 3	5 2 4	5 6 8	5 8 0	5 9 4	5 9 9	6 0 4	6 1 4
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
	R23518645	MODULE, REMANUFACTURED DDEC III		1	1		1	1	1		1	1	1		
	R23518743	MODULE, REMANUFACTURED DDEC III								1					
	23518523	MODULE ELC CONT DDEC III SRS/TRS												1	
	23518645	MODULE ELEC CONT A02 DDEC III				1									1
	23514772	LABEL DDC ELECTRONIC CONT					1		1						
	12040542	COVER ECM TERMINAL PROTECTION		1	1		1	1	1	1	1	1	1		1
	23513607	COVER COMMUNICATION PROTECTION DDEC III		1	1		1	1	1	1	1	1	1		1
	23513608	COVER POWER CONN PROTECTION DDEC III		1	1		1	1	1	1	1	1	1		1
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
3	23503565	PLATE, RETAINER					1		1						
	23516934	PLATE COLD ECM END MOUNT DDEC III							1						
	23516935	PLATE ASM COLD ECM END MT DDEC III					1		1						1
3,4	23512307	ISOLATOR, ECM MOUNT		8	8	8	8	8	8	8	8	8	8	8	8
3	23504641	SEAL, FUEL FITTING BLOCK					2		2						
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4	4	4	4		4	4	4	4	4	4
	23514201	BLOCK					1		1						
	23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7							4						
3	11504603	SCREW, M8X1.00X25.0 MM					5		5					4	5
	23514656	BOLT, M6X1.00X30.00					2		2						
4	23514934	BOLT M8X1.25 SHOULDER 12 PT HD							4						
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT													
	23513858	SHIELD ASSY., ECM HEAT (DDEC III)												2	
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1	1	1	1	1	1	1	1	1	1
	5101020	STRAP, NYLON (2.5255)		16	9	9	9	16	9	9	9	7	9	9	9
	11503454	BOLT, M10 X 1.5 X 20.0		1	1		1	1	1	1	1	1		1	1
	11504986	BOLT, M8 X 1.25 X 14 MM								1					
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM			1	1	4	1	1	1	1	1	1	4	1

[illegible]

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 1 1	5 1 3	5 1 4	5 2 2	5 2 3	5 2 4	5 6 8	5 8 0	5 9 4	5 9 9	6 0 4	6 1 4
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23513558	HARNESS ENG SENSOR DDEC III			1	1		1		1					
	23513604	HARNESS ENG SENSOR					1		1						
	23518400	HARNESS ENG SENSOR OI DDEC III S80		1							1	1	1		1
	23519889	HARNESS SENSOR WIRING DDECIII S80G												1	
	23519890	HARNESS IGNITION COIL S80G												1	
	23509256	CLIP, 3/8" DIA. 7/16" BOLT							1						
	11504986	BOLT, M8 X 1.25 X 14 MM		3		3		3	4	4	3	3	3		4
	11509511	BOLT, M8 X 1.25 X 20 MM				1			1		1				
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515649	REMANUFACTURED 23515649	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515668	PRO DRIVER PETERBILT FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515669	PRO DRIVER KENWORTH FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515671	PRO DRIVER VOLVO FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23515672	PRO DRIVER FORD FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	R23516428	PRO DRIVER KENWORTH SURFACE MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT	AR			AR	AR	AR	AR	AR	AR	AR	AR	AR	
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR			AR	AR	AR	AR		AR	AR	AR		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	6	6	6	6	6	6	6	6	6	6	6
				1	1	2	5	6	7	7	7	8	8	8	8
		2.1000B INJECTOR CONTROLS ELECTRONIC		7	8	2	8	0	5	6	7	1	2	4	5
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
	R23518645	MODULE, REMANUFACTURED DDEC III			1	1	1	1	AR	1			AR	AR	
	R23518743	MODULE, REMANUFACTURED DDEC III													
	R23519307	ELEC CONT MODULE DDEC IV 6 CYL-12V (MSTR)												1	1
	23518645	MODULE ELEC CONT A02 DDEC III							1						
	23518743	(R) MODULE, ELEC CNT 8 INJ DRV&CANHI DDEC3	1												
	23514772	LABEL DDC ELECTRONIC CONT						1	1	1					
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD					4			4					
	23512307	ISOLATOR, ECM MOUNT					8			8					
	12040542	COVER ECM TERMINAL PROTECTION	1	1	1					1		1	1	1	1
	23513607	COVER COMMUNICATION PROTECTION DDEC III	1	1						1		1	1	1	1
	23513608	COVER POWER CONN PROTECTION DDEC III	1	1						1		1	1	1	1
	2.1507	BRACKET, ELECTRONIC CONTROL MODULE													
	23521938	BRACKET, DDEC III RR MT							1	1					
	11509528	BOLT, M12 X 1.75 X 30 MM							2	2					
	2.1512	MODULE, BOAT BUILDER INTERFACE													
	23519565	MODULE ASM ECM-MIM SINGLE 6V-8V92TA DDEC3							1	1					
	2.1514	BRACKET, BOAT BUILDER INTERFACE MODULE													
	23521246	BRACKET MIN MTG (MAR INTERFACE MODULE) S							1	1					
	11504986	BOLT, M8 X 1.25 X 14 MM								4					
	11505299	BOLT, M10 X 1.5 X 30.0 MM							2	1					
	23518117	ISOLATOR ASSY., EMIM MOUNT							4	4					
	23518765	LOCKWASHER, 5/16 INT TOOTH STL ZINC							8	8					
	23518766	NUT, 1/4-20 HEX FLG SERRATED							8	8					

				TYPES											
2.1000B INJECTOR CONTROLS ELECTRONIC				6 1 7	6 1 8	6 2 2	6 5 8	6 6 0	6 7 5	6 7 6	6 7 7	6 8 1	6 8 2	6 8 4	6 8 5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
	23516935	PLATE ASM COLD ECM END MT DDEC III			1			1							
3,4	23512307	ISOLATOR, ECM MOUNT		8	8			8	8			8	8	8	8
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4			4	4			4	4	4	4
	23518124	BRACKET, DDECIII						1							
3	11504603	SCREW, M8X1.00X25.0 MM			5			5							
	11509528	BOLT, M12 X 1.75 X 30 MM						2							
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT													
	23513858	SHIELD ASSY., ECM HEAT (DDEC III)					2	1							
	11504986	BOLT, M8 X 1.25 X 14 MM					4								
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1	1	1	1	1		1	1	1	1
	5101020	STRAP, NYLON (2.5255)		9	9	9	16	5	5	5		9	9	9	9
	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1	1	1	1			1	1	1	1
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1		1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	2	2		1	1			1	1	1
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1		1	1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1		2	1	1			1	1	1
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS		1			1								
	23514708	SENSOR ASM COOL TEMP DDEC III			1	1		1	1	1		1	1		1
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1	1	1	1		1	1	1	1
	2.1647	SENSOR, AIR TEMPERATURE													
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	1	1	1	1	1	1		1	1	1	1
	2.1665	SENSOR, COOLANT LEVEL													
	23514708	SENSOR ASM COOL TEMP DDEC III												1	
	23515238	MODULE, COOLANT LEVEL SENSOR (DDEC III VOLVO)					AR	AR				AR	AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 1 7	6 1 8	6 2 2	6 5 8	6 6 0	6 7 5	6 7 6	6 7 7	6 8 1	6 8 2	6 8 4	6 8 5
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1670	KIT, COOLANT LEVEL SENSOR													
	23521848	A KIT INCLUDES ALL ITEMS IN 2.1665 KIT COOLANT LVL SENSOR 1/4 NPT									AR				
	2.1690	HARNESS, ECM BOAT BUILDER INTERFACE MODULE													
	23521500	HARNESS ASSY ECM-EMIM DDEC III PORT MARINE S								1					
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)								2					
	11504986	BOLT, M8 X 1.25 X 14 MM								2					
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR													
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	23513557	HARNESS EDU TO INJ DDEC3 SPADE TERM JAKE SOLENOID				1									
	8929534	CLIP		1	1	1	1	1	1	1	1	1	1	1	1
	11509511	BOLT, M8 X 1.25 X 20 MM		3	2		2		2						
	23515332	HARNESS ENG SENSOR DDEC 3 EXT LG INDST		1											
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER		1	1	1	1	1	1	1	1	1	1	1	1
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23513558	HARNESS ENG SENSOR DDEC III				1	1					1			1
	23513604	HARNESS ENG SENSOR						1	1						
	23518400	HARNESS ENG SENSOR OI DDEC III S60		1		1					1		1		
	23521536	HARNESS ASSY WRG ENG SENSOR DDEC III PORT MA								1					
	23509256	CLIP, 3/8" DIA. 7/16" BOLT			1										
	8929534	CLIP							1						
	11504986	BOLT, M8 X 1.25 X 14 MM		4	4	3		4	4				3		
	11509511	BOLT, M8 X 1.25 X 20 MM				1			2						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	6	6	6	6	6	6	6	6	6	6	6
				1	1	2	5	6	7	7	7	8	8	8	8
				7	8	2	8	0	5	6	7	1	2	4	5
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515649	REMANUFACTURED 23515649		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515668	PRO DRIVER PETERBILT FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515669	PRO DRIVER KENWORTH FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515671	PRO DRIVER VOLVO FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23515672	PRO DRIVER FORD FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	R23516428	PRO DRIVER KENWORTH SURFACE MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT		AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				6 8 6	6 8 7	6 8 8	6 9 0	6 9 1	6 9 3	6 9 5	6 9 7	6 9 9	7 0 1	7 0 2	7 0 7
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
	R23519307	ELEC CONT MODULE DDEC IV 6 CYL-12V (MSTR		1	1	1	1	1		1	1	1		1	
	R23519308	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV							1				1		1
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4	4	4		4	4	4	4	4	4	4
	23512307	ISOLATOR, ECM MOUNT		8	8	8	8		8	8	8	8	8	8	8
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
3,4	23512307	ISOLATOR, ECM MOUNT					8								
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD					4								
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT													
	23513858	SHIELD ASSY., ECM HEAT (DDEC III)						2							
	11504986	BOLT, M8 X 1.25 X 14 MM						4							
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1	1	1			1	1	1	1	
	5101020	STRAP, NYLON (2.5255)		9		9						9	9	9	9
	11503454	BOLT, M10 X 1.5 X 20.0				1		1				1	1		
	8923847	PLUG, PIPE 1/4-18" NPTF													1
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	3	1	1	1	1	4	3	3		2	4
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1	1	1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	2	1	1	1	1	1	2	2	2		1
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS					1	1	1				1		
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S												1	
	23514708	SENSOR ASM COOL TEMP DDEC III		1	1	1				1	1	1		1	1
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	6	6	6	6	6	6	6	7	7	7	
				8	8	8	9	9	9	9	9	0	0	0	
		2.1000B INJECTOR CONTROLS ELECTRONIC		6	7	8	0	1	3	5	7	9	1	2	7
	2.1647	SENSOR, AIR TEMPERATURE													
	11503454	BOLT, M10 X 1.5 X 20.0								1					1
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	1	1	1	1	1	1	1	1	1	1	1
	2.1650	SENSOR, AIR PRESSURE													
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV				1		1	1		1	1	1	1	
	5182977	RING, SEAL (3.3055)				1		1	1		1	1	1	1	
	23522719	BOLT M5 0.8 X 20.0 LG HEX HD				2		2	2		2	2	2	2	
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR													
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	5101020	STRAP, NYLON (2.5255)							16				7		
	8929534	CLIP				1		1				1	1	1	1
	11509511	BOLT, M8 X 1.25 X 20 MM				2		2				2	2	2	2
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER		1	1	1	1	1	1	1	1	1	1	1	1
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23513558	HARNESS ENG SENSOR DDEC III		1			1			1					1
	23518400	HARNESS ENG SENSOR OI DDEC III S60			1										
	23522323	HARNESS ENG SENSOR DDEC IV				1		1	1				1	1	
	23522325	HARNESS, ENGINE SENSOR DDEC IV									1	1			
	5101020	STRAP, NYLON (2.5255)			9		16	16		9	9				
	8929534	CLIP		1	1		1	1	1	1	1				
	11503454	BOLT, M10 X 1.5 X 20.0					1	1							
	11509511	BOLT, M8 X 1.25 X 20 MM			2		2		2	2	2				
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S		1	1						1				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6	6	6	6	6	6	6	6	7	7	7	
				8	8	8	9	9	9	9	9	0	0	0	
				6	7	8	0	1	3	5	7	9	1	2	7
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515649	REMANUFACTURED 23515649		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515668	PRO DRIVER PETERBILT FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515669	PRO DRIVER KENWORTH FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515671	PRO DRIVER VOLVO FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23515672	PRO DRIVER FORD FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	R23516428	PRO DRIVER KENWORTH SURFACE MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT		AR	AR		AR		AR	AR	AR	AR	AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 1 1	7 1 3	7 2 0	7 4 7	7 5 0	7 5 8	7 7 1	7 7 5	7 8 7	7 8 9	7 9 6	7 9 8
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
	R23518743	MODULE, REMANUFACTURED DDEC III				1									
	R23519307	ELEC CONT MODULE DDEC IV 6 CYL-12V (MSTR						1							
	R23519308	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV		1						1	1	1	1		
	23519308	(R) MODULE, ELEC CONTROL DDEC IV			1										
	23519310	ECM DDECIV (MASTER/RECEIVER) NATURAL GAS					1	1							
	23514772	LABEL DDC ELECTRONIC CONT				1					1	1	1		
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4			4	4	4	4	4	4		
	23512307	ISOLATOR, ECM MOUNT		8	8			8	8	8	8	8	8		
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
	23516935	PLATE ASM COLD ECM END MT DDEC III									1	1	1		
3,4	23512307	ISOLATOR, ECM MOUNT				8	8	8							
3,4	23512309	BOLT M8 1.25 SHOULDER 12 PT HD				4	4	4							
	23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7												4	
3	11504603	SCREW, M8X1.00X25.0 MM					4				5	5	5		
4	23514934	BOLT M8X1.25 SHOULDER 12 PT HD												4	
	23515341	STUD/SPCR M8X1.25 SPCR LG 25.0 ECM					4								
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT													
	23513858	SHIELD ASSY., ECM HEAT (DDEC III)					2								
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1	1	1	1		1	1	1		
	5101020	STRAP, NYLON (2.5255)		9					2						
	11503454	BOLT, M10 X 1.5 X 20.0		1	1						1	1			
	8923847	PLUG, PIPE 1/4-18" NPTF								1					
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1	1	1	1	
	11504986	BOLT, M8 X 1.25 X 14 MM		3	1	1	1	1	1		1	1	1		
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1	1	1	1	
2	11504986	BOLT, M8 X 1.25 X 14 MM		3	1	1	1	1	1	1	1	1	1	1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7	7	7	7	7	7	7	7	7	7	7	7
				1	1	2	4	5	5	7	7	8	8	9	9
		2.1000B INJECTOR CONTROLS ELECTRONIC		1	3	0	7	0	8	1	5	7	9	6	8
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III				1									
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS		1			1								
	23514708	SENSOR ASM COOL TEMP DDEC III			1	1		1		1	1	1			
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1		1	1	1	1	1		1	1
	2.1647	SENSOR, AIR TEMPERATURE													
	23521882	SENSOR EXHAUST TEMP					1								
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	1		2	1	2	1	1	1	1		
	2.1648	SENSOR ASSY., KNOCK													
	23516987	SENSOR ASSY., KNOCK					1		1						
	23517855	TUBE, CONVOLUTED .6MM DIA X 10L W/SLIT					1								
	2.1650	SENSOR, AIR PRESSURE													
	16009886	SENSOR PRESS DELCO					1								
	23515934	SENSOR BOOST PRESSURE					1		1						
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV		1	1			1		1	1	1	1		
	5182977	RING, SEAL (3.3055)		1	1			1		1	1	1	1		
	23520425	HOSE .12ID X 18.00 SAE 30R2 TYPE I VACUUM					1								
	11504972	BOLT, M6 X 1.00 X 30 MM					2								
	23522719	BOLT M5 0.8 X 20.0 LG HEX HD		2	2			2		2	2	2	2		
	2.1655	MODULE, SIGNAL NOISE ENHANCEMENT													
	23516988	MODULE, SIGNAL NOISE ENHANCEMENT					1		1						
	23517272	SCREW ASSY., M6 X 1 X 12					4		4						
	2.1656	BRACKET, SNEF MODULE MOUNTING													
	23516989	BRACKET, SNEF MODULE MOUNTING S50G					1		1						
	11504972	BOLT, M6 X 1.00 X 30 MM					3								
	11505299	BOLT, M10 X 1.5 X 30.0 MM					2		2						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 1 1	7 1 3	7 2 0	7 4 7	7 5 0	7 5 8	7 7 1	7 7 5	7 8 7	7 8 9	7 9 6	7 9 8
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1671	SENSOR, OXYGEN													
	23523708	KIT OXYGEN SENSOR W/RESISTOR CAL				1									
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR													
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).													
	5101020	STRAP, NYLON (2.5255)		7	9					9	9	9			
	8929534	CLIP		1	1	1	1			1	1	1			
	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2				2	2			
	2.1702	COVER, INJECTOR HARNESS COVER													
	8929508			1	1	1		1	1	1	1	1	1		
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23522154	HARNESS, ENGINE SENSORS DDEC IV					1								
	23512192	HARNESS ASSY.PIGTAIL EMIM TO MAR GEAR												1	1
	23513604	HARNESS ENG SENSOR				1									
	23519889	HARNESS SENSOR WIRING DDECIII S60G							1						
	23522323	HARNESS ENG SENSOR DDEC IV			1					1					
	23522325	HARNESS, ENGINE SENSOR DDEC IV		1											
	23523866	HARNESS, ENGINE SENSORS DDEC IV					1								
	23524280	HARNESS ASSY.,ENGINE SENSOR									1		1		
	23524284	HARNESS ASSY., ENG SENSOR W/PWM CON										1			
	23520795	PRESSURE TRANSDUCER					1							1	1
	23509256	CLIP, 3/8" DIA. 7/16" BOLT											1		
	23521885	BRACKET SENSOR AL 2 HOLES					1								
	5101020	STRAP, NYLON (2.5255)				9	1	14					9		
	8929534	CLIP											1		
	11503454	BOLT, M10 X 1.5 X 20.0				1		1	1	1			1		
	11504986	BOLT, M8 X 1.25 X 14 MM				4	4		4	4	4	4	4		
	11509511	BOLT, M8 X 1.25 X 20 MM							2	2					
	11509528	BOLT, M12 X 1.75 X 30 MM					2						3		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7	7	7	7	7	7	7	7	7	7	7	7
				1	1	2	4	5	5	7	7	8	8	9	9
		2.1000B INJECTOR CONTROLS ELECTRONIC		1	3	0	7	0	8	1	5	7	9	6	8
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448	AR	AR					AR	AR	AR	AR	AR		
	R23515649	REMANUFACTURED 23515649	AR	AR					AR	AR	AR	AR	AR		
	R23515668	PRO DRIVER PETERBILT FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	R23515669	PRO DRIVER KENWORTH FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	R23515671	PRO DRIVER VOLVO FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	R23515672	PRO DRIVER FORD FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	R23516428	PRO DRIVER KENWORTH SURFACE MT	AR	AR					AR	AR	AR	AR	AR		
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT	AR	AR					AR	AR	AR	AR	AR		
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR	AR					AR	AR	AR	AR	AR		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 0 0	8 0 1	8 0 2	8 0 4	8 0 5	8 0 6	8 1 1	8 1 2	8 1 3	8 1 5	8 1 6	8 1 8
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)													
	R23518743	MODULE,REMANUFACTURED DDEC III											1		1
	R23519307	ELEC CONT MODULE DDEC IV 6 CYL-12V (MSTR					1	1	1	1		1			
	R23519308	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV		1	1	1					1			1	
	23514772	LABEL DDC ELECTRONIC CONT				1							1	1	
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4	4	4	4	4	4	4	4	4	4	4
	23512307	ISOLATOR, ECM-MOUNT		8	8	8	8	8	8	8	8	8	8	8	8
	2.1507	BRACKET, ELECTRONIC CONTROL MODULE													
	23521938	BRACKET, DDEC III RR MT													1
	11509528	BOLT, M12 X 1.75 X 30 MM													2
	2.1512	MODULE, BOAT BUILDER INTERFACE													
	23519565	MODULE ASM ECM-MIM SINGLE 6V-8V92TA DDEC3		1	1										1
	2.1514	BRACKET, BOAT BUILDER INTERFACE MODULE													
	23509175	BRACKET COLLECTOR SUPT			1										
	23521246	BRACKET MIN MTG (MAR INTERFACE MODULE) S													1
	23523459	BRACKET, MIM ECM MOUNT		1	1										
	23525141	BRACKET, STBD MIMM SUPPORT		1											
	11505299	BOLT, M10 X 1.5 X 30.0 MM													2
	23518117	ISOLATOR ASSY., EMIM MOUNT		4	4										4
	23518765	LOCKWASHER, 5/16 INT TOOTH STL ZINC		8	8										8
	23518766	NUT, 1/4-20 HEX FLG SERRATED		8	8										8
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD													
	23516935	PLATE ASM COLD ECM END MT DDEC III				1							1	1	
	23525178	BRACKET, (ECM MOUNT)		1	1										
3	11504603	SCREW, M8X1.00X25.0 MM				5							5	5	
	11509528	BOLT, M12 X 1.75 X 30 MM		2	2										
	2.1600	SENSOR, OIL OR FUEL PRESSURE													
2	23511176	SENSOR, OIL/FUEL, PRESSURE		1	1	1	1	1	1	1	1	1	1	1	1

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 0 0	8 0 1	8 0 2	8 0 4	8 0 5	8 0 6	8 1 1	8 1 2	8 1 3	8 1 5	8 1 6	8 1 8
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1610	SENSOR, MAG. IDLER													
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1	1	1	1	1
	2.1620	SENSOR, MAG. CRANKSHAFT													
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1	1	1	1	1	1
2	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	1	1	1	1	1	1	1	1
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE													
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS		1	1	1	1	1	1	1	1	1	1	1	1
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1	1	1	1	1	1	1	1	1
	2.1647	SENSOR, AIR TEMPERATURE													
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	1	1	1	1	1	1	1	1	1	1	1
	2.1650	SENSOR, AIR PRESSURE													
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV				1	1	1	1	1	1	1		1	
	5182977	RING, SEAL (3.3055)				1	1	1	1	1	1	1		1	
	23522719	BOLT M5 0.8 X 20.0 LG HEX HD				2	2	2	2	2	2	2		2	
	2.1665	SENSOR, COOLANT LEVEL													
	23519175	SENSOR ASSY., 1/4" OPTICAL CLS													1
	2.1690	HARNESS, ECM BOAT BUILDER INTERFACE MODULE													
	23521500	HARNESS ASSY ECM-EMIM DDEC III PORT MARINE S													1
	23525135	HARNESS, ECM/EMIM STBD	1												
	23525136	HARNESS, ECM/EMIM PORT			1										
	23509135	CLIP, SPRING .490" DIA 3/8" BOLT (4.6040)			2										
	23509136	CLIP, .640" DIA. 3/8" BOLT (2.5146)			2										
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2												2
	11504986	BOLT, M8 X 1.25 X 14 MM	2	2											2
	2.1702	COVER, INJECTOR HARNESS													
	8929508	COVER		1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 0 0	8 0 1	8 0 2	8 0 4	8 0 5	8 0 6	8 1 1	8 1 2	8 1 3	8 1 5	8 1 6	8 1 8
		2.1000B INJECTOR CONTROLS ELECTRONIC													
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT													
	23513604	HARNESS ENG SENSOR											1		
	23521536	HARNESS ASSY WRG ENG SENSOR DDEC III PORT MA													1
	23522323	HARNESS ENG SENSOR DDEC IV					1				1	1			
	23522325	HARNESS, ENGINE SENSOR DDEC IV						1	1						
	23523866	HARNESS, ENGINE SENSORS DDEC IV								1					
	23524280	HARNESS ASSY.,ENGINE SENSOR				1									
	23524284	HARNESS ASSY., ENG SENSOR W/PWM CON												1	
	23525236	HARNESS, ENGINE SENSOR	1	1											
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2	2											
	5101020	STRAP, NYLON (2.5255)	12	11	9	16	16	9	14	16	9	9	9	9	5
	8929534	CLIP	1	1	1	1	1	1	1	1	1	1	1	1	1
	11503454	BOLT, M10 X 1.5 X 20.0			1	1	1		1	1		1	1	1	
	11504986	BOLT, M8 X 1.25 X 14 MM	4	4	4		3	3					4	4	4
	11509511	BOLT, M8 X 1.25 X 20 MM	2	2	2	2	2	2	2	2	2	2	2	2	
	23509161	BOLT, M10 X 1.5 X 20.0 FLG HEADED S						1				1			
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM													
	R23515448	REMANUFACTURED 23515448	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515649	REMANUFACTURED 23515649	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515668	PRO DRIVER PETERBILT FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515669	PRO DRIVER KENWORTH FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515671	PRO DRIVER VOLVO FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23515672	PRO DRIVER FORD FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	R23516428	PRO DRIVER KENWORTH SURFACE MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR	AR	AR	AR	AR	AR	AR		AR	AR	AR	AR	AR

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES														
				8	8	8	8	8	8	8								
				1	2	2	2	2	2	3								
		2.1000B INJECTOR CONTROLS ELECTRONIC		9	0	2	4	7	8	7								
		FOR OPTION # 841, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06N04 6167																
	2.1501	MODULE ASSY., ELECTRONIC CONTROL (ECM)																
	R23518743	MODULE, REMANUFACTURED DDEC III				1												
	R23519308	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV		1			1		1									
	R23519310	ECM DDEC IV (MASTER/RECEIVER) NATURAL GAS						1										
	23519308	(R) MODULE, ELEC CONTROL DDEC IV								1								
	23519310	ECM DDECIV (MASTER/RECEIVER) NATURAL GAS			1													
	23514772	LABEL DDC ELECTRONIC CONT							1	1								
	23512309	BOLT M8 1.25 SHOULDER 12 PT HD		4	4	4	4	4		4								
	23514934	BOLT M8X1.25 SHOULDER 12 PT HD							4									
	23512307	ISOLATOR, ECM MOUNT		8	8	8	8	8	8	8								
	23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7							4									
	2.1507	BRACKET, ELECTRONIC CONTROL MODULE																
	23521938	BRACKET, DDEC III RR MT				1												
	11509528	BOLT, M12 X 1.75 X 30 MM			2													
	2.1512	MODULE, BOAT BUILDER INTERFACE																
	23519565	MODULE ASM ECM-MIM SINGLE 6V-8V92TA DDEC3				1												
	2.1514	BRACKET, BOAT BUILDER INTERFACE MODULE																
	23521246	BRACKET MIN MTG (MAR INTERFACE MODULE) S				1												
	11505299	BOLT, M10 X 1.5 X 30.0 MM				2												
	23518117	ISOLATOR ASSY., EMIM MOUNT				4												
	23518765	LOCKWASHER, 5/16 INT TOOTH STL ZINC				8												
	23518766	NUT, 1/4-20 HEX FLG SERRATED				8												

				TYPES															
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	8 1 9	8 2 0	8 2 2	8 2 4	8 2 7	8 2 8	8 3 7									
		2.1000B INJECTOR CONTROLS ELECTRONIC																	
	2.1520	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD																	
	23516935	PLATE ASM COLD ECM END MT DDEC III							1	1									
3	11504603	SCREW, M8X1.00X25.0 MM							5	5									
	2.1525	SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR HEAT																	
	23513858	SHIELD ASSY., ECM HEAT (DDEC III)						2											
	11504603	SCREW, M8X1.00X25.0 MM						4											
	2.1600	SENSOR, OIL OR FUEL PRESSURE																	
2	23511176	SENSOR, OIL/FUEL PRESSURE			1	1	1	1	1	1									
	11503454	BOLT, M10 X 1.5 X 20.0								1									
	8923847	PLUG, PIPE 1/4-18" NPTF		1				1											
	2.1610	SENSOR, MAG. IDLER																	
2	8929387	SENSOR (SRS) (INCLUDES 1-8928652 SEAL RING)		1	1	1	1	1	1	1									
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1	1	3	2	1									
	2.1620	SENSOR, MAG. CRANKSHAFT																	
2	8929388	SENSOR (TRS) (INCLUDES 2-8928652 SEAL RINGS)		1	1	1	1	1	1	1									
2	11504986	BOLT, M8 X 1.25 X 14 MM			1	1	1	2		1									
	2.1630	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE																	
	23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS		1	1	1	1	1	1	1									
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1			1									
	2.1647	SENSOR, AIR TEMPERATURE																	
	23521882	SENSOR EXHAUST TEMP						1											
	23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III		1	2	1	1	2	1	1									
	2.1648	SENSOR ASSY., KNOCK																	
	23516987	SENSOR ASSY., KNOCK			1			1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES														
				8 1 9	8 2 0	8 2 2	8 2 4	8 2 7	8 2 8	8 3 7								
		2.1000B INJECTOR CONTROLS ELECTRONIC																
	2.1650	SENSOR, AIR PRESSURE																
	16009886	SENSOR PRESS DELCO						1										
	23515934	SENSOR BOOST PRESSURE			1			1										
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV		1			1		1	1								
	5182977	RING, SEAL (3.3055)		1			1		1	1								
	23520425	HOSE .12ID X 18.00 SAE 30R2 TYPE I VACUUM						1										
	11504972	BOLT, M6 X 1.00 X 30 MM						2										
	23522719	BOLT M5 0.8 X 20.0 LG HEX HD		2			2		2	2								
	2.1655	MODULE, SIGNAL NOISE ENHANCEMENT																
	23516988	MODULE, SIGNAL NOISE ENHANCEMENT			1			1										
	23517272	SCREW ASSY., M6 X 1 X 12			4			4										
	2.1656	BRACKET, SNEF MODULE MOUNTING																
	23516989	BRACKET, SNEF MODULE MOUNTING S50G			1			1										
	11505299	BOLT, M10 X 1.5 X 30.0 MM			2			2										
	2.1665	SENSOR, COOLANT LEVEL																
	23519175	SENSOR ASSY., 1/4" OPTICAL CLS				1												
	2.1671	SENSOR, OXYGEN																
	23523554	SENSOR, OXYGEN W/RESISTOR						1										
	23525805	SENSOR, OXYGEN INTERFACE BOX W/RESISTOR						1										
	11504972	BOLT, M6 X 1.00 X 30 MM						3										
	2.1690	HARNESS, ECM BOAT BUILDER INTERFACE MODULE																
	23521535	HARNESS ASSY ECM-EMIM DDEC3 STBD MARINE S				1												
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)				2												
	11504986	BOLT, M8 X 1.25 X 14 MM				2												

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES																
				8 1 9	8 2 0	8 2 2	8 2 4	8 2 7	8 2 8	8 3 7										
		2.1000B INJECTOR CONTROLS ELECTRONIC																		
	2.1700	HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR																		
		INJECTOR HARNESS ASSY. MAY BE SHOWN IN 1.8000 VALVE MECHANISM TYPE UNDER (1.8050).																		
	5101020	STRAP, NYLON (2.5255)							1									9		
	8929534	CLIP																1		
	11509511	BOLT, M8 X 1.25 X 20 MM																2		
	2.1702	COVER, INJECTOR HARNESS COVER																		
	8929508			1	1	1	1			1	1									
	2.1713	HARNESS, OXYGEN SENSOR																		
	23523556	HARNESS, OXYGEN SENSOR W/RESISTOR CAL							1											
	2.1720	HARNESS, ENGINE SENSORS TO DISCONNECT																		
	23522154	HARNESS, ENGINE SENSORS DDEC IV							1											
	23524282	HARNESS ASSY., ENGINE SENSOR DDEC IV									1									
	23513604	HARNESS ENG SENSOR					1													
	23519889	HARNESS SENSOR WIRING DDECIII S60G			1															
	23522323	HARNESS ENG SENSOR DDEC IV		1																
	23524280	HARNESS ASSY.,ENGINE SENSOR					1			1										
	23520795	PRESSURE TRANSDUCER							1											
	23509256	CLIP, 3/8" DIA. 7/16" BOLT								1	1									
	23521885	BRACKET SENSOR AL 2 HOLES							1											
	5101020	STRAP, NYLON (2.5255)		9	2	5	9			9										
	5144934	CLIP, .438" DIA. 3/8" BOLT							1											
	8929534	CLIP		1		1	1			1										
	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1	1	1	1	1										
	11504986	BOLT, M8 X 1.25 X 14 MM		4	4	4	4	1		4	4									
	11509511	BOLT, M8 X 1.25 X 20 MM		2	2		2			3	1									
	11509528	BOLT, M12 X 1.75 X 30 MM						2												

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES													
				8	8	8	8	8	8	8							
				1	2	2	2	2	2	3							
		2.1000B INJECTOR CONTROLS ELECTRONIC		9	0	2	4	7	8	7							
	2.1900	TRIP RECORDER ANALYSIS CONTROL SYSTEM															
	R23515448	REMANUFACTURED 23515448	AR	AR	AR	AR	AR	AR	AR								
	R23515649	REMANUFACTURED 23515649	AR	AR	AR	AR	AR	AR	AR								
	R23515668	PRO DRIVER PETERBILT FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	R23515669	PRO DRIVER KENWORTH FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	R23515670	PRO DRIVER FREIGHTLINER FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	R23515671	PRO DRIVER VOLVO FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	R23515672	PRO DRIVER FORD FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	R23516428	PRO DRIVER KENWORTH SURFACE MT	AR	AR	AR	AR	AR	AR	AR								
	23515448	PRO DRIVER DETROIT DIESEL FLUSH MT	AR	AR	AR	AR	AR	AR	AR								
	23515649	PRO DRIVER DETROIT DIESEL SURFACE MT	AR	AR	AR	AR	AR	AR	AR								

DETROIT DIESEL

SERIES 60 ENGINE

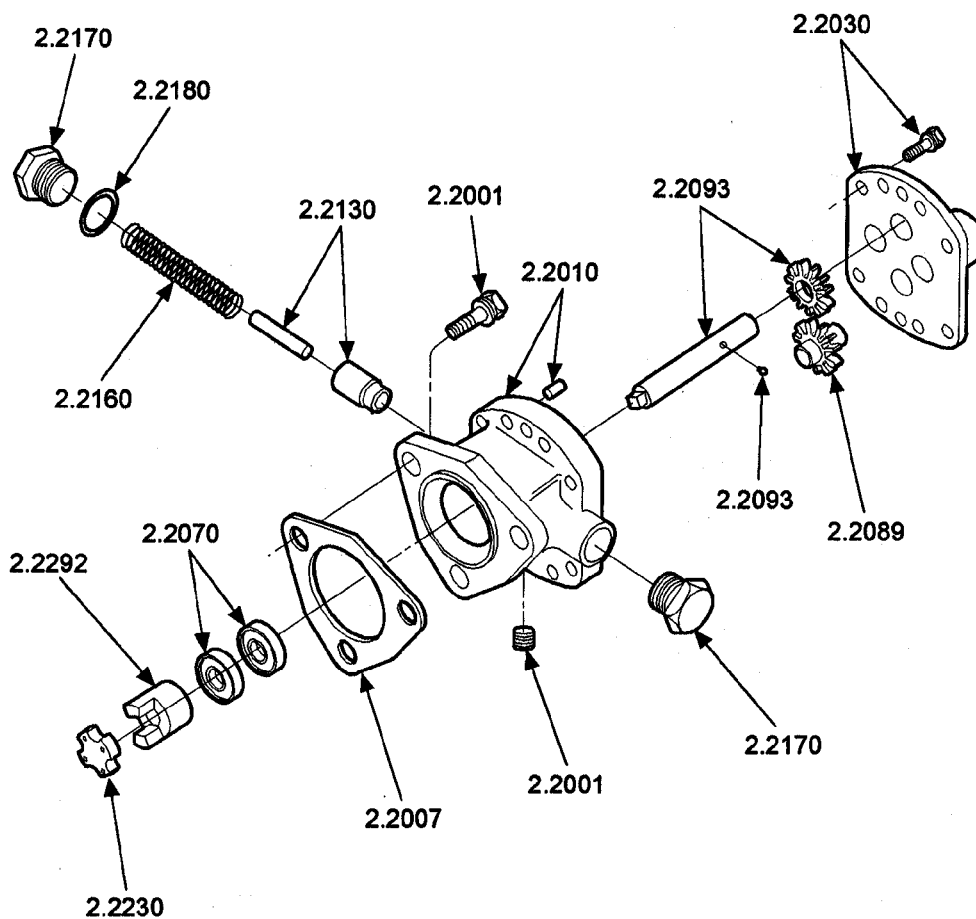


FIG. 1 FUEL PUMP ASSEMBLY

21772

FIG. 1 OF 2.2000

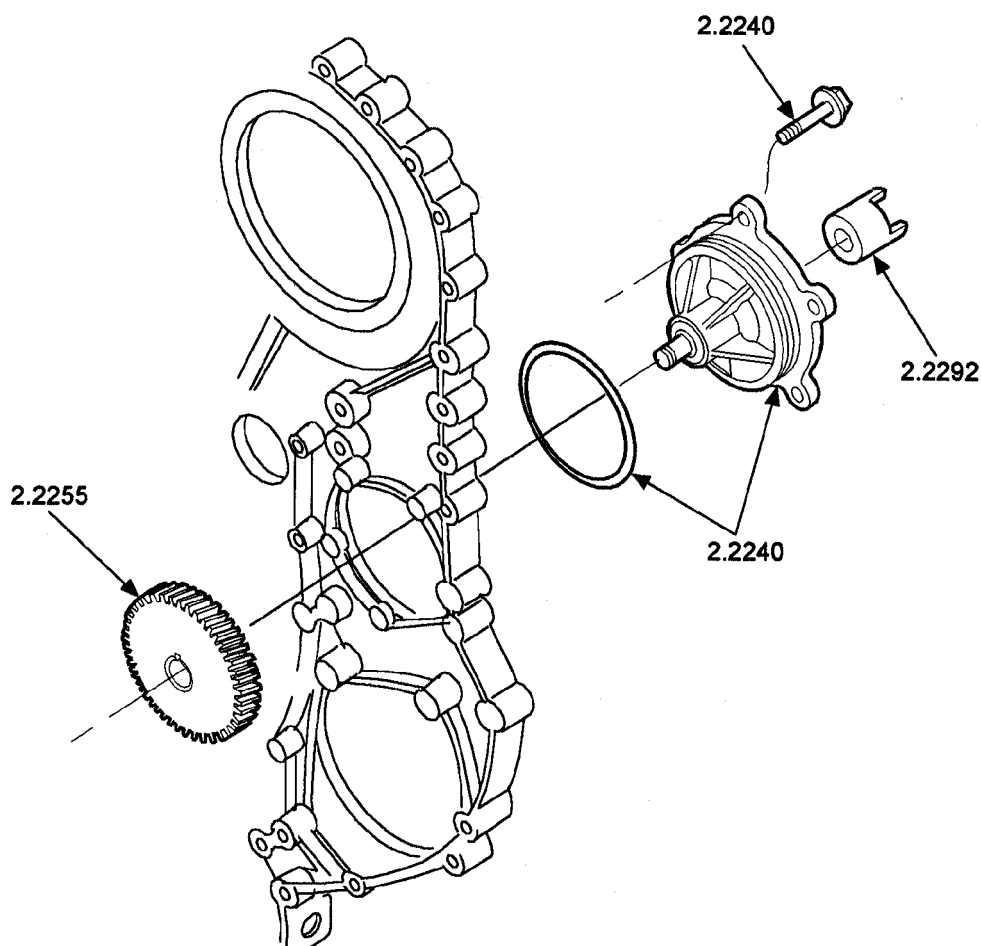
DETROIT DIESEL**SERIES 60 ENGINE**

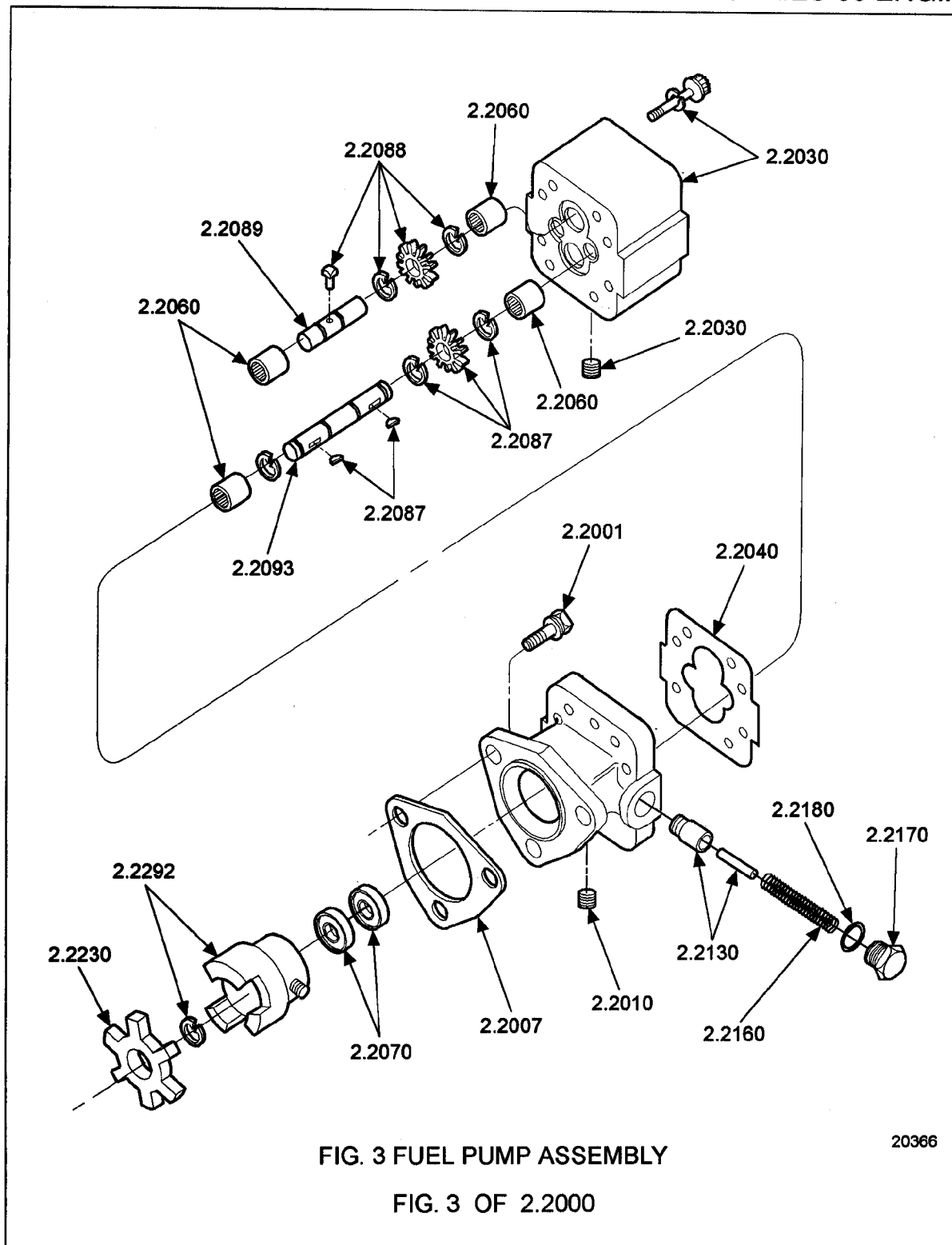
FIG. 2 FUEL PUMP DRIVE ASSEMBLY

24048

FIG. 2 OF 2.2000

DETROIT DIESEL

SERIES 60 ENGINE



				TYPES											
2.2000 FUEL PUMP				1	2	2	2	2	2	2	2	2	2	2	2
				7	5	6	6	6	6	6	6	7	7	9	9
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	6	2	4	5	6	7	8	4	7	1	7
2.2001 PUMP ASSY., FUEL															
	R23509291	REMANUFACTURED 23509291						AR			AR				
	R23517845	PUMP ASSY., FUEL RH BARNES (VIP)				AR			AR	AR			AR		
	23507409	PUMP ASSY., L.H. (GEAR CASE DRVN)	B1				1					1		1	1
3	23509291	PUMP ASSY., R.H. (AIR COMP DRVN)	B1					NS			NS				
3	23517845	PUMP ASM FUEL RH BARNES (VIP) S60	B1					1			1				
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE							1						
1	8929481	* PUMP ASSY., L.H. 3/8" INLET 2 PORT (23507409)	B1		1										
	23517845	PUMP ASM FUEL RH BARNES (VIP) S60	B1			1			1	1			1		
	R23507409	REMANUFACTURED 23507409			AR		AR					AR		AR	1
	8923847	PLUG, PIPE 1/4-18" NPTF						1							
	8924380	PLUG, 1/8"-27 PIPE (12.9550)		2	2										
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)				1									
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)						1							
	23509822	TEE, 1/4"-18 W/SEAL (12.9161)											1		
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60				1		1	1						
	23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE				1									
	8924148	CONN 1/2 FLD TUB 3/8 NPTF BRS				1		1					1		
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9480)											1		
	8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)										1		1	1
	8924998	ELBOW (90 DEG.)											1		
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)					2			1	1	1			
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC				1		1	1				1		
1	11509512	BOLT, M8 X 1.25 X 25 MM			3										
3	23506222	BOLT, M8 X 1.25 X 20 12 PT.				3	3	3	3	3	3	3	3	3	3
	R5199560	REMANUFACTURED 5199560		AR											
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE												1	1
	5199560	PUMP KIT (L.H.) (3/8" INLET, STD. CAP)	B1	1											
	8925603	BOLT, 5/16"-18X3/4" (W/SEAL) (12.9001).		3											
* NOT SERVICED; USE PART NO. SHOWN IN PARENTHESES.															
2.2007 GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY															
3	23505248	GASKET, FUEL PUMP				1		1	1	1	1		1		
1	5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)		1	1		1					1		1	1
2.2030 COVER, FUEL PUMP															
	23511055	PUMP ASM FUEL RH PA-BLACK STGHT CONNS	C1			NS									

				TYPES											
				1	2	2	2	2	2	2	2	2	2	2	2
				7	5	6	6	6	6	6	7	7	9	9	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	6	2	4	5	6	7	8	4	7	1	7
2.2000 FUEL PUMP															
	2.2220	FORK,FUEL PUMP COUPLING													
	5102257	FORK		1											
	2.2230	COUPLING, FUEL PUMP DRIVE													
3	23505249	COUPLING, FUEL PUMP DRIVE				1		1	1	1	1		1		
1	8929479	COUPLING			1		1					1		1	1
	2.2240	DRIVE ASSY., FUEL PUMP													
2	8929475	DRIVE ASSY. (8929785)	D1		1										
2	8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)			1		1					1		1	1
	8929785	DRIVE ASSY.	D1				1					1		1	1
2	11504822	BOLT, M8 X 1.25 X 30			5		5					5		5	5
		* NOT SERVICED; USE PART NO. SHOWN IN PARENTHESES.													
	23511056	PUMP ASM FUEL RH PA-BLACK 90DEG ELBOW	A1							NS					
	23511057	PUMP ASM FUEL RH PA-BLACK W/2-WAY TEE	A1						NS						

				TYPES											
2.2000 FUEL PUMP					2	3	3	3	3	3					
					9	0	1	1	2	2					
					8	5	1	2	8	9					
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
REFER TO ENGINEERING DRAWING # 06M04 6042															
	2.2001	PUMP ASSY., FUEL													
	R23517845	PUMP ASSY., FUEL RH BARNES (VIP)					1								
	23507409	PUMP ASSY., L.H. (GEAR CASE DRVN)	B1	1	1			1							
	23523754	PUMP, FUEL ASSY. (RH)	B1						1						
	23525306	PUMP ASSY., FUEL RH GRCASE MT RR MT INLT/OT									1				
	R23507409	REMANUFACTURED 23507409				1									
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60		1	1										
	23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE					1								
	23523726	CONN, 5/8 SAE TO 3/8 NPTF BRS									1				
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)									1				
	8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)							1						
	8924998	ELBOW (90 DEG.)				1									
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)							1						
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC		1	1										
3	23506222	BOLT, M8 X 1.25 X 20 12 PT.		3	3	3	3	3	3	3					
	8924150	ELBOW, 1/2"-90 DEG. FL. TUBE; 3/8" PIPE (12.9390)		1	1										
	2.2007	GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY													
3	23505248	GASKET, FUEL PUMP					1								
1	5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)		1	1			1	1	1					
	2.2230	COUPLING, FUEL PUMP DRIVE													
1	8929479	COUPLING		1	1			1		1					
	2.2240	DRIVE ASSY., FUEL PUMP													
	23523751	DRIVE ASSY., FUEL PUMP DL-ROW BALL BRG	D1						1						
2	8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)		1	1			1	1	1					
	8929785	DRIVE ASSY.	D1	1	1			1		1					
2	11504822	BOLT, M8 X 1.25 X 30		5	5			5	5	5					

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B																
		2.2000 FUEL PUMP																		
		(Note: Assemblies are shown for component reference only.)																		
	23511057	PUMP ASM FUEL RH PA-BLACK W/2-WAY TEE	1																	
	23511056	PUMP ASM FUEL RH PA-BLACK 90DEG ELBOW		1																
	23505245	PUMP ASSY., RH (AIR COMP DRVN)	1	1																
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60	2																	
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1																	
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC	1																	
		2.2010																		
		BODY, FUEL PUMP																		
	23506550	STATOR, FUEL PUMP	1	1																
3	23506553	PLUG, STL 1/8-27	1	1																
	23506562	KIT, STATOR (CONTAINS STATOR AND PLUG IN 2.2010, B	AR	AR																
		2.2012																		
		PIN, ALIGNMENT																		
	23500694	PIN, ALIGNMENT	2	2																
		2.2030																		
		COVER, FUEL PUMP																		
3	23506544	COVER, FUEL PUMP	1	1																
3	23506551	SCREW	8	8																
	23506554	KIT, FUEL PUMP COVER (CONTAINS COVER AND PLUG IN 2	AR	AR																
3	23506561	PLUG	1	1																
		2.2040																		
		GASKET, FUEL PUMP COVER																		
3	23506547	GASKET, GOLD	AR	AR																
3	23506548	GASKET, SILVER	AR	AR																
3	23516117	GASKET, BLUE	AR	AR																
3	23516118	GASKET, AMBER	AR	AR																
		2.2060																		
		BEARING, FUEL PUMP																		
3	8923526	BEARING, FUEL PUMP	4	4																
		2.2070																		
		SEAL, FUEL PUMP OIL																		
3	23512243	SEAL, OIL SGL LIP	2	2																
		2.2087																		
		GEAR, FUEL PUMP DRIVE																		
3	23506546	GEAR, GC (.375)	1	1																
3	8923522	RING, GEAR RETAINING	2	2																
3	8923523	KEY, FUEL PUMP DRV. GEAR	1	1																

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES													
			A	B												
		2.2000 FUEL PUMP														
	2.2088	GEAR, FUEL PUMP DRIVEN														
3	23506546	GEAR, GC (.375)	1	1												
3	8923521	PIN, DRIVEN GEAR	1	1												
3	8923522	RING, GEAR RETAINING	2	2												
	2.2089	SHAFT, FUEL PUMP DRIVEN														
3	23506549	SHAFT	1	1												
	2.2093	SHAFT, FUEL PUMP DRIVE														
3	23506545	SHAFT, DRIVE	1	1												
	2.2130	VALVE ASSY., FUEL PUMP														
	23506560	SPACER, RELIEF VALVE	1	1												
	23506563	KIT, RELIEF VALVE (CONTAINS VALVE, SPACER AND PIN	AR	AR												
	23506564	PIN, SHEAR RELIEF VALVE	1	1												
3	8923528	VALVE, FUEL PUMP	1	1												
	2.2160	SPRING, FUEL PUMP VALVE RETAINING														
3	23506557	SPRING, RELIEF VALVE	1	1												
	2.2170	PLUG, FUEL PUMP VALVE														
3	23506555	CAP, RELIEF VALVE	1	1												
	2.2180	GASKET, FUEL PUMP VALVE PLUG														
3	23506556	SEAL, RELIEF VALVE	1	1												
	2.2292	HUB, FUEL PUMP DRIVE GEAR														
3	23506558	COUPLING, FUEL PUMP	1	1												
3	23506559	RING, SNAP DRIVE SHAFT	1	1												
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1	1												

			ASSEMBLIES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F						
2.2000 FUEL PUMP														
(Note: Assemblies are shown for component reference only.)														
2.2001 PUMP ASSY., FUEL														
1	5199560	PUMP KIT (L.H.) (3/8" INLET, STD. CAP)	1											
	8929481	PUMP ASSY., L.H. 3/8" INLET 2 PORT (23507409)		1										
	23517845	PUMP ASM FUEL RH BARNES (VIP) S60			1									
	23507409	PUMP ASSY., L.H. (GEAR CASE DRVN)				1								
	23509291	PUMP ASSY., R.H. (AIR COMP DRVN)					1							
3	23523754	PUMP, FUEL ASSY. (RH)						1						
2.2010 BODY, FUEL PUMP														
2.2010 BODY, FUEL PUMP														
1	23506550	STATOR, FUEL PUMP					1	1						
	23506553	PLUG, STL 1/8-27			1	1	1	1						
	23506562	KIT, STATOR (CONTAINS STATOR AND PLUG IN 2.2010, B)					AR	AR						
	23511956	KIT, STATOR				AR								
	23511961	STATOR, FUEL PUMP				1								
	23518608	KIT, STATOR (VIP) BARNES FUEL PUMP			AR									
	23518612	STATOR			1									
	23525945	STATOR, (VIP) BARNES FUEL PUMP						1						
	5146337	BODY	1											
	5146339	BODY		1										
	8929819	PIN, 1/4" X 5/8" DOWEL	2	2										
2.2012 PIN, ALIGNMENT														
2.2012 PIN, ALIGNMENT														
	23500694	PIN, ALIGNMENT			2	2	2	2						
2.2030 COVER, FUEL PUMP														
2.2030 COVER, FUEL PUMP														
3	103319	LOCKWASHER, 1/4"		4										
	179803	BOLT, 1/4"-20 X 1 3/4"		4										
	23506544	COVER, FUEL PUMP						1						
	23506551	SCREW			8	8	8	8						
	23506552	PLUG 3/8-18 PLASTIC F/PUMP BARNES S60				2		2						
	23506554	KIT, FUEL PUMP COVER (CONTAINS COVER AND PLUG IN 2)						AR						

ASSEMBLIES

2.2000 FUEL PUMP			A	B	C	D	E	F										
FIG. REF.	PART NO.	NAME AND DESCRIPTION																
		(Note: Assemblies are shown for component reference only.)																
	2.2030	COVER, FUEL PUMP (CONT.)																
3	23506561	PLUG				1	1	1										
	23511316	BOLT, 1/4"-20 X 3/4"(W/LW)	8															
	23511955	KIT, FUEL PUMP COVER				AR												
	23511957	COVER, FUEL PUMP				1		1										
	23518605	KIT, GR END HSG (VIP) BARNES F/PMP			AR													
	23518611	HOUSING, GR END VIP BARNES F/PMP			1													
1	3719219	SCREW AND WASHER ASSY. 1/4"-20 X 3/4"		4														
1	5100301	COVER		1														
	5134560	COVER	1															
	8923535	PLUG 1/8-27 PLSTC SHPG BARNES F/PMP				2		1										
	2.2040	GASKET, FUEL PUMP COVER																
	23506547	GASKET, GOLD			1	A	1											
	23506548	GASKET, SILVER			1	A	1											
	23516117	GASKET, BLUE			1	A	1											
	23516118	GASKET, AMBER			1	A	1											
	2.2060	BEARING, FUEL PUMP																
	23523802	BEARING, BALL BARNES FUEL PUMP						1										
	8923526	BEARING, FUEL PUMP			4	4	4	4										
	2.2070	SEAL, FUEL PUMP OIL																
3	23509296	SEAL, OIL (NITRILE)					1											
	23512243	SEAL, OIL SGL LIP	2	2	2	2	1	1										
	23523535	SEAL, OIL BARNES FUEL PUMP						1										
	23525982	RING, CRESCENT BARNES FUEL PUMP						1										
	2.2087	GEAR, FUEL PUMP DRIVE																
	23506546	GEAR, GC (.375)			2		1											
	23511959	GEAR (.275)				2		2										
	23511963	KEY, FUEL PUMP DRV. GEAR				1		1										
	23520878	KEY			1													
	5174975	GEAR	1															
	8923522	RING, GEAR RETAINING			2	2	2	4										
3	8923523	KEY, FUEL PUMP DRV. GEAR					1											
	2.2088	GEAR, FUEL PUMP DRIVEN																
3	23506546	GEAR, GC (.375)					1											
	8923521	PIN, DRIVEN GEAR			1	1	1	1										
	8923522	RING, GEAR RETAINING				2	2											

			ASSEMBLIES										
FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F					
2.2000 FUEL PUMP													
(Note: Assemblies are shown for component reference only.)													
1	2.2089	SHAFT, FUEL PUMP DRIVEN											
	23506549	SHAFT			1		1						
	23511960	SHAFT				1		1					
	5100313	SHAFT ASSY.		1									
	5181747	SHAFT ASSY.	1										
	5181749	SHAFT FUEL PUMP DRIVEN	1										
3	2.2093	SHAFT, FUEL PUMP DRIVE											
	147481	BALL, 1/8" DIA. STEEL	1	1									
	23506545	SHAFT, DRIVE					1						
	23507409 =	PUMP ASSY., L.H. (GEAR CASE DRVN)		1									
	23511958	SHAFT, DRIVE				1							
1	23518607	SHAFT, W/COUPLING			1								
	23525943	SHAFT, DRIVE (VIP) BARNES FUEL PUMP						1					
	5128217	GEAR, 3/8" WIDE (2.2087)		1									
	5178700	SHAFT	1										
	5181746	SHAFT ASSY. (DRIVE)	1										
1	8929483 =	SHAFT =OBSOLETE.		1									
	2.2130	VALVE ASSY., FUEL PUMP											
	103709	PIN, .15 X 1" STRAIGHT	1	1									
	23506560	SPACER, RELIEF VALVE			1	1	1	2					
	23506563	KIT, RELIEF VALVE (CONTAINS VALVE, SPACER AND PIN)			AR	AR	AR						
	23506564	PIN, SHEAR RELIEF VALVE			1	1	1	1					
	23520879	SPACER			1			1					
	5174973	VALVE	1	1									
	8923528	VALVE, FUEL PUMP			1	1	1	1					
	2.2160	SPRING, FUEL PUMP VALVE RETAINING											
	23506557	SPRING, RELIEF VALVE			1	1	1	1					
	5184530	SPRING	1	1									
	2.2170	PLUG, FUEL PUMP VALVE											
	23506555	CAP, RELIEF VALVE			1	1	1	1					
	5174971	PLUG	1	1									
	2.2180	GASKET, FUEL PUMP VALVE PLUG											
	23506556	SEAL, RELIEF VALVE			1	1	1						
	5161003	GASKET	1	1									

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES													
			A	B	C	D	E	F								
		2.2000 FUEL PUMP														
		(Note: Assemblies are shown for component reference only.)														
	2.2230	COUPLING, FUEL PUMP DRIVE														
	23505249	COUPLING, FUEL PUMP DRIVE			1											
	2.2292	HUB, FUEL PUMP DRIVE GEAR														
3	23506558	COUPLING, FUEL PUMP					1									
3	23506559	RING, SNAP DRIVE SHAFT					2									
	23511984	COUPLING, FUEL PUMP				1										
1	8929480	HUB, 12.700 MM I.D.		1												

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A
		2.2000 FUEL PUMP	
		(Note: Assemblies are shown for component reference only.)	
	2.2030	COVER, FUEL PUMP	
	23511055	PUMP ASM FUEL RH PA-BLACK STGHT CONNS	1
3	23506544	COVER, FUEL PUMP	1
3	23506551	SCREW	8
	23506554	KIT, FUEL PUMP COVER (CONTAINS COVER AND PLUG IN 2 PLUG	AR
3	23506561		1
	2.2040	GASKET, FUEL PUMP COVER	
3	23506547	GASKET, GOLD	AR
3	23506548	GASKET, SILVER	AR
3	23516117	GASKET, BLUE	AR
3	23516118	GASKET, AMBER	AR
	2.2060	BEARING, FUEL PUMP	
3	8923526	BEARING, FUEL PUMP	4
	2.2070	SEAL, FUEL PUMP OIL	
3	23512243	SEAL, OIL SGL LIP	2
	2.2087	GEAR, FUEL PUMP DRIVE	
3	23506546	GEAR, GC (.375)	1
3	8923522	RING, GEAR RETAINING	2
3	8923523	KEY, FUEL PUMP DRV. GEAR	1
	2.2088	GEAR, FUEL PUMP DRIVEN	
3	23506546	GEAR, GC (.375)	1
3	8923521	PIN, DRIVEN GEAR	1
3	8923522	RING, GEAR RETAINING	2
	2.2089	SHAFT, FUEL PUMP DRIVEN	
3	23506549	SHAFT	1
	2.2093	SHAFT, FUEL PUMP DRIVE	
3	23506545	SHAFT, DRIVE	1

ASSEMBLIES

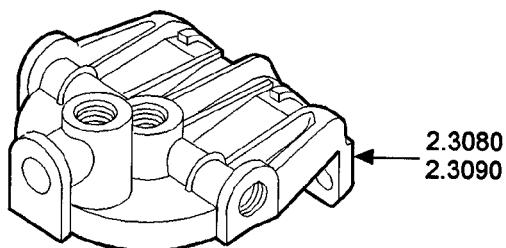
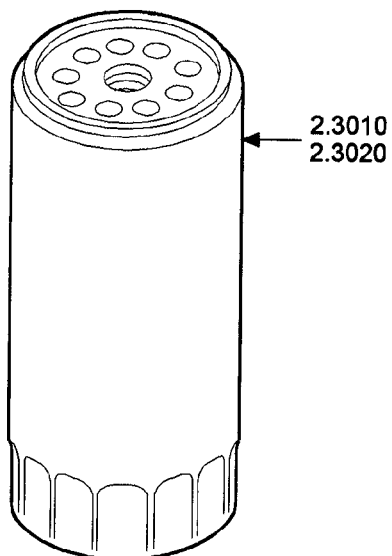
FIG. REF.	PART NO.	NAME AND DESCRIPTION	A
		2.2000 FUEL PUMP	
		(Note: Assemblies are shown for component reference only.)	
	2.2130	VALVE ASSY., FUEL PUMP	
	23506560	SPACER, RELIEF VALVE	1
	23506563	KIT, RELIEF VALVE (CONTAINS VALVE, SPACER AND PIN	AR
	23506564	PIN, SHEAR RELIEF VALVE	1
3	8923528	VALVE, FUEL PUMP	1
	2.2160	SPRING, FUEL PUMP VALVE RETAINING	
3	23506557	SPRING, RELIEF VALVE	1
	2.2170	PLUG, FUEL PUMP VALVE	
3	23506555	CAP, RELIEF VALVE	1
	2.2180	GASKET, FUEL PUMP VALVE PLUG	
3	23506556	SEAL, RELIEF VALVE	1
	2.2292	HUB, FUEL PUMP DRIVE GEAR	
3	23506558	COUPLING, FUEL PUMP	1
3	23506559	RING, SNAP DRIVE SHAFT	1
	23505245	PUMP ASSY., RH (AIR COMP DRVN)	1
	23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE	1
	8924148	CONN 1/2 FLD TUB 3/8 NPTF BRS	1

ASSEMBLIES

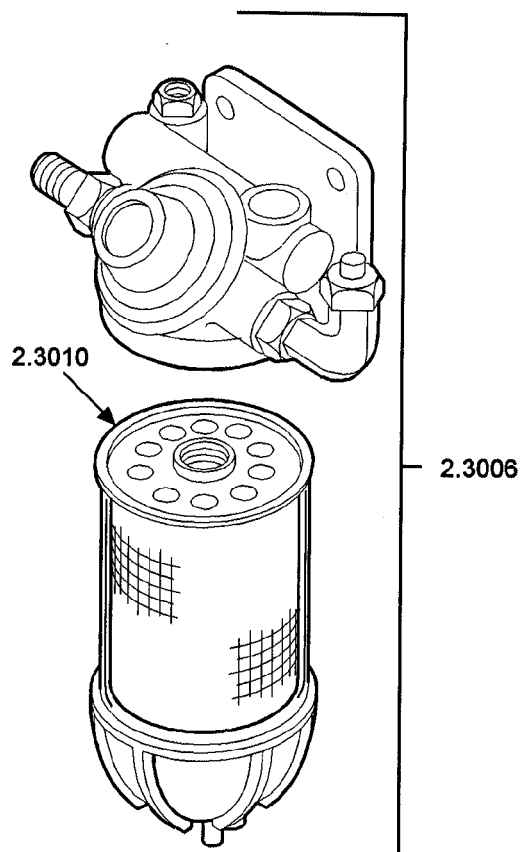
FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES													
			A	B	C											
		2.2000 FUEL PUMP														
	2.2001	DRIVE ASSY., FUEL PUMP														
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1	1	1											
	8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)	1	1	1											
	2.2240	DRIVE ASSY., FUEL PUMP														
2	8929475	DRIVE ASSY.	1													
	8929785	DRIVE ASSY.		1												
	23523751	DRIVE ASSY., FUEL PUMP DL-ROW BALL BRG			1											
	2.2255	GEAR, FUEL PUMP DRIVE														
2	8929785 #	DRIVE ASSY.	1													
	8929786	GEAR, 15.875 MM I.D.		1												
	9411502	RING, RETAINING (2.7470) # NOT SERVICED; USE PART NO. SHOWN IN PARENTHESES.		1												
	2.2260	ADAPTOR, FUEL PUMP DRIVE														
	23523750	ADAPTOR, FUEL PUMP DRIVE			1											
	23523755	BOLT, M6 1.00 X 30.0"			3											
	8929474	ADAPTOR FUEL PUMP BRG SUPT S60		1												
	2.2292	HUB, FUEL PUMP DRIVE GEAR														
2	23523752	SPROCKET, FUEL PUMP DRIVE			1											
	8929787	HUB, 15.875 MM I.D.		1												
	9411502	RING, RETAINING (2.7470)			1											

DETROIT DIESEL

SERIES 60 ENGINE

2.3080
2.30902.3010
2.3020

FUEL STRAINER / FUEL FILTER



2.3010

2.3006

FUEL FILTER

FIG. 1 FUEL STRAINER, FUEL FILTER (SPIN-ON)

24008

FIG. 1 OF 2.3000A

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	8	8	8	8	8	8	9	9	9	9	9	9
				3	4	4	5	6	6	0	0	0	0	0	1
				3	0	1	8	0	1	0	2	5	6	9	9
2.3000A FUEL FILTER AND STRAINER															
FOR OPTION # 1012, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06M09 6200															
	2.3006	STRAINER ASSY., SPIN-ON FUEL													
1	23511318	STRAINER ASSY., FUEL WAT SEP/PRIM PMP								1					
	23513143	STRAINER ASSY., FUEL WAT SEP/PRIM PMP/HEATERRACOR 460	A1			1						1			
	23514209	Z FILTER FUEL WAT SEP/PRIM PMP NO HTR	A1												1
	23514728	KIT DRAIN VLV ASM										1			1
	23514733	KIT,BY-PASS CHECK VALVE										1			1
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)				2				2		2			2
		ZSEE ASSEMBLY BREAKDOWN PAGE A1.													
	2.3010	ELEMENT, FUEL STRAINER													
1	23512317	ELEMENT FUEL STRAINER/WATER				1				1			1		
	23514654	* FILTER ASM.REPL.ELEMENT							1	1		1			1
	23518481	FILTER, FUEL PRIMARY		1	1		1								
		*FOR UNITS BUILT WITH STRAINER ASSY.(W/INTEGRAL PRIMER PUMP), USE TYPE 902.													
	2.3080	COVER, FUEL STRAINER													
1	5148023	COVER		1	1	1		1	1	1			1		
1	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		3	3	3		3	3	3			3		
	8924201	EL 45 DEG 1/2"FLD TUB 3/8"NPTF											1		
1	11505299	BOLT, M10 X 1.5 X 30.0 MM		2	2	2		2	2	2			2		
	2.3305	FUEL/AIR SEPARATOR													
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23513542	@ INSTALLATION KIT FOR PRO-CHEK SIDE MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	5157412	SPACER, 7/8"X13/32"X1/4"										2	2		
	11505299	BOLT, M10 X 1.5 X 30.0 MM										2	2		
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		@INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.													
	2.3320	ELEMENT, FUEL FILTER													
	23518482	FILTER, FUEL SECONDARY		1	1	1	1	1	1	1	1		1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 3 3	8 4 0	8 4 1	8 5 8	8 6 0	8 6 1	9 0 0	9 0 2	9 0 5	9 0 6	9 0 9	9 1 9
	2.3000A FUEL FILTER AND STRAINER														
	2.3390 COVER, FUEL FILTER														
	23511605 # COVER ASSY., FUEL FILTER	C1								NS					
1	5148171 COVER			1	1	1		1	1	1			1	1	1
1	8923847 PLUG, PIPE 1/4-18" NPTF			2									2	2	2
	23509987 VALVE 1/4" NPTF												1		1
	23511176 SENSOR, OIL/FUEL PRESSURE					1		1		1					
	23518092 SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE				1	1		1	1	1			1	1	1
	23505247 TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)												1	1	1
	23515900 TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60					1									
	23513204 CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE												1		1
	8929833 CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)											1		1	
	8924998 ELBOW (90 DEG.)													1	
	11505299 BOLT, M10 X 1.5 X 30.0 MM			2	2	2	2	2	2	2	2		2	2	2
	23507244 COVER ASSY., FUEL FILTER W/SENS (NS USE COMPONENTS)	C1					1								
	23517075 VALVE ASSY., FUEL SHUTOFF				1	1									
	# NOT SERVICED, USE COMPONENTS.														
	2.3590 SEPARATOR, FUEL WATER														
	23514047 PROCESSOR ASSY., FUEL PRO 380 12V HEAT			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23515125 PROCESSOR ASSY., FUEL PRO 380 NO HEAT			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23516638 PROCESSOR ASSY., FUEL PRO 380 24V HEAT			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23521528 KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23516639 KIT, FUEL PRO 380E NO HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23516640 KIT, FUEL PRO 380E 12V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23516641 KIT, FUEL PRO 380E 24V HEAT W/O DIVERTER CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				9 2 0	9 2 8	9 2 9	9 3 2	9 4 5	9 5 0	9 5 1	9 5 4	9 6 0	9 6 3	9 6 9	9 7 0
	2.3006	STRAINER ASSY., SPIN-ON FUEL													
	23512317	ELEMENT FUEL STRAINER/WATER										1			
	23514209	FILTER FUEL WAT SEP/PRIM PMP NO HTR	A1		1				1	1			1	1	
	23514210	Z FILTER FUEL WAT SEP/PRIM PMP 24V HTR	A1	1											
	23518481	FILTER, FUEL PRIMARY													1
	23514728	KIT DRAIN VLV ASM		1						1				1	
	23514733	KIT,BY-PASS CHECK VALVE		1						1				1	
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		2	2				2	2			2	2	
	8929398	SPACER, 13.0 MM (1.3169)											2		
		ZSEE ASSEMBLY BREAKDOWN PAGE A1.													
	2.3010	ELEMENT, FUEL STRAINER													
1	23514654	FILTER ASM.REPL.ELEMENT		1						1				1	
	25013878	ELEMENT (SPIN ON) (TYPE TP-915D)					1								
	2.3080	COVER, FUEL STRAINER													
1	5148023	COVER										1			1
1	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)					1					3			2
	8924201	EL 45 DEG 1/2"FLD TUB 3/8"NPTF										1			1
1	11505299	BOLT, M10 X 1.5 X 30.0 MM					2	2	2			2			2
	23507245	COVER ASSY., FUEL STRAINER	B1				1								
	2.3305	FUEL/AIR SEPARATOR													
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23513542	⊙ INSTALLATION KIT FOR PRO-CHEK SIDE MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	5157412	SPACER, 7/8"X13/32"X1/4"												2	
	11505299	BOLT, M10 X 1.5 X 30.0 MM			2	2	2								
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
		⊙ INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.													
	2.3320	ELEMENT, FUEL FILTER													
	23518482	FILTER, FUEL SECONDARY		1				1	1	1		1	1	1	1
	25013794	ELEMENT (SPIN ON) (TYPE TP-916D)			1	1	1								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	9	9	9	9	9	9	9	9	9	9	9
				2	2	2	3	4	5	5	5	6	6	6	7
				0	8	9	2	5	0	1	4	0	3	9	0
	2.3390	COVER, FUEL FILTER													
1	5148171	COVER		1				1	1	1		1	1	1	1
1	8923847	PLUG, PIPE 1/4-18" NPTF		2				1	2	2		2		2	2
	23509987	VALVE 1/4" NPTF		1						1				1	
	23511176	SENSOR, OIL/FUEL PRESSURE						1							
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1				1	1	1		1		1	1
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)		1					1	1		1		1	1
	23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE		1						1		1		1	
	8924998	ELBOW (90 DEG.)			1	1	1							1	
	11505299	BOLT, M10 X 1.5 X 30.0 MM		2	2	2	2			2		2	2	2	2
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)						1							
	23513507	BASE ASSY., FUEL STRAINER	C1		1		1								
	23516491	COVER ASSY., FILTER WITH TEMP SENS	C1			1									
	23517075	VALVE ASSY.,FUEL SHUTOFF						1	1			1			1
	2.3530	BRACKET, FUEL FILTER MOUNTING													
	23520917	BRACKET FUEL FLTR SPL SAEWOO S												1	
	2.3590	SEPARATOR, FUEL WATER													
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT	AR					AR	AR	AR	1	AR	AR	AR	AR
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	AR							AR		AR		AR	AR
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT	AR							AR		AR		AR	AR
	23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382	AR					AR	AR	AR	AR	AR	AR	AR	AR
	23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)	AR					AR	AR	AR	AR	AR	AR	AR	AR
	23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)	AR					AR	AR	AR	AR	AR	AR	AR	AR
	23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)	AR					AR	AR	AR	AR	AR	AR	AR	AR

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				9 7 4	9 7 5	9 7 6	9 7 8	9 9 0	9 9 5	9 9 6	1 0 0 7	1 0 0 8	1 0 0 9	1 0 1 3	
		2.3000A FUEL FILTER AND STRAINER													
	2.3001	STRAINER ASSY., FUEL													
	23525528	FILTER ASSY., PRIMARY 30 MICRON SEA PRO 152								1					
	2.3006	STRAINER ASSY., SPIN-ON FUEL													
	23513143	STRAINER ASSY., FUEL WAT SEP/PRIM PMP/HEATERRACOR 480	A1	1											
	23514210	FILTER FUEL WAT SEP/PRIM PMP 24V HTR	A1					1							
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		2				2							
	11506101	NUT, M10 X 1.5						2							
	2.3305	FUEL/AIR SEPARATOR													
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT			AR	AR	AR	AR	AR		AR	AR			
	23513542	⊗ INSTALLATION KIT FOR PRO-CHEK SIDE MT			AR	AR	AR	AR	AR		AR	AR			
	5157412	SPACER, 7/8"X13/32"X1/4"						2							
	11505299	BOLT, M10 X 1.5 X 30.0 MM			AR	AR	AR	2	AR			AR			
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT ⊗ INCLUDES HOSES AND HARDWARE NECESSARY TO RETROFIT EXISTING ENGINES.			AR	AR	AR	AR	AR		AR	AR			
	2.3320	ELEMENT, FUEL FILTER													
	23518482	FILTER, FUEL SECONDARY		1	1	1	1	1	1		1	1			
	2.3390	COVER, FUEL FILTER													
	23525530	FILTER ASSY., PRIMARY 30 MICRN SEA PRO 511												1	
1	5148171	COVER		1	1	1	1	1	1		1	1			
	23518167	FILTER ASSY., PRIMARY 30 MICRN SEA PRO 300			1										
	23520047	FILTER ASSY. PRIMARY 30 MICRON SEA PRO 150				1			1						
	23521551	BASE ASSY., FUEL FILTER SPL PORT MARINE			1	1			1						
1	8923847	PLUG, PIPE 1/4-18" NPTF		1	1	1	2	2	1			1			
	23511176	SENSOR, OIL/FUEL PRESSURE		1	1	1			1		1				
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1	1	1	1		1	1			
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)		1	1	1	1	1	1			1			
	8924168	ELBOW, 90 DEG. STREET, 1/4" PIPE (12.9590)			2				2						

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	9	9	9	9	9	9	1	1	1	1	
				7	7	7	7	9	9	9	0	0	0	0	
				4	5	6	8	0	5	6	0	0	0	1	
	2.3390	COVER, FUEL FILTER (CONT.)									7	8	9	3	
	8924998	ELBOW (90 DEG.)						1							
	11505299	BOLT, M10 X 1.5 X 30.0 MM		2	2	2	2	2	2		2	2			
	11506101	NUT, M10 X 1.5									2				
	23517075	VALVE ASSY.,FUEL SHUTOFF		1	1	1	1		1		1	1			
	2.3530	BRACKET, FUEL FILTER MOUNTING													
	23520917	BRACKET FUEL FLTR SPL SAEWOOD S						1							
	23525185	BRACKET, FUEL FILTER MOUNT									1				
	11509528	BOLT, M12 X 1.75 X 30 MM									2				
	2.3590	SEPARATOR, FUEL WATER													
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT			AR	AR	AR	AR	AR			AR			
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT			AR	AR	AR	AR	AR			AR			
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT			AR	AR	AR	AR	AR			AR			
	23523593	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/24V PREHEATER	D1											1	
	23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382			AR	AR	AR	AR	AR			AR			
	23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR			AR			
	23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR			AR			
	23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERter CAP (W/MOUNTING HARDWARE)			AR	AR	AR	AR	AR			AR			

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C															
		2.3000A FUEL FILTER AND STRAINER																		
		(Note: Assemblies are shown for component reference only.)																		
	2.3006	STRAINER ASSY., SPIN-ON FUEL																		
	23513143	STRAINER ASSY., FUEL WAT SEP/PRIM PMP/HEATER	1																	
	23514209	FILTER FUEL WAT SEP/PRIM PMP NO HTR		1																
	23514210	FILTER FUEL WAT SEP/PRIM PMP 24V HTR			1															
	23514654	FILTER ASM.REPL.ELEMENT	1	1	1															
	23514722	BOWL & DRAIN		1																
	23514726	BOWL WITH 12V HEATER	1																	
	23514727	BOWL WITH 24V HEATER			1															
	23514730	PLUG-WATER PROBE PORT	1	1	1															
	23514731	BY-PASS VALVES IN HEAD	1	1	1															
	23514732	FITTING REPL	2	2	2															
	23514734	SPACER-REPL 9/32 THICK		1	1															
	23514735	HEAD ASM-REPL	1	1	1															

[illegible]

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B	C	D								
		2.3000A FUEL FILTER AND STRAINER												
		(Note: Assemblies are shown for component reference only.)												
	2.3390	COVER, FUEL FILTER												
	23507244	COVER ASSY., FUEL FILTER W/SENS	1											
	23511605	COVER ASSY., FUEL FILTER		1										
	23513507	BASE ASSY., FUEL STRAINER			1									
	23516491	COVER ASSY., FILTER WITH TEMP SENS				1								
	23505047	VALVE ASSY, FUEL CHECK 1/4" NPTF		1										
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	1	1								
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)		1	1									
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1	1	1								
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)	1			1								
	23509987	VALVE 1/4" NPTF	1											
	5148171	COVER	1	1	1	1								
	8923847	PLUG, PIPE 1/4-18" NPTF	2	2	2	2								

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A
		2.3000A FUEL FILTER AND STRAINER	
		(Note: Assemblies are shown for component reference only.)	
	2.3590	SEPARATOR, FUEL WATER	
	23523593	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/24V PREHEATER	1
	23514043	KIT, W/CAP & SEAL RING	1
	23514048	COVER, CLEAR FUEL PRO 380	1
	23514060	SPRING, FUEL PRO 380	1
	23514061	COLLAR, FUEL PRO 380	2
	23518326	KIT, CHECK VALVE REPAIR INLET	1
	23518393	VALVE, CHECK BODY FUEL PRO 380/382/321	1
	23519934	STUD, 13/16"-12, 7/8"-14	1
	23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382	1
	23523580	HEATER, 24V 250W WITH WEATHERPACK	1
	23523583	HARNESS 2-WAY W/P CHASSIS	1
	23523587	VALVE, DRAIN 1/2 NPTF MINIBALL	1
	23523589	PLATE ASSY.,BOTTOM NO HEAT W/SEAL RING	1
	23524657	SEAL, O-RING BOTTOM PLATE 382	1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
		2.4000A ALTERNATE FUEL SYSTEM	1 4												
	2.4136	REGULATOR ASSY,NAT GAS													
	23520309	REGULATOR ASSY.,GAS MAXITROL ES379	1												
	2.4137	MIXING UNIT													
	11509512	BOLT, M8 X 1.25 X 25 MM	4												
	23519562	GASKET DELTEC MIXING UNIT	1												
	23519925	MIXING UNIT 140 W/GEN SET PSV GAS VLV	1												
	2.4145	BRACKET GAS VALVE MOUNTING													
	11504822	BOLT, M8 X 1.25 X 30	3												
	11507036	NUT, M8 X 1.25	3												
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.	2												
	23518173	ADAPTOR FUEL MIXER TO TURBO INL S50G	1												
	23519605	BRACKET GAS MIXER MTG	1												
	2.4170	TUBE GAS GOVERNOR INLET													
	23520310	HOSE 5.00 X 3.00 L	1												
	5114937	CLAMP, 5 1/2"-6" CLAMPING RANGE (3.1280)	1												
	2.4171	TUBE AIR INTAKE													
	23519735	HOSE 5.50 X 2.65 LG	1												
	5114937	CLAMP, 5 1/2"-6" CLAMPING RANGE (3.1280)	2												
	8926958	CLAMP, HOSE 4" (.75" W.)	1												
	2.4192	HOSE HUMP ADAPTOR TO INT TUBE													
	23519615	TUBE ADAPTOR TO TURBO	1												
	23519929	HOSE HUMP ADAPTOR TO INT TUBE	1												
	5114937	CLAMP, 5 1/2"-6" CLAMPING RANGE (3.1280)	2												

DETROIT DIESEL

SERIES 60 ENGINE

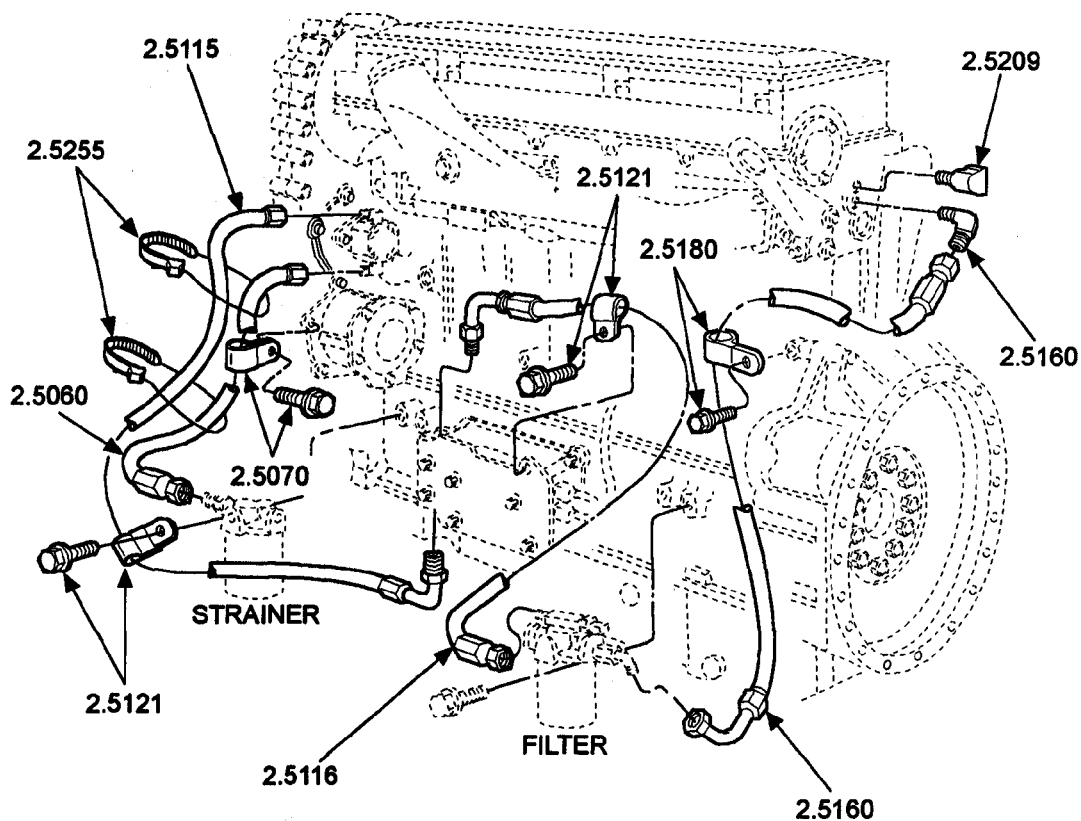


FIG. 1 FUEL LINES

24001

FIG. 1 OF 2.5000A

DETROIT DIESEL

SERIES 60 ENGINE

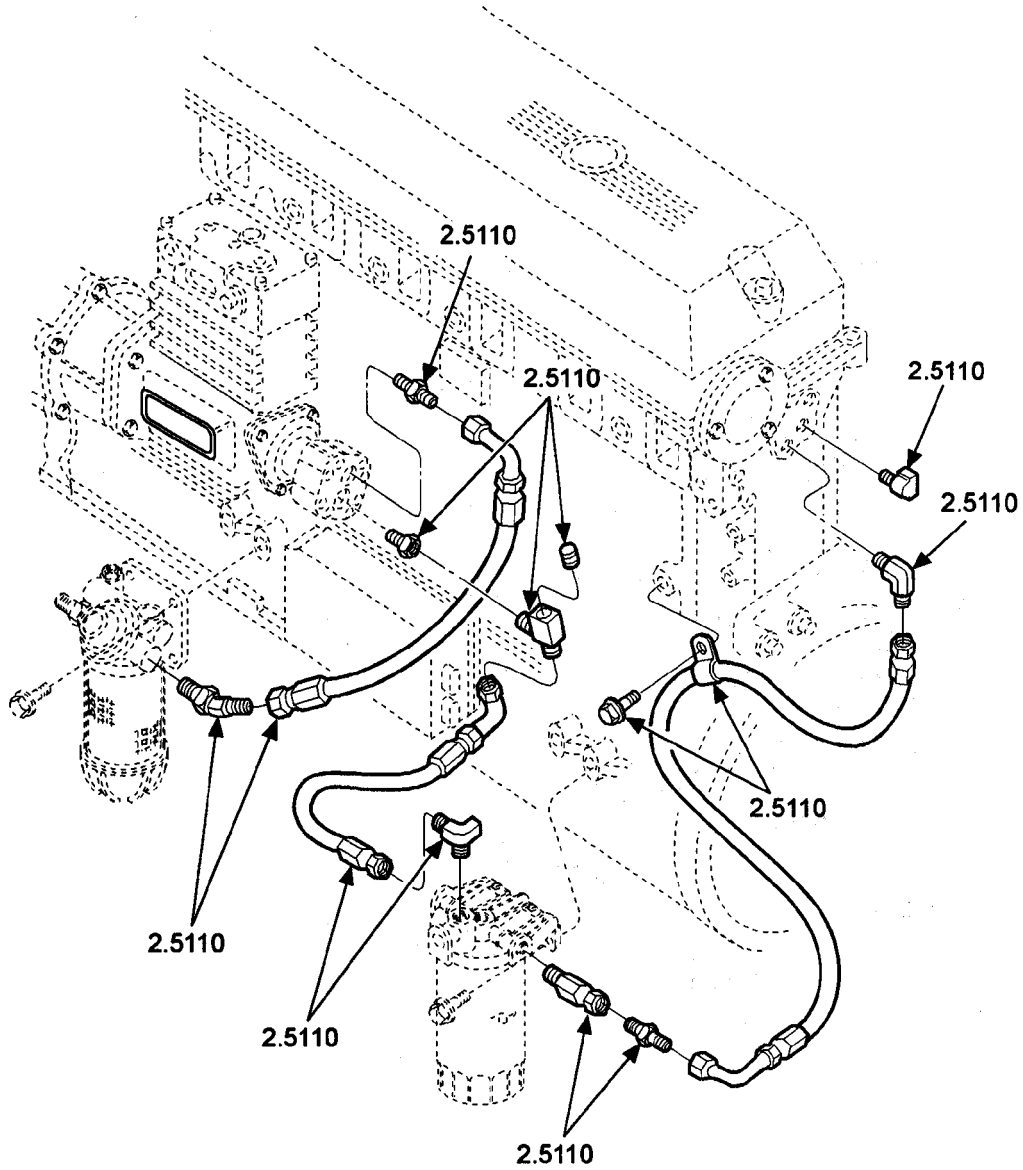


FIG. 2 FUEL LINES

24088

FIG. 2 OF 2.5000A

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
				1	1	1	1	1	1	1	1	1	1	1	1	
				7	7	7	7	7	8	8	8	8	8	8	8	
				2	5	5	8	8	1	2	2	2	2	2	3	
2.5000A FUEL LINES AND FUEL COOLER				3	3	7	1	5	7	6	0	1	4	6	7	
FOR OPTION # 2339, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06M09 6200																
	2.5006	VALVE, FUEL SUPPLY CHECK														
	23505047	VALVE ASSY, FUEL CHECK 1/4" NPTF											1			1
	2.5060	HOSE, FUEL PUMP INLET														
1	BAHH0156	HOSE ASSY., #6 X 17.9 H&H										1		1		1
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 15")		2	1	1		1								
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 19")						1								
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT) (12.8552)		4	2	2		3								
	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.) (12.8552)						1								
	8925048	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		1	1	1		1								
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)								1						1
	8924217	ELBOW, 3/8" 90 DEG. INV. FL. TUBE (12.9480)			1	1		1								
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)								1						1
	8924171	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		2												
	8924182	ELBOW, 5/16"-90 DEG. TUBE; 1/4" PIPE (.080" REST.)		1												
	2.5070	CLIP, STRAINER TO FUEL PUMP														
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)									1					1
1	2488022	CLIP, 3/8" BOLT (12.8554)		4	1	1		2		2						
1	11504986	BOLT, M8 X 1.25 X 14 MM		1	1	1		1		1	1	1	1	1	1	1
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER														
1,2	23504785	HOSE ASSY. #6 X 37.92" LG														1
2	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)														1
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)														2

				TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	8	8	8	8	8	8
				2	5	5	8	8	8	1	2	2	2	2	3
				3	3	7	1	5	7	6	0	1	4	6	7
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE													
	BACH0323	HOSE ASSY., #6 X 35.2 C&H									1				
1	8929839	HOSE ASSY. #6 X 35.19" L										1	1	1	
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 23")			1	1	1								
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 34")						1	1	1					
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT) (12.8552)	2	1	1	1	1	1	1	1					
	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.) (12.8552)		1	1	1	1	1	1	1					
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)								1		1	3	1	
	8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)					1		1	1		1		1	
	8924217	ELBOW, 3/8" 90 DEG. INV. FL. TUBE (12.9480)		1			1	1	1	1					
	8925030	ELBOW, 90 DEG. 3/8" INV. FL. TUBE (12.9480)		1	1	1	1								
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)									1	1	2		
	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L 17.5")	1												
	2.5116	HOSE, COLD PLATE TO FILTER													
1	8929840	HOSE ASSY. #6 X 21.69" L										1	1	1	
	BACH0188	HOSE ASSY., #6 X 21.7" C&H									1				
	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 19")						1	1						
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 26")		1	1	1									
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT) (12.8552)		1	1	1		1	1						
	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.) (12.8552)		1	1	1		1	1						
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)									1				
	8924171	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		1	1	1									
	8924998	ELBOW (90 DEG.)										1	1	1	
	8925030	ELBOW, 90 DEG. 3/8" INV. FL. TUBE (12.9480)		1	1	1		1	1						
	2.5121	CLIP, COLD PLATE TO FILTER HOSE													
1	2488022	CLIP, 3/8" BOLT (12.8554)		2	2	2		2	2						
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)									2				2
1	11503454	BOLT, M10 X 1.5 X 20.0						1							

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	8	8	8	8	8	8	8
				2	5	5	8	8	8	1	2	2	2	2	2	3
				3	3	7	1	5	7	6	0	1	4	6	7	
	2.5160	HOSE, FILTER TO CYLINDER HEAD														
1	BAHP0213	HOSE ASSY., #6 X 23.7" H&P									1	1	1	1	1	
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 21")			1	1	1	1	1	1						
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT) (12.8552)		1	1	1	1	1	1	1						
	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.) (12.8552)		1	1	1	1	1	1	1						
	8924171	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		2	1	1	1	1	1	1						
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)									1	1	1	1	1	
	8929877	CONNECTOR, 3/8" NPTF STRAIGHT (5.2050)								1			1	1	1	
1	8924217	ELBOW, 3/8" 90 DEG. INV. FL. TUBE (12.9480)		3	1	1	1	1	1	1						
1	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)			1	1	1	1	1		1	1				
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)									1	1	1	1	1	
	5136241	PLUG, CAP (.580" DIA.) (2.2001)		1												
	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L.44")		1												
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC		1												
	2.5180	CLIP, CYLINDER HEAD INLET														
1,2	2362448	CLIP .888" DIA 3/8" BOLT CTD (12.8554)									1					1
1	2488022	CLIP, 3/8" BOLT (12.8554)			1	1	1	2	2							
1,2	11504986	BOLT, M8 X 1.25 X 14 MM							1							
	2.5255	SHIELDING, FLEXIBLE HOSE														
1	5101020	STRAP, NYLON (2.5255)		5	2	2	2	2			2		2		2	
	2.5260	VALVE, FUEL SYSTEM SHUTOFF														
	23509987	VALVE 1/4" NPTF						1			1					

[illegible]

				TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				8	8	8	8	8	8	8	8	8	8	8	8
				3	3	4	5	6	6	6	6	6	7	7	7
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	8	9	0	7	1	2	4	5	8	3	6	7
2.5000A FUEL LINES AND FUEL COOLER															
	2.5160	HOSE, FILTER TO CYLINDER HEAD													
1	BAHP0213	HOSE ASSY., #6 X 23.7" H&P		1	1	1	1	1		1		1			
2	23505209	HOSE ASSY., #6X50.88" L.							1		1		1	1	1
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)													1
1	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)					1	1		1		1			
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	1	1									
	8929877	CONNECTOR, 3/8" NPTF STRAIGHT (5.2050)				1									
1	23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)								1					
1	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)		1	1										
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)		1	1	1	1	1	1	1	1	1	1	1	1
	2.5180	CLIP, CYLINDER HEAD INLET													
1,2	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1	1	1	1	1	1	1	1	1	1	1	1
1,2	11504986	BOLT, M8 X 1.25 X 14 MM					1	1	1	1	1	1	1	1	1
	2.5215	HOSE, FUEL DRAIN													
	23505168	HOSE ASSY, 15.50 IN 3/8 NPTF 5/8-18 S60			1		1		1	1					1
	8929877	CONNECTOR, 3/8" NPTF STRAIGHT (5.2050)									1	1		1	
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)					1	1	1	1			1		1
	2.5255	SHIELDING, FLEXIBLE HOSE													
1	5101020	STRAP, NYLON (2.5255)							AR		AR			AR	AR
	2.5260	VALVE, FUEL SYSTEM SHUTOFF													
	23509987	VALVE 1/4" NPTF		1				1	1		1	1	1		
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)										1			
	8924998	ELBOW (90 DEG.)							1		1		1		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES										
				1	1	1	1	1	1	1	1	1	1	1
				8	8	8	9	9	9	9	9	9	9	9
				7	8	9	0	1	1	1	2	2	3	4
		2.5000A FUEL LINES AND FUEL COOLER		8	8	9	1	1	2	9	8	9	3	4
	2.5006	VALVE, FUEL SUPPLY CHECK												
	23505047	VALVE ASSY, FUEL CHECK 1/4" NPTF	1	1										
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1										
	8924998	ELBOW (90 DEG.)	1											
	2.5060	HOSE, FUEL PUMP INLET												
2	BBLP0220	HOSE ASSY., #8 X 25.0" L&P							1					
2	23509154	HOSE ASSY., #8 X 14.50" FC350-08			1		1	1			1	1		1
2	8924148	CONN 1/2 FLD TUB 3/8 NPTF BRS			1			1						
2	23511335	ELBOW, 90 DEG. 3/4"-16 37 DEG. FL.							AR					
	8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)	1											
2	8924201	EL 45 DEG 1/2"FLD TUB 3/8"NPTF			1			1						
	2.5070	CLIP, STRAINER TO FUEL PUMP												
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	3	1	1		1	2		1	1	1		
	5108612	BRACKET (4.4345)			1		1							
	11503454	BOLT, M10 X 1.5 X 20.0	1											
1	11504986	BOLT, M8 X 1.25 X 14 MM								1	1	1		
	11509511	BOLT, M8 X 1.25 X 20 MM			1		1							
	11507036	NUT, M8 X 1.25			1		1							
	2.5101	TUBE, FUEL PUMP TO CYLINDER HEAD												
1	BAHP0311	HOSE ASSY., #6 X 33.5" H&P						1						1
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)						1						
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)						1						1
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER												
1,2	23504785	HOSE ASSY. #6 X 37.92" LG	1											
2	23505202	HOSE ASSY, #6 X 14.92" LG			1	1	1			1	1	1	1	
1	23505203	HOSE ASSY, #6 X 14.44" LG								1				
2	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)	1											
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1			1		1				1		1
2	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)			1			1						
2	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)					1							
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1			1								

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				TYPES														
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1		
				8	8	8	9	9	9	9	9	9	9	9	9	9	9	9
				7	8	9	0	1	1	1	2	2	3	3	4	4	4	4
				8	8	9	1	1	2	9	8	9	3	4	3	3	3	3
	2.5000A	FUEL LINES AND FUEL COOLER																
	2.5215	HOSE, FUEL DRAIN																
	23505168	HOSE ASSY, 15.50 IN 3/8 NPTF 5/8-18 S60								1								
	23509139	HOSE ASM 15.50 IN 3/8 NPTF 3/8				1										1		
	23509140	VALVE ASM FUEL CHK 3/8 NPTF #8				1		1										
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)		1	1	1		1	1	1			1	1	1			
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)							1				1					
	2.5220	CLIP, FUEL DRAIN																
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)							1							1		
	5101020	STRAP, NYLON (2.5255)														1		
	11504986	BOLT, M8 X 1.25 X 14 MM							1							1		
	2.5255	SHIELDING, FLEXIBLE HOSE																
1	5101020	STRAP, NYLON (2.5255)		AR				AR	AR					AR				
	2.5260	VALVE, FUEL SYSTEM SHUTOFF																
	23509987	VALVE 1/4" NPTF				1		1										
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)						2										
	8924998	ELBOW (90 DEG.)				1												

[illegible]

			TYPES											
			1	1	1	1	1	1	1	1	2	2	2	2
			9	9	9	9	9	9	9	9	0	0	0	0
			4	6	6	7	7	8	8	8	2	2	3	5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	3	6	2	3	1	5	7	0	4	3
		2.5000A FUEL LINES AND FUEL COOLER												
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER												
	BAHH0126	HOSE ASSY., #6 X 14.9 H&H									1			
1,2	23504785	HOSE ASSY. #6 X 37.92" LG							1					
2	23505202	HOSE ASSY. #6 X 14.92" LG	1							1				
1	23505203	HOSE ASSY. #6 X 14.44" LG						1						2
1	23509181	HOSE ASSY., #6X16.75" L.			1									
2	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)			1									
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1		1						1	2		
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE						1						
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)			1									
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE												
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P											1	
1	8929839	HOSE ASSY. #6 X 35.19" L		1										
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		1										
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)		1										
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)		1										
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)											1	
	2.5116	HOSE, COLD PLATE TO FILTER												
	BAHP0188	HOSE ASSY., #6 X 21.2" H&P											1	
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)											1	
	2.5117	HOSE, COLD PLATE TO FUEL FILTER												
	8929840	HOSE ASSY. #6 X 21.69" L		1										
	2.5121	CLIP, COLD PLATE TO FILTER HOSE												
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)												2

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	2	2	2	2
				9	9	9	9	9	9	9	9	0	0	0	0
				4	6	6	7	7	8	8	8	2	2	3	5
				6	3	6	2	3	1	5	7	0	4	3	2
				2.5000A FUEL LINES AND FUEL COOLER											
	2.5160	HOSE, FILTER TO CYLINDER HEAD													
1	BAHP0213	HOSE ASSY., #6 X 23.7" H&P			1			1	1					1	
2	23505209	HOSE ASSY, #6X50.88" L.	1			1									
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)			1										
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)												1	
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE							1						
1	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)												1	
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1		2	1								1	
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)							1						
	2.5180	CLIP, CYLINDER HEAD INLET													
1,2	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2					1	4					1	
1,2	11504986	BOLT, M8 X 1.25 X 14 MM	1					1	1						
	2.5209	VALVE, FUEL DRAIN CHECK													
	23508727	VALVE ASSY, FUEL CHECK 3/8" NPTF						1				1			
	23509140	VALVE ASM FUEL CHK 3/8 NPTF #8	1						1						
2	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)						1	1			1	1		
	2.5215	HOSE, FUEL DRAIN													
	23505203	HOSE ASSY, #6 X 14.44" LG						1							
	23509139	HOSE ASM 15.50 IN 3/8 NPTF 3/8				1									
	23509140	VALVE ASM FUEL CHK 3/8 NPTF #8				1									
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)	1			1									
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)	1												
	5101020	STRAP, NYLON (2.5255)						1							
	2.5220	CLIP, FUEL DRAIN													
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)				2						1	1		
	5101020	STRAP, NYLON (2.5255)										1	1		
	11503454	BOLT, M10 X 1.5 X 20.0				1									
	11504986	BOLT, M8 X 1.25 X 14 MM										1	1		
	2.5255	SHIELDING, FLEXIBLE HOSE													
1	5101020	STRAP, NYLON (2.5255)			AR	AR								2	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	2	2	2	2
				9	9	9	9	9	9	9	9	0	0	0	0
				4	6	6	7	7	8	8	8	2	2	3	5
		2.5000A FUEL LINES AND FUEL COOLER		6	3	6	2	3	1	5	7	0	4	3	2
	2.5260	VALVE, FUEL SYSTEM SHUTOFF													
	23509987	VALVE 1/4" NPTF			1	1								1	
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	BAHP0184	HOSE ASSY., #6 X 20.8" H&P					1								
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P													1
	5126693	HOSE ASSY., 3/16"X29" L. (12.4065)					1			1	1				1
	5101020	STRAP, NYLON (2.5255)					1				1				
	5144934	CLIP, .438" DIA. 3/8" BOLT					1			1	1				1
	5144629	BRACKET, CLIP 90 DEG.					1								
	5177331	BRACKET (4.8042)								1	1				1
	11504986	BOLT, M8 X 1.25 X 14 MM													1
	11507036	NUT, M8 X 1.25													1
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H					1				1				1
	23507192	HOSE ASSY., #6 X 33.42"								1					
	23514288	TEE ASSY.FUEL STL .080 ORIFICE PROCHEK								1					1
	11504986	BOLT, M8 X 1.25 X 14 MM													1
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE					1			1	1				
	8924998	ELBOW (90 DEG.)					1								1
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)					1			1	1				2
	5108612	BRACKET (4.4345)								1					1
	11509511	BOLT, M8 X 1.25 X 20 MM					1			1	1				
	11507036	NUT, M8 X 1.25					1			1	1				1
	2.5530	HOSE ASSY., AIR VENT BLEEDER													
	23508727	VALVE ASSY, FUEL CHECK 3/8" NPTF					1				1				
	23509822	TEE, 1/4"-18 W/SEAL (12.9161)								1					
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)					1				1				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 0 5 3	2 0 5 4	2 0 5 8	2 0 5 9	2 0 6 4	2 0 6 5	2 0 6 6	2 0 6 7	2 0 6 9	2 0 8 4	2 0 8 5	2 0 8 8
		2.5000A FUEL LINES AND FUEL COOLER													
	2.5006	VALVE, FUEL SUPPLY CHECK													
	23508727	VALVE ASSY, FUEL CHECK 3/8" NPTF	1				1								
	2.5050	TUBE, STRAINER TO FUEL PUMP													
	BAHP0121	HOSE ASSY., #6 X 14.4" H&P					1								
	BBLP0220	HOSE ASSY., #8 X 25.0" L&P					1								
	23515480	CAP ALUMINUM SPILL HOSE								1					
	2.5060	HOSE, FUEL PUMP INLET													
2	MBHH0165	HOSE ASSY., #8 X 16.5" L H&H											1		
1	23509154	HOSE ASSY., #8 X 14.50" FC350-08				1	1								
1	BAHH0156	HOSE ASSY., #6 X 17.9 H&H	1												
2	8924148	CONN 1/2 FLD TUB 3/8 NPTF BRS				1	1								
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)	1												
2	8924201	EL 45 DEG 1/2"FLD TUB 3/8"NPTF				1	1								
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1												
	BBHP0115	HOSE ASSY., #8 X 14.9" LG						1					1		
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)													1
	2.5070	CLIP, STRAINER TO FUEL PUMP													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)				2	2	1				1	2		
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1												
1	11504986	BOLT, M8 X 1.25 X 14 MM	1					1				1			
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER													
2	BAHH0126	HOSE ASSY., #6 X 14.9 H&H		1				1	1				1		
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)				1	1			2		2			
2	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)				1	1								
	BAHP0213	HOSE ASSY., #6 X 23.7" H&P						1							
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)						1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				0	0	0	0	0	0	0	0	0	0	0	0
		2.5000A FUEL LINES AND FUEL COOLER		5	5	5	5	6	6	6	6	6	8	8	8
				3	4	8	9	4	5	6	7	9	4	5	8
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE													
	BACH0253	HOSE ASSY., #6 X 28.2 C&H					1								
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P	1		1										
	23516523	CONN ASM.9/16-18 X 1.332 STGT	1		1										
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)				1	1								
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1												
	2.5116	HOSE, COLD PLATE TO FILTER													
	BAHP0188	HOSE ASSY., #6 X 21.2" H&P	1							1					
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)	1												
	23516523	CONN ASM.9/16-18 X 1.332 STGT	1												
	2.5117	HOSE, COLD PLATE TO FUEL FILTER													
	BACH0188	HOSE ASSY., #6 X 21.7" C&H					1								
	BAHP0188	HOSE ASSY., #6 X 21.2" H&P				1									
	23516523	CONN ASM.9/16-18 X 1.332 STGT				1									
	2.5121	CLIP, COLD PLATE TO FILTER HOSE													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	2												
	2.5160	HOSE, FILTER TO CYLINDER HEAD													
1	BAHP0213	HOSE ASSY., #6 X 23.7" H&P	1		1	1		1							
	MAHP0237	HOSE ASSY.,#6 X 23.7 H&P								1				1	
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	1												
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE						1	1	1	1	1	1	1	1
1	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)	1								1				
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)	1		1	1									
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P						1				1	1		
	BAHU0465	HOSE ASSY., #6 X 48.9" LG													1
	MAHU0489	HOSE ASSY., NO.6 X 48.9								1					
	11504986	BOLT, M8 X 1.25 X 14 MM								1					
	2236474	CLIP, #10								2					

				TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				0	0	0	0	0	0	0	0	0	0	0	0
				5	5	5	5	6	6	6	6	6	8	8	8
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	8	9	4	5	6	7	9	4	5	8
2.5000A FUEL LINES AND FUEL COOLER															
	2.5180	CLIP, CYLINDER HEAD INLET													
1,2	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1		1	1		1						
1,2	11504986	BOLT, M8 X 1.25 X 14 MM				1	1		1						
	2.5209	VALVE, FUEL DRAIN CHECK													
	23508727	VALVE ASSY, FUEL CHECK 3/8" NPTF				1									
	23509140	VALVE ASM FUEL CHK 3/8 NPTF #8			1										
2	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)													1
	23516919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST													1
	2.5215	HOSE, FUEL DRAIN													
	MAHH0200	HOSE ASSY # 6 X 20.0 H&H												1	
	23509139	HOSE ASM 15.50 IN 3/8 NPTF 3/8			1						1				1
	23509140	VALVE ASM FUEL CHK 3/8 NPTF #8									1				
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)				1	1		1	1				1	
	5101020	STRAP, NYLON (2.5255)										1			
	BAHH0070	HOSE ASSY., #6 X 9.3" LG													1
	23513639	VALVE ASM.FUEL CHECK 3/8 NPTF #6							1		1				
	23516993	VALVE, CHK FUEL 3/8 NPTF FEMALE #6 SST												1	
	23517006	HOSE ASSY., 23.00 IN 3/8 NPTF 3/8-23						1	1		1			1	
	2.5220	CLIP, FUEL DRAIN													
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)												1	2
	11504986	BOLT, M8 X 1.25 X 14 MM												1	1
	2.5250	BLOCK,FUEL SYSTEM JUNCTION													
	8923847	PLUG, PIPE 1/4-18" NPTF											1		
	2.5255	SHIELDING, FLEXIBLE HOSE													
1	5101020	STRAP, NYLON (2.5255)		2		AR	AR	1			2				
	2.5260	VALVE, FUEL SYSTEM SHUTOFF													
	23509987	VALVE 1/4" NPTF		1		1	1								
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)				2	2								
	23513639	VALVE ASM.FUEL CHECK 3/8 NPTF #6							1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 0 5 3	2 0 5 4	2 0 5 8	2 0 5 9	2 0 6 4	2 0 6 5	2 0 6 6	2 0 6 7	2 0 6 9	2 0 8 4	2 0 8 5	2 0 8 8
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P			1										
	5126693	HOSE ASSY., 3/16"X29" L. (12.4085)											1		
	5101020	STRAP, NYLON (2.5255)		1									1		
	5144934	CLIP, .438" DIA. 3/8" BOLT											1		
	5144629	BRACKET, CLIP 90 DEG.											1		
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H											1		
	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)		1						1					
	23515376	TEE ASSY., FUEL STL .080 ORIFICE PROCHEK		1						1			1		
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT								1			1		
	11505299	BOLT, M10 X 1.5 X 30.0 MM								2			2		
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE		1											
	8924998	ELBOW (90 DEG.)								1			1		
	11509512	BOLT, M8 X 1.25 X 25 MM											1		
	11507036	NUT, M8 X 1.25											1		
	5133163	HOSE ASSY., #4 X 21" (12.4065)		1						1					

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				0	0	1	1	1	1	1	1	1	1	1	1
		2.5000A FUEL LINES AND FUEL COOLER		8	9	0	0	0	1	1	1	1	1	2	2
				9	1	5	7	8	2	3	4	8	9	2	3
	2.5050	TUBE, STRAINER TO FUEL PUMP													
	BAHP0066	HOSE ASSY., #8 X 9.0" H&P				1									
	BBLP0178	HOSE ASSY., #8 X 20.8" L&P				1									
	23515480	CAP ALUMINUM SPILL HOSE							1						1
	2.5060	HOSE, FUEL PUMP INLET													
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H		1			1	1		1	1				
	MAHH0179	HOSE ASSY., #6 X 17.9" LG. H&H			1										
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)							1						
	2.5070	CLIP, STRAINER TO FUEL PUMP													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)							1	1			2	1	3
	5108612	BRACKET (4.4345)													1
	11503454	BOLT, M10 X 1.5 X 20.0													1
1	11504986	BOLT, M8 X 1.25 X 14 MM							1	1			1	1	1
	11507036	NUT, M8 X 1.25													1
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER													
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)											2	1	1
2	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)						1							
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H						1		1	1				
	BAHH0356	HOSE ASSY., #6 X 37.9 H&H			1										
	BAHP0165	HOSE ASSY., #6 X 18.9" H&P				1									
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)			1					1	1			1	1
	2.5117	HOSE, COLD PLATE TO FUEL FILTER													
	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)					1								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	2	2	2	2	2
				0	0	1	1	1	1	1	1	1	1	1	1
				8	9	0	0	0	1	1	1	1	1	1	2
				9	1	5	7	8	2	3	4	8	9	2	3
2.5000A FUEL LINES AND FUEL COOLER															
1	2.5160	HOSE, FILTER TO CYLINDER HEAD													
	MAHP0237	HOSE ASSY.,#6 X 23.7 H&P			1						1				
	MAHP0284	HOSE ASSY.,#6 X 28.4"L										1			
	MAHP0384	HOSE ASSY., #6 X 38.4 LG H&P SAE FTG							1					1	
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE		1	1	1	1	1	1	1	1		1	1	1
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)								1					
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)		1					1						
	BAHP0213	HOSE ASSY., #6 X 23.7" H&P		1		1	1	1					1		
	BAHU0465	HOSE ASSY., #6 X 48.9" LG												1	1
1,2	2.5180	CLIP, CYLINDER HEAD INLET													
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1		1	3					2			
	5108612	BRACKET (4.4345)										1			
1,2	11504986	BOLT, M8 X 1.25 X 14 MM		1		1	1					2			
	11507036	NUT, M8 X 1.25										1			
2	2.5209	VALVE, FUEL DRAIN CHECK													
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)				1									
	23516918	VALVE CHK FUEL 3/8 NPTF MALE				1						1			
	2.5215	HOSE, FUEL DRAIN													
	8929877	CONNECTOR, 3/8" NPTF STRAIGHT (5.2050)						1						1	
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)		1			1								
	5101020	STRAP, NYLON (2.5255)								1					1
	23516919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST		1						1					3
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H		1											
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P					1								
	MAHH0093	HOSE ASM NO. 6 X 9.3 H&H												1	1
	23516523	CONN ASM.9/16-18 X 1.332 STGT					2								
	23516918	VALVE CHK FUEL 3/8 NPTF MALE					1				1		1		1
	23516993	VALVE, CHK FUEL 3/8 NPTF FEMALE #6 SST												1	
	23517006	HOSE ASSY., 23.00 IN 3/8 NPTF 3/8-23		1										1	
	2.5220	CLIP, FUEL DRAIN													
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)			4			1							
	11504986	BOLT, M8 X 1.25 X 14 MM			1			1							
1	2.5255	SHIELDING, FLEXIBLE HOSE													
	5101020	STRAP, NYLON (2.5255)					1						1	3	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 0 8 9	2 0 9 1	2 1 0 5	2 1 0 7	2 1 0 8	2 1 1 2	2 1 1 3	2 1 1 4	2 1 1 8	2 1 1 9	2 1 2 2	2 1 2 3
		2.5000A FUEL LINES AND FUEL COOLER													
	2.5260	VALVE, FUEL SYSTEM SHUTOFF													
	23513639	VALVE ASM.FUEL CHECK 3/8 NPTF #6			1										
	23517075	VALVE ASSY.,FUEL SHUTOFF	1												
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	5126693	HOSE ASSY., 3/16"X29" L. (12.4065)										1			
	5144934	CLIP, .438" DIA. 3/8" BOLT										1			
	5144629	BRACKET, CLIP 90 DEG.										1			
	11505299	BOLT, M10 X 1.5 X 30.0 MM										2			
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H										1			
	23515376	TEE ASSY.,FUEL STL .080 ORIFICE PROCHEK										1			
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE										1			
	8924998	ELBOW (90 DEG.)										1			
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)										1			
	11509511	BOLT, M8 X 1.25 X 20 MM										1			
	11507036	NUT, M8 X 1.25										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	3	3	4	4	4	4	5	5
				4	5	6	7	8	1	9	3	4	5	7	2
	2.5050	TUBE, STRAINER TO FUEL PUMP													
	BAHP0066	HOSE ASSY., #6 X 9.0" H&P						1				1			
	BBLP0178	HOSE ASSY., #8 X 20.8" L&P						1				1			
	23515480	CAP ALUMINUM SPILL HOSE					1	1							
	2.5060	HOSE, FUEL PUMP INLET													
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H				1			1				1		
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)					1		1	1	1				
	2.5070	CLIP, STRAINER TO FUEL PUMP													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1	2		2	1	2	1		1	1		2
1	11504986	BOLT, M8 X 1.25 X 14 MM		1	1		1	1	1	1		1			1
	11507036	NUT, M8 X 1.25							1						
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER													
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		2	1										1
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H				1									
	BAHP0165	HOSE ASSY., #6 X 18.9" H&P						1				1			
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)		1	1		1	1				1			1
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE													
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P												1	
	2.5116	HOSE, COLD PLATE TO FILTER													
	BAHP0188	HOSE ASSY., #6 X 21.2" H&P									1				
	2.5160	HOSE, FILTER TO CYLINDER HEAD													
	MAHP0237	HOSE ASSY., #6 X 23.7 H&P						1				1			
	MAHP0284	HOSE ASSY., #6 X 28.4"L									1				
	MAHP0384	HOSE ASSY., #6 X 38.4 LG H&P SAE FTG		1						1					
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE		1	1	1	1	1	1	1	1	1	1	1	1
	BAHP0213	HOSE ASSY., #6 X 23.7" H&P				1									
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P							1				1		
	BAHU0465	HOSE ASSY., #6 X 46.9" LG			1		1								1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	2	2	2	2	2
				1	1	1	1	1	1	1	1	1	1	1	1
		2.5000A FUEL LINES AND FUEL COOLER		2	2	2	2	3	3	4	4	4	4	5	
				4	5	6	7	8	1	9	3	4	5	7	2
	2.5167	TUBE, JUNCTION BLOCK TO COLD PLATE													
	BAHH0126	HOSE ASSY., #6 X 14.9 H&H												1	
	2.5175	TUBE, JUNCTION BLOCK TO CYLINDER HEAD													
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)												1	
	2.5180	CLIP, CYLINDER HEAD INLET													
1,2	11504986	BOLT, M8 X 1.25 X 14 MM					1								
	2236474	CLIP, #10					1								
	2.5209	VALVE, FUEL DRAIN CHECK													
2	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)					1								
	2.5215	HOSE, FUEL DRAIN													
	23509139	HOSE ASM 15.50 IN 3/8 NPTF 3/8								1	1				
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)								1					
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)					1								
	5101020	STRAP, NYLON (2.5255)	1							1	2				
	23516919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST					1			1	1				
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H						1					1		
	MAHH0093	HOSE ASM NO. 6 X 9.3 H&H			1		1								1
	23516918	VALVE CHK FUEL 3/8 NPTF MALE						1				1		1	1
	23516993	VALVE, CHK FUEL 3/8 NPTF FEMALE #6 SST			1										
	23517006	HOSE ASSY., 23.00 IN 3/8 NPTF 3/8-23			1										
	2.5250	BLOCK, FUEL SYSTEM JUNCTION													
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)												1	
	23511176	SENSOR, OIL/FUEL PRESSURE												1	
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE												1	
	8923847	PLUG, PIPE 1/4-18" NPTF												1	
	8925267	BLOCK												1	
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)												1	
	2.5255	SHIELDING, FLEXIBLE HOSE													
1	5101020	STRAP, NYLON (2.5255)												1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	3	3	4	4	4	4	5	5
				4	5	6	7	8	1	9	3	4	5	7	2
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	BAHP0165	HOSE ASSY., #6 X 18.9" H&P												1	
	5126693	HOSE ASSY., 3/16"X29" L. (12.4065)							1				1	1	
	5101020	STRAP, NYLON (2.5255)											1		
	5144934	CLIP, .438" DIA. 3/8" BOLT							1				1	1	
	5144629	BRACKET, CLIP 90 DEG.											1	1	
	5177331	BRACKET (4.8042)							1						
	11504986	BOLT, M8 X 1.25 X 14 MM							1						
	11505299	BOLT, M10 X 1.5 X 30.0 MM												2	
	11507036	NUT, M8 X 1.25							1				1		
	11509512	BOLT, M8 X 1.25 X 25 MM											1		
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H							1				1	1	
	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)									1				
	23514288	TEE ASSY.FUEL STL .080 ORIFICE PROCHEK							1						
	23515376	TEE ASSY.,FUEL STL .080 ORIFICE PROCHEK									1		1	1	
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT							1		1		1		
	11503454	BOLT, M10 X 1.5 X 20.0												1	
	11505299	BOLT, M10 X 1.5 X 30.0 MM							2		2		2		
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE												1	
	8924998	ELBOW (90 DEG.)							1		1		1	1	
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)											1	3	
	5108612	BRACKET (4.4345)							1						
	11509512	BOLT, M8 X 1.25 X 25 MM												1	
	11507036	NUT, M8 X 1.25												1	
	5133163	HOSE ASSY., #4 X 21" (12.4065)									1				
	8923847	PLUG, PIPE 1/4-18" NPTF											1		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				1	1	1	1	1	1	1	1	1	2	2	2
		2.5000A FUEL LINES AND FUEL COOLER		5	5	6	6	6	6	8	8	9	0	0	1
				5	9	1	2	3	6	0	7	7	0	4	1
	2.5050	TUBE, STRAINER TO FUEL PUMP													
	BAHP0066	HOSE ASSY., #8 X 9.0" H&P				1					1				
	BBLP0178	HOSE ASSY., #8 X 20.8" L&P									1				
	5101020	STRAP, NYLON (2.5255)									1				
	2.5060	HOSE, FUEL PUMP INLET													
	MBHH0165	HOSE ASSY., #8 X 16.5" L H&H										1			
2	8924148	CONN 1/2 FLD TUB 3/8 NPTF BRS								1					
2	8924201	EL 45 DEG 1/2" FLD TUB 3/8" NPTF								1					
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H							1	1					1
	MAHH0269	HOSE ASM NO 6 X 26.9 H&H												1	1
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		1	1		1						1	1	
	2.5070	CLIP, STRAINER TO FUEL PUMP													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)			1	1	2		2	2					
1	11504986	BOLT, M8 X 1.25 X 14 MM			1	1	1	1							
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER													
2	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)								1					
	BAHP0165	HOSE ASSY., #6 X 18.9" H&P				1									
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)				1									
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE													
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P						1	1	1	1				
	23516523	CONN ASM. 9/16-18 X 1.332 STGT						2							
	8929831	CONNECTOR, STRAIGHT 3/8 FLD TUBE 3/8 PIPE (12.9460)								1					
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)						1							
	2.5116	HOSE, COLD PLATE TO FILTER													
	MAHP0212	HOSE ASM NO 6 X 21.2 H&P													1
	BAHP0188	HOSE ASSY., #6 X 21.2" H&P		1				1		1					1
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)													1
	8924998	ELBOW (90 DEG.)													1
	MAHP0189	HOSE ASSY., #6 X 18.9" L H&P												1	

			TYPES											
			2	2	2	2	2	2	2	2	2	2	2	2
			1	1	1	1	1	1	1	1	1	2	2	2
			5	5	6	6	6	6	8	8	9	0	0	1
			5	9	1	2	3	6	0	7	7	0	4	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		2.5000A FUEL LINES AND FUEL COOLER		1	1	1	1	1	1	1	1	1	2	2	2
				5	5	6	6	6	8	8	9	0	0	1	
				5	9	1	2	3	6	0	7	7	0	4	1
	2.5215	HOSE, FUEL DRAIN													
	MAHH0200	HOSE ASSY # 6 X 20.0 H&H										1			
	23505168	HOSE ASSY, 15.50 IN 3/8 NPTF 5/8-18 S60					1								
	23509139	HOSE ASM 15.50 IN 3/8 NPTF 3/8	1											1	
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)					1		1		1				
	5101020	STRAP, NYLON (2.5255)	1	1			3						1	1	
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H						1							
	MAHH0093	HOSE ASM NO. 6 X 9.3 H&H	1				1								
	23516523	CONN ASM.9/16-18 X 1.332 STGT							2						
	23516918	VALVE CHK FUEL 3/8 NPTF MALE					1		1	1					
	23516993	VALVE, CHK FUEL 3/8 NPTF FEMALE #6 SST				1		1				1			
	23517006	HOSE ASSY., 23.00 IN 3/8 NPTF 3/8-23			1			1				1			
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)					1			1		1			
	2.5250	BLOCK,FUEL SYSTEM JUNCTION													
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)												1	
	23511176	SENSOR, OIL/FUEL PRESSURE													1
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE												1	1
	8923847	PLUG, PIPE 1/4-18" NPTF											2		
	8925267	BLOCK											1		
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)											1		
1	2.5255	SHIELDING, FLEXIBLE HOSE													
	5101020	STRAP, NYLON (2.5255)								AR					1
	2.5260	VALVE, FUEL SYSTEM SHUTOFF													
	23509987	VALVE 1/4" NPTF							1						
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)							2						
	23517075	VALVE ASSY.,FUEL SHUTOFF													1
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	5126693	HOSE ASSY., 3/16"X29" L. (12.4065)						1				1			
	5101020	STRAP, NYLON (2.5255)						1							
	5144934	CLIP, .438" DIA. 3/8" BOLT						1				1			
	5144629	BRACKET, CLIP 90 DEG.						1				1			
	11507036	NUT, M8 X 1.25						1				1			
	11509512	BOLT, M8 X 1.25 X 25 MM						1				1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		2.5000A FUEL LINES AND FUEL COOLER		1	1	1	1	1	1	1	1	1	2	2	2
				5	5	6	6	6	6	8	8	9	0	0	1
				5	9	1	2	3	6	0	7	7	0	4	1
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H							1				1		
	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)		1				1							
	23515376	TEE ASSY., FUEL STL .080 ORIFICE PROCHEK		1					1				1		
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT		1					1				1		
	11505299	BOLT, M10 X 1.5 X 30.0 MM		2					2				2		
	8924998	ELBOW (90 DEG.)		1					1				1		
	5133163	HOSE ASSY., #4 X 21" (12.4065)		1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	2	2	2	2	2	2
				1	3	3	3	3	4	4	4	4	4	4	5
				6	0	2	3	5	3	4	5	6	7	9	0
	2.5006	2.5000A FUEL LINES AND FUEL COOLER													
	23521147	VALVE, FUEL SUPPLY CHECK													
		VALVE, FUEL PRESS REG 3/8 NPTF												1	
	2.5009	HOSE, FUEL SUPPLY													
	23520395	HOSE ASSY AIR BALANCE LINE INL.			1										
	2492119	ELBOW, 90 DEG. 1' FLD TUBE 3/4" NPTF			1										
	23519928	TEE			1										
	5148825	CONNECTOR, 1" FL. TUBE 3/4" PIPE (3.5428)			1										
	2.5050	TUBE, STRAINER TO FUEL PUMP													
	MAHP0090	HOSE ASM NO. 6 X 9.0 H&P									1				
	MBLP0208	HOSE ASSY., #8 X 20.8 L&P									1				
	23515480	CAP ALUMINUM SPILL HOSE				1									
	2.5060	HOSE, FUEL PUMP INLET													
	MBHH0165	HOSE ASSY., #8 X 16.5"L H&H											1		
	MAHH0269	HOSE ASM NO 6 X 26.9 H&H		1											
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)		1								1			1
	2.5070	CLIP, STRAINER TO FUEL PUMP													
1	2476233	CLIP, .750" DIA., 3/8" BOLT											1		
	2488022	CLIP, 3/8" BOLT (12.8554)										1			
	11503454	BOLT, M10 X 1.5 X 20.0										1			
1	11504986	BOLT, M8 X 1.25 X 14 MM													1
	2.5100	TUBE, FUEL PUMP TO FILTER													
	MAHH0200	HOSE ASSY # 6 X 20.0 H&H												1	
	MBHH0165	HOSE ASSY., #8 X 16.5"L H&H												1	
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER													
	BAHH0126	HOSE ASSY., #6 X 14.9 H&H					1								
2	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)				2									

				TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	2	2	2	2	2	2
				1	3	3	3	3	4	4	4	4	4	4	5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	0	2	3	5	3	4	5	6	7	9	0
		2.5000A FUEL LINES AND FUEL COOLER													
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE													
	BAHP0311	HOSE ASSY., #6 X 33.5" H&P					1								
	BAHP0450	HOSE ASSY., #6 X 47.4" LG H&P FITTINGS											1		
	23516523	CONN ASM.9/16-18 X 1.332 STGT											2		
	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)									1				
	BAHP0200	HOSE ASSY., #6 X 11.9" H&P									1				
	2.5116	HOSE, COLD PLATE TO FILTER													
	MAHP0189	HOSE ASSY.,#6 X 18.9"L H&P	1												
	2.5121	CLIP, COLD PLATE TO FILTER HOSE													
1	2488022	CLIP, 3/8" BOLT (12.8554)										1			
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)											1		
	11504986	BOLT, M8 X 1.25 X 14 MM											1		
	2.5160	HOSE, FILTER TO CYLINDER HEAD													
	NABB0230	HOSE ASSY.,23.00"L												1	
	MAHP0237	HOSE ASSY.,#6 X 23.7 H&P									1			1	
	MAHP0284	HOSE ASSY.,#6 X 28.4"L					1						2		
	MAHP0384	HOSE ASSY., #6 X 38.4 LG H&P SAE FTG					1								
	VAHP0406	HOSE ASM NO 6 X43.0 H&P WRAPPED										1			
	8929877	CONNECTOR, 3/8" NPTF STRAIGHT (5.2050)					1								
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1				1	1			1	1	1	1	1
1	8929725	ELBOW, .80" RESTRICTION, 3/8"PIPE X5/16" (2.5210)										1	1		
	23511290	NIPPLE PIPE 3/8" X 2"L (2.5209)										1			
	MAHU0489	HOSE ASSY., NO.6 X 48.9													1
	11504986	BOLT, M8 X 1.25 X 14 MM					1								
	2236474	CLIP, #10					2				1				2
	23521100	ELBOW 90 DEG 3/8 NPTF W/O RSTR BRS											1		1
	2.5175	TUBE, JUNCTION BLOCK TO CYLINDER HEAD													
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)	1				1								
	2.5180	CLIP, CYLINDER HEAD INLET													
1	2488022	CLIP, 3/8" BOLT (12.8554)											2		
	11503454	BOLT, M10 X 1.5 X 20.0					1								
1,2	11504986	BOLT, M8 X 1.25 X 14 MM									1	1	1	1	
1,2	11509511	BOLT, M8 X 1.25 X 20 MM										1		1	
	2236474	CLIP, #10					3								
	5141766	SPACER, 15/32"X1"X.29" (7.1598)										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	2	2	2	2	2	2
				1	3	3	3	3	4	4	4	4	4	4	5
				6	0	2	3	5	3	4	5	6	7	9	0
2	2.5209	VALVE, FUEL DRAIN CHECK													
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)					1								
	23516918	VALVE CHK FUEL 3/8 NPTF MALE									1		1		
	23516919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST										1			
	2.5215	HOSE, FUEL DRAIN													
	23520394	HOSE FUEL SUPPLY			1										
	23518884	ELBOW			1										
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)		1											
	MAHH0093	HOSE ASM NO. 6 X 9.3 H&H													1
	NABB0180	HOSE ASSY., 18.00LG													2
	23516918	VALVE CHK FUEL 3/8 NPTF MALE					1								
	23516993	VALVE, CHK FUEL 3/8 NPTF FEMALE #6 SST		1											
	23517006	HOSE ASSY., 23.00 IN 3/8 NPTF 3/8-23		1											
	23520990	VALVE FUEL PRESS REG 3/8 NPTF FEMALE #8													1
	2.5250	BLOCK, FUEL SYSTEM JUNCTION													
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)		1			1			1					
	23511176	SENSOR, OIL/FUEL PRESSURE					1								
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE		1			1	1		1					
	8923847	PLUG, PIPE 1/4-18" NPTF		2			1			2					
	8924998	ELBOW (90 DEG.)								1					
1	8925267	BLOCK		1			1			1					
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1			1								
	2.5255	SHIELDING, FLEXIBLE HOSE													
	5101020	STRAP, NYLON (2.5255)		1		1						1	1		
	2.5510	HOSE ASSY., PRO-CHEK INLET													
	FBHH0141	HOSE ASM NO 04 X 16.8 LG H&H						1							
	MAHP0384	HOSE ASSY., #6 X 38.4 LG H&P SAE FTG							1						
	VAHP0100	HOSE ASM 06X12.4 LG TEF HP SAE 45 WRAP						1		1					
	2236474	CLIP, #10								1					
	5144934	CLIP, .438" DIA. 3/8" BOLT						1		1					
	5141766	SPACER, 15/32"X1"X.29" (7.1598)						1		2					

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	2	2	2	2	2	2
				1	3	3	3	3	4	4	4	4	4	4	5
				6	0	2	3	5	3	4	5	6	7	9	0
	2.5520	HOSE ASSY., PRO-CHEK OUTLET													
	AHHH0130	HOSE ASSY., NO.4 X 14.76" L.							1						
	BAHH0100	HOSE ASSY., #6 X 12.3" LG							1						
	FAHH0170	HOSE ASSY.,#6 X 19.5"L						1							
	FAHP0187	HOSE ASM NO. 6 X 21.1 H&P						1		1					
	FHHP0109	HOSE ASM NO 4 X 10.9 H&P						1		1					
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT							1						
	23514288	TEE ASSY.FUEL STL .080 ORIFICE PROCHEK							1						
	23515480	CAP ALUMINUM SPILL HOSE							1						
	23520608	TEE, FUEL .080 ORIFICE W/#4 ELBOW						1		1					
	23516918	VALVE CHK FUEL 3/8 NPTF MALE							1						
	11500944	BOLT, M12X1.75X40.0 MM							2						
	11504986	BOLT, M8 X 1.25 X 14 MM									1				
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE						1	1	1					
	8924998	ELBOW (90 DEG.)							1						
	5131978	WASHER, .53 X 1.00 (1.5001)							2						
	5174085	SPACER, 15/32".I.D.X3/8" (2.7960)						1	1	1					
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)									2				
	2.5535	HOSE ASSY.,AIR BALANCE LINE													
	HAHU0185	HOSE ASSY.,#6 X 18.5"L H&U				2									
	8924998	ELBOW (90 DEG.)				2									
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)				2									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				2	2	2	2	2	2	2	2	2	2
		2.5000A FUEL LINES AND FUEL COOLER		2	2	2	2	2	2	3	3	3	
				6	6	6	6	7	7	2	3	4	
				1	2	3	4	1	6	8	4	6	
	2.5050	TUBE, STRAINER TO FUEL PUMP											
	MAHP0090	HOSE ASM NO. 6 X 9.0 H&P			1								
	MBLP0208	HOSE ASSY., #8 X 20.8 L&P			1								
	5101020	STRAP, NYLON (2.5255)						1					
	2.5060	HOSE, FUEL PUMP INLET											
	CAHH0347	HOSE ASSY., #6 X 37" LG				1							
	MBHH0165	HOSE ASSY., #8 X 16.5" L H&H	1						1				
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)				1					1		
	2.5070	CLIP, STRAINER TO FUEL PUMP											
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)					1	1	1				
	11503454	BOLT, M10 X 1.5 X 20.0				1							
	2.5110	HOSE, FUEL PUMP OUTLET TO FILTER											
	CAHP0423	HOSE ASSY., #6 X 44.7" LG								1			
2	CAHP0720	HOSE ASSY., #6 X 74.40 LG H&P FC234					1						
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)								1			
	23509136	CLIP, .640" DIA. 3/8" BOLT (2.5146)								1			
	11504986	BOLT, M8 X 1.25 X 14 MM								1			
	BAHH0356	HOSE ASSY., #6 X 37.9 H&H					1	1					
	2.5115	HOSE, FUEL PUMP OUTLET TO COLD PLATE											
	BAHP0132	HOSE ASSY., #6 X 15.6" H&P			1								
	BAHP0450	HOSE ASSY., #6 X 47.4" LG H&P FITTINGS									1		
	MAHP0335	HOSE ASM NO 6 X 33.5 H&P	1										
	23516523	CONN ASM.9/16-18 X 1.332 STGT	1										
	2236474	CLIP, #10	3									1	
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)										2	
	11503454	BOLT, M10 X 1.5 X 20.0										1	
	11504986	BOLT, M8 X 1.25 X 14 MM	1									1	
	2.5116	HOSE, COLD PLATE TO FILTER											
	MAHP0212	HOSE ASM NO 6 X 21.2 H&P	1										
	MAHP0237	HOSE ASSY., #6 X 23.7 H&P	1	1									
	23516523	CONN ASM.9/16-18 X 1.332 STGT	1										

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	3	3	3	
				6	6	6	6	7	7	2	3	4	
				1	2	3	4	1	6	8	4	6	
		2.5000A FUEL LINES AND FUEL COOLER											
	2.5121	CLIP, COLD PLATE TO FILTER HOSE											
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)					3						
	11504986	BOLT, M8 X 1.25 X 14 MM					4						
	11507036	NUT, M8 X 1.25					1						
	5114210	SUPPORT, CLIP (4.8042)					1						
	2.5160	HOSE, FILTER TO CYLINDER HEAD											
	CAHP0151	HOSE ASSY., #6 X 17.5" LG								1			
	CAHP0309	HOSE ASSY., #6 X 33.30" LG											
	MAHP0237	HOSE ASSY., #6 X 23.7 H&P		1	1			1	1				
	MAHP0384	HOSE ASSY., #6 X 38.4 LG H&P SAE FTG									1		
1	23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)					1						
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE		1	1		1	1	1				
1	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)					1	1	1		1		
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)									1		
	23526037	NIPPLE, PIPE 3/8 X 1-1/2"									1		
	CAHP0237	HOSE ASSY., #6 X 26.1" LG					1						
	11504986	BOLT, M8 X 1.25 X 14 MM					1						
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)					1						
	2.5167	TUBE, JUNCTION BLOCK TO COLD PLATE											
	MAHP0335	HOSE ASM NO 6 X 33.5 H&P										1	
	2.5175	TUBE, JUNCTION BLOCK TO CYLINDER HEAD											
	MAHP0335	HOSE ASM NO 6 X 33.5 H&P										1	
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)										1	
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)										1	
	2.5180	CLIP, CYLINDER HEAD INLET											
	5108612	BRACKET (4.4345)									1		
1,2	11504986	BOLT, M8 X 1.25 X 14 MM			1			1	1		1		
1,2	11509511	BOLT, M8 X 1.25 X 20 MM									1		
	11507036	NUT, M8 X 1.25									1		
	2236474	CLIP, #10			2			1	1		2	1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				2	2	2	2	2	2	2	2	2	2
				2	2	2	2	2	2	3	3	3	
				6	6	6	6	7	7	2	3	4	
				1	2	3	4	1	6	8	4	6	
2	2.5209	VALVE, FUEL DRAIN CHECK											
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)	1	1								1	
	23516918	VALVE CHK FUEL 3/8 NPTF MALE	1	1	1	1		1				1	
	2.5215	HOSE, FUEL DRAIN											
	CAHP0237	HOSE ASSY., #6 X 26.1" LG								1			
	8929831	CONNECTOR, STRAIGHT 3/8 FLD TUBE 3/8 PIPE (12.9460)								2			
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)								1			
	23516919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST								1	1		
	23515571	TEE, 1/4 NPT SAE 3/8 FLD TUBE								1			
	8923847	PLUG, PIPE 1/4-18" NPTF								1			
	11504986	BOLT, M8 X 1.25 X 14 MM								1			
	23516523	CONN ASM. 9/16-18 X 1.332 STGT		2						1			
	2.5250	BLOCK, FUEL SYSTEM JUNCTION											
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)										1	
	23511176	SENSOR, OIL/FUEL PRESSURE										1	
	23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE										1	
	8923847	PLUG, PIPE 1/4-18" NPTF										1	
	8925267	BLOCK										1	
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)										1	
	2.5255	SHIELDING, FLEXIBLE HOSE											
1	5101020	STRAP, NYLON (2.5255)				2		1				2	

TYPES

[illegible]

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3											
				8											
		3.1000A AIR CLEANER AND/OR ADAPTOR		5											
	3.1259	ELBOW, TURBOCHARGER AIR INLET													
	23518563	* ELBOW TURB COMP OTLT DIE CAST MARMFLG		1											
	23508408	* RING, SEAL TURBO COMP OTLT ELBOW *FOR UNITS WITH CHASSIS MOUNTED CHARGE AIR COOLER.		1											
	3.1280	CLAMP, AIR INLET PIPE HOSE													
	23507505	* CLAMP ASSY., 4.43" DIA. *FOR UNITS WITH CHASSIS MOUNTED CHARGE AIR COOLER.		1											

DETROIT DIESEL

SERIES 60 ENGINE

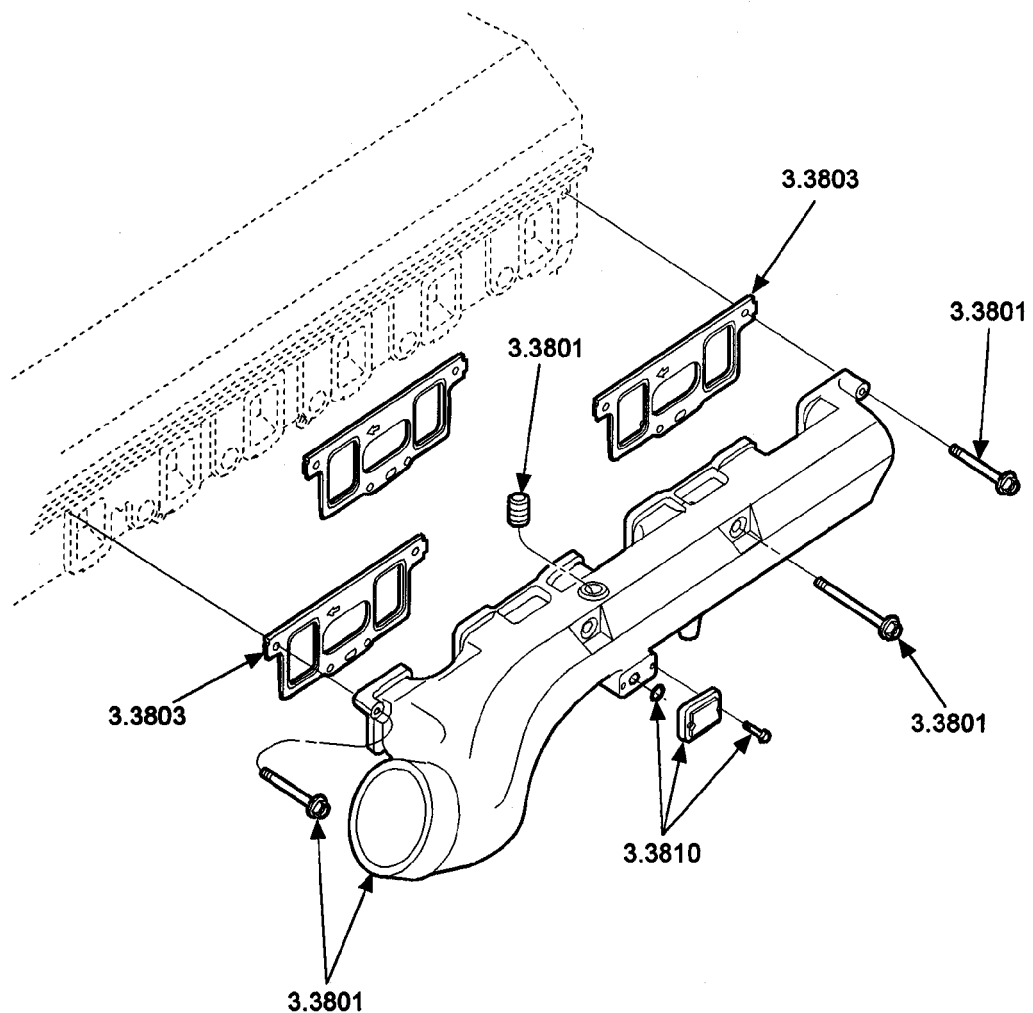


FIG. 1 AIR INTAKE MANIFOLD ASSEMBLY

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FIG. 1 OF 3.3000C

				TYPES											
3.3000C AIR INTAKE MANIFOLD				2	3	4	5	6	7	8	9	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.									1	2	3	5
	3.3801	AIR INTAKE MANIFOLD													
1	23506464	MANIFOLD (HORIZONTAL INLET)			1				1						
	23506465	MANIFOLD (60 DEG. INLET)				1				1					
1	23506466	MANIFOLD (W/SET BACK 60 DEG. INLET)					1				1				
	23517434	MANIFOLD AIR INT HORIZ 1/2 SC BOSS 60											1		
	23517435	MANIFOLD AIR INT 60DEG 1/2 SC BOSS 60										1			
	23517437	MANIFOLD AIR INT SETBACK 1/2 SC BOSS												1	1
1	8929288	MANIFOLD (40 DEG. INLET)		1				1							
	8924152	BUSHING, RED 1X3/4" (12.9570)							1	1	1				
1	11509526	BOLT, M10 X 1.5 X 130 MM		5	5	5	4	5	5	5	4	5	5	4	4
1	11509799	BOLT, M10 X 1.5 X 70 MM		2	2	2	2	2	2	2	2	2	2	2	2
1	11514284	BOLT, M10 X 1.5 X 170 MM					1				1				
	23505051	BOLT M10 X 1.5 X 170												1	1
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP		1	1	1	1	1	1	1	1				
1	8922327	PLUG, 1/4" NPTF (12.9550)		1	1	1	1	2	2	2	2	2	2	2	2
1	8923313	PLUG, 3/4" PIPE (12.9550)							1	1	1	1	1	1	1
	3.3803	GASKET, AIR INTAKE MANIFOLD													
	23517875	GASKET AIR INT MFD STL RUB CTD S50/60		3	3	3	3	3	3	3	3	3	3	3	3
	3.3810	SENSOR, AIR INTAKE													
		TURBO BOOST SENSOR MAY BE SHOWN IN 2.1000B INJECTOR CONTROLS ELECTRONIC TYPE UNDER (2.1650).													
1	16038012	SENSOR		1	1	1	1								
1	16070629	SENSOR, DDEC 2 & 3						1	1	1	1	1	1	1	1
1	5182977	RING, SEAL (3.3055)		1	1	1	1	1	1	1	1	1	1	1	1
1	11509673	BOLT, M5 X .8 X 30 MM		2	2	2	2	2	2	2	2				
	11514146	BOLT, M5X.8X30.0 MM										2	2	2	2

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1 9	2 1	2 2	2 6	2 7	2 8	2 9	3 0	3 8	
	3.3800C AIR INTAKE MANIFOLD												
	3.3801	AIR INTAKE MANIFOLD											
	23517434	MANIFOLD AIR INT HORIZ 1/2 SC BOSS 60						1					
	23517435	MANIFOLD AIR INT 60DEG 1/2 SC BOSS 60					1						
	23517437	MANIFOLD AIR INT SETBACK 1/2 SC BOSS							1		1		
	23518207	MANIFOLD AIR 45DEG INL		1						1			
	23518567	MANIFOLD INTAKE CTR INLET MARM S60G			1								
	23520393	MANIFOLD AIR INT SETBACK				1						1	
	23550327	SEAL RING, AIR INLET			1								
1	11509526	BOLT, M10 X 1.5 X 130 MM		5	3	4	5	5	4	5	4	4	
1	11509799	BOLT, M10 X 1.5 X 70 MM		2	2	2	2	2	2	2	2	2	
	23505051	BOLT M10 X 1.5 X 170			2	1			1		1	1	
	5137618	CLAMP (MARMAN) (6.1001)			1								
	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)										1	
1	8922327	PLUG, 1/4" NPTF (12.9550)		2	2	2	2	2	2	2	2	2	
	8923916	PLUG, 1/2" PIPE (12.9550)		1	1		1	1	1	1	1		
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)										1	
	3.3803	GASKET, AIR INTAKE MANIFOLD											
	23517875	GASKET AIR INT MFD STL RUB CTD S50/60		3	3	3	3	3	3	3	3	3	
	23518308	ELBOW INT 90 DEG MARMOM FLANGE S50			1								
	3.3810	SENSOR, AIR INTAKE											
		TURBO BOOST SENSOR MAY BE SHOWN IN 2.1000B INJECTOR CONTROLS ELECTRONIC TYPE UNDER (2.1650).											
1	16070629	SENSOR, DDEC 2 & 3		1	1	1							
1	5182977	RING, SEAL (3.3055)		1	1	1							
	11514146	BOLT, M5X.8X30.0 MM		2	2	2							

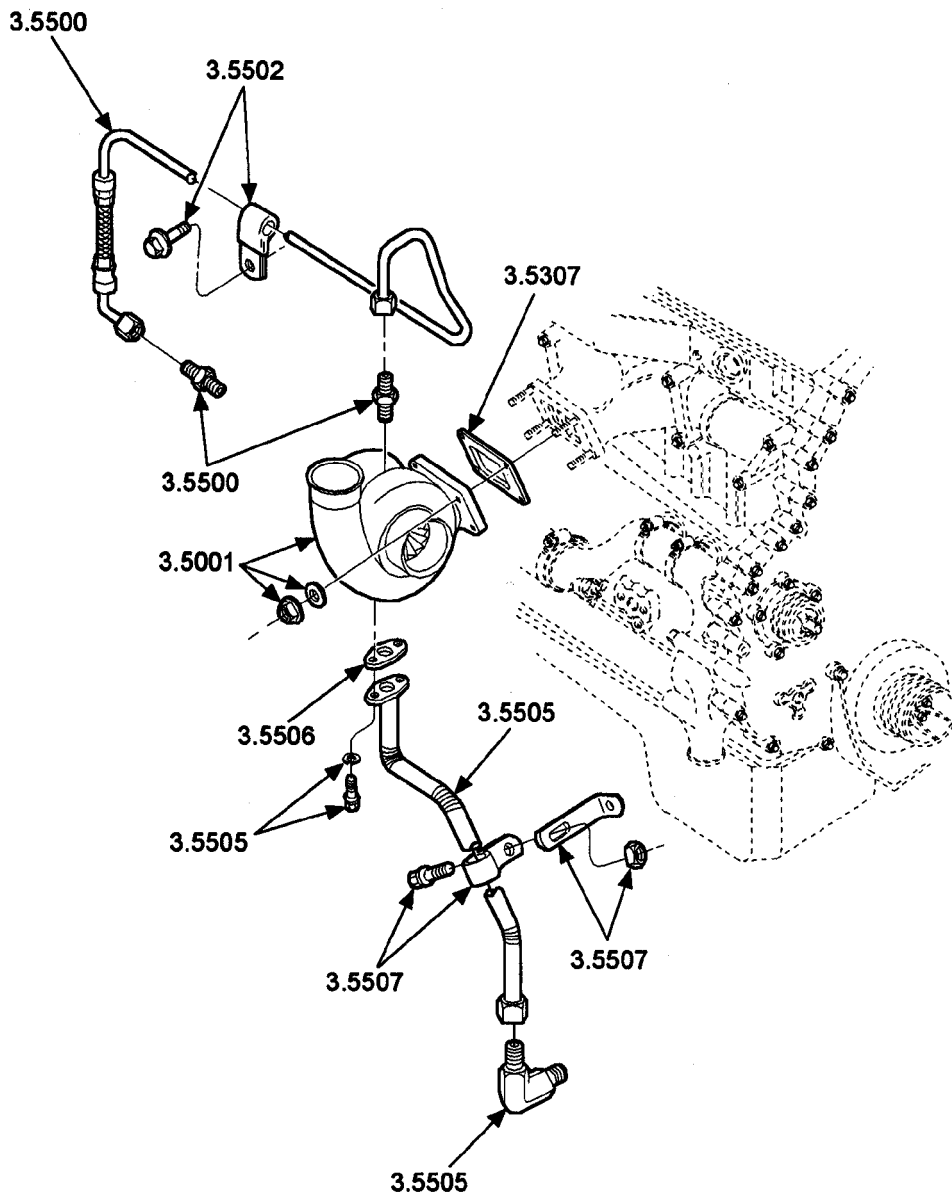
DETROIT DIESEL**SERIES 60 ENGINE**

FIG.1 TURBOCHARGER INSTALLATION

38496

FIG. 1 OF 3.5000A

			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	1	1	1	1	1	1	1	1	1	1	1	1
				7	0	0	0	0	0	0	0	0	0	0	0	0
				1	0	1	1	3	4	5	5	5	5	5	5	5
					3	0	1	9	0	0	1	2	3	4	5	
FOR OPTION # 1909, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06M07C 6308																
	3.5001	TURBOCHARGER														
	8929796	TURBOCHARGER ASSY. (TV51 1.23 A/R) 11L								AR		AR		AR		
1	8929797	TURBOCHARGER ASSY. (TV51 1.54 A/R) 12.7L			AR						AR		AR			AR
1	R8929435	U TURBOCHARGER ASSY. (TV51 1.15 A/R) 11L (R8929796) A		1		1		1								
1	R8929507	U TURBOCHARGER ASSY. (TV51 1.54 A/R) 12.7L (R8929797)			1		1		1							
1	R8929796	REMANUFACTURED 8929796	A1							1		1		1		
1	R8929797	REMANUFACTURED 8929797	A1		1						1		1		1	
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4	4	4
		U NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES														
	3.5008	KIT, TURBOCHARGER REPAIR														
	23514026	TURBO REPAIR KIT SERIES 60 TV51		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION														
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY														
1	8929030	HOSE ASSY.		1	1					1	1					
1	8929526	HOSE ASSY. (HI MOUNT)				1	1					1	1			
1	8929644	* HOSE ASSY. (FORWARD MOUNT)						1	1					1	1	
1	8924161	ELBOW, 90 DEG., 3/8" TUBE (12.9480)		1	1	1	1	1	1	1	1	1	1	1	1	1
1	8924171	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		1	1	1	1	1	1	1	1	1	1	1	1	1
		* NOT SERVICED, USE 8929668 HOSE PLUS (1) 8929833 CONNECTOR AND (1) 8929837 ELBOW.														
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE														
1	5169119	CLIP, 3/8" (2.5120)		1	1	1	1	1	1	1	1	1	1	1	1	1
	5130913	BRACKET (7.4597)		1	1			1	1	1	1			1	1	
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1			1	1	1	1			1	1	
	11506101	NUT, M10 X 1.5		1	1	1	1	1	1	1	1	1	1	1	1	1
	11507036	NUT, M8 X 1.25		1	1			1	1	1	1			1	1	

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				9	1	1	1	1	1	1	1	1	1	1	1
				7	0	0	0	0	0	0	0	0	0	0	0
				1	0	1	1	3	4	5	5	5	5	5	5
					3	0	1	9	0	0	1	2	3	4	5
		3.5000A TURBOCHARGER													
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	8929420	TUBE ASSY. (DEV. L. 508.0MM)		1	1					1	1				
1	8929783	TUBE ASSY. (HI MOUNT) (DEV. L. 618.0MM)				1	1					1	1		
1	8929784	TUBE ASSY. (DEV. L. 586.0MM)	A					1	1					1	1
	8929471	HOSE, .88" I.D. X 5" LG. (3.5505)		1	1	1	1	1	1	1	1		1	1	1
1	23500691	ELBOW		1	1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	2	2	2	2	2
		A NOT SERVICED, USE 23505038 TUBE, 23505039 ELBOW AND 5146788 CLIP.													
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
	8929756	CLAMP 15/16"-1 1/4" (12.9660)		2	2	2	2	2	2	2	2	2	2	2	2

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				0	0	1	1	1	1	1	1	2	2	2	2
				8	9	5	5	5	5	5	6	0	2	4	5
				7	0	0	2	3	5	6	5	0	8	1	0
3.5000A TURBOCHARGER															
	3.5001	TURBOCHARGER													
1	R23504966	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L	A1										1	1	
1	R23504967	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L LOW MIX	A1												1
1	R8929796	REMANUFACTURED 8929796	A1				1	1		1					
1	R8929797	REMANUFACTURED 8929797	A1			1			1			1			
1	R8929902	TURBOCHARGER ASSY. (TV51 1.15 A/R) 11L	A1	1											
1	R8929903	= TURBOCHARGER ASSY. (TV51 1.54 A/R) 11L	A1		1					1					
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5 =OBSOLETE.		4	4	4	4	4	4	4	4	4	4	4	4
	3.5008	KIT, TURBOCHARGER REPAIR													
	23514026	TURBO REPAIR KIT SERIES 60 TV51		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23514027	TURBO REPAIR KIT SERIES 60 TV45 AND TMF51													
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	8929602	HOSE ASSY. (LOW MOUNT) (NO 6)		1	1										
1	8929867	HOSE ASSY. (HI MOUNT) (45 DEG FLG)				1		1						1	
1	8929869	HOSE ASSY. (LOW MOUNT) (45 DEG FLG)						1			1				1
1	8924161	ELBOW, 90 DEG., 3/8" TUBE (12.9480)		1	1										
	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)				1	1	1	1	1	1	1	1	1	1
1	8929866	HOSE ASSY. (MED MOUNT) (45 DEG FLG)				1			1			1	1		
1	8924171	CONNECTOR, 3/8" INV. FL. TUBE (12.9460)		1	1										
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)				1	1	1	1	1	1	1	1	1	1
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	5169119	CLIP, 3/8" (2.5120)		1	1	1	1	1	1	1	1	1	1	1	
	5114210	SUPPORT, CLIP (4.8042)					1		1				1		
	5177331	BRACKET (4.8042)				1	1	1	1	1	1	1			
1	11509511	BOLT, M8 X 1.25 X 20 MM				1	1	1	1	1	1	1	1		
	11506101	NUT, M10 X 1.5				1	1	1	1	1	1	1	1	1	
	11507036	NUT, M8 X 1.25				1		1		1	1	1	1		

			TYPES											
3.5000A TURBOCHARGER			1	1	1	1	1	1	1	1	1	1	1	1
			0	0	1	1	1	1	1	2	2	2	2	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	8	9	5	5	5	5	6	0	2	4	5
			7	0	0	2	3	5	6	5	0	8	1	0
	3.5505	TUBE, TURBOCHARGER OIL RETURN												
1	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60									1			
1	8929420	TUBE ASSY. (DEV. L. 508.0MM)			1				1			1		
1	8929601 #	TUBE ASSY. LOW MTD OIL DRN	1	1			1			1				1
1	8929783	TUBE ASSY. (HI MOUNT) (DEV. L. 618.0MM)				1		1					1	
	8929471	HOSE, .88" I.D. X 5" LG. (3.5505)		1	1	1	1	1	1	1	1	1	1	1
1	23500691	ELBOW	1	1	1	1	1	1	1	1		1	1	1
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE									1			
1	11509511	BOLT, M8 X 1.25 X 20 MM	2	2	2	2	2	2	2	2	2	2	2	2
		# NOT SERVICED, USE 23505882 TUBE, 23505039 ELBOW AND 5146788 CLIP												
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE												
1	8929285	GASKET (3.5505)			1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE												
1	5146788	CLIP, 5/8" HOSE (2.5070)									1			
1	5161875	CLIP, 7/16" DIA.												1
	8929756	CLAMP 15/16"-1 1/4" (12.9660)	2	2	2	2	2	2	2	2		2	2	2

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	2	2	2	2	2	2	3	3	
				5	6	7	8	8	8	9	9	9	9	1	3	
				4	3	4	1	2	3	3	7	8	9	4	1	
	3.5001	TURBOCHARGER														
1	R23504966	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L	A1	1	1											
1	R23504967	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L LOW MIX	A1				1									1
1	R23507908	TURBOCHARGER ASSY. (TV4501 1.22 A/R) 11L	A1			1			1							
1	R23507909	TURBOCHARGER ASSY. (TV4501 1.22 A/R) 11L LOW MT	A1					1							1	
1	R23508405	REMANUFACTURED 23508405	A1							1						
1	R23508406	TURBOCHARGER ASSY. (TV4502 1.22 A/R) 11L LOW MT	A1											1		
1	R23508410	TURBOCHARGER ASSY. (TMF5102 1.34 A/R) 12.7L HI/MED	A1								1	1				
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4	4	4
	3.5008	KIT, TURBOCHARGER REPAIR														
	23514027	TURBO REPAIR KIT SERIES 60 TV45 AND TMF51		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION														
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY														
1	23513187	TUBE, TURBO OIL SPLY HIGH MT			1				1	1	1					
	23513188	TUBE, TURBO OIL SPLY MED MT		1		1						1				
	23513189	TUBE, TURBO OIL SPLY LOW MT					1	1					1	1	1	
1	23505905	HOSE ASSY. TURBO OIL SPLY MED MT (OIL BYPASS SYSTEM)		1		1						1				
	8924998	ELBOW (90 DEG.)		1		1		1				1				
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9480)		2	2	2	2	1	2	2	2	2	2	2	2	2
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)		1		1						1				
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60		1		1			1	1	1		1	1	1	

			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
				1	1	1	1	1	1	1	1	1	1	1	1	
				2	2	2	2	2	2	2	2	2	2	3	3	
				5	6	7	8	8	8	9	9	9	9	1	3	
				4	3	4	1	2	3	3	7	8	9	4	1	
3.5000A TURBOCHARGER																
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE														
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT						1							1	1
1	5110070	CLIP, 3/8" DIA. 1/2" BOLT		1	1	1	1	1								
1	5144934	CLIP, .438" DIA. 3/8" BOLT					1	1						1		
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT		1	1	1			1	1	1	1				
	23505086	BRACKET					1	1						1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM			1		1	1	1	1	1	1		1	1	1
	11507036	NUT, M8 X 1.25			1		1	1	1	1	1	1		1	1	1
	23518185	CLIP 3/8 TUB 7/16 BLT CTD LOMT TURBO					1							1		
3.5505																
1	23505038	TUBE TURBO OIL DRN FLEX STNLS			1				1	1	1					
1	23508412	TUBE, OIL DRAIN FLEX					1	1						1		
1	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60		1		1							1		1	1
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1		1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	2	2	2	2	2	2
3.5506																
1	8829285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1	1
3.5507																
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1			1	1	1	1			1	1
1	5144629	BRACKET, CLIP 90 DEG.		1		1							1			
1	5173022	BRACKET, CLIP 90 DEG			1				1	1	1					
1	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1			1	1	1	1				
	11504986	BOLT, M8 X 1.25 X 14 MM													1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		1		1				1	1	1				
1	11507036	NUT, M8 X 1.25		1		1				1	1	1				
3.5535																
	23505907	INSULATION BLANKET TURBOCHARGER	C1					1	1						1	
		SHIELD, HEAT OIL CLR TUBE														

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	4	4	4	5	5	5	5
				4	4	6	6	8	4	5	5	0	0	2	2
				7	8	6	7	3	4	2	5	8	9	7	8
	3.5001	TURBOCHARGER													
1	R23504966	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L	A1					1							
1	R23507908	TURBOCHARGER ASSY. (TV4501 1.22 A/R) 11L	A1								1				
1	R23508405	REMANUFACTURED 23508405	A1		1					1			1		
1	R23508406	TURBOCHARGER ASSY. (TV4502 1.22 A/R) 11L LOW MT	A1				1								
1	R23508410	TURBOCHARGER ASSY. (TMF5102 1.34 A/R) 12.7L HI/MED	A1						1			1			
1	R23508411	TURBOCHARGER ASSY. (TMF5102 1.34 A/R) 12L LOW MT	A1	1		1									
	R23515635	REMANUFACTURED 23515635												1	1
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4	4
	3.5008	KIT, TURBOCHARGER REPAIR													
	23514027	TURBO REPAIR KIT SERIES 60 TV45 AND TMF51		AR	AR	AR	AR	AR							
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT													1
	23513188	TUBE, TURBO OIL SPLY MED MT			1			1	1	1	1			1	
	23513189	TUBE, TURBO OIL SPLY LOW MT		1		1	1								
	23515352	TUBE TURB OIL SUPPLY MED MOUNT										1			
1	23505905	HOSE ASSY. TURBO OIL SPLY MED MT (OIL BYPASS SYSTEM)			1			1	1	1					
	8924998	ELBOW (90 DEG.)			1			1	1	1					
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2	2	2	2	2	2	2	2	2	2	2	2
	23505246	TEE SPL 2 WAY 1/4" NPTF 5/8" TUB (12.9616)			1			1	1	1					
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60		1	1	1	1	1							
	23517584	TUBE TURBO OIL SUPPLY MED MOUNT S60											1		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		3.5000A TURBOCHARGER		3	3	3	3	3	4	4	4	5	5	5	5
				4	4	6	6	8	4	5	5	0	0	2	2
				7	8	6	7	3	4	2	5	8	9	7	8
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT		1		1							1		
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT			1			1	1	1	1	1		1	1
	23505086	BRACKET		1		1	1								
1	11509511	BOLT, M8 X 1.25 X 20 MM		1		1	1	1					1		
	11507036	NUT, M8 X 1.25		1		1	1	1					1		
	23518185	CLIP 3/8 TUB 7/16 BLT CTD LOMT TURBO					1								
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS													1
1	23508412	TUBE, OIL DRAIN FLEX		1											
	23515354	TUBE TURB OIL DRN FLEX SST MED MT										1	1		
1	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60			1	1	1	1	1	1	1			1	
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1	1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	2	2	2	2	2
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT			1	1	1	1	1	1	1	1	1	1	1
	23515353	BRACKET CLIP 90DEG										1	1		
1	5144629	BRACKET, CLIP 90 DEG.			1			1	1	1	1			1	
1	5173022	BRACKET, CLIP 90 DEG													1
	5177331	BRACKET (4.8042)									1				
1	11503454	BOLT, M10 X 1.5 X 20.0			1			1	1	1	1	1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM				1	1								
1	11509511	BOLT, M8 X 1.25 X 20 MM			1				1	1	1	1	1	1	1
1	11507036	NUT, M8 X 1.25			1				1	1	1	1	1	1	1
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1	1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				5	5	5	5	5	5	6	6	6	6	6	6
				2	3	3	4	7	9	2	2	3	3	3	3
				9	2	4	3	0	0	2	9	1	7	8	9
	3.5001	TURBOCHARGER													
	23516108	TURB ASM TV4502 1.05A/R CER MEDMT					1								
	23516431	TURB TMF55 1.34A/R SCROLL DWN HIMT12L							1						
	23518588	TURB ASM TMF55 1.34 A/R (53°80) HI&MED	A1							1		1			
	23518695	TURB ASM GT42 1.15 A/R MED&HI 11L S60											1		
	23518696	TURB ASM GT42 1.15A/R LOW MT 11L S60	A1												1
	23521167	(R) TURBOCHARGER ASSY. K31 22.2 V-BAND HI&MED MT												1	
	R23515635	REMANUFACTURED 23515635		1											
	R23515636	REMANUFACTURED 23515636			1	1									
	R23515894	REMANUFACTURED 23515894						1							
	R23518588	TURBOCHARGE ASSY., TMF55 1.34 A/R (REMANUFACTURED)								AR	1	AR			
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4	4
	3.5305	CONNECTOR, TURBOCHARGER EXHAUST INLET													
	23514035	SPACER-PLATE TURBO DINA S50							1						
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	2	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT										1			
	23513188	TUBE, TURBO OIL SPLY MED MT					1			1			1	1	
	23513189	TUBE, TURBO OIL SPLY LOW MT			1	1									1
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60						1	1						
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2	2	2	2	2	2	2	2	2	2	2	2
	5109000	BRACKET,CLIP						1							
	23517584	TUBE TURBO OIL SUPPLY MED MOUNT S60		1							1				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		3.5000A TURBOCHARGER		5	5	5	5	5	5	6	6	6	6	6	6
				2	3	3	4	7	9	2	2	3	3	3	3
				9	2	4	3	0	0	2	9	1	7	8	9
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT	1								1				1
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT					1	1	1	1		1	1	1	
	23505086	BRACKET	1	1	1						1				1
1	11509511	BOLT, M8 X 1.25 X 20 MM	1	1	1	1	1	1			1				1
	11507036	NUT, M8 X 1.25	1	1	1	1	1	1			1				1
	23518185	CLIP 3/8 TUB 7/16 BLT CTD LOMT TURBO			1	1									
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS										1			
1	23508412	TUBE, OIL DRAIN FLEX			1										
	23515354	TUBE TURB OIL DRN FLEX SST MED MT	1					1	1		1				
1	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60				1	1			1			1	1	1
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1	1	1	1	1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM	2			2	2	2	2	2		2	2	2	2
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)	1	1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT	1		1	1	1	1	1	1	1	1	1	1	1
	23515353	BRACKET CLIP 90 DEG	1								1				
1	5144629	BRACKET, CLIP 90 DEG.				1	1	1	1				1	1	
1	5173022	BRACKET, CLIP 90 DEG										1			
1	11503454	BOLT, M10 X 1.5 X 20.0	1			1				1	1	1	1	1	
	11504986	BOLT, M8 X 1.25 X 14 MM			1										1
1	11509511	BOLT, M8 X 1.25 X 20 MM						1	1	1		1	1	1	
1	11507036	NUT, M8 X 1.25						1	1	1		1	1	1	
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1		1										

			TYPES											
			1	1	1	1	1	1	1	1	1	1	1	1
			6	6	6	6	6	6	6	6	6	6	6	6
			4	4	4	4	4	4	5	6	7	7	8	8
			1	2	4	5	7	8	9	2	3	2	5	0
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.											
	3.5001	TURBOCHARGER												
	23515635	TURB ASM TMF55 1.34 A/R HI&MED MT 12L	B1									1		
	23518695	TURB ASM GT42 1.15 A/R MED&HI 11L S60		1										1
	23518696	TURB ASM GT42 1.15AA/R LOW MT 11L S60	A1				1							
	23520307	TURB ASM K31 00.0 A/R S60G GEN SET											1	
	53319707111	TURBOCHARGER ASSY., K31 22.2 A/R MED & HI MT 11L						1	1					
	53319707112	TURBOCHARGER ASSY., K31 22.2 A/R LOW MT 11L				1								
	R23518588	TURBOCHARGE ASSY., TMF55 1.34 A/R (REMANUFACTURED)									1			
	R23518597	REMANUFACTURED 23518597				1								
	R23519248	TURB ASM GT42 1.15 A/R MED&HI 11L S60	B1							1				
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4
	3.5305	CONNECTOR, TURBOCHARGER EXHAUST INLET												
	23514035	SPACER-PLATE TURBO DINA S50											1	
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION												
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1		1
	23517076	GASKET TURB EXH INLET S50G											1	
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY												
1	23513187	TUBE, TURBO OIL SPLY HIGH MT			1									
	23513188	TUBE, TURBO OIL SPLY MED MT								1	1	1		
	23513189	TUBE, TURBO OIL SPLY LOW MT		1		1	1							
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60											1	
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	2	2	1	2	2	1	1	1	2	2
	5109000	BRACKET,CLIP											1	
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE							1	1	1		1	1
	23517584	TUBE TURBO OIL SUPPLY MED MOUNT S60						1	1					1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				6	6	6	6	6	6	6	6	6	6	6	6
				4	4	4	4	4	4	5	6	7	7	8	8
				1	2	4	5	7	8	9	2	3	2	5	0
	3.5500A TURBOCHARGER														
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT		1		1	1		1	1					
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT			1							1	1		
	23505086	BRACKET		1		1	1	1	1	1					1
1	11509511	BOLT, M8 X 1.25 X 20 MM		1		1	1	1	1	1				1	1
	11507036	NUT, M8 X 1.25		1		1	1	1	1	1				1	1
	23518185	CLIP 3/8 TUB 7/16 BLT CTD LOMT TURBO						1							1
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS			1										
1	23508412	TUBE, OIL DRAIN FLEX		1		1	1	1							
	23515354	TUBE TURB OIL DRN FLEX SST MED MT							1	1		1	1	1	1
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S80									1				
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1	1	1	1	1					1		
1	11509511	BOLT, M8 X 1.25 X 20 MM		2		2	2	2		2	2	2	2	2	2
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT									1	1			
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1		1					1	1	1		
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT			1				1	1	1	1	1	1	1
	23515353	BRACKET CLIP 90DEG							1	1					1
1	5144629	BRACKET, CLIP 90 DEG.									1			1	
1	5173022	BRACKET, CLIP 90 DEG			1							1	1		
1	11503454	BOLT, M10 X 1.5 X 20.0			1				1	1	1	1	1		1
1	11509511	BOLT, M8 X 1.25 X 20 MM			3				3	1	1	1	1	1	1
1	11507036	NUT, M8 X 1.25			1				1	1	1	1	1	1	1
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE							1						
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1	1		1	1	1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				6	7	7	7	7	7	7	7	7	7	7	7
				9	0	0	0	0	1	1	3	3	3	4	4
				2	0	2	3	4	1	3	0	7	9	0	3
	3.5001	TURBOCHARGER													
	23515635	TURB ASM TMF55 1.34 A/R HI&MED MT 12L	B1									1			
	23518588	TURB ASM TMF55 1.34 A/R (53°80) HI&MED	A1											1	
	23518597	TURB ASM TMF55 1.34 A/R (53°80) LOW MT	B1										1		
	23518695	TURB ASM GT42 1.15 A/R MED&HI 11L S60		1											
	23521167	(R) TURBOCHARGER ASSY. K31 22.2 V-BAND HI&MED MT				1	1								
	23521168	TURBO ASSY. K31 22.2 A/R V-BAND LOW MT							1						
	23521188	TURBO ASSY., 1.34 A/R (53°80) ERF							1						
	23521496	TURB ASSY., TMF55 1.34 A/R HI&MED WRAP	B1								1				
	23522190	TURBO ASSY., GT4202S 1.15 A/R 53 TRIM 31PSI													1
	R23515635	REMANUFACTURED 23515635										AR			
	R23518588	TURBOCHARGE ASSY., TMF55 1.34 A/R (REMANUFACTURED)												AR	
	R23518597	REMANUFACTURED 23518597											AR		
	R23521167	TURBO ASSY., K31 REMANUFACTURED			1			1							
	R23522190	REMANUFACTURED 23522190													AR
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4	4
	3.5004	KIT WASTEGATE ACTUATOR													
	23523120	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEG FITTING (SINGLE PYPASS)													AR
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT					1								
	23513188	TUBE, TURBO OIL SPLY MED MT		1		1		1							1
	23513189	TUBE, TURBO OIL SPLY LOW MT								1			1		
	23521537	TUBE TURB OIL SUPPLY MED MT									1				
	23521017	TUBE TURBO OIL SUPPLY SPL ERF							1						
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT			1										
	23521606	HOSE ASSY., TURB OIL SUPPLY										1		1	
	8924998	ELBOW (90 DEG.)												1	
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2	2	2	1	2	2	2	1		1		2
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE							1						1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 6 9 2	1 7 0 0	1 7 0 2	1 7 0 3	1 7 0 4	1 7 1 1	1 7 1 3	1 7 3 0	1 7 3 7	1 7 3 9	1 7 4 0	1 7 4 3
		3.5000A TURBOCHARGER													
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT			1				1	1	1		1		
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT		1		1	1	1				1		1	1
	23505086	BRACKET			1				1	1			1		
	5108612	BRACKET (4.4345)									1				
1	11509511	BOLT, M8 X 1.25 X 20 MM			1			3	1	1		1			
	11507036	NUT, M8 X 1.25			1			1	1	1		1			
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS					1					1		1	
1	23508412	TUBE, OIL DRAIN FLEX						1	1						
	23515354	TUBE TURB OIL DRN FLEX SST MED MT		1	1			1							
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60				1					1		1		1
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1	1	1	1	1		1	1	1	1	1	
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2		2		2		2	2	2	2
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)					1				1	1	1	1	
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1	1	1			1	1	1	1	1
	23515353	BRACKET CLIP 90DEG			1										
1	5144629	BRACKET, CLIP 90 DEG.				1					1				1
1	5173022	BRACKET, CLIP 90 DEG		1			1	1				1		1	
1	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1	1	1			1	1		1	1
	11504986	BOLT, M8 X 1.25 X 14 MM											1		
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	1	3	1			3	1		1	1
1	11507036	NUT, M8 X 1.25		1	1	1	1	1			1	1		1	1
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1						1	1					

			TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	7	7	7	7	7
				4	4	4	5	5	5	6	6	6	6	7
				6	7	8	1	2	3	6	2	3	7	8
														2
	3.5001	TURBOCHARGER												
	23522188	TURBO ASSY. GT4294S 1.28 A/R 56 TRIM 31 PSI (GT USE 23523120 ACTUATOR)(3K USE 23523811 ACT)	B1				1	1				1		
	23522194	TURBOCHARGER ASSY.GT4294S 1.01 A/R 52 TRIM 27PSI						1						
	23522190	TURBO ASSY., GT4202S 1.15 A/R 53 TRIM 31PSI							1				1	
	23522300	TURB ASSY.,GT4294S 1:01 A/R TRIM 27 PSI ME	1											1
	23522306	TURBO ASSY., GT4294S 1:28 A/R TRIM 31 PSI			1									
	23522312	TURBO.ASSY. GT4202S 1.15A/R 53 TRIM 31 PSI								1	1			
	53339707005	TURBO ASSY., K31 00.0 A/R S60G				1								
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4
	3.5004	KIT WASTEGATE ACTUATOR												
	23523118	KIT, WASTEGATED ACTUATOR 27PSI HORIZ MT/105 DEGFITTING (SINGLE BYPASS)	AR											1
	23523120	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEGFITTING (SINGLE PYPASS)											AR	
	23523121	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/105 DEGFITTING (SINGLE BYPASS)	AR											
	3.5305	CONNECTOR, TURBOCHARGER EXHAUST INLET												
	23514035	SPACER-PLATE TURBO DINA S50				1								
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION												
1	8929529	GASKET, TURBO EXHAUST INLET		1	1		1	1	1	1	1	1	1	1
	23517076	GASKET TURB EXH INLET S50G				2								

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	7	7	7	7	7	7
				4	4	4	5	5	5	5	6	6	6	6	7
				6	7	8	1	2	3	6	2	3	7	8	2
		3.5000A TURBOCHARGER													
		3.5500 TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT						1	1					1	
	23513188	TUBE, TURBO OIL SPLY MED MT			1						1	1	1		1
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60				1									
		3.5500 TUBE, TURBOCHARGER OIL SUPPLY													
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT		1			1			1					
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	2	2	2	2	2	2	2	2	2	1	2
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE			1	1	1	1				1	1		1
		3.5502 CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT		1			1			1					
	5109000	BRACKET, CLIP				1									
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT			1	1		1	1		1	1	1	1	1
	23505086	BRACKET		1			1			1					
1	11509511	BOLT, M8 X 1.25 X 20 MM		1		1				1		2			1
	11507036	NUT, M8 X 1.25		1		1	1			1					1
		3.5505 TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS						1	1					1	
	23515354	TUBE TURB OIL DRN FLEX SST MED MT		1		1	1			1		1			1
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60			1						1		1		
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1					1	1	1			1	
1	11509511	BOLT, M8 X 1.25 X 20 MM			2	2	2	2	2	2	2		2		
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1										1	
		3.5506 GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
		3.5507 CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1	1	1	1	1	1	1	1	1	1
	23515353	BRACKET CLIP 90DEG		1			1			1					
1	5144629	BRACKET, CLIP 90 DEG.			1	1					1		1		
1	5173022	BRACKET, CLIP 90 DEG						1	1			1		1	1
1	11503454	BOLT, M10 X 1.5 X 20.0		1	1		1	1	1	1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		3	1	1	1	1	1	1	1	1	1	3	2
1	11507036	NUT, M8 X 1.25		1	1	1	1	1	1	1	1	1	1	1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	7	7	7	7	7	7
				7	7	7	7	7	8	8	8	8	8	8	8
				3	4	5	6	7	9	1	2	3	6	7	8
	3.5001	TURBOCHARGER													
	23522188	TURBO ASSY. GT4294S 1.28 A/R 56 TRIM 31 PSI (GT USE 23523120 ACTUATOR)(3K USE 23523811 ACT)	B1							1					
	23522189	TURBOCHARGER ASSY. GT4294D 1.28 A/R 56 TRIM 31PSI									1				
	23522194	TURBOCHARGER ASSY. GT4294S 1.01 A/R 52 TRIM 27PSI						1	1				1		
	23522191	TURBO ASSY.,GT4202D 1.15 A/R 53 TRIM 31PSI										1			
	23522300	TURB ASSY.,GT4294S 1:01 A/R TRIM 27 PSI ME												1	
	23522306	TURBO ASSY., GT4294S 1:28 A/R TRIM 31 PSI		1	1										1
	23522312	TURBO.ASSY. GT4202S 1.15A/R 53 TRIM 31 PSI				1									
	R23515636	REMANUFACTURED 23515636					1								
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	3	4	4	4	4	4	4	4	4
	3.5004	KIT WASTEGATE ACTUATOR													
	23522988	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEGFITTING (DUAL BYPASS)										1			
	23523117	KIT, WASTEGATED ACTUATOR 27PSI VERT MT/70 DEGFITTING (SINGLE BYPASS)							1				1		
	23523118	KIT, WASTEGATED ACTUATOR 27PSI HORIZ MT/105 DEGFITTING (SINGLE BYPASS)												1	
	23523121	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/105 DEGFITTING (SINGLE BYPASS)	AR		1										AR
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	1	1	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT												1	1
	23513188	TUBE, TURBO OIL SPLY MED MT			1			1					1		
	23513189	TUBE, TURBO OIL SPLY LOW MT									1	1			
	23521017	TUBE TURBO OIL SUPPLY SPL ERF					1								
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT		1		1		1							
	23521606	HOSE ASSY.,TURB OIL SUPPLY								1					

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	7	7	7	7	7	7	7	7
				7	7	7	7	7	7	8	8	8	8	8	8
				3	4	5	6	7	9	1	2	3	6	7	8
3.5000A TURBOCHARGER															
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY (CONT.)													
	8924998	ELBOW (90 DEG.)								1					
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2	2	2	2	1	2	1	1	1	2	1	1
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1	1	1	1	1	1	1			1		1
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT		2		1	1		1		1	1			
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT			1			1		1			1	1	1
	23505086	BRACKET		1		1	1		1		1	1			
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	1	1	1	1	1	1	1			
	11507036	NUT, M8 X 1.25		1		1	1		1		1	1			
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS								1				1	1
1	23508412	TUBE, OIL DRAIN FLEX									1	1			
	23515354	TUBE TURB OIL DRN FLEX SST MED MT		1	1	1			1				1		
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60					1	1							
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE									1	1		1	
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	2	2	2	2	2
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)						1			1	1		1	1
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1	1	1	1	1			1	1	1
	23515353	BRACKET CLIP 90DEG		1		1			1						
1	5144629	BRACKET, CLIP 90 DEG.						1							
	5145872	BRACKET CLIP, 90 DEG.					1								
1	5173022	BRACKET, CLIP 90 DEG			1					1			1	1	1
1	11503454	BOLT, M10 X 1.5 X 20.0		1	1	1	1	1	1	1			1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		1			1		1				1	1	1
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)					1								
1	11507036	NUT, M8 X 1.25		1	1	1	1	1	1	1			1	1	1
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1				1				1	1			

			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	8	8	8	8	8	8	8	8	8
				8	9	9	9	0	0	0	1	1	2	2	2	2
				9	2	3	6	0	4	7	3	8	0	1	6	6
	3.5001	TURBOCHARGER														
	23522890	TURBO ASSY.GT50 1.24A/R MED & HI MT 14L							1	1						
	23523197	TURBOCHARGER ASSY., 1.34 A/R						1								
1	23523477	TURBO ASST. GT4294D 1.28 A/R DUAL BYPASS HO														1
1	23523719	(R) TURBO ASSY. GT42 1.00 A/R48T WAT CLD HI MT												1		
	23522190	TURBO ASSY., GT4202S 1.15 A/R 53 TRIM 31PSI	1													
	23522195	TURBO ASSY.,GT4294D 1.01 A/R 52 TRIM 27 PSI				1										
	23522300	TURB ASSY.,GT4294S 1:01 A/R TRIM 27 PSI ME					1					1				
	23522306	TURBO ASSY., GT4294S 1:28 A/R TRIM 31 PSI											1			
	23522312	TURBO.ASSY. GT4202S 1.15A/R 53 TRIM 31 PSI				1										
	23523039	TURBO ASSY.,GT4294D 1.28 A/R DUAL BYPASS HOR													1	
1	8929169	WASHER (12.9190)	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	3.5004	KIT WASTEGATE ACTUATOR														
	23523119	KIT, WASTEGATED ACTUATOR 27PSI VERT MT/70 DEGFITTING (DUAL BYPASS)				1										
	23523120	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/70 DEGFITTING (SINGLE PYPASS)	AR													
	23523121	KIT, WASTEGATED ACTUATOR 31PSI VERT MT/105 DEGFITTING (SINGLE BYPASS)											1			
	3.5305	CONNECTOR, TURBOCHARGER EXHAUST INLET														
	23514035	SPACER-PLATE TURBO DINA S50						1								
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION														
1	8929529	GASKET, TURBO EXHAUST INLET	1	1	1	1	2	1	1	1	1	1		1	1	1
	23517076	GASKET TURB EXH INLET S50G											1			

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	8	8	8	8	8	8	8	8
				8	9	9	9	0	0	0	1	1	2	2	2
				9	2	3	6	0	4	7	3	8	0	1	6
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT			1					1			1		
	23513188	TUBE, TURBO OIL SPLY MED MT					1				1	1			
	23513189	TUBE, TURBO OIL SPLY LOW MT				1									
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60						1							
1	23523882	TUBE TURBO OIL SUPPLY													1
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT							1						
	23521606	HOSE ASSY.,TURB OIL SUPPLY	1												
	23523498	HOSE ASSY.,TURBO OIL SUPPLY												1	
1	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)											2		
1	8924158	BUSHING PIPE RED 1/2"X3/8" W/9											1		
	8924998	ELBOW (90 DEG.)	1												
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	1	2	1	2	2	2	2	2	1	2	1	2	
1	FAHP0120	HOSE ASSY.,#6 X 14.40 LG H&P FC186											1		
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1	1		1				1					
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT				1			1					1	
	5109000	BRACKET,CLIP						1							
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT	1	1		1	1		1	1	1	1	1		1
	23505086	BRACKET				1			1					1	
1	11509511	BOLT, M8 X 1.25 X 20 MM				1		1	1					1	
	11507036	NUT, M8 X 1.25				1		1	1					1	
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	FAHP0120	HOSE ASSY.,#6 X 14.40 LG H&P FC186												1	
1	23505038	TUBE TURBO OIL DRN FLEX STNLS	1	1									1		
1	23508412	TUBE, OIL DRAIN FLEX				1								1	
	23515354	TUBE TURB OIL DRN FLEX SST MED MT						1	1			1			
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60					1				1				1
	23523609	TUBE TURBO OIL DRN HI MT LRG MTG BOSS								1					
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE				1		1	1	1		1	1	1	1
1	23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE											2		
1	8924159	BUSHING, 3/4"X3/8" RED. (12.9570)											1		
	11503454	BOLT, M10 X 1.5 X 20.0							2	2					
1	11509511	BOLT, M8 X 1.25 X 20 MM	2		2		2				2	2	2	2	2
	5170468	GASKET								1					
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)				1						1		1	

			TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1
				7	7	7	7	8	8	8	8	8	8	8
				8	9	9	9	0	0	0	1	1	2	2
				9	2	3	6	0	4	7	3	8	0	1
		3.5000A TURBOCHARGER												
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE												
1	5170468	GASKET						1						
1	8929285	GASKET (3.5505)		1	1	1	1	1			1	1	1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE												
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1		1	1	1	1	1	1		1
	23515353	BRACKET CLIP 90DEG						1						
1	5144629	BRACKET, CLIP 90 DEG.					1	1						1
1	5173022	BRACKET, CLIP 90 DEG		1	1					1	1	1	1	
1	11503454	BOLT, M10 X 1.5 X 20.0		1	1		1		1	1	1	1	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	3		3	1	1	1	1	1	1	1
1	11507036	NUT, M8 X 1.25		1	1		1	1	1	1	1	1	1	1
	3.5535	INSULATION BLANKET TURBOCHARGER												
	23505907	SHIELD, HEAT OIL CLR TUBE	C1			1							1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				8	8	8	8	8	8	8	8	8	8	8	8
				2	2	3	3	3	4	4	4	4	5	5	5
				7	8	1	2	3	0	3	4	5	1	7	8
	3.5001	TURBOCHARGER													
	R23525176	TURBOCHARGER ASSY., UTW8901 40 TRIM BC15 .90A/R													1
	23522194	TURBOCHARGER ASSY.GT4294S 1.01 A/R 52 TRIM 27PSI							1						
1	23523478	TURBO ASSY. GT4202D 1.5 A/R DUAL BYPASS HO	1												
	23524076	TURBOCHARGER ASSY.,GT47 1.13A/R HSG 31PSI W/G 56TR				1	1	1							
	23524241	TURBOCHARGER, GT42 1.15 A/R SCROLL DWN HMT 11L			1										
1	8929169	WASHER (12.9190)	4	4	4	4	4	4	4	4	4	4	4	4	
1	11506101	NUT, M10 X 1.5	4	4	4	4	4	4	4	4	4	4	4	4	
	11501052	NUT, M10X1.5													4
	23517240	WASHER TURBO TO EXHAUST MANIFOLD S50G													4
	23523040	TURB ASM GT4202D										1			
	23524100	TURBO ASSY GT47 1.27 A/R 56TRIM SCRL DWN E									1				
	23525712	TURB ASM GT47 1.13A/R 31PSI HI &MED MT 56											1	1	
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION													
1	8929529	GASKET, TURBO EXHAUST INLET	1	1	1	1	1	1	1	1	1	1	1	1	1
	3.5414	TUBE, TURBOCHARGER AIR OUTLET CONNECTION													
	23525266	TUBE, TURBO TO CAC CHROME													1
	3.5415	BRACKET, TURBOCHARGER AIR OUTLET TUBE													
	23525269	BRACKET, TURBO TUBE SUPPORT													1
	11509511	BOLT, M8 X 1.25 X 20 MM													3
	11507036	NUT, M8 X 1.25													3
	3.5420	HOSE, TURBOCHARGER AIR OUTLET CONNECTION													
	23517292	HOSE 3.50 X 3.00 LG S60 BLUE													2
	23508857	CLAMP HOSE 3 1/4"-4 1/8" I.D. CONSTANT TORQUE													4

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 8 2 7	1 8 2 8	1 8 3 1	1 8 3 2	1 8 3 3	1 8 4 0	1 8 4 3	1 8 4 4	1 8 4 5	1 8 5 1	1 8 5 7	1 8 5 8
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY													
	WAHP0380	HOSE ASSY., #6 X 40.40" L.													
1	23513187	TUBE, TURBO OIL SPLY HIGH MT				1				1		1			1
	23513188	TUBE, TURBO OIL SPLY MED MT						1							
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60			1										
1	23523882	TUBE TURBO OIL SUPPLY	1							1				1	
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT					1								
	23521606	HOSE ASSY.,TURB OIL SUPPLY							1						
	23523498	HOSE ASSY.,TURBO OIL SUPPLY										1			
	8924145	CONNECTOR, 1/4" TUBE - 90 DEG.													1
	8924998	ELBOW (90 DEG.)							1						
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	2	2	2	2	2	2	1	1	1	1	2	2	
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)													1
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE			1		1								
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT					1					1			
	5109000	BRACKET,CLIP			1										
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT	1	1	1			1	1	1	1		1	1	
	23505086	BRACKET										1			
	5173022	BRACKET, CLIP 90 DEG					1								
1	11509511	BOLT, M8 X 1.25 X 20 MM			1		1					1			
	11507036	NUT, M8 X 1.25			1		1					1			
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
	WELL0285	HOSE ASSY., #16 X 31.6" L.													1
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)													1
1	23505038	TUBE TURBO OIL DRN FLEX STNLS				1			1		1		1		
1	23508412	TUBE, OIL DRAIN FLEX										1			
	23515354	TUBE TURB OIL DRN FLEX SST MED MT			1		1								
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60	1					1		1				1	
	23525099	TUBE ASSY., OIL DRAIN (UPPER)													1
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1			1		1	1	1	1	1	1	1	
	11503454	BOLT, M10 X 1.5 X 20.0			2	1		1	1		2				
1	11509511	BOLT, M8 X 1.25 X 20 MM	2	2				2	2	2		2			
	2492119	ELBOW, 90 DEG. 1' FLD TUBE 3/4" NPTF													1
	8927579	BOLT, 3/8"-16X.86" (W/SEAL PATCH) (12.9001)													2
	5170468	GASKET													1
	8929285	GASKET (3.5505)				1									
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)													1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		3.5000A TURBOCHARGER		8	8	8	8	8	8	8	8	8	8	8	8
				2	2	3	3	3	4	4	4	4	5	5	5
				7	8	1	2	3	0	3	4	5	1	7	8
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	5170468	GASKET				1					1				
1	8929285	GASKET (3.5505)		1	1			1	1	1		1	1	1	
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1	1	1	1	1			1	1	
	2488022	CLIP, 3/8" BOLT (12.8554)													3
	23515353	BRACKET CLIP 90DEG					1								
1	5144629	BRACKET, CLIP 90 DEG.		1	1			1		1				1	
1	5173022	BRACKET, CLIP 90 DEG				1		1		1			1		
1	11503454	BOLT, M10 X 1.5 X 20.0		1		2	1	1		1	1		1	1	
	11504986	BOLT, M8 X 1.25 X 14 MM													3
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	1	1	1	1	1	1		3		
1	11507036	NUT, M8 X 1.25		1	1	1	1	1	1	1	1		1	1	3
	3.5526	HOSE, TURBOCHARGER DE-AERATION													
	YHHH0535	HOSE ASSY., NO.4 X 57.58" L.													1
	23501883	TEE, 3/4"-18 EXT.X1/4"-18 INT.													1
	8924145	CONNECTOR, 1/4" TUBE - 90 DEG.													1
	8924147	CONNECTOR													1
	8924140	DRAINCOCK, 1/4" (12.9510)													1
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1									1			

			TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1
				8	8	8	8	8	8	8	8	8	8	8
				5	6	6	6	6	6	7	7	7	7	7
				9	0	1	2	3	4	7	0	1	2	5
	3.5001	TURBOCHARGER												
	23522188	TURBO ASSY. GT4294S 1.28 A/R 56 TRIM 31 PSI (GT USE 23523120 ACTUATOR)(3K USE 23523811 ACT)	B1			1								
	23522194	TURBOCHARGER ASSY.GT4294S 1.01 A/R 52 TRIM 27PSI					1							
	23523038	TURBO ASSY., GT4294D 1.01 A/R DUAL BYPASS HOR						1						
	23525869	TURBO ASSY., GT47 1.27 A/R 56T BLW 31PSI WAST										1	1	
	23525976	TURBO ASSY., GT47 1.27 A/R 56T BLW 31PSI VERT												1
	23522190	TURBO ASSY., GT4202S 1.15 A/R 53 TRIM 31PSI						1						
	23522780	TURBOCHARGER, GT4294 1.01A/R SCRL DWN HI MT		1										
	23524928	TURB ASSY., GT47 1.27A/R 56TRIM SCRL DN EXH TO FRT								1				
1	8929169	WASHER (12.9190)		4	4	4	4	4	4	4	4	4	4	4
1	11506101	NUT, M10 X 1.5		4	4	4	4	4	4	4	4	4	4	4
	23522601	SPACER, PLATE								1				
	23524100	TURBO ASSY GT47 1.27 A/R 56TRIM SCRL DWN E									1	1		
	23525712	TURB ASM GT47 1.13A/R 31PSI HI &MED MT 56			1									
	3.5004	KIT WASTEGATE ACTUATOR												
	23523118	KIT, WASTEGATED ACTUATOR 27PSI HORIZ MT/105 DEG FITTING (SINGLE BYPASS)	AR											
	3.5307	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION												
1	8929529	GASKET, TURBO EXHAUST INLET		1	1	1	1	1	1	2	1	1	1	1
	3.5500	TUBE, TURBOCHARGER OIL SUPPLY												
1	23513187	TUBE, TURBO OIL SPLY HIGH MT											1	1
	23513188	TUBE, TURBO OIL SPLY MED MT										1		
	23515895	TUBE OIL SUPPLY SCROLL DOWN TURBO S60		1						1				
	23524975	TUBE, TURBO OIL SUPPLY MED MT				1	1	1						
	23521390	TUBE TURBOCHARGER OIL SUPPLY MED MOUNT			1						1		1	
	23523498	HOSE ASSY.,TURBO OIL SUPPLY							1					
1	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		2	2	2	2	2	2	2	2	2	2	2
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE			1	1	1	1		1				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 8 5 9	1 8 6 0	1 8 6 1	1 8 6 2	1 8 6 3	1 8 6 4	1 8 6 7	1 8 7 0	1 8 7 1	1 8 7 2	1 8 7 5	1 8 7 8
		3.5000A TURBOCHARGER													
	3.5502	CLIP, TURBOCHARGER OIL SUPPLY TUBE													
1	23509256	CLIP, 3/8" DIA. 7/16" BOLT			1		1	1	1		1			1	
	5109000	BRACKET, CLIP		1						1					
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT		1						1		1			1
	23505086	BRACKET							1						
	5173022	BRACKET, CLIP 90 DEG			1						1			1	
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1				1	1	1			1	
	11507036	NUT, M8 X 1.25		1	1				1	1	2			1	
	3.5505	TUBE, TURBOCHARGER OIL RETURN													
1	23505038	TUBE TURBO OIL DRN FLEX STNLS											1		1
1	23508412	TUBE, OIL DRAIN FLEX							1						
	23515354	TUBE TURB OIL DRN FLEX SST MED MT		1	1	1	1	1		1	1			1	
	23518514	TUBE TURBO OIL DRN FLEX SS MED MT S60										1			
1	23505039	ELBOW, 90 DEG FLD 3/4 TUBE		1					1		1	1	1	1	1
	11503454	BOLT, M10 X 1.5 X 20.0									2			2	
1	11509511	BOLT, M8 X 1.25 X 20 MM		2	2	2	2	2	2	2	1	3	1		2
	3.5506	GASKET, TURBOCHARGER OIL RETURN TUBE													
1	5170468	GASKET											2		
1	8929285	GASKET (3.5505)		1	1	1	1	1	1	1	1	1		1	1
	3.5507	CLIP, TURBOCHARGER OIL RETURN TUBE													
	23515207	BRACKET, 90 DEGREE									1			1	
1	2476233	CLIP, .750" DIA., 3/8" BOLT		1	1	1	1	1		1	1	1	1	1	1
	5145994	CLIP, 3/8" TUBE X 1/2" BOLT											1		
	23515353	BRACKET CLIP 90DEG			1										
1	5144629	BRACKET, CLIP 90 DEG.										1			
1	5173022	BRACKET, CLIP 90 DEG				1	1	2					1		1
	5176400	BRACKET, CLIP (4.8010)		1						1					
1	11503454	BOLT, M10 X 1.5 X 20.0			1	1	1	1			1	1	2	1	1
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	2	2	2		1				1	1
1	11507036	NUT, M8 X 1.25		1	1	2	2	2		1		1		1	1
	3.5535	INSULATION BLANKET TURBOCHARGER													
	23505907	SHIELD, HEAT OIL CLR TUBE	C1						1						

3.5000A TURBOCHARGER

**ASSY.
SECT.**

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ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		3.5000A TURBOCHARGER														
		(Note: Assemblies are shown for component reference only.)														
	3.5001	TURBOCHARGER														
1	R8929797	REMANUFACTURED 8929797	1													
1	R8929796	REMANUFACTURED 8929796		1												
1	R8929902	TURBOCHARGER ASSY. (TV51 1.15 A/R) 11L			1											
1	R8929903	TURBOCHARGER ASSY. (TV51 1.54 A/R) 11L				1										
1	R23504966	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L					1									
1	R23504967	TURBOCHARGER ASSY. (TMF51 1.34 A/R) 12.7L LOW MIX						1								
1	R23507908	TURBOCHARGER ASSY. (TV4501 1.22 A/R) 11L							1							
1	R23507909	TURBOCHARGER ASSY. (TV4501 1.22 A/R) 11L LOW MT								1						
1	R23508405	REMANUFACTURED 23508405									1					
1	R23508410	TURBOCHARGER ASSY. (TMF5102 1.34 A/R) 12.7L HI/MED										1				
1	R23508406	TURBOCHARGER ASSY. (TV4502 1.22 A/R) 11L LOW MT											1			
1	R23508411	TURBOCHARGER ASSY. (TMF5102 1.34 A/R) 12L LOW MT												1		
	23518588	TURB ASM TMF55 1.34 A/R (53"80) HI&MED													1	
	23518696	TURB ASM GT42 1.15AA/R LOW MT 11L S60														1
	3.5003	HOUSING, TURBOCHARGER TURBINE														
	23505780	HOUSING, TURBINE 1.23 A/R TV51 11L		1												
	23505781	KIT, TURBINE V-BAND W/NUT	1	1		1			1	1	1		1			1
	23505784	HOUSING, TURBINE 1.54 A/R TV51 12.7L	1			1										
	23505787	HOUSING, TURBINE 1.34 A/R					1	1				1		1		
	23508796	HOUSING, TURBINE 1.22 A/R TV45 11L							1	1	1		1			
	23512182	BOLT, 5/8"-16X1"					4	4				4		4	4	
	23516928	HOUSING TURBINE													1	
	23519207	TURB. HOUSING GT42 TURB S60														1
	3.5018	HOUSING ASSY. TURBOCHARGER INTERMEDIATE														
	23505779	HOUSING ASSY. (TV51) 11L		1												
	23505783	HOUSING ASSY. (TV51) 12.7L	1			1										
	23505786	HOUSING ASSY. (TMF-51 GTD)					1	1				1		1		
	23508409	HOUSING ASSY. (TV4502) 11L							1	1	1		1			
	23518710	HOUSING & ROTATING ASSY. CTR TMF55													1	
	23519205	HOUSING CENTER GT42 TURB S60														1

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F	G	H	I	J	K	L	M	N
		3.5000A TURBOCHARGER														
		(Note: Assemblies are shown for component reference only.)														
	3.5022	HOUSING, TURBOCHARGER COMPRESSOR														
	23505778	HOUSING, COMPRESSOR (TV51) 11L		1												
	23505782	HOUSING, COMPRESSOR (TV51) 12.7L	1			1										
	23505785	HOUSING, COMPRESSOR (TMF-51 GTD)					1	1								
	23505789	KIT, COMPRESSOR V-BAND W/NUT	1	1		1	1	1	1	1	1	1	1	1	1	1
	23507505	* CLAMP ASSY., 4.43" DIA.	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23508408	* RING, SEAL TURBO COMP OTLT ELBOW	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23508795	HOUSING, COMPRESSOR (TV45)							1	1						
	23509158	HOUSING, COMPRESSOR (TV4502)									1		1			
	23509159	HOUSING, COMPRESSOR (TV45) MARMON FLANGE										1		1		
	23513730	* ELBOW, TURBO COMP OTLT 45 DEG.									1					
	23518563	* ELBOW TURB COMP OTLT DIE CAST MARMFLG	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR		
	23518670	HOUSING COMP. TMF55													1	
	23519206	COMPRESSOR, HOUSING *FOR UNITS WITH CHASSIS MOUNTED CHARGE AIR COOLER.														1

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E												
		3.5000A TURBOCHARGER																	
		(Note: Assemblies are shown for component reference only.)																	
	3.5001	TURBOCHARGER																	
	R23519248	TURB ASM GT42 1.15 A/R MED&HI 11L S60	1																
	23515635	TURB ASM TMF55 1.34 A/R HI&MED MT 12L		1															
	23521496	TURB ASSY.,TMF55 1.34A/R HI&MED WRAP			1														
	23518597	TURB ASM TMF55 1.34 A/R (53°80) LOW MT				1													
	23522188	TURBO ASSY. GT4294S 1.28 A/R 56 TRIM 31 PSI					1												
	23523804	HOUSING & ROTATING ASSY.					1												
	23523807	SCREW					6												
	23523811	KIT WASTEGATE ACTUATOR ASSY.					1												
	3.5003	HOUSING, TURBOCHARGER TURBINE																	
	23505787	HOUSING, TURBINE 1.34 A/R		1															
	23512182	BOLT, 5/8"-16X1"		4		4													
	23505781	KIT, TURBINE V-BAND W/NUT	1																
	23516928	HOUSING TURBINE				1													
	23519207	TURB. HOUSING GT42 TURB S60	1																
	23521497	HOUSING TURB TMF55 1.34A/R WRAP HI-SI-MO			1														
	23523805	HOUSING TURBINE					1												
	23523806	CLAMP					3												
	23523809	KIT TURBINE V-BAND					1												
	3.5018	HOUSING ASSY. TURBOCHARGER INTERMEDIATE																	
	23515637	HSG & ROTATING ASM CTR TMF55 S60		1	1														
	23518710	HOUSING & ROTATING ASSY.,CTR TMF55				1													
	3.5022	HOUSING, TURBOCHARGER COMPRESSOR																	
	23515638	HOUSING COMP TMF55 TURB MARM FLG S60		1	1														
	23505789	KIT, COMPRESSOR V-BAND W/NUT	1	1	1	1													
	23512182	BOLT, 5/8"-16X1"			4														
	23518670	HOUSING COMP. TMF55				1													
	23523808	HOUSING COMPRESSOR					1												
	23523810	NUT					1												

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A																	
		(Note: Assemblies are shown for component reference only.)																		
	3.5535	INSULATION BLANKET TURBOCHARGER																		
	23505907	SHIELD, HEAT OIL CLR TUBE	1																	
	8929865	CLAMP, 3"-3 1/2" ID HOSE	1																	

				TYPES															
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	5	5	5											
				9	6	0	4	5											
3.7000 INTERCOOLER/AFTERCOOLER																			
FOR OPTION # 57, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06M07D 6007																			
	3.7001	INTERCOOLER ASSY.																	
	23521472	COOLER ASSY.,CHARGE AIR TO WATER		1		1													
	23525103	CAC, MATRIX						1											
	23508461	HOSE ASSY., #4X11.58" L.		1		1	1												
	3.7003	BRACKET, INTERCOOLER MOUNTING																	
	23522836	BRACKET, AIR CHRGR CLR & HEAT EXCH MT			1	1													
	23523339	BRACKET, STAB HEAT EXCH MT			1	1													
	23525319	BRACKET, CAC						1											
	11501803	BOLT, M16 X 2 X 45 MM			1	1													
	11505299	BOLT, M10 X 1.5 X 30.0 MM						10											
	11509528	BOLT, M12 X 1.75 X 30 MM			4	4													
	179887	BOLT, 1/2"-13X1 3/4"				2													
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)						2											
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)			6	6													
	23509483	WASHER, 33/64"X1 1/16"X1/8"				2													
	5109949	WASHER, 17/32"X1 3/16"X.1943" (5.4025)				6													
	5132715	WASHER, .53"X.94"X.12" (1.3140)			6	6													
	8929328	WASHER, 16.8" X 25.8" (12.9190)			1	1													
	103323	LOCKWASHER, 1/2"			6	8													
	11500049	LOCKWASHER, M16			1	1													
	3.7005	ADAPTOR, WATER PUMP DRIVE																	
	23521250	COVER ASSY.,WAT PMP DRIVE CHRG CLR		1															
	11500944	BOLT, M12X1.75X40.0 MM		4															
	11509528	BOLT, M12 X 1.75 X 30 MM		1															
	23509483	WASHER, 33/64"X1 1/16"X1/8"		4															
	3.7012	GASKET, HOUSING ADAPTOR																	
	23515145	GASKET AIR COMP 53/71/92 S50/60		1		1	1												
	23525104	GASKET, (CAC COOLER TO HSG)						2											
	3.7025	COUPLING, WATER PUMP DRIVE																	
	5143616	COUPLING					1												
	3.7030	COVER, WATER PUMP INLET																	
	23521888	COVER WATER PMP BODY (PA)		1		1	1												
	8921930	BOLT, 1/4"-20X.75" (W/SEAL PATCH) (12.9001)		4		4	4												
	8922327	PLUG, 1/4" NPTF (12.9550)		1															

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				3 9	4 6	5 0	5 4	5 5					
		3.7000 INTERCOOLER/AFTERCOOLER											
	3.7050	TUBE, WATER PUMP INLET											
	8929875	HOSE, 1 3/4" X 3.25"				1							
	23503066	CLAMP, 1.75"-2.62" DIA. HOSE				2							
	3.7060	TUBE, WATER PUMP OUTLET											
	23523564	TUBE, WAT PMP TO CHRGR AIR CLR 2"				1							
	23514665	HOSE 2.00 X 3.00 SAE 20R1 SLCN BLUE				1							
	23503066	CLAMP, 1.75"-2.62" DIA. HOSE				2							
	3.7080	TUBE, INTERCOOLER WATER OUTLET											
	CAHH0306	HOSE ASSY., #6 X 32.92" LG H&H FC234						1					
	8929725	ELBOW, .80" RESTRICTION, 3/8" PIPE X5/16" (2.5210)						1					
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)						1					
	2488022	CLIP, 3/8" BOLT (12.8554)						1					
	5147599	CLIP, .562" DIA. 1/2" BOLT (2.5120)						1					
	11504986	BOLT, M8 X 1.25 X 14 MM						1					
	11513811	BOLT, M12 X 1.75 X 20 MM						1					
	3.7150	HOSE, INLET & OUTLET INTERCOOLER											
	23523280	TUBE, TURBO TO CHRGR AIR CLR 4" (RIGHT SIDE)			1	1							
	23523281	TUBE, CHRGR AIR CLR TO INTAKE MANIFOLD (LEFT SIDE)			1	1							
	23523565	HOSE, 4" AIR CHRGR W/STL RINGS			4	4							
	8926958	CLAMP, HOSE 4" (.75" W.)			8	8							
	3.7180	KIT FRESH WATER PUMP											
	23521887	PUMP ASSY., WATER RH HI CAP (PA) (5.1001)	A1	1									
	23522735	PUMP ASSY., WATER W/CVR & SPLINE HUB	A1			1	1						
	23506870	RECONDITIONING KIT (HIGH CAPACITY)		AR									
	23513811	ELBOW, 90 DEG #16				1							
	11513811	BOLT, M12 X 1.75 X 20 MM						1					
	23507202	BOLT, 5/16"-18X1" (12.9001)		3									
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.				4	4						
	23506734	WASHER, 5/16" (SS) (12.9200)		3									
	5180370	WASHER, .55" I.D. COPPER (7.4969)				1	1						
	3.7185	GASKET, FRESH WATER PUMP											
	5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)		1									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				3 9	4 6	5 0	5 4	5 5					
		3.7000 INTERCOOLER/AFTERCOOLER											
	3.7195	GASKET, FRESH WATER PUMP BODY COVER											
	5178273	GASKET		1		1	1						
	3.7290	COVER, CHARGE AIR COOLER HOUSING											
	23525102	COVER, (CAC HOUSING)						1					
	000912010012	BOLT, M10 1.50 X 35						21					
	3.7300	HOUSING, INTERCOOLER/AIR COOLER											
	23525101	HOUSING, (CAC/INTAKE)						1					
	23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV						1					
	5182977	RING, SEAL (3.3055)						1					
	23523608	BOLT, M10 X 1.5 X 135						7					
	304017005024	BOLT, M5 X 12						2					
	8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)						1					
	3.7305	ELBOW, WATER INLET & OUTLET INTERCOOLER/AIR COOLER											
	23525108	ELBOW, (CAC RAW WATER-INLET)						1					
	23525109	ELBOW, (CAC RAW WATER-OUTLET)						1					
	23511711	HOSE, 2.50"X3.25" L.						1					
	23517875	GASKET AIR INT MFD STL RUB CTD S50/60						3					
	23525105	GASKET, (CAC COOLER/RAW WATER DUCT)						2					
	23525110	SLEEVE						2					
	6525206	SEAL RING, 2 1/4" I.D. (2.7232)						8					
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)						2					
	11509513	BOLT, M8 X 1.25 X 40 MM						4					

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B																
		3.7000 INTERCOOLER/AFTERCOOLER																		
		(Note: Assemblies are shown for component reference only.)																		
	3.7180	KIT FRESH WATER PUMP																		
	23521887	PUMP ASSY., WATER RH HI CAP (PA) (5.1001)	1																	
	23522735	PUMP ASSY., WATER W/CVR & SPLINE HUB		1																
	8924147	CONNECTOR		1																
	11509512	BOLT, M8 X 1.25 X 25 MM		3																
	3.7185	GASKET, FRESH WATER PUMP																		
	5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)		1																
	3.7190	BODY, FRESH WATER PUMP																		
	8920915	BODY (LH) (HI CAP)		1																
	23521886	BODY, WATER PUMP RH HI CAP (PA)	1																	
	3.7200	IMPELLER, FRESH WATER PUMP																		
	23505998	IMPELLER	1	1																
	3.7210	SEAL, FRESH WATER PUMP																		
	23506248	SEAL, UNITIZED	1	1																
	3.7220	BEARING, FRESH WATER PUMP																		
	908337	SHAFT (INCLUDES BEARING)	1	1																

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

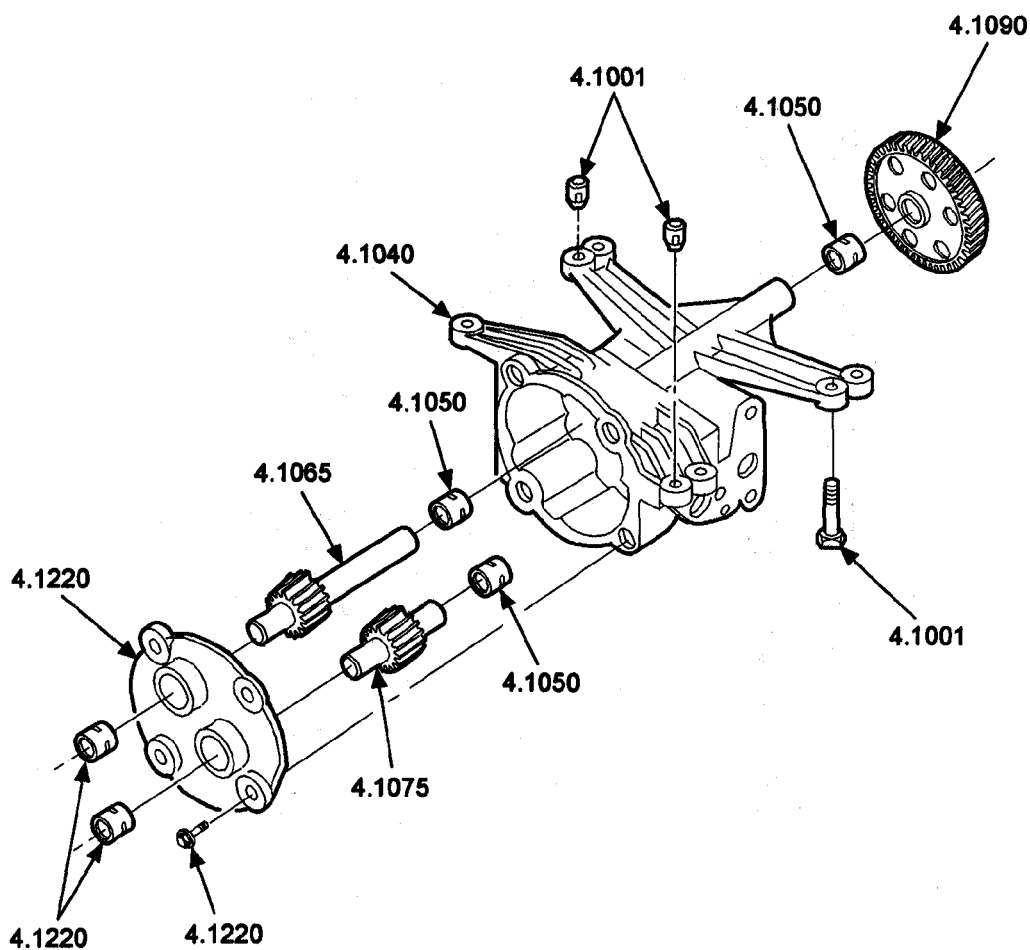
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 OIL PUMP ASSEMBLY

38497

FIG. 1 OF 4.1000A

DETROIT DIESEL

SERIES 60 ENGINE

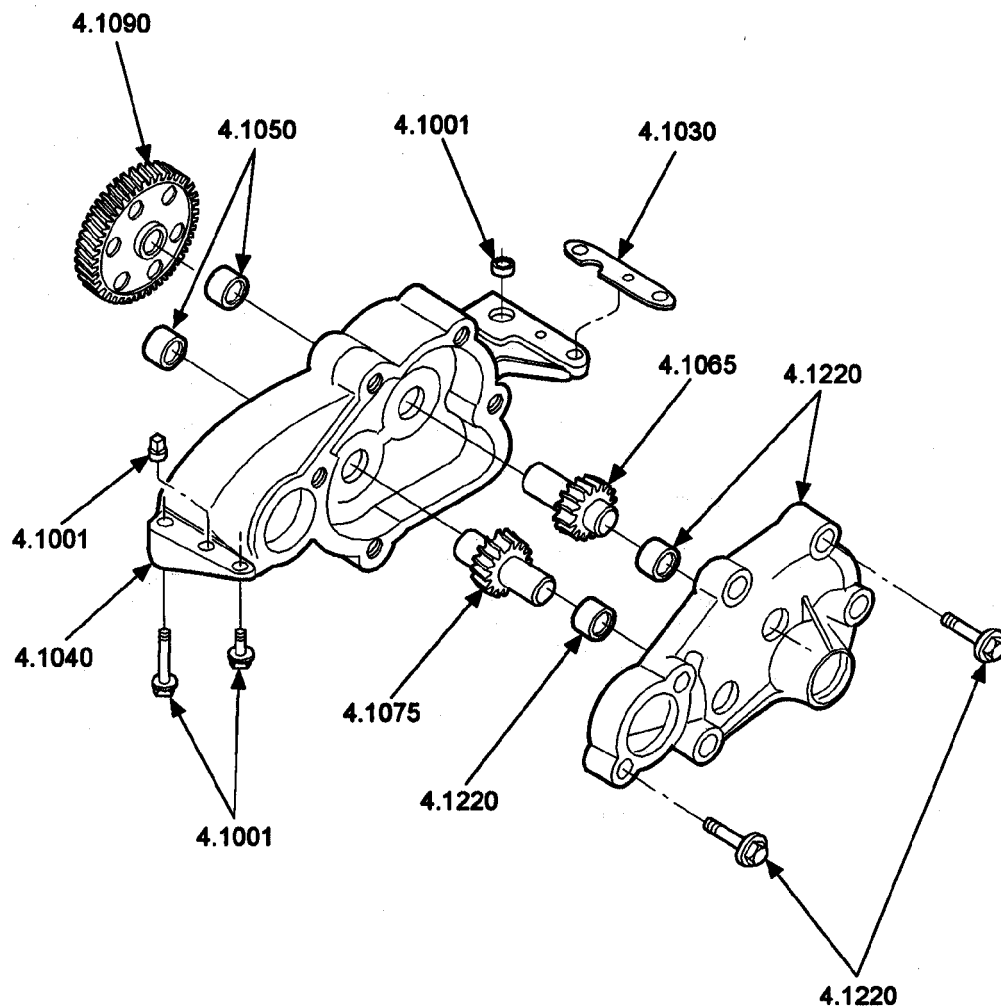


FIG. 2 OIL PUMP ASSEMBLY

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FIG. 2 OF 4.1000A

				TYPES									
4.1000A OIL PUMP				1	1	2							
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	9	1							
				5	8	4							
REFER TO ENGINEERING DRAWING # 06F01 6001													
	4.1001	PUMP ASSY., OIL											
		A PUMP ASSY. INCLUDES ITEMS IN 4.1040, 4.1065, 4.1075, 4.1090 AND 4.1220.											
	R23505886	REMANUFACTURED 23505886			AR								
	R8929151	REMANUFACTURED 8929151		AR									
	23505886	PUMP ASSY., RT. SIDE ENGINE			1								
	8929151	PUMP ASSY.		1									
2	23505885	DOWEL, SLEEVE OIL PUMP			1								
1	8920172	DOWEL, CAMSHAFT (1.7200)		1									
1,2	8929011	PIN, 25L., DOWEL		1	1								
1,2	11502826	BOLT, M10 X 1.5 X 40.0		4	2								
2	8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)			2	2							
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)				2							
	23518414	PUMP ASM OIL GR DRVN FUEL ECON 11LS60	A1			1							
	4.1003	OVERHAUL KIT, OIL PUMP											
		AN OVERHAUL KIT INCLUDES ITEMS IN 4.1065, 4.1075, 4.1520, 4.1590 AND 4.1730.											
	23501578	OVERHAUL KIT		1									
	23511065	OVERHAUL KIT, RT SIDE ENGINE			1								
	4.1030	SHIM, OIL PUMP											
	8929608	SHIM (.0025" THK.)		AR									
	8929609	SHIM (.0055" THK.)		AR									
2	23508740	SHIM (.0055" THK.)			AR	AR							
	4.1040	BODY, OIL PUMP											
		BODY ASSY. INCLUDES BUSHINGS IN 4.1050.											
1	8929010	BODY ASSY.		1									
2	23505878	BODY ASSY., RT. SIDE ENGINE			1								
	4.1050	BUSHING, OIL PUMP BODY											
1	5127978	BUSHING		3									
2	23505879	BUSHING, SHAFT & DRIVE GEAR			2								
	4.1065	SHAFT AND GEAR ASSY., OIL PUMP DRIVE											
1	8929150	SHAFT AND GEAR ASSY.		1									
2	23505882	SHAFT & GEAR ASSY., OIL PUMP			1								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				1	1	2									
		4.1000A OIL PUMP		9	9	1									
				5	8	4									
	4.1075	SHAFT AND GEAR ASSY., OIL PUMP DRIVEN													
1	8929149	SHAFT AND GEAR ASSY.		1											
2	23507337	SHAFT & GEAR ASSY., OIL PUMP			1										
	4.1090	GEAR, OIL PUMP DRIVE													
1	8929312	GEAR, 69 TEETH		1											
2	23505884	GEAR, 69 TEETH			1										
	4.1220	COVER, OIL PUMP													
		A COVER ASSY. INCLUDES BUSHINGS IN 4.1220													
2	23505883	COVER ASSY, OIL PUMP			1										
1	8929003	COVER ASSY.		1											
2	23505879	BUSHING, SHAFT & DRIVE GEAR			2										
1	5127978	BUSHING		2											
1	11505299	BOLT, M10 X 1.5 X 30.0 MM		4											
2	11509511	BOLT, M8 X 1.25 X 20 MM			2										
2	11509514	BOLT, M8 X 1.25 X 50 MM			2										

A

All information subject to change without notice.
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DETROIT DIESEL

SERIES 60 ENGINE

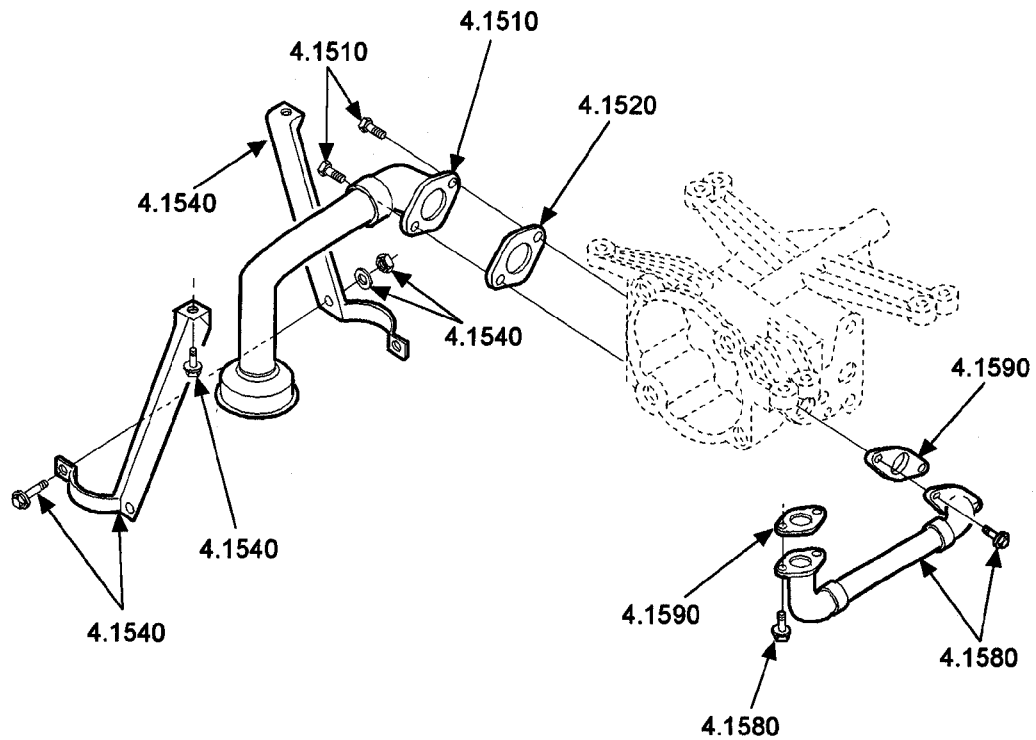


FIG. 1 OIL DISTRIBUTION SYSTEM

38550

FIG. 1 OF 4.1000B

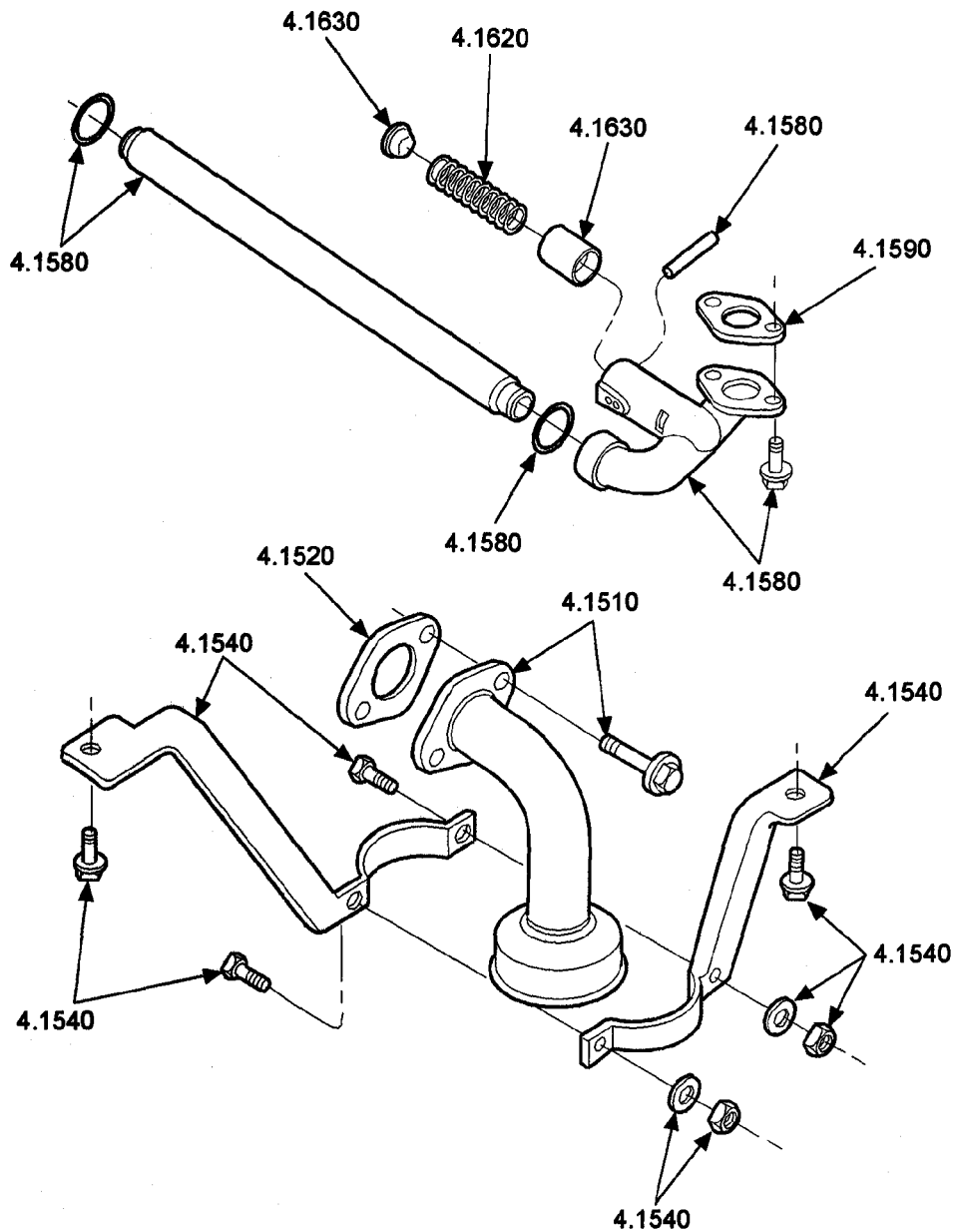
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 2 OIL DISTRIBUTION SYSTEM

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FIG. 2 OF 4.1000B

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5 7 3	5 7 7	5 8 0	5 8 8	5 9 4	5 9 8	6 0 0	6 0 5	6 1 4	6 1 8	6 3 2	6 4 4
	4.1510	PIPE, OIL PUMP INLET													
1	23505017	TUBE AND SCREEN ASSY.					1								
2	23505887	TUBE ASSY, OIL INLET FRT SUMP						1							
2	23506683	TUBE & SCREEN ASSY, OIL PUMP						1							
2	23506835	TUBE & SCREEN ASSY.								1					
2	23506836	TUBE & SCREEN ASSY., OIL PUMP									1				
	23511693 *	TUBE & SCREEN ASSY										1			
	23512923	TUBE & SCREEN ASSY., SHALLOW PAN											1		
	23514928	TUBE & SCRIN ASM OIL INL SHALLOW PAN												1	
	23518569	TUBE & SCRIN ASSY.,INL LOW FLOOR PAN													1
1	8929349	TUBE ASSY.		1											
1	8929614	TUBE AND SCREEN ASSY.				1									
1	8929645	TUBE ASSY.			1										
1	11504822	BOLT, M8 X 1.25 X 30		1	1	1	1								
1,2	11509514	BOLT, M8 X 1.25 X 50 MM		1	1	1	1	2	2	2	2	2	2	2	2
		* NOT SERVICED, USE 235112314 TUBE & SCREEN ASSY. AND 2-23512315 BRACKETS.													
	4.1520	GASKET, OIL PUMP INLET PIPE													
1	8929344	GASKET (TO PUMP) (4.1520)		1	1	1	1								
2	23505992	GASKET, OIL INLET TUBE TO PUMP						1	1	1	1	1	1	1	1
	4.1540	BRACKET, OIL PUMP SCREEN SUPPORT													
1,2	8929104	BRACKET		2		2		2			2				
	23505011	BRACKET (RH)					1			1					
	23505012	BRACKET (LH)					1			1				1	1
2	23505991	BRACKET						2							
	23511694 *	BRACKET (RH)										1			
	23511695 *	BRACKET (LH)										1			
	23512920	BRACKET (RH)											1		
	23512921	BRACKET (LH)											1		
	23517042	BRACKET-OIL PMP INL TUBE (RH) S60												1	1
	8929662	BRACKET			1										
	8929661	STRAP			1										
	11504822	BOLT, M8 X 1.25 X 30			2										
1,2	11505299	BOLT, M10 X 1.5 X 30.0 MM		4		4	4	4	4	4	4	4	2	2	2
	106261	WASHER, 5/16"X3/4"			2										
	11502812	NUT, M10 X 1.5		2		2	2	2	2	2	2	2	2	2	2
	11503454	BOLT, M10 X 1.5 X 20.0										2	2	2	2
	11503553	NUT, M8 X 1.25			2										
		* NOT SERVICED, USE 235112314 TUBE & SCREEN ASSY. AND 2-23512315 BRACKETS.													

				TYPES											
4.1000B OIL DISTRIBUTION SYSTEM				5	5	5	5	5	5	6	6	6	6	6	6
				7	7	8	8	9	9	0	0	1	1	3	4
				3	7	0	8	4	8	0	5	4	8	2	4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	4.1580	PIPE, OIL PUMP OUTLET													
2	8929327	TUBE ASSY.		1	1	1	1								
2	23505890	TUBE, OIL PUMP OUTLET						1	1	1	1	1	1	1	1
	23514767	ELBOW ASM OIL INL & PRESS RLF VLV S60	A1					NS	NS	NS	NS	NS	NS	1	NS
2	23505891	RING SEAL, OIL PUMP OUTLET						1	1	1	1	1	1	1	1
2	23505892	RING SEAL, OIL PUMP INLET						1	1	1	1	1	1	1	1
1,2	11504822	BOLT, M8 X 1.25 X 30		4	4	4	4	2	2	2	2	2	2	2	2
	4.1590	GASKET, OIL PUMP OUTLET PIPE													
1	8929344	GASKET (TO PUMP) (4.1520)		1	1	1	1								
1,2	8929347	GASKET (TO BLOCK)		1	1	1	1	1	1	1	1	1	1	1	

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	8	4									
4.1000B OIL DISTRIBUTION SYSTEM															
REFER TO ENGINEERING DRAWING # 06G01 6019															
1,2	4.1510	PIPE, OIL PUMP INLET													
	23525020	TUBE ASSY., OIL PUMP INLET	1												
	11509514	BOLT, M8 X 1.25 X 50 MM	2												
2	4.1520	GASKET, OIL PUMP INLET PIPE													
	23505992	GASKET, OIL INLET TUBE TO PUMP	1												
1,2	4.1540	BRACKET, OIL PUMP SCREEN SUPPORT													
	23512920	BRACKET (RH)	1												
	23512921	BRACKET (LH)	1												
	11505299	BOLT, M10 X 1.5 X 30.0 MM	2												
	11502812	NUT, M10 X 1.5	2												
	11503454	BOLT, M10 X 1.5 X 20.0	2												
2	4.1580	PIPE, OIL PUMP OUTLET													
	23505890	TUBE, OIL PUMP OUTLET	1												
	23526138	ELBOW ASSY., OIL INLT & PRESS RELIEF 2 PORT	1												
2	23505891	RING SEAL, OIL PUMP OUTLET	1												
2	23505892	RING SEAL, OIL PUMP INLET	1												
1,2	11504822	BOLT, M8 X 1.25 X 30	2												
2	457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1												
4.1620		SPRING, OIL PUMP OUTLET PIPE BYPASS VALVE													
	5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1												
4.1630		VALVE, OIL PUMP OUTLET PIPE BYPASS													
	8922740	VALVE	1												
	5117957	SEAT	1												

A

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DETROIT DIESEL

SERIES 60 ENGINE

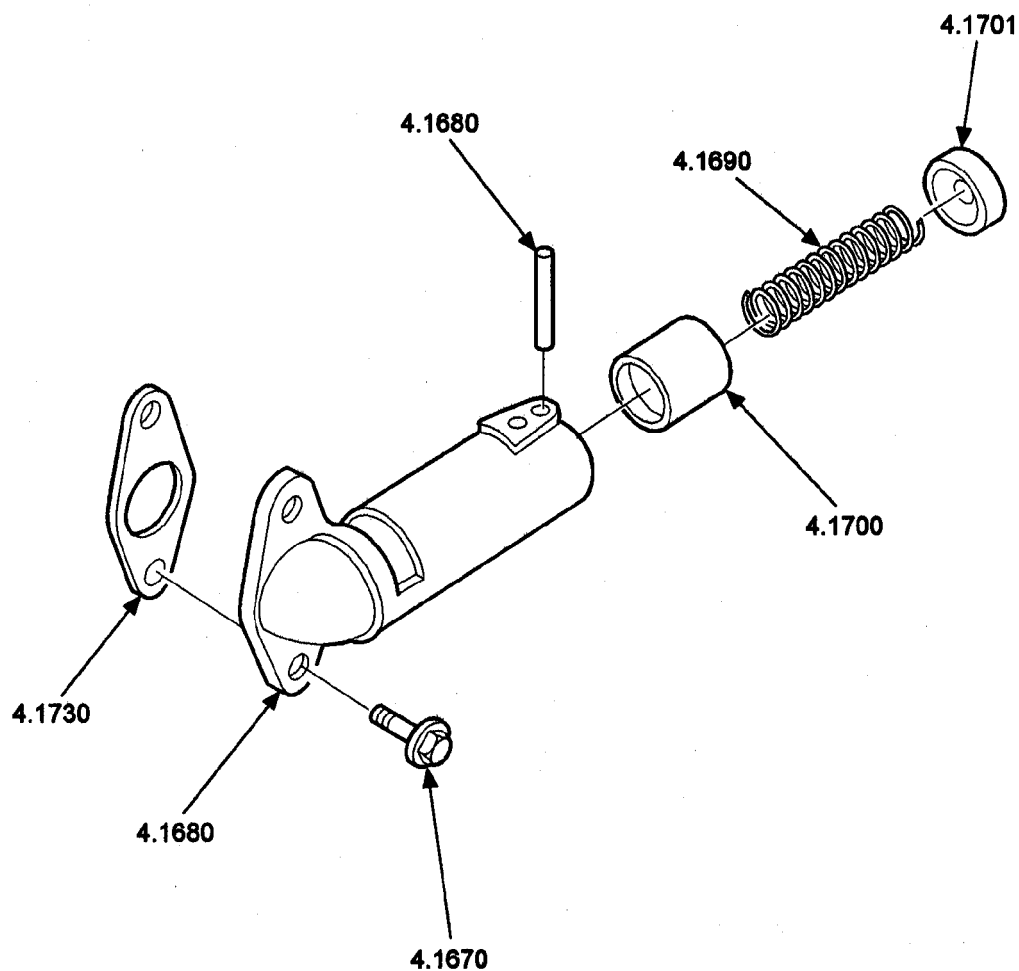


FIG. 1 OIL PRESSURE REGULATOR / RELIEF ASSEMBLY

21989

FIG. 1 OF 4.1000C

				TYPES									
4.1000C OIL PRESSURE REGULATOR				3	3	3	4	5					
				4	7	8	2	1					
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.										
REFER TO ENGINEERING DRAWING # 06F02 6001													
	4.1670	REGULATOR, OIL PRESSURE											
		A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.											
1	23512901	REGULATOR ASSY.	A1	1		1		1					
	8929282	REGULATOR ASSY.	A1				NS						
	23512901	REGULATOR ASSY.	A1				1						
1	11504822	BOLT, M8 X 1.25 X 30		2		2	2	2					
	4.1671	RELIEF, VALVE OIL PRESSURE											
1		A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.											
	8921086	VALVE ASSY.	B1		1	1	1						
1	11504822	BOLT, M8 X 1.25 X 30			2	2	2						
	4.1730	GASKET, OIL PRESSURE REGULATOR BODY											
1	5117269	GASKET		1	1								

ASSEMBLIES

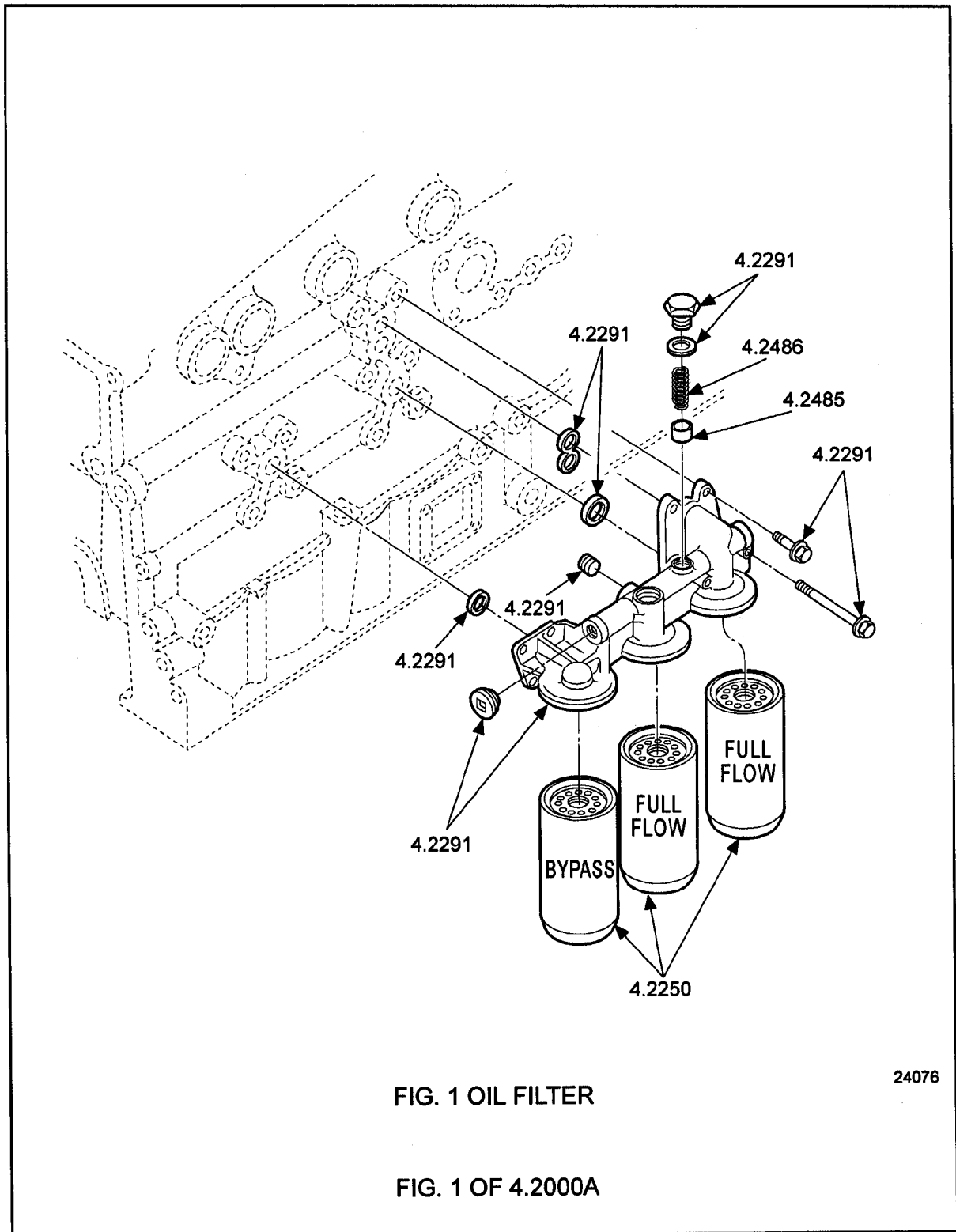
FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES															
			A	B														
		4.1000C OIL PRESSURE REGULATOR																
	4.1670	REGULATOR, OIL PRESSURE A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.																
	23512901	REGULATOR ASSY.	1															
	8929282	REGULATOR ASSY.		1														
	4.1680	BODY, OIL PRESSURE REGULATOR AND RELIEF PIN, 3/16" X 1-1/2" SPRING (12.9270)	1	1														
	457008	BODY, REGULATOR	1	1														
	8929283																	
	4.1690	SPRING, OIL PRESSURE REGULATOR SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1	1														
	5126327																	
	4.1700	VALVE, OIL PRESSURE REGULATOR VALVE	1	1														
	8922740																	
	4.1701	SEAT, OIL PRESSURE REGULATOR SEAT	1															
1	23512900	SEAT																
1	5117957	SEAT		1														

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A																	
		4.1000C OIL PRESSURE REGULATOR																		
		(Note: Assemblies are shown for component reference only.)																		
	4.1671	RELIEF, VALVE OIL PRESSURE																		
		A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.																		
	8921086	VALVE ASSY.	1																	
	4.1680	BODY, OIL PRESSURE REGULATOR AND RELIEF																		
1	457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1																	
1	8921084	BODY, RELIEF	1																	
	4.1690	SPRING, OIL PRESSURE REGULATOR																		
1	5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1																	
	4.1700	VALVE, OIL PRESSURE REGULATOR																		
1	8922740	VALVE	1																	
	4.1701	SEAT, OIL PRESSURE REGULATOR																		
1	5117957	SEAT	1																	

DETROIT DIESEL

SERIES 60 ENGINE



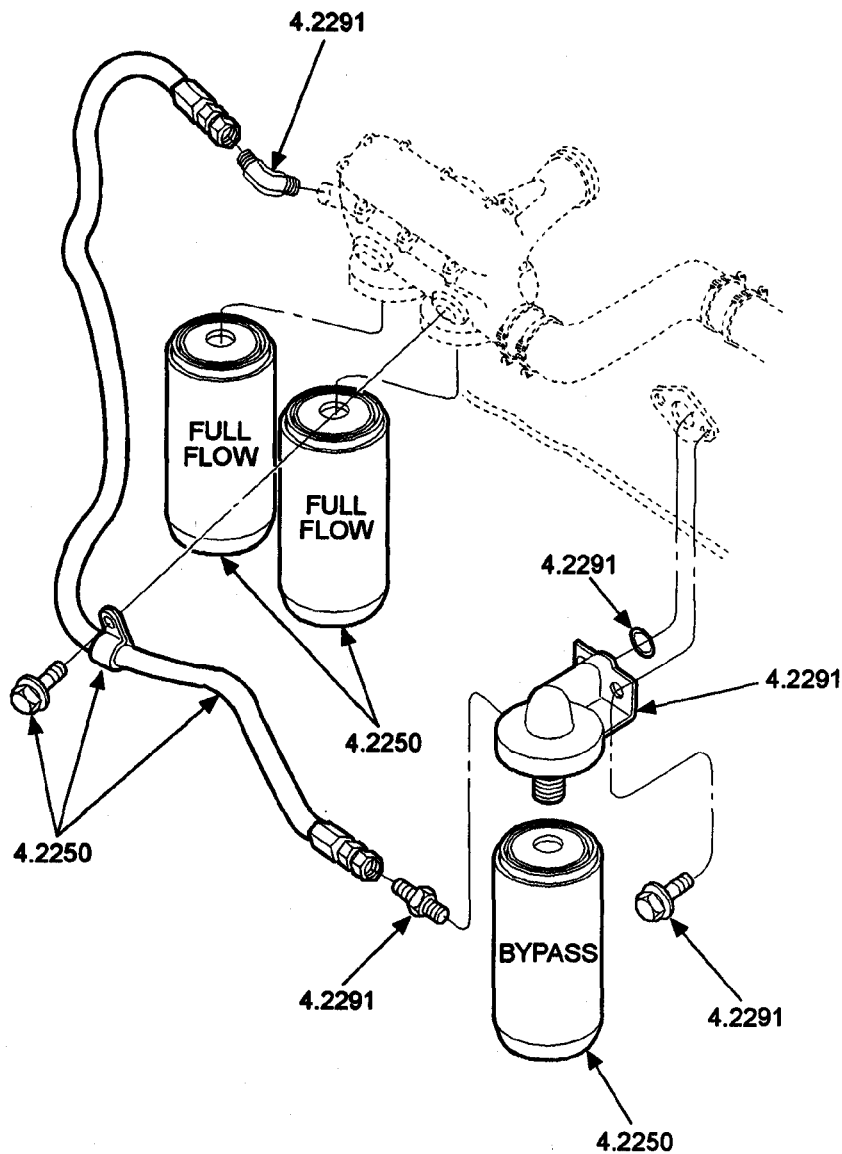
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 2 OIL FILTERS

24068

FIG. 2 OF 4.2000A

				TYPES										
4.2000A OIL FILTER				4	6	6	6	6	6	6	6	6	6	6
				8	2	2	3	3	3	4	4	6	8	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	5	6	3	4	7	8	1	2	2	6
REFER TO ENGINEERING DRAWING # 06G05 6011														
	4.2250	ELEMENT, OIL FILTER												
2	23518480	FILTER, LUBE OIL							2	2				
1,2	23518671	FILTER, LUBE OIL		2	2	2	2	2						
1,2	23518672	FILTER, LUBE OIL (BYPASS)		1	1	1	1	1			1			
	5361840001	FILTER, OIL												1
	23516465	KIT, OIL FILTER CONVERSION (CONVERTS 1991-1992 ENGINES TO USE PF2100 FILTERS)			AR	AR	AR	AR			AR			
	23516466	KIT, OIL FILTER CONVERSION (CONVERTS 1987-1990 ENGINES TO USE PF2100 FILTERS)		AR										
	23505905	HOSE ASSY. TURBO OIL SPLY MED MT									1			
2	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)			1						1			
2	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)			1	1					1			
	23509255	CLIP, 3/8" DIA. 7/16" BOLT									1			
2	11504986	BOLT, M8 X 1.25 X 14 MM			1									
	11509511	BOLT, M8 X 1.25 X 20 MM									1			
	4.2291	ADAPTOR, OIL FILTER COVER												
2	23509420	ADAPTOR ASSY., (BYPASS & FILTER) 90 DEG					1							
	23513767	ADAPTOR, REMOTE MOUNT										2	2	
2	23516465	KIT, OIL FILTER CONVERSION			1	1		1			1			
	23525128	ADAPTOR, REMOTE OIL FILTER												1
	23525147	ADAPTOR ASSY., LUBE OIL FILTER												1
1	8929572	ADAPTOR ASSY. (BYPASS & FULL FLOW)		1										
2	23508392	RING, SEAL			1	1	1	1			1			
	23513919	RING SEAL (RECT SECT) 3.21 X 92.10 ID										2	2	4
1	8929340	O-RING (BY PASS FILTER)		1										
1	8929341	O-RING (OIL FILTER)		1										
1	8929342	O-RING (OIL FILTER ADAPTOR) (FIGURE "8")		1										
	23513949	ELBOW, 90 DEG. 37 DEG. FLD. TO 1 5/16"-12										4	4	
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60									1			
2	8924998	ELBOW (90 DEG.)				1	1				1			
2	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)			1			1			1			
1	23505121	PLUG (4.1710)		1										
	23513967	KIT, OIL ADAP & PLUGS REM MT										1	1	
	23514524	KIT, OIL FILTER ADAPTOR ASSY./W INSERT REM MT										1		
1	8923313	PLUG, 3/4" PIPE (12.9550)		3										
1	8923847	PLUG, PIPE 1/4-18" NPTF		1		1	1	1		1				
2	11505299	BOLT, M10 X 1.5 X 30.0 MM			2			2			2			
1	11509513	BOLT, M8 X 1.25 X 40 MM												
1	11509521	BOLT, M8 X 1.25 X 130 MM		6										
1	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		2			2	2						4
	23513769	BOLT, 1 5/8"-12										2	2	
	11506101	NUT, M10 X 1.5					2	2	2					

			TYPES										
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	6	6	6	6	6	6	6	6	6
				8	2	2	3	3	3	4	4	6	8
		4.2000A OIL FILTER		4	5	6	3	4	7	8	1	2	6
	4.2291	ADAPTOR, OIL FILTER COVER (CONT.)											
	23513768	WASHER									2	2	2
	5137201	WASHER, PLUG 1.09 X 1.38 X .032 COPPER (12.6817)	1										
	23525129	CAP, REMOTE OIL FILTER ADAPTOR											2
	23525130	STUD, REMOTE OIL FILTER ADAPTOR											2
	4.2470	SUPPORT, OIL FILTER MOUNTING.											
	23511319	BRACKET, COOLANT & BYPASS FILTER				1	1	1	1				
	23525195	BRACKET, OIL FILTER MOUNT											1
	8923847	PLUG, PIPE 1/4-18" NPTF								1			
	8924998	ELBOW (90 DEG.)				1	1	1					
	11509526	BOLT, M10 X 1.5 X 130 MM				2	2	2	2				
	11513960	BOLT, M10 X 1.5 X 145 MM						2	2				
	11506101	NUT, M10 X 1.5				2	2	2	4				4
	23509136	CLIP, .640" DIA. 3/8" BOLT (2.5146)											3
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)											2
1	4.2485	VALVE, OIL FILTER BYPASS											
	8929000	VALVE	1										
1	4.2486	SPRING, OIL FILTER BYPASS VALVE											
	8929486	SPRING	1										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				2 1 0	2 1 4	2 1 5	2 2 1						
	4.3001	TUBE, OIL FILTER INLET											
	23505209	HOSE ASSY, #6X50.88" L.		1	1								
	23509180	HOSE ASSY., #6X48.69" L.				1							
	23525256	TUBE ASSY., REAR MOUNT OIL FILTER SUPPLY					1						
	5101020	STRAP, NYLON (2.5255)		1	1	1							
	23516337	CONNECTOR, 37 DEG 1 1/4" FLD TUBE 1 5/8"-12					1						
	23525150	ELBOW, 90 DEG 37 DEG 1 1/4" FLD TUBE					1						
	4.3020	TUBE, OIL FILTER OUTLET											
	BAHP0213	HOSE ASSY., #6 X 23.7" H&P		1									
	23507192	HOSE ASSY., #6 X 33.42"			1								
	23509181	HOSE ASSY., #6X16.75" L.				1							
	23525257	TUBE ASSY., REAR MOUNT OIL FILTER RETURN					1						
	8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9460)		1		1							
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)			1								
	23516337	CONNECTOR, 37 DEG 1 1/4" FLD TUBE 1 5/8"-12					1						
	23525150	ELBOW, 90 DEG 37 DEG 1 1/4" FLD TUBE					1						
	4.3045	CLIP, OIL FILTER LINE											
	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		3	2	3							
	11509511	BOLT, M8 X 1.25 X 20 MM			1								

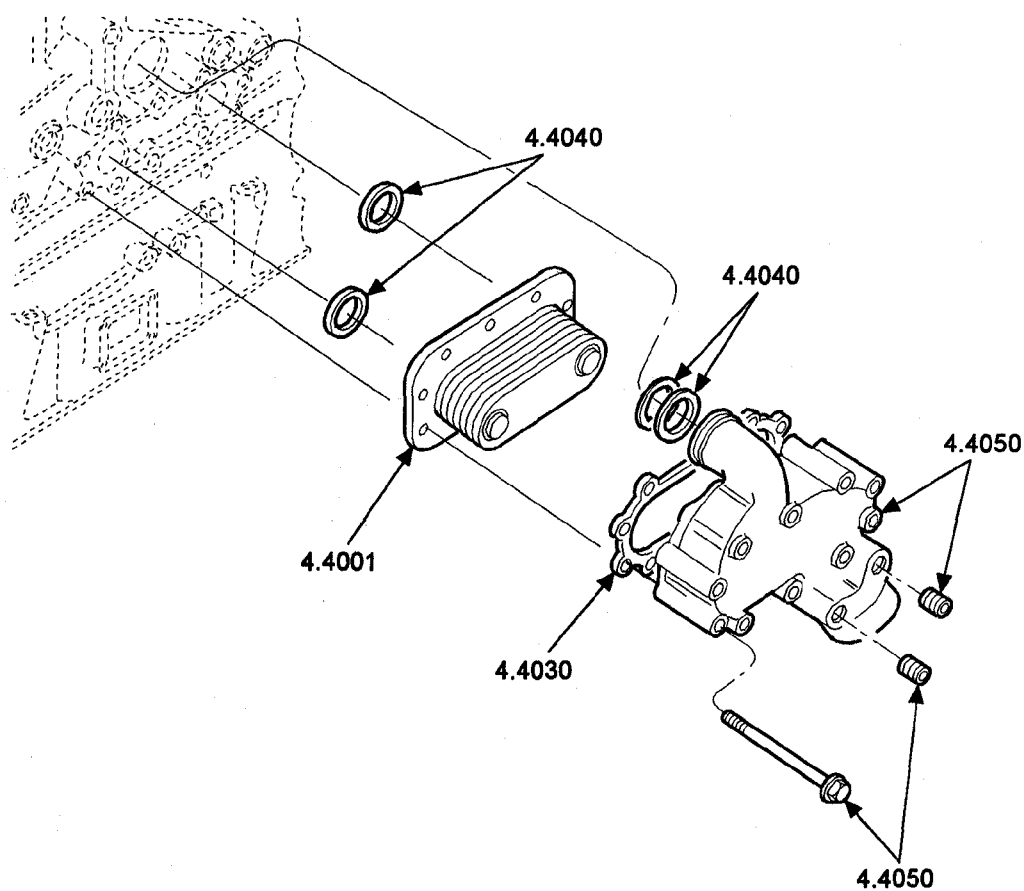
DETROIT DIESEL**SERIES 60 ENGINE**

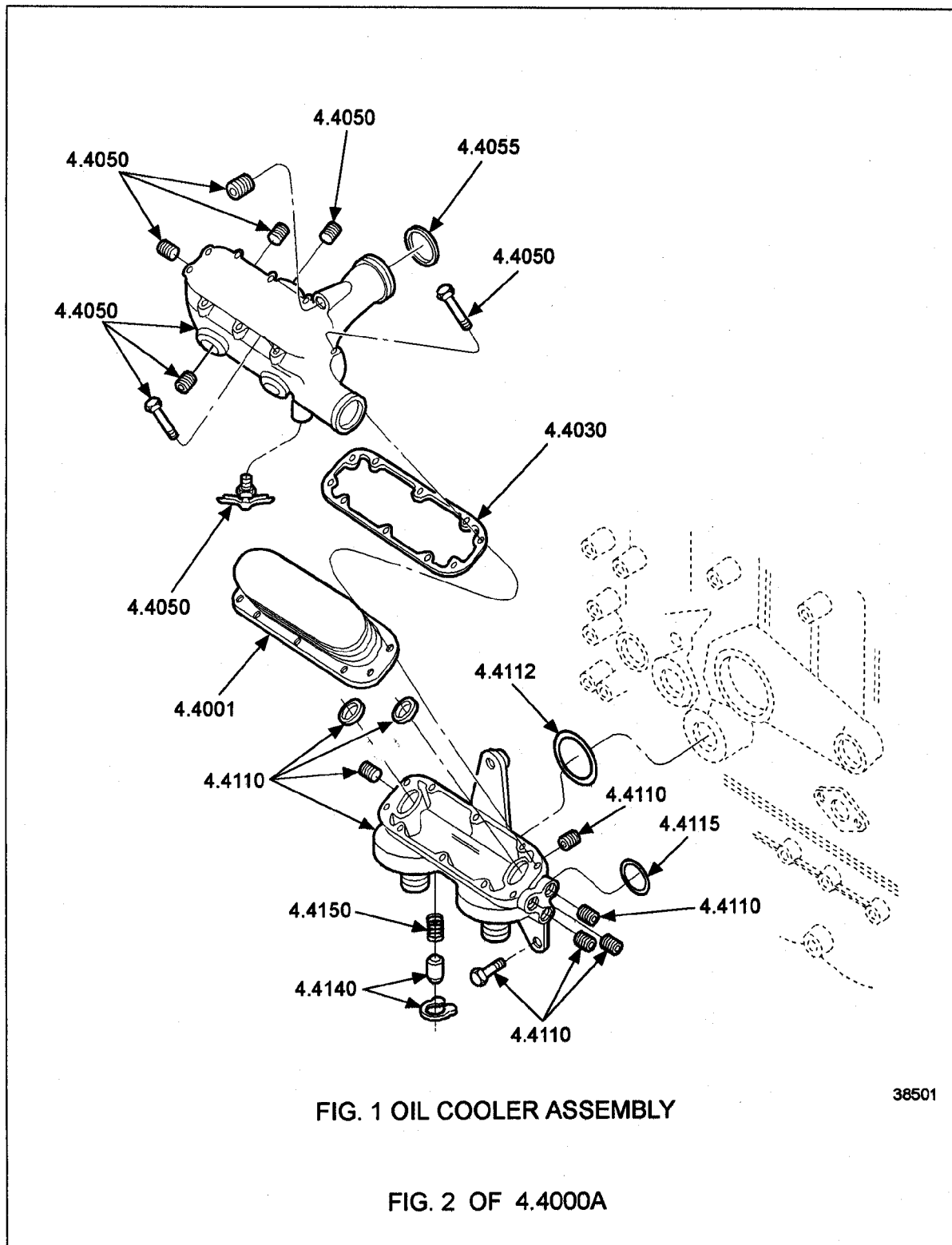
FIG. 1 OIL COOLER ASSEMBLY

38498

FIG. 1 OF 4.4000A

DETROIT DIESEL

SERIES 60 ENGINE



				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	2	2	2	2	2	2	2	2	2
				1	1	7	0	2	3	3	7	7	8	8	8
				2	3	1	3	1	5	6	4	6	0	1	2
4.4000A OIL COOLER															
FOR OPTIONS # 1451 & # 1463, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWINGS # 06G03 6041 AND # 07B05A 6002															
	4.4001	CORE, OIL COOLER ENGINE													
1	52454595	CORE ASSY. (6 PLATE) 11L				1									
2	52458196	CORE ASSY. (9 PLATE) 12 L.					1		1	1			1	1	
3	52458839	CORE ENG OIL CLR 7 PLT 11L S60						1	1			1			1
1	8547625	CORE ASSY. (4 PLATE) 11L		1											
1	8547626	CORE ASSY. (8 PLATE) 12L			1										
	4.4030	GASKET, OIL COOLER CORE-INNER													
1	8929348	GASKET		1	1	1									
2,3	23506247	GASKET, OIL COOLER HOUSING					1	1	1	1	1	1	1	1	1
	4.4040	GASKET, OIL COOLER CORE-OUTER													
1	8929280	SEAL, RING		2	2	2									
	4.4050	HOUSING, OIL COOLER-ENGINE													
2	23507126	HOUSING ASSY, OIL COOLER	B1				1	1			1			1	1
	23508968	HOUSING ASM OIL CLR CORE SPL F							1	1		1	1		
1	8929555	HOUSING		1	1	1									
2	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP					4	4			4	2	2	4	4
2	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP					1	1	1	1	1	1	1	1	1
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED													1
1	8923313	PLUG, 3/4" PIPE (12.9550)		2	2	2			2	2					
	8924378	BUSHING PIPE RED 3/4 X 1/4							1	1		1	1		
2	8924140	DRAINCOCK, 1/4" (12.9510)					1	1	1	1		1	1		1
	11504822	BOLT, M8 X 1.25 X 30							14	8		8	8		
	11509513	BOLT, M8 X 1.25 X 40 MM							1	1		1	1		
	11509514	BOLT, M8 X 1.25 X 50 MM							1	1		1	1		
1	11509517	BOLT, M8 X 1.25 X 80 MM		10	10	10									
2	23507182	BOLT, SPL M8 X 1.25 X 73.0					3	3			3			3	3
2	23507183	BOLT, SPL M8 X 1.23 X 93.0					7	7			7			7	7
	4.4053	HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR													
3	23508969	ADAPTOR OIL TRANSFER							1	1		1	1		
3	23508392	RING, SEAL							2	2		2	2		
	11504822	BOLT, M8 X 1.25 X 30							6	6		6	6		
	4.4055	GASKET, OIL COOLER HOUSING													
1,2,3	8929289	RING, SEAL		2	2	2	1	1	1	1	1	1	1		1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	2	2	2	2	2	2	2	2	2
				1	1	7	0	2	3	3	7	7	8	8	8
				2	3	1	3	1	5	6	4	6	0	1	2
		4.4000A OIL COOLER													
	4.4100	BRACKET, OIL COOLER HOUSING SUPPORT													
3	23508970	BRACKET OIL CLR HSG SUPT SPL F							1	1		1	1		
3	11503454	BOLT, M10 X 1.5 X 20.0							1	1		1	1		
3	11509511	BOLT, M8 X 1.25 X 20 MM							1	1		1	1		
	4.4110	ADAPTOR, OIL COOLER													
		AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150.													
2	23505900	* ADAPTOR ASSY., OIL FILTER/COOLER (4.2291)					1	1	1	1					
	23506715	ADAPTOR ASSY., OIL FILTER/COOLER WITH INSERTS	C1								1	1	1		1
2	23508392	RING, SEAL					2	2	2	2	2	2	2		2
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED										1	1		
2	8923313	PLUG, 3/4" PIPE (12.9550)					5	5	5	5	4	4	4		
2	23505062	BOLT, M10 X 1.5 X 40 (12.9001)					4	4	4	4	4	4	4		4
		* NOT SERVICED.SERVICE WITH 23506715 & 2-25014505													
	4.4112	GASKET, ADAPTOR TO OIL COOLER HOUSING													
2	23505902	RING, SEAL BYPASS FILTER					1	1	1	1	1	1	1		1
	4.4115	GASKET, OIL COOLER ADAPTOR TO BLOCK													
2	23508392	RING, SEAL					1	1	1	1	1	1	1		1
	4.4140	VALVE, OIL COOLER BYPASS													
2	5120082	VALVE, 5/8" DIA.					1	1	1	1					
	23514067	KIT, VALVE BYPASS REPLACEMENT (FOR 5/8" OR 3/4" DIA. VALVE) 1									1	1	1		1
2	274267	RING, RETAINER (2.7870)					1	1	1	1					
	4.4150	SPRING, OIL COOLER BYPASS VALVE													
2	23506684	SPRING (FOR 5/8" DIA. VALVE)					1	1	1	1					
	23512800	ADAPTOR ASM OIL CLR/FLTR 9 PLT S50/60	A1								NS				
	23513177	ADAPTOR ASM OIL CLR FLTR 7PLT 11L S60	A1												NS

				TYPES															
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.																
				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		4.4000A OIL COOLER		2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
				8	0	0	0	1	4	5	0	2	5	5	5	5	5	5	5
				4	5	7	9	5	0	2	3								
	4.4001	CORE, OIL COOLER ENGINE																	
	23522415	CORE ASSY.,ENG OIL CLR 11 PLT MODINE							1	1	1								
2	52458196	CORE ASSY. (9 PLATE) 12 L.		1		1		1											
	52474367	CORE ASM ENG OIL CLR 10 PLT S60			1		1												
	4.4030	GASKET, OIL COOLER CORE-INNER																	
2,3	23506247	GASKET, OIL COOLER HOUSING		1		1	1	1	1	1	1	1							
	4.4050	HOUSING, OIL COOLER-ENGINE																	
2	23507126	HOUSING ASSY, OIL COOLER	B1	1															
	23508968	HOUSING ASM OIL CLR CORE SPL F					1												
2	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP		4	1		1	1											
2	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP		1															
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED			1	1	1	1											
2	8924140	DRAINCOCK, 1/4" (12.9510)		1															
	11504822	BOLT, M8 X 1.25 X 30					8												
	11509513	BOLT, M8 X 1.25 X 40 MM					1												
	11509514	BOLT, M8 X 1.25 X 50 MM					1												
2	23507182	BOLT, SPL M8 X 1.25 X 73.0		3		3		3	3	3	3								
2	23507183	BOLT, SPL M8 X 1.23 X 93.0		7		7		7	7	7	7								
	23518638	HOUSING ASM OIL CLR 10 PLT 12L S60	B1		1	1		1	1	1	1								
	8922327	PLUG, 1/4" NPTF (12.9550)					1												
	4.4053	HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR																	
3	23508969	ADAPTOR OIL TRANSFER					1												
3	23508392	RING, SEAL			1		3	3											
	11504822	BOLT, M8 X 1.25 X 30					6												
	4.4055	GASKET, OIL COOLER HOUSING																	
1,2,3	8929289	RING, SEAL		1	1	1	1	1	1	1	1								
	4.4066	VALVE, OIL CONTROL (THERMATIC)																	
	23518362	THERMOSTAT OIL CONTROL VLV S60						1											

			TYPES												
			1	1	1	1	1	1	1	1	1				
			2	4	4	4	4	4	4	4	4				
			8	0	0	0	1	4	5	5					
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	5	7	9	5	0	2	3				
4.4000A OIL COOLER															
	4.4100	BRACKET, OIL COOLER HOUSING SUPPORT													
3	23508970	BRACKET OIL CLR HSG SUPT SPL F					1								
3	11503454	BOLT, M10 X 1.5 X 20.0					1								
3	11509511	BOLT, M8 X 1.25 X 20 MM					1								
4.4110															
		ADAPTOR, OIL COOLER													
		AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150.													
	23506715	ADAPTOR ASSY., OIL FILTER/COOLER WITH INSERTS	C1				1								
	23513765	ADAPTOR ASSY., OIL FILTER/COOLER	C1	1											
	23518418	ADAPTOR ASSY., OIL FILTER/CLR FOR OIL THERM	C1			1									
	23518491	ADAPTOR ASM CLR/FLTR FOR OIL THERM						1							
	23518640 #	ADAPTOR ASM OIL CLR/FLTR 10PLT 12LS60	C1		NS										
	23521364	ADAPTOR ASSY.,FLTR/CLR DIRECT OIL EXIT							1						
	23521365	ADAPTOR ASSY., OIL FILTER/COOLER DIRECT OIL EXIT	C1							1					
	23521673	ADAPTOR ASSY., OIL FILTER/CLR DIRECT OIL EXIT	C1								1				
	23518362	THERMOSTAT OIL CONTROL VLV S60				1									
	23524520	THERMOSTAT, OIL CONTROL VALVE								1	1				
2	23508392	RING, SEAL				2	2		2	2	2				
	23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED		1					1	1	1				
2	23505062	BOLT, M10 X 1.5 X 40 (12.9001)		4	4	4	4	4	4	4	4				
3	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP				1			1	1	1				
		# NOT SERVICED, USE COMPONENTS.													
4.4112															
		GASKET, ADAPTOR TO OIL COOLER HOUSING													
2	23505902	RING, SEAL BYPASS FILTER		1	1	1	1	1							
4.4115															
		GASKET, OIL COOLER ADAPTOR TO BLOCK													
	23505902	RING, SEAL BYPASS FILTER							1	1	1				
2	23508392	RING, SEAL		3		1			1	1	1				
4.4140															
		VALVE, OIL COOLER BYPASS													
	23514067	KIT, VALVE BYPASS REPLACEMENT (FOR 5/8" OR 3/4" DIA. VALVE)		1											
	23513774	ADAPTOR ASM OIL CLR/FLTR 9 PLT REM MT	A1	NS											

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C															
		4.4000A OIL COOLER																		
		(Note: Assemblies are shown for component reference only.)																		
	23512800	ADAPTOR ASM OIL CLR/FLTR 9 PLT S50/60	1																	
	23513177	ADAPTOR ASM OIL CLR FLTR 7PLT 11L S60		1																
	23513774	ADAPTOR ASM OIL CLR/FLTR 9 PLT REM MT			1															
	4.4001	CORE,OIL COOLER ENGINE																		
	52458196	CORE ASSY. (9 PLATE) 12 L.	1		1															
	52458839	CORE ENG OIL CLR 7 PLT 11L S60		1																
	4.4030	GASKET,OIL COOLER CORE INNER																		
	23506247	GASKET, OIL COOLER HOUSING	1	1	1															
	4.4050	HOUSING,OIL COOLER-ENGINE																		
	23518638	HOUSING ASM OIL CLR 10 PLT 12L S60	1	1	1															
	23507182	BOLT, SPL M8 X 1.25 X 73.0	3	3	3															
	23507183	BOLT, SPL M8 X 1.23 X 93.0	7	7	7															
	8922327	PLUG, 1/4" NPTF (12.9550)	1	1	1															
2	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4	4	4															
2	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1	1	1															
	4.4110	ADAPTOR,OIL COOLER																		
		AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150.																		
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1	1	1															
	23513765	ADAPTOR ASSY., OIL FILTER/COOLER			1															
	8923313	PLUG, 3/4" PIPE (12.9550)	3	3	3															
	23506715	ADAPTOR ASSY., OIL FILTER/COOLER WITH INSERTS	1	1																
	23508392	RING, SEAL	2	2	2															
	4.4140	VALVE, OIL COOLER BYPASS																		
	23513896	VALVE, OIL PRESSURE REG RELIEF	1	1	1															
	23513898	RING, VALVE RETAINING	14																	
	23514067	KIT, VALVE BYPASS REPLACEMENT	AR	AR	AR															
	4.4150	SPRING, OIL COOLER BYPASS VALVE																		
	23513897	SPRING, LUBE OIL FILTER VALVE	1	1	1															

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B										
		4.4000A OIL COOLER												
		(Note: Assemblies are shown for component reference only.)												
	4.4050	HOUSING, OIL COOLER-ENGINE												
2	23507126	HOUSING ASSY, OIL COOLER	1											
	23518638	HOUSING ASM OIL CLR 10 PLT 12L S60		1										
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4	4										
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1	1										
	8922327	PLUG, 1/4" NPTF (12.9550)	1	1										

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D	E	F										
		4.4000A OIL COOLER																
		(Note: Assemblies are shown for component reference only.)																
	4.4001	CORE,OIL COOLER ENGINE																
	52474367	CORE ASM ENG OIL CLR 10 PLT S60		1														
	4.4030	GASKET,OIL COOLER CORE INNER																
	23506247	GASKET, OIL COOLER HOUSING		1														
	4.4050	HOUSING,OIL COOLER-ENGINE																
	23507182	BOLT, SPL M8 X 1.25 X 73.0		3														
	23518638	HOUSING ASM OIL CLR 10 PLT 12L S60		1														
	23507183	BOLT, SPL M8 X 1.23 X 93.0		7														
	8922327	PLUG, 1/4" NPTF (12.9550)		1														
2	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP		4														
2	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP		1														
	4.4110	ADAPTOR, OIL COOLER																
		AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150.																
	23506715	ADAPTOR ASSY., OIL FILTER/COOLER WITH INSERTS	1															
	23513765	ADAPTOR ASSY., OIL FILTER/COOLER		1														
	23518640	ADAPTOR ASM OIL CLR/FLTR 10PLT 12LS60			1													
	23518418	ADAPTOR ASSY., OIL FILTER/CLR FOR OIL THERM				1												
	23521365	ADAPTOR ASSY., OIL FILTER/COOLER DIRECT OIL EXIT					1											
	23521673	ADAPTOR ASSY., OIL FILTER/CLR DIRECT OIL EXIT						1										
	23506722	INSERT, OIL FILTER ADAPTOR 1 5/8"-12					2											
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1	1		1	4	4										
	23518637	ADAPTOR ASM O/CLR 10 PLT PF2100 FLTRS			1													
	8923313	PLUG, 3/4" PIPE (12.9550)	3	3		3												
	23508392	RING, SEAL			2													
	4.4140	VALVE, OIL COOLER BYPASS																
	23513896	VALVE, OIL PRESSURE REG RELIEF	1	1		1	1	1										
	23513898	RING, VALVE RETAINING	1		1	1	1											
	23514067	KIT, VALVE BYPASS REPLACEMENT	AR	AR		AR	AR	AR										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B	C	D	E	F						
		4.4000A OIL COOLER												
		(Note: Assemblies are shown for component reference only.)												
	4.4150	SPRING, OIL COOLER BYPASS VALVE												
	23513897	SPRING, LUBE OIL FILTER VALVE	1	1		1	1	1						
	8923313	PLUG, 3/4" PIPE (12.9550)			4									

DETROIT DIESEL

SERIES 60 ENGINE

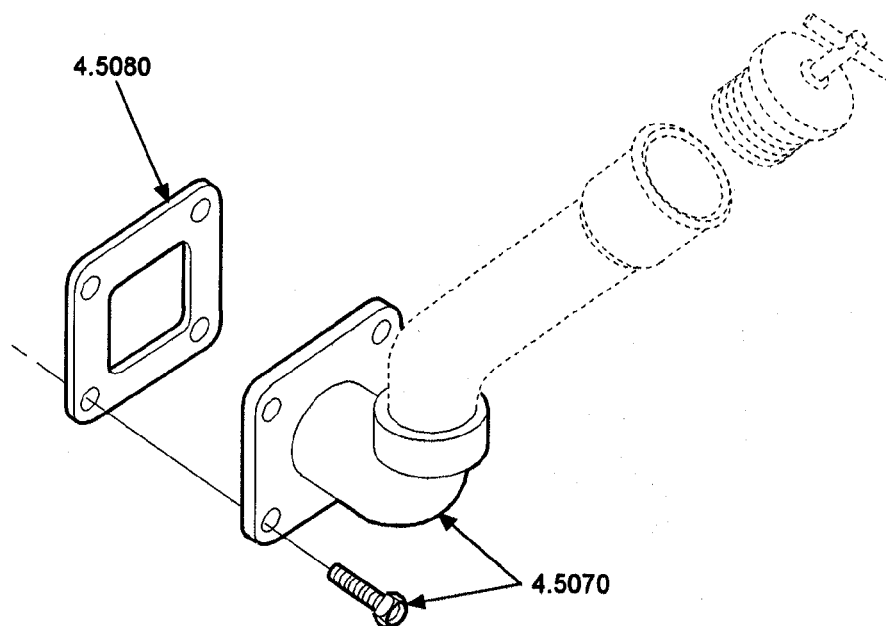


FIG. 1 OIL FILLER

21990

FIG. 1 OF 4.5000A

DETROIT DIESEL

SERIES 60 ENGINE

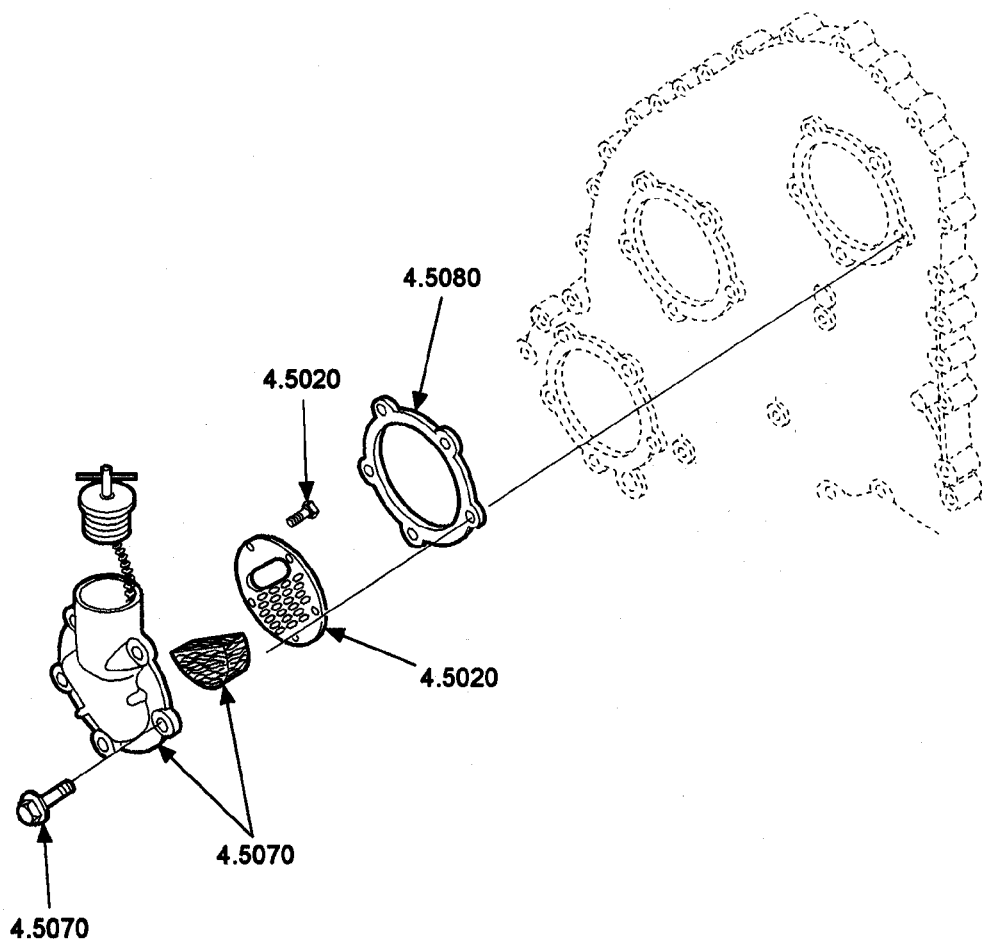


FIG. 2 OIL FILLER

24153

FIG. 2 OF 4.5000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	2	2
				6	7	7	7	8	8	8	8	9	9	0	0
				9	1	6	7	0	3	5	6	4	5	1	2
	4.5001	TUBE, OIL FILLER													
	NPN	(CUSTOMER FURNISHED)TUBE		1	1										
	23507456	TUBE, OIL FILLER (DEV. L. 744.0)				1									
	23509184	TUBE, DEV L. 655.4MM						1							
	23511245	TUBE OIL FILLER								1					
	23511762	TUBE, OIL FILLER									1				
	23514468	HOUSING ASM OIL FIL FRT CVR MT	A1										1		NS
	5199776	HOSE, 1 3/4" X 24"L. (5.3290) (CUT L. 2.76")								1					
	5120022	HOSE, 1 1/4" I.D.X27" L. (4.8010) (CUT L. 3.28")				1		1			1				
	5101023	CONNECTOR, 1 1/4" HOSE; 1" PIPE (3.5438)				1					1				
	5157412	SPACER, 7/8"X13/32"X1/4"						1			1				
	23505048	CLAMP, 2"-2 1/2" DIA. HOSE								2					
	23511256	BRACE								1					
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)				2		2			2				
	23501245	BRACKET CLIP									1				
	5144629	BRACKET, CLIP 90 DEG.								1					
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)				1		2			2				
	5173022	BRACKET, CLIP 90 DEG									1				
	672772	CLIP, 1.56" DIA. 1/2" BOLT (4.8180)								1					
	11503454	BOLT, M10 X 1.5 X 20.0						1	1	1					
	11504986	BOLT, M8 X 1.25 X 14 MM									1				
	11509511	BOLT, M8 X 1.25 X 20 MM									1				
	11509512	BOLT, M8 X 1.25 X 25 MM						1			1				
	11509525	BOLT, M10 X 1.5 X 110 MM				1									
	103321	LOCKWASHER, 3/8"								1					
	103341	WASHER, 3/8"								1					
	11506101	NUT, M10 X 1.5				1									
	11507036	NUT, M8 X 1.25						1			2				
	120393	WASHER, 5/16"						1							
	186622	BOLT, 3/8"-16 X 1.25"								1					
	5176400	BRACKET, CLIP (4.8010)						1							
		INCLUDES ITEMS IN 4.5010,4.5020 & 4.5030													
	4.5007	GASKET, OIL FILLER TUBE ADAPTOR													
	8929302	GASKET, 4 HOLE (4.5007)							1	1					
	4.5010	CAP, OIL FILLER													
	NPN	(CUSTOMER FURNISHED)CAP		1	1										
	23502458	CAP, OIL FILLER T HANDLE 1.66" DIA.				1		1		1					
	5117362	CAP, OIL FILLER				1						1	1		
	23514362	LABEL-OIL FILL CAP S50/60										1			

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	2	2
				6	7	7	7	8	8	8	8	9	9	0	0
		4.5000A OIL FILLER		9	1	6	7	0	3	5	6	4	5	1	2
	4.5020	STRAINER, OIL FILLER TUBE													
2	23509074	BAFFLE ASSY.				1									
	23513642	SCREEN										1	1		
	11503804	SCREW ASSY.										3	3		
2	23504751	SCREW #10-24 X .50" (4.8055)				3									
	4.5030	CHAIN, OIL FILLER CAP													
	5121989	CHAIN SASH 6.50 LG				1						1	1		
	5107979	HOOK, CHAIN ("S" TYPE) (4.5020)				2						2	2		
	4.5070	COVER, OIL FILLER HOLE													
	23507264	COVER						1							
	23511258	COVER								1					
	23514711	COVER OIL FIL S60									1			1	
	23514745	COVER & TUBE ASM.OIL FILL						1							
1	8929773	COVER			1		1								
2	23505952	HOUSING				1									
	23513641	HOUSING										1			
	23516970	PLATE OIL FILL CVR DCST AL S50/60		1		1						1	1		1
2	23504890	ELEMENT 4" RKR CVR BTHR STL WIRE				1									
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP			1			1						1	
	11504822	BOLT, M8 X 1.25 X 30										4			
1	11509511	BOLT, M8 X 1.25 X 20 MM		4	4	4	4	4	4	4	4	4	4	4	4
	11509518	BOLT, M8 X 1.25 X 90 MM										1			
	4.5080	GASKET, OIL FILLER HOLE COVER													
1	8929302	GASKET, 4 HOLE (4.5007)		1	1	1	1	1		1	1	1	1	1	1
	23512877	GASKET, COVER (1.3192)										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 0 4	2 0 5	2 0 8	2 1 2	2 1 4	2 1 7	2 1 8	2 2 9	2 2 2	2 2 5	2 2 8	2 3 0
	4.5000A OIL FILLER														
	4.5001	TUBE, OIL FILLER													
	23513018	COVER & TUBE ASSY.						1							
	23515408	TUBE ASM 312.0 LG SPL FLX/PITT S50													1
	23517440	FILLER ASM OIL AL FRT CVR MT S50/60	A1		1										
	23517965	TUBE-ASM OIL FILLER COATED S60							1	1					
	23519326	TUBE OIL FIL 292.1 LG SPL										1			
	23519345	TUBE ASM OIL FIL W/CAP&CHAIN S60	A1					1							
	23520632	ELBOW													1
	5157412	SPACER, 7/8"X13/32"X1/4"										1			
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)						2				2			
	11503454	BOLT, M10 X 1.5 X 20.0						1				1			
	11509511	BOLT, M8 X 1.25 X 20 MM			4										
	11509512	BOLT, M8 X 1.25 X 25 MM						2				1			
	11507036	NUT, M8 X 1.25						2				1			
	120393	WASHER, 5/16"						2				1			
	23517308	HOUSING ASM OIL FIL FRT CVR MT S50/60				NS									
	23517440	FILLER ASM OIL AL FRT CVR MT S50/60	A1			1									
	3290750	HOSE, 1.25"X3.26"L.(5120022)						1				1			1
	5104105	SEAL, FILLER TUBE		1					1	1					
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)						2				2			2
	5106065	TUBE		1											
	5125920	BRACKET (4.12" L.)						1							
	5176400	BRACKET, CLIP (4.8010)						1				1			
	4.5004	BRACKET OIL FILLER TUBE CLAMP													
	23520631	BRACKET OIL FILLER TUBE													1
	11503454	BOLT, M10 X 1.5 X 20.0													1
	11509511	BOLT, M8 X 1.25 X 20 MM													1
	5183472	CLIP, 1 1/4" TUBE (9.1720)													1
	11507036	NUT, M8 X 1.25													1
	4.5007	GASKET, OIL FILLER TUBE ADAPTOR													
	8929302	GASKET, 4 HOLE (4.5007)			1	1						1		1	
	4.5010	CAP, OIL FILLER													
	23502458	CAP, OIL FILLER T HANDLE 1.66" DIA.											1		
	5117362	CAP, OIL FILLER													1
	23517854	LABEL-CAUTION OIL FILL CAP S50G										1			1
	23520625	LABEL, OIL SNAP CAP			1										
	23514362	LABEL-OIL FILL CAP S50/60						1				1		1	
	23517090	CAP LUB OIL FIL T HANDLE 1.41 DIA								2	2				
	5107106	CAP, 1.50" DIA. (BOTTLE TYPE)		1											

All information subject to change without notice.
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				TYPES														
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.															
				2	2	2	2	2	2									
				3	3	3	4	4	6									
4.5000A OIL FILLER				2	4	5	7	9	7									
	4.5001	TUBE, OIL FILLER																
	23513018	COVER & TUBE ASSY.						1										
	23515408	TUBE ASM 312.0 LG SPL FLX/PITT S50				1												
	23521458	COVER & TUBE ASSY., OIL FILLER								1								
	23522568	FILLER ASSY.	A1		1													
	23523134	FILLER ASSY.,OIL AL SNAP CAP FRT CVR					1											
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)				1												
	11509511	BOLT, M8 X 1.25 X 20 MM				5		4	4									
	11507036	NUT, M8 X 1.25				1												
	3290750	HOSE, 1.25"X3.26"L.(5120022)				1												
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)				2												
	4.5004	BRACKET OIL FILLER TUBE CLAMP																
	23520631	BRACKET OIL FILLER TUBE				1												
	11503454	BOLT, M10 X 1.5 X 20.0				1												
	4.5007	GASKET, OIL FILLER TUBE ADAPTOR																
	8929302	GASKET, 4 HOLE (4.5007)				1		1	1									
	4.5010	CAP, OIL FILLER																
	23522613	CAP, OIL FILLER						1										
	23521656	LABEL OIL FILL SNAP CAP				1												
	23524653	LABEL, OIL SNAP CAP API SERVICE CH-4 SAE						1										
	23514362	LABEL-OIL FILL CAP S50/60			1													
	4.5020	STRAINER, OIL FILLER TUBE																
	23513642	SCREEN						1										
	11503804	SCREW ASSY.						3										
	4.5070	COVER, OIL FILLER HOLE																
	23516970	PLATE OIL FILL CVR DCST AL S50/60			1	1	1											
	23520632	ELBOW				1												
1	11509511	BOLT, M8 X 1.25 X 20 MM			4		4											
	4.5080	GASKET, OIL FILLER HOLE COVER																
1	8929302	GASKET, 4 HOLE (4.5007)			1		1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				2	2	2	2	2	2				
				3	3	3	4	4	6				
				2	4	5	7	9	7				
	4.5090	KIT, OIL FILL/DRAIN											
	23517638	KIT OIL EXTRACTION SYSTEM FILL S60	1										
	23517851	TUBE ASSY., FIXED OIL PICKUP	1										

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D														
		4.5000A OIL FILLER																		
		(Note: Assemblies are shown for component reference only.)																		
	4.5001	TUBE, OIL FILLER																		
	23514468	HOUSING ASM OIL FIL FRT CVR MT	1																	
	23517440	FILLER ASM OIL AL FRT CVR MT S50/60		1																
	23519345	TUBE ASM OIL FIL W/CAP&CHAIN S60			1															
	23522568	FILLER ASSY.								1										
	23522630	FILLER ASSY., OIL W/TUBE FRT CVR								1										
	4.5010	CAP, OIL FILLER																		
	23519336	CAP, LUBE OIL FILL T-HANDLE 1.66 DIA.			1															
	5117362	CAP, OIL FILLER	1																	
	23502458	CAP, OIL FILLER T HANDLE 1.66" DIA.								1										
	4.5020	STRAINER, OIL FILLER TUBE																		
	23513642	SCREEN	1	1						1										
	11503804	SCREW ASSY.	3	3						3										
	4.5030	CHAIN, OIL FILLER CAP																		
	5121989	CHAIN SASH 6.50 LG	1							1										
	5107979	HOOK, CHAIN ("S" TYPE) (4.5020)	2		1					2										
	5114188	CHAIN SASH, #8 (1 FT.)			1															
	4.5070	COVER, OIL FILLER HOLE																		
	23514467	HOUSING OIL FILL FRT CVR MT S50/60	1																	

DETROIT DIESEL

SERIES 60 ENGINE

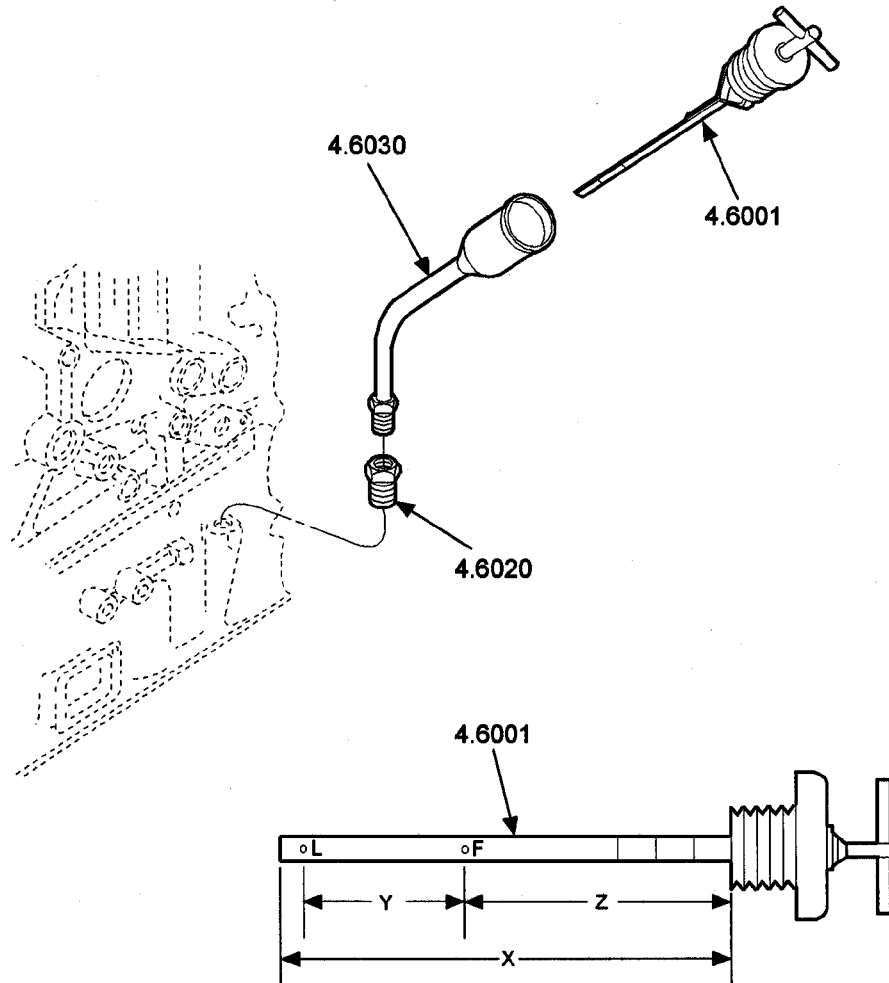


FIG. 1 DIPSTICK (TURNTITE)

24058

FIG. 1 OF 4.6000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	2	2	2	2	2	2	2	2
				6	6	7	7	1	1	2	2	2	3	3	3
				1	4	5	6	0	1	0	4	6	0	5	7
4.6000A DIPSTICK															
	4.6001	DIPSTICK													
		NPN													
		(CUSTOMER FURNISHED)DIPSTICK		1			1								
1	23505113	DIPSTICK, TURNTITE (X-31.62", Y-1.62", Z-28.75")						1							
1	23505407	DIPSTICK, TURNTITE (X-21.07", Y-1.50", Z-18.61")							1						
1	23505453	DIPSTICK, TURNTITE (X-19.25", Y-.80", Z-17.51")											1		
1	23506487	B DIPSTICK, TURNTITE (X-31.49", Y-1.03", Z-29.71")								1				1	
1	23507479	& DIPSTICK, TURNTITE (X-32.00", Y-.94", Z-29.75")										1			
1	23509484	+ DIPSTICK, TURNTITE (X-21.07", Y-1.16", Z-18.95")									1				
1	8929806	DIPSTICK, TURNTITE (X-22.25", Y-1.35", Z-19.81")					1								
1	8929828	DIPSTICK, TURNTITE (X-20.25", Y-1.03", Z-18.53")			1										
		& NOT SERVICED, FOR SERVICE USE 23514705 DIPSTICK, 23514704 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
		+ NOT SERVICED, FOR SERVICE USE 23514327 DIPSTICK, 23514328 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
		B NOT SERVICED, FOR SERVICE USE 23515136 DIPSTICK, 23515135 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
	4.6010	GASKET, DIPSTICK													
	23514465	SEAL RING .070 X .364 ID										1			
	4.6020	GUIDE, DIPSTICK													
1	8929165	GUIDE (6.50" L)		1											
	23513683	GUIDE						1	1		1	1	1	1	1
1	5121062	GUIDE (1 1/8" L.- YELLOW)			1	1	1								
1	23506489	ADAPTOR, OIL TUBE								1					
	5106899	PLUG, 3/4"-16													1
	23513842	SEAL OIL LVL GA ADAP			1		1	1	1		1	1	1	1	1

			TYPES											
4.6000A DIPSTICK				1	1	1	1	1	1	1	1	1	1	1
				1	1	1	1	2	2	2	2	2	2	2
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	6	7	7	1	1	2	2	2	3	3
				1	4	5	6	0	1	0	4	6	0	5
	4.6030	ADAPTOR, DIPSTICK												
1	8929570	* ADAPTOR, TURNITILE 8.73"L.			1	1			1				1	
1	23505615	* ADAPTOR ASSY, OIL LVL TRNITE 15.76" L S60						1						
	23506489	ADAPTOR, OIL TUBE												1
1	23507455	*& ADAPTOR ASSY, OIL LEVEL TURNITILE 18.10 LG.										1		1
	23506486	* TUBE ASSY, OIL LEVEL TURNITILE								1				1
1	23506488	+* TUBE ASSY, OIL LEVEL TURNITILE									1			
	137401	NUT, 1/2" INV. TUBE			1	1		1	1	1	1	1	1	1
		*INCLUDE NUT IN 4.6030												
		+ NOT SERVICED, FOR SERVICE USE 23514327 DIPSTICK, 23514328 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.												
		B NOT SERVICED, FOR SERVICE USE 23515136 DIPSTICK, 23515135 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.												
	4.6040	CLIP, DIPSTICK												
	5109020	CLIP, 1/2" TUBE						1						
	5153473	CLIP, 1/2" TUBE, 3/8 BOLT			1	1			1				1	1
	2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)										1		
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)										1		
	5137329	BRACKET CLIP 90 DEG. (7.1005)						1						
	5145872	BRACKET CLIP, 90 DEG.											1	1
	5166565	BRACKET (9.1591)			1					1				
	5177331	BRACKET (4.8042)				1			1				1	
	106261	WASHER, 5/16"X3/4"										1		1
	11509511	BOLT, M8 X 1.25 X 20 MM			1	1		1	1	1		1	1	1
	11507036	NUT, M8 X 1.25			1	1		1	1	1		1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	4	4	4	4	5	5	5	6	6	9
				8	9	0	1	2	4	0	1	9	3	6	8
	4.6001	DIPSTICK													
		NPN													
		(CUSTOMER FURNISHED)DIPSTICK							1						
1	23505407	# DIPSTICK, TURNTITE (X-21.07", Y-1.50", Z-18.61")								1					
1	23508362	DIPSTICK, TURNTITE (X-36.49", Y-1.03", Z-34.71")				1									
1	23511152	DIPSTICK, TURNTITE (X-35.70",Y-1.10",Z-33.52")											1		
1	23511254	DIPSTICK, TURNTITE										1			
1	23511616	\$ DIPSTICK, TURNTITE (X-50.00",Y-.63",Z-48.88")												1	
	23514839	DIPSTICK	1												
	23515357	DIPSTICK SNAPLOCK 49.23LG													1
		\$ NOT SERVICED, FOR SERVICE USE 23514737 DIPSTICK, 23514736 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
		# NOT SERVICED, FOR SERVICE USE 23515368 DIPSTICK, 23514328 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
	4.6020	GUIDE, DIPSTICK													
	23513683	GUIDE		1	1	1	1	1	1	1	1	1	1	1	1
	5106899	PLUG, 3/4"-16			1		1	1	1		1				
	23513842	SEAL OIL LVL GA ADAP		1	1	1	1		1	1	1	1	1	1	1
	4.6030	ADAPTOR, DIPSTICK													
	23514840	TUBE ASSY	1												
	23506489	ADAPTOR, OIL TUBE							1						
1	23506488	#* TUBE ASSY, OIL LEVEL TURNITTE								1					
1	23508359	* TUBE ASSY, OIL LEVEL TURNITTE				1							1		
	23511255	TUBE ASSY, OIL LEVEL TURNITTE										1			
	23508360	TUBE, OIL GAUGE ADAPTOR			1			1							
	23508361	TUBE, OIL GAUGE ADAPTOR									1				
	23509069	TUBE, OIL GAUGE ADAPTOR					1								
	23515358	TUBE OIL LVL GAUGE													1
	137401	NUT, 1/2" INV. TUBE		1		1							1		
		*INCLUDE NUT IN 4.6030													
		\$ NOT SERVICED, FOR SERVICE USE 23514737 DIPSTICK, 23514736 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
		% NOT SERVICED, FOR SERVICE USE 23515357 DIPSTICK, 23515358 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													
		# NOT SERVICED, FOR SERVICE USE 23515368 DIPSTICK, 23514328 TUBE ASSY., 23513842 COPPER SEAL AND 23513683 ADAPTOR.													

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	4	4	4	4	5	5	5	6	6	9
				8	9	0	1	2	4	0	1	9	3	6	8
	4.6040	CLIP, DIPSTICK													
	5168001	CLIP, 1/2" TUBE .318" BOLT (12.4095)								1					
	3224160	CLIP, 1/2" TUBE, 3/8" SLOT						1							
	5153473	CLIP, 1/2" TUBE, 3/8 BOLT		1	1	1	1	1					1		
	8928767	BRACKET (5.2195)													1
	2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)										1		1	1
	5114210	SUPPORT, CLIP (4.8042)					1								
	23503213	BRACKET, CLIP 90 DEG.3.29 X 2.09						1							
	23507912	BRACKET, OIL GAUGE TUBE	1												
	5137329	BRACKET CLIP 90 DEG. (7.1005)												1	
	5145872	BRACKET CLIP, 90 DEG.							1						
	23501245	BRACKET CLIP			1	1							1		
	5132232	BRACKET, CLIP (5.2190)								1					
	106261	WASHER, 5/16"X3/4"							1						
	11503454	BOLT, M10 X 1.5 X 20.0									1				1
	11509511	BOLT, M8 X 1.25 X 20 MM	1	1	1	1	1	1	1	1	1	1	1	1	1
	11507036	NUT, M8 X 1.25	1	1	1	1	1	1	1	1	1	1	1	1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	3	3	3	3	3	3
				0	1	3	4	4	5	7	7	8	8	8	9
				2	0	0	4	8	0	1	5	0	8	9	1
	4.6001	DIPSTICK													
	23514640	DIPSTICK,TURNITITE 34.66 LG			1										
	23515148	GAUGE ASM OIL LVL SNAPLOC 24.13LG S60					1								
	23515171	GAUGE ASM OIL LVL SNAPLOC 25.80LG S60		1											
	23515172	DIPSTICK SNAPLK 30.92 LG				1									
	23515704	GAUGE ASM OIL LVL SNAPLOC 51.38LG S60						1							
	23516139	GAUGE ASM OIL LVL SNAPLOC 20.13LG S60								1					
	23516140	GAUGE ASM OIL LVL SNAPLOC 31.25LG S60													1
	23517052	GAUGE ASM OIL LVL SNAPLOC 50.21LG S60									1				
	23517067	GAUGE ASM OIL LVL SNAPLK 23.06LG S60										1			
	23517836	GAUGE ASM OIL LVL SNAP LK 16.33LG S60											1		
	23518100	GAUGE ASM OIL LVL SNPLK 26.25LG S60												1	
	4.6020	GUIDE, DIPSTICK													
	23513683	GUIDE		1	1	1	1	1	1	1	1	1	1	1	1
	5106899	PLUG, 3/4"-16						1							
	23513842	SEAL OIL LVL GA ADAP		1	2	1	1	1	1	1	1			1	
	23514436	TUBE OIL GAGE ADAP RRSUMP 380.4LG S60						1							
	4.6030	ADAPTOR, DIPSTICK													
	23515170	TUBE ASSY, OIL LEVEL SNAPLOC 13.32"L		1											
	23514328	TUBE ASM 8.70 LG	A1							1		1	1		
	23514641	TUBE ASM OIL LVL TURNITITE			1										
	23514704	TUBE ASM.OIL LVL SNAPLK 19.76 LG	A1			1								1	1
	23515705	TUBE ASM OIL LVL SNAPLOC 45.2LG S60	A1						1						
	23515135	TUBE OIL LVL SNAPLOC 500.4 LG (PA)					1								
	137401	NUT, 1/2" INV. TUBE				1									
	23514736	TUBE OIL LVL GAUGE SNP LK 45.20LG	A1					1		1					
	23513842	SEAL OIL LVL GA ADAP											1		1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		4.6000A DIPSTICK		3	3	3	3	3	3	3	3	3	3	3	3
				0	1	3	4	4	5	7	7	8	8	8	9
				2	0	0	4	8	0	1	5	0	8	9	1
	4.6040	CLIP, DIPSTICK													
	5168001	CLIP, 1/2" TUBE .318" BOLT (12.4095)			1									1	
	5153473	CLIP, 1/2" TUBE, 3/8 BOLT					1	1							
	2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)		1		1			1		1				1
	5137329	BRACKET CLIP 90 DEG. (7.1005)							1		1			1	
	5145872	BRACKET CLIP, 90 DEG.					1	1							
	5175606	BRACKET (4.1540)			1										
	5176400	BRACKET, CLIP (4.8010)		1											
	5177331	BRACKET (4.8042)				1									1
	106261	WASHER, 5/16"X3/4"				1	1	1							
	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	1	1	1	1		1			1	1
	11507036	NUT, M8 X 1.25		1	1	1	1	1	1		1			1	1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		4.6000A DIPSTICK		3	3	3	4	4	4	4	4	4	4	4	4
				9	9	9	0	0	2	3	3	3	3	4	4
				3	4	7	0	5	8	0	1	4	8	8	9
4.6001		DIPSTICK													
	NPN	(CUSTOMER FURNISHED)DIPSTICK									1				
	23515136	GAUGE ASSY., OIL LVL SNAPLOC 30.46 LG								1					
	23515171	GAUGE ASM OIL LVL SNAPLOC 25.80LG S60				1									
	23515172	DIPSTICK SNAPLK 30.92 LG					1								
	23517052	GAUGE ASM OIL LVL SNAPLOC 50.21LG S60											1		
	23518348	GAUGE ASM OIL LVL SNPLK 21.94 LG S60	1												
	23521379	GAUGE ASSY.,OIL LVL SNAPLOC 54.00 LG							1						
	23521932	DIPSTICK, SNAPLOCK (X-31.76", Y-1.26", Z-29.25")												1	
	23521933	GAUGE ASSY., OIL LVL SNAPLOC 28.11 LG													1
4.6020		GUIDE, DIPSTICK													
	23513683	GUIDE		1	1	1	1	1	1	1	1	1	1	1	1
	5106899	PLUG, 3/4"-16										1			
	23513842	SEAL OIL LVL GA ADAP		1	1	1	1	1	1	1	1	1	1		1
	23520954	TUBE OIL GAGE ASSY ADAP RRSUMP 608 LG S60										1			
	5136240	PLUG CAP .42" DIA. (2.2001)						1							
4.6030		ADAPTOR, DIPSTICK													
	23518171	TUBE OIL LVL SNPLK 592.3 LG (PA)			1										
	23518291	TUBE ASM OIL LVL SNAP LOC 14.18LG S60				1									
	23514328	TUBE ASM 8.70 LG	A1	1											
	23521376	TUBE OIL LVL SNAPLOC 1138.6 LG						1							
	23522075	TUBE ASSY., OIL LVL SNAP LK												1	1
	23515135	TUBE OIL LVL SNAPLOC 500.4 LG (PA)								1					
	23514736	TUBE OIL LVL GAUGE SNP LK 45.20LG	A1										1		
	23513842	SEAL OIL LVL GA ADAP												1	
	23519160	TUBE ASM OIL LVL GA SNAP LK 19.76 LG					1								
	23519510	TUBE OIL GA ADAP 640LG RR SUMP S60						1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		4.6000A DIPSTICK		3	3	3	4	4	4	4	4	4	4	4	4
				9	9	9	0	0	2	3	3	3	3	4	4
				3	4	7	0	5	8	0	1	4	8	8	9
	4.6040	CLIP, DIPSTICK													
	5168001	CLIP, 1/2" TUBE .318" BOLT (12.4095)						1							
	8923210	BRACKET, 90 DEG. (7/16" SLOT, 3/8" BOLT HOLE)											1		
	3224160	CLIP, 1/2" TUBE, 3/8" SLOT								1					
	5153473	CLIP, 1/2" TUBE, 3/8 BOLT												1	1
	8928767	BRACKET (5.2195)						1							
	2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)			1	1	1	1				1			
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)					1								
	5145872	BRACKET CLIP, 90 DEG.							1						
	23522073	BRACKET, CLIP 90 DEG.												1	1
	5127861	BRACKET (7.1587)												1	1
	5177331	BRACKET (4.8042)				1									
	106261	WASHER, 5/16"X3/4"			1					1					
	11503454	BOLT, M10 X 1.5 X 20.0												1	1
	11509511	BOLT, M8 X 1.25 X 20 MM			1	1		1	1	1		1	1	2	2
	11507036	NUT, M8 X 1.25			1	1		1	1	1		1	1	2	2
	11509512	BOLT, M8 X 1.25 X 25 MM					1								
	11509523	BOLT, M10 X 1.5 X 55 MM						1							
	120393	WASHER, 5/16"					1								
	23518172	GAUGE ASM OIL LVL SNAPLK 34.08LG (PA)			1										
	5126504	BRACKET, SUPPORT (4.1512)			1										
	5144629	BRACKET, CLIP 90 DEG.						1							
	5157412	SPACER, 7/8"X13/32"X1/4"						1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1									
		4.6000A DIPSTICK		4	4	4									
				6	8	8									
				4	0	1									
	REFER TO ENGINEERING DRAWING # 06G04 6062														
	4.6001	DIPSTICK													
	23523494	GAUGE ASSY., OIL 18.175-.75-18.875L		1											
	23525017	DIPSTICK. OIL			1	1									
	4.6020	GUIDE, DIPSTICK													
	23513683	GUIDE		1											
	23525019	GUIDE, OIL LEVEL GAUGE			1	1									
	23522976	ADAPTOR, OIL FILL TUBE			1	1									
	23513842	SEAL OIL LVL GA ADAP		1											
	3290750	HOSE, 1.25"X3.26"L.(5120022)			1	1									
	5109157	PLUG, 1-1/4" CUP (5.5001)			1	1									
	23516779	CLAMP, 15MM X 37.2MM			2	2									
	4.6030	ADAPTOR, DIPSTICK													
	23514328	TUBE ASM 8.70 LG	A1	1											
	23525018	TUBE, OIL FILL/GAUGE LH			1										
	23525071	TUBE, OIL FILL/GAUGE RH				1									
	4.6040	CLIP, DIPSTICK													
	23515353	BRACKET CLIP 90DEG			1										
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)			1	1									
	23520680	BRACKET, CAC INLET TUBE SUPPORT				1									
	11503454	BOLT, M10 X 1.5 X 20.0			1	1									
	11504986	BOLT, M8 X 1.25 X 14 MM				1									
	11507036	NUT, M8 X 1.25				1									
	11506101	NUT, M10 X 1.5			1										
	4.6060	PLATE, DIPSTICK ADAPTOR													
	23516970	PLATE OIL FILL CVR DCST AL S50/60			1	1									
	11509511	BOLT, M8 X 1.25 X 20 MM			4	4									
	4.6061	GASKET, DIPSTICK ADAPTOR PLATE													
	8929302	GASKET, 4 HOLE (4.5007)			1	1									

			ASSEMBLIES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B	C	D								
		4.6000A DIPSTICK												
		(Note: Assemblies are shown for component reference only.)												
	4.6030	ADAPTOR, DIPSTICK												
	23514704	TUBE ASM.OIL LVL SNAPLK 19.76 LG	1											
	23515705	TUBE ASM OIL LVL SNAPLOC 45.2LG S60		1										
	23514736	TUBE OIL LVL GAUGE SNP LK 45.20LG			1									
	23514328	TUBE ASM 8.70 LG				1								
	137401	NUT, 1/2" INV. TUBE	1	1	1	1								

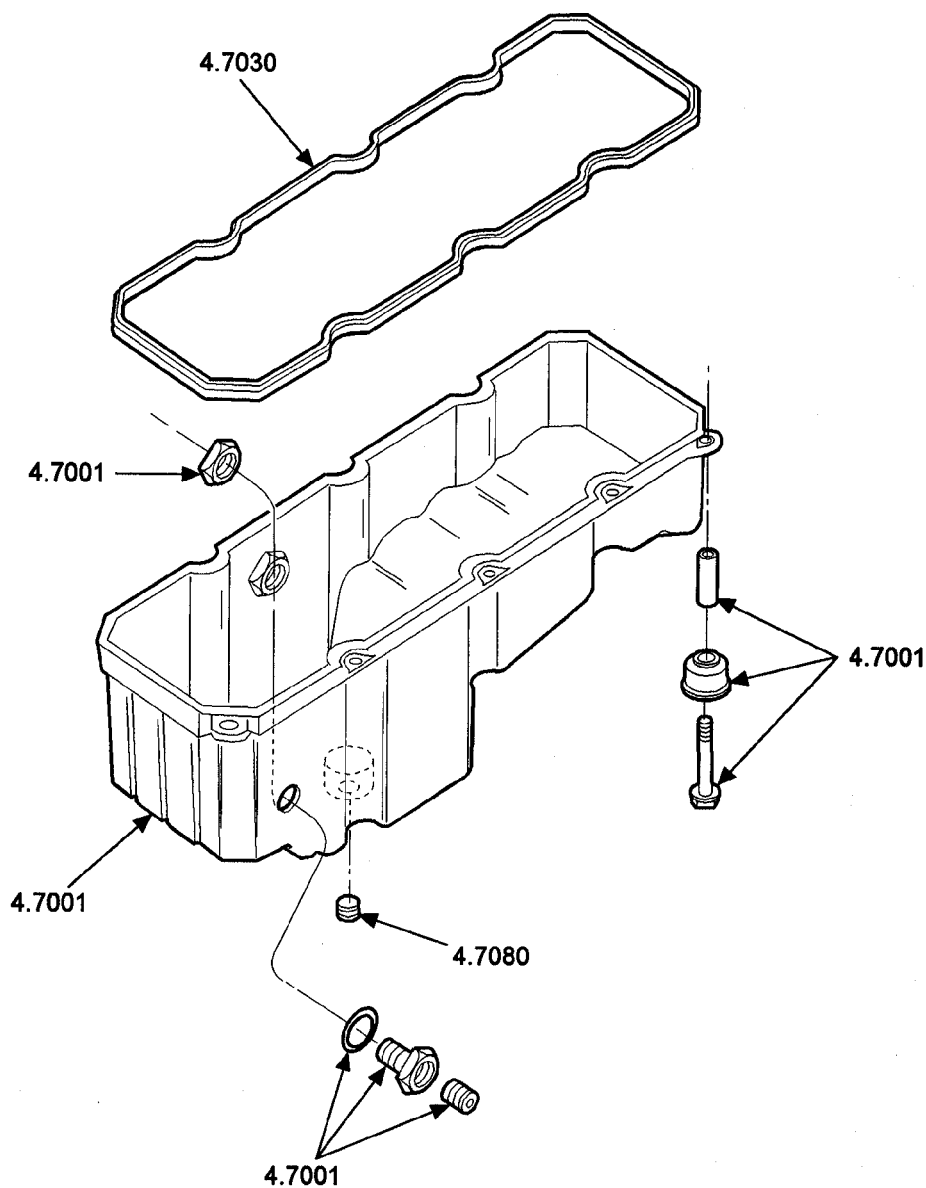
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 OIL PAN ASSEMBLY

FIG. 1 OF 4.7000A

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FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7	8	8	8	8	8	8	8	8	8	8	8
				7	0	0	1	1	2	3	5	5	6	6	8
				4	4	5	2	6	6	0	4	5	2	6	4
	4.7001	PAN, OIL													
		OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001													
1	8929434	PAN, POLYESTER (4-3/4" DRAIN, 1-1/2" DRAIN)		1											
1	23502889 #	PAN ASSY., ALUMINUM (4-3/4" DRAINS)			1										
1	23504160	PAN ASSY., OIL FRT SUMP (SBFA) SMC S60	A1						NS						
1	23521170	PAN ASSY., OIL FRONT SUMP (SBFA) SMC	A1						1						
1	23509455	PAN ASSY., OIL FRT SUMP (ACOUSTICAL)	A1										NS		
1	23521169	PAN ASM OIL FRT SUMP (ACOUSTICAL) S60											1		
1	23511692	PAN ASSY., OIL FRT SUMP LOW PROFILE ALUMINUM	A1							1	1				
1	23511919	PAN ASSY., OIL FRT SUMP VINYL	A1									NS			
1	23521171	PAN ASSY., OIL FRT SUMP SMC (SBFA) 5DRNS										1			
	23512835	PAN ASSY., RR SUMP ALUM SHALLOW												1	
	23514927	PAN ASM OIL AL FRT SUMP SHALLOW S60	A1												1
1	23521173	PAN ASSY., OIL SMC VINYL ESTER	A1				1								
1	8929583	PAN OIL 30 DEG ALUM W/OIL FIL PLT S60					1								
1	8929799	PAN ASSY., OIL SMC VINYL ESTER	A1					1							
	23505027	SPACER, OIL PAN 47.4-47.7 LG S60					10	10	10	10	10	10	10	10	10
1	8929610	SPACER		10	10	10									
1	8923313	PLUG, 3/4" PIPE (12.9550)		3	3	3		3	3	4	3	3	3	3	
1	8923916	PLUG, 1/2" PIPE (12.9550)		1		1									
	11504571	BOLT, M10 X 1.5 X 65.0MM					10	10	10	10	10	10	10	10	10
1	23505050	BOLT, M10 X 1.5 X 85		10	10	10									
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP									1			1	
1	5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)		1	1	1	1	1		1	2			1	
	8923847	PLUG, PIPE 1/4-18" NPTF					1								
	23505026	ISOLATOR, OIL PAN SLCN S PLT S60					10	10	10	10	10	10	10	10	10
1	5164292	WASHER, 4/32"X7/16"X1 1/2" (1.7605)		10	10	10									
	8929825	INSERT OIL PAN 3/4" NPTF VINYL PAN						3	3			4	3		
	23503911	NUT 3/4 HEX SMC OIL PAN INSERT S60						3	3			4	3		
	23518378	SEAL RING SQ SEC .134 THK X 1.609 ID						3	3			4	3		
		# NOT SERVICED; CONVERT TO TYPE 826													
	4.7030	GASKET, OIL PAN TO BLOCK													
1	8929102	GASKET		1	1	1	1	1	1	1	1	1	1	1	1
	4.7080	PLUG, OIL PAN DRAIN													
1	23505720	PLUG, PIPE 3/4"-14 INT SQ DRIV MAG DRN							1			1	1		
	23509577	PLUG, PIPE 3/4-14 INT SQ O.S. MAG DRN							1						
	23509576	PLUG, PIPE 3/4-14 EXT SQ O.S. MAG DRN							1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 9 4	8 9 5	8 9 6	8 9 7	8 9 8	8 9 9	9 0 0	9 0 4	9 0 6	9 1 4	9 1 5	9 1 7
	4.7000A OIL PAN														
	4.7001	PAN, OIL													
		OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001													
1	23504160	PAN ASSY., OIL FRT SUMP (SBFA) SMC S60	A1		NS										
1	23521170	PAN ASSY., OIL FRONT SUMP (SBFA) SMC	A1		1										
1	23509455	PAN ASSY., OIL FRT SUMP (ACOUSTICAL)	A1					NS							
1	23521169	PAN ASM OIL FRT SUMP (ACOUSTICAL) S60						1							
1	23511692	PAN ASSY., OIL FRT SUMP LOW PROFILE ALUMINUM	A1				1				1				
1	23511919	PAN ASSY., OIL FRT SUMP VINYL	A1						NS						
1	23521171	PAN ASSY., OIL FRT SUMP SMC (SBFA) 5DRNS							1						
	23512835	PAN ASSY., RR SUMP ALUM SHALLOW								1					
	23514927	PAN ASM OIL AL FRT SUMP SHALLOW S60	A1			1									
	23518544	PAN OIL AL FRT SUMP LOW FLOOR											1		
	23521170	PAN ASSY., OIL FRONT SUMP (SBFA) SMC	A1												1
	23521243	PAN ASSY., OIL FRT SUMP OIL FILL ADAP ERF												1	
1	8929583	PAN OIL 30 DEG ALUM W/OIL FIL PLT S60										1			
1	8929799	PAN ASSY., OIL SUMC VINYL ESTER	A1	1											
	23505027	SPACER, OIL PAN 47.4-47.7 LG S60												10	
1	8923313	PLUG, 3/4" PIPE (12.9550)		3	3	4	4	3	3	3	4		3	2	3
	11504571	BOLT, M10 X 1.5 X 65.0MM		10	10	10	10	10	10	10	10	10	10	10	10
1	5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)		1		1	1				1	1			
	8923847	PLUG, PIPE 1/4-18" NPTF										1			
	23505026	ISOLATOR, OIL PAN SLCN S PLT S60												10	
	8929825	INSERT OIL PAN 3/4" NPTF VINYL PAN			3										
	23503911	NUT 3/4 HEX SMC OIL PAN INSERT S60			3										
	23518378	SEAL RING SQ SEC .134 THK X 1.609 ID			3										
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP					1			1	1				
	23517242	ISOLATOR OIL PAN S50/S60		10	10	10	10	10	10	10	10	10	10		10
	23517243	SPACER OIL PAN S50/S60		10	10	10	10	10	10	10	10	10	10		10
	4.7030	GASKET, OIL PAN TO BLOCK													
1	8929102	GASKET		1	1	1	1	1	1	1	1	1	1	1	1
	4.7080	PLUG, OIL PAN DRAIN													
1	23505720	PLUG, PIPE 3/4"-14 INT SQ DRIV MAG DRN			1			1	1				1	1	1
	23517728	PLUG PIPE 3/4-14 HEX HD STL MAG								1					

					TYPES											
4.7000A OIL PAN					9	9	9	9	9	9	9	9	9	9	9	9
					1	2	2	3	4	5	5	6	6	6	6	6
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.		9	3	4	1	7	4	9	1	5	6	7	8
REFER TO ENGINEERING DRAWING # 06E00 6057																
	4.7001	PAN, OIL														
		OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001														
	23520912	PAN ASSY,OIL AL LOW PROF RR SUMP ERF						1								
	23521169	PAN ASM OIL FRT SUMP (ACOUSTICAL) S60					1									
	23521171	PAN ASSY,OIL FRT SUMP SMC (SBFA) 5DRNS				1										
	23521173	PAN ASSY,OIL SMC VINYL ESTER	A1	1												
	23522282	PAN ASSY, OIL FRONT SUMP (SBFA) SMC MOD SEAL													1	
	23522283	PAN ASSY, OIL RR SUMP														1
	23522655	PAN, OIL AL MOD SEAL SYS RR SUMP								1						
	23522956	PAN ASSY,OIL FRT SUMP							1							
	23523203	PAN, OIL 30 DEG AL MOD SEAL SYS										1				
	23523559	PAN ASSY, OIL FRT SUMP ACOUSTICAL MOD SEAL									1					
	23524761	PAN ASSY, OIL ACOUSTICAL ERF												1		
	23525011	PAN, OIL AL LOW PROFILE											1			
1	8923313	PLUG, 3/4" PIPE (12.9550)			3	3	3		3	3	3	1		3	3	3
	11504571	BOLT, M10 X 1.5 X 65.0MM			10	10	10	10	10					10		
1	5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)											4			1
	23520929	SEAL RING														3
	23522281	SLEEVE ASSY, OIL PAN BOLT MOD SEAL SYS								10	10	10	10		10	10
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP								1						
	23517242	ISOLATOR OIL PAN S50/S60			10	10	10	10	10					10		
	23517243	SPACER OIL PAN S50/S60			10	10	10	10	10					10		
	23521330	KIT INSERT OIL PAN														3
	4.7005	SENSOR, OIL LEVEL														
	23522788	SENSOR, OIL LEVEL							1							
	4.7030	GASKET, OIL PAN TO BLOCK														
	23522279	GASKET, OIL PAN W/O CORD MOD SEAL SYS								1	1	1	1		1	1
1	8929102	GASKET			1	1	1	1	1					1		
	4.7080	PLUG, OIL PAN DRAIN														
1	23505720	PLUG, PIPE 3/4"-14 INT SQ DRIV MAG DRN							1		1			1	1	
	5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)			1					1		1				

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				9 6 9	9 7 0	9 7 2							
		4.7000A OIL PAN											
	4.7001	PAN, OIL											
		OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001											
	23522282	PAN ASSY., OIL FRONT SUMP (SBFA) SMC MOD SEAL			1								
	23522284	PAN ASSY., OIL FRT SUMP SMC (SBFA) MOD SEAL	1										
	23522286	PAN ASSY., OIL FRT SUMP SMC				1							
1	8923313	PLUG, 3/4" PIPE (12.9550)	3	3	3								
	23522281	SLEEVE ASSY., OIL PAN BOLT MOD SEAL SYS	10	10	10								
	4.7005	SENSOR, OIL LEVEL											
	23522788	SENSOR, OIL LEVEL			1								
	4.7030	GASKET, OIL PAN TO BLOCK											
	23522279	GASKET, OIL PAN W/O CORD MOD SEAL SYS	1	1	1								
	4.7080	PLUG, OIL PAN DRAIN											
1	23505720	PLUG, PIPE 3/4"-14 INT SQ DRIV MAG DRN	1	1	1								

			ASSEMBLIES															
4.7000A OIL PAN			A	B	C	D	E	F	G	H								
FIG. REF.	PART NO.	NAME AND DESCRIPTION																
(Note: Assemblies are shown for component reference only.)																		
	4.7001	PAN, OIL																
		OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001																
1	8929799	PAN ASSY., OIL SMC VINYL ESTER	1															
1	23504160	PAN ASSY., OIL FRT SUMP (SBFA) SMC S60		1		1	1											
1	23511692	PAN ASSY., OIL FRT SUMP LOW PROFILE ALUMINUM			1													
1	23511919	PAN ASSY., OIL FRT SUMP VINYL				1												
1	23509455	PAN ASSY., OIL FRT SUMP (ACOUSTICAL)					1											
	23514927	PAN ASM OIL AL FRT SUMP SHALLOW S60						1										
	23521170	PAN ASSY., OIL FRONT SUMP (SBFA) SMC							1									
	23521173	PAN ASSY., OIL SMC VINYL ESTER								1								
	23503911	NUT 3/4 HEX SMC OIL PAN INSERT S60	3	3		1	3											
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGR. P			1													
	23518378	SEAL RING SQ SEC .134 THK X 1.609 ID	3	3		1	3											
	23520929	SEAL RING							3	3								
	23520931	NUT							3	3								
	23521330	KIT INSERT OIL PAN							1	1								
	5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)			1			1										
	8923313	PLUG, 3/4" PIPE (12.9550)			4			4										
	8929339	INSERT OIL PAN 3/4" NPTF HEX				3	1											
	8929825	INSERT OIL PAN 3/4" NPTF VINYL PAN	3	3		1	3											

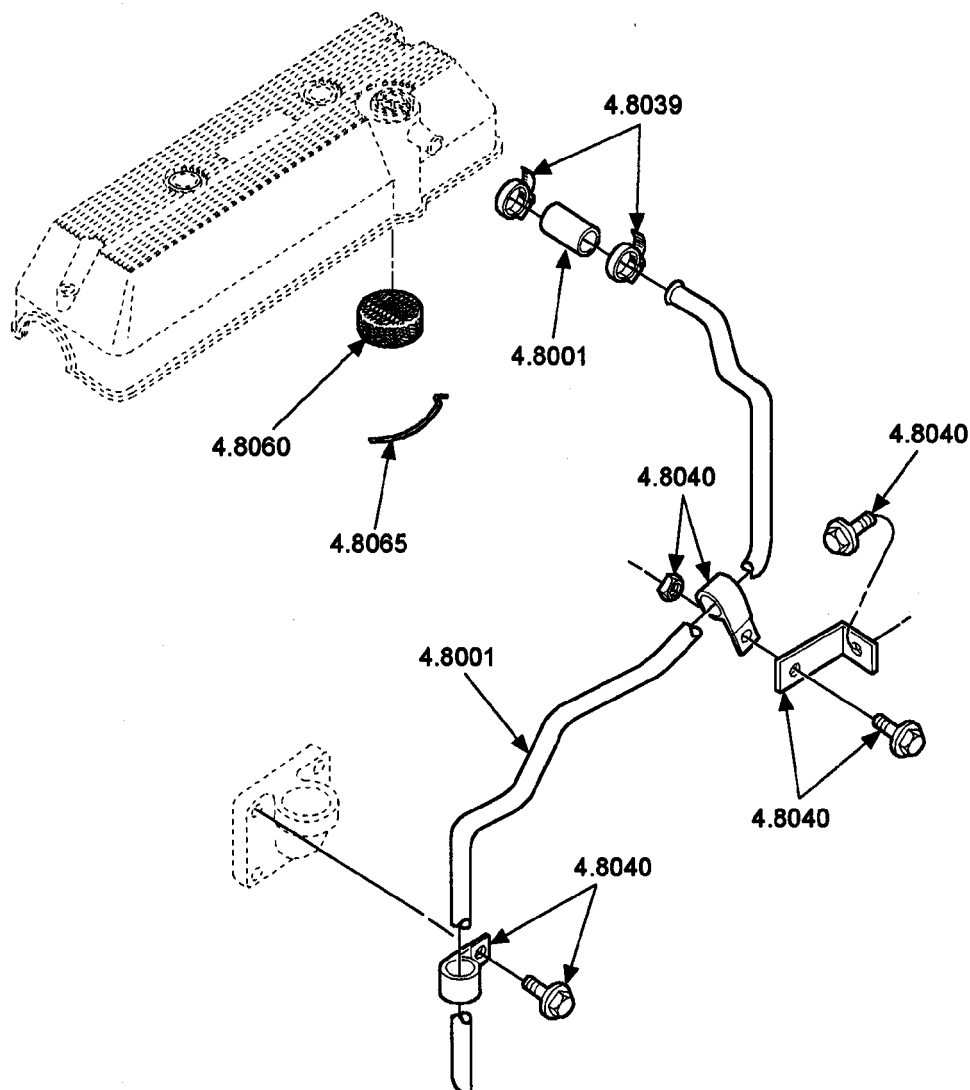
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 BREATHER

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FIG. 1 OF 4.8000A

			TYPES											
4.8000A VENTILATING SYSTEM			8	8	8	8	8	8	9	9	9	9	1	1
			5	6	7	8	9	9	0	4	6	8	0	0
FIG. REF.	PART NO.	NAME AND DESCRIPTION	9	5	7	3	3	8	7	9	6	5	0	3
		ASSY. SECT.											4	0
	4.8001	PIPE ASSY, BREATHER												
1	23505253	TUBE BTHR STL (RKR CVR) DRAFT				1								
1	23505906	TUBE, BREATHER DRAFT					1				1			
	23507560	TUBE, BREATHER DRAFT						1						
	23509322	TUBE, BREATHER DRAFT							1					
1	23504088	HOSE, 1" I.D.X2 1/2" L.					1	1	1			1		
	23513998	HOSE, 1.25"X5.50"L.									1			
1	5118149	HOSE, 1" I.D.X30" L. (4.1642)			1									
	23515256	TUBE BTHR DRAFT										1		
	5115390	HOSE 1.00 X 8.50 LG										1		
	5186840	CLAMP, 1 1/2" I.D. (12.9660)										1		
	4.8039	CLAMP, BREATHER TUBE												
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)									1			
1	5186840	CLAMP, 1 1/2" I.D. (12.9660)				2	2	2	2		1	2		
	4.8040	CLIP, BREATHER TUBE												
1	23509307	BRACKET					1				1			
1	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)				1	2	1	2		2	1		
	11504822	BOLT, M8 X 1.25 X 30						1						
1	11504986	BOLT, M8 X 1.25 X 14 MM				1	1				1			
	11505299	BOLT, M10 X 1.5 X 30.0 MM							1					
1	11509511	BOLT, M8 X 1.25 X 20 MM					1				1			
	5157412	SPACER, 7/8"X13/32"X1/4"							1					
	8929397	SPACER, 20.0 MM (1.3169)						1						
1	11507036	NUT, M8 X 1.25				1					1			
	4.8043	PLUG, BREATHER HOLE												
	5106236	PLATE, BREATHER HOLE								1				
	5103647	RETAINER ROCKER COVER BREATHER								1				
	4.8055	SHELL, BREATHER												
	23515215	HSG & TUBE ASSY RKR CVR BREATHER			1									
	23504751	SCREW #10-24 X .50" (4.8055)			3					3			3	
	23512984	BREATHER ASM.											1	
	23515095	BREATHER-BAFFLE PLATE			1									
	5103647	RETAINER ROCKER COVER BREATHER			1								1	
	23512985	ADAPTOR,BREATHER ASM.											1	
	23515211	O-RING CRANKCASE BREATHER											1	
	23516943	BREATHER, BAFFLE PLATE FULL											1	
	23516944	BREATHER, BAFFLE PLATE PARTIAL											1	

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	8	8	8	8	8	8	9	9	9	9	1	1
				5	6	7	8	9	9	0	4	6	8	0	0
		4.8000A VENTILATING SYSTEM		9	5	7	3	3	8	7	9	6	5	0	3
														4	0
	4.8057	GASKET, BREATHER SHELL COVER													
	5103646	SEAL DC ROCKER COVER BREATHER				1					1			1	
	4.8060	FILTER UNIT, BREATHER													
1	5101760	ELEMENT (ROUND)		1	1										1
	23504890	ELEMENT 4" RKR CVR BTHR STL WIRE				1									
1	5103636	RETAINER BTHR ELEMENT ROCKER COVER				1									
	4.8065	RETAINER, BREATHER PAD													
1	8929612	RETAINER, ELEMENT (4.8044)		1	1										1

			TYPES											
4.8000A VENTILATING SYSTEM			1	1	1	1	1	1	1	1	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	0	0	0	0	0	1	1	1	1	1	1	1
			6	6	7	7	8	9	0	1	3	4	5	5
			6	7	2	9	6	2	7	3	0	9	4	5
REFER TO ENGINEERING DRAWING # 06H00 6016														
	4.8001	PIPE ASSY, BREATHER												
	23509322	TUBE, BREATHER DRAFT									1			
	23513998	HOSE, 1.25"X5.50"L.									1			
	23523351	HOSE, BREATHER 90 DEG										1		1
	23524389	TUBE, BREATHER ARGOSY										1		
	23525631	HOSE, 1.00 ID X 14.50 LG												1
	23517013	TUBE BTHR DRAFT (RKR CVR) 1344.0 LG					1	1		1				1
	23518315	HOSE 90 DEG 1.0ID 1.80 X 1.0R						1		1				
	4.8039	CLAMP, BREATHER TUBE												
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)									1			
1	5186840	CLAMP, 1 1/2" I.D. (12.9660)					2	2		2	1	2		3
	4.8040	CLIP, BREATHER TUBE												
	23519756	BRACKET					1	1		1				1
	5173022	BRACKET, CLIP 90 DEG										1		
1	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)					2	2		2	2	2		2
1	11504986	BOLT, M8 X 1.25 X 14 MM					1	1				2		
1	11509511	BOLT, M8 X 1.25 X 20 MM								1		3		1
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)					1	1		1				1
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)									1			
	5157412	SPACER, 7/8"X13/32"X1/4"								1	1			
	5160425	SPACER, 13/32"X23/32"					1	1						1
	11506101	NUT, M10 X 1.5					1	1		1				1
1	11507036	NUT, M8 X 1.25					1	1		1		2		1
	23501209	CLIP, 1" SPL.										1		
	5137329	BRACKET CLIP 90 DEG. (7.1005)										1		
	4.8043	PLUG, BREATHER HOLE												
	23515484	CAPLUG	1		1									
	4.8045	BREATHER ASSY.												
	23521873	BREATHER ASSY.,ENG C/CASE							1					
	4.8055	SHELL, BREATHER												
	23515215	HSG & TUBE ASSY RKR CVR BREATHER	1	1		1								
	23504751	SCREW #10-24 X .50" (4.8055)	3			3								
	23515095	BREATHER-BAFFLE PLATE	1	1		1								
	5103647	RETAINER ROCKER COVER BREATHER	1	1		1								

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4.8000A VENTILATING SYSTEM											
				1	1	1	1	1	1	1	1	1	1	1	1
				0	0	0	0	0	0	1	1	1	1	1	1
				6	6	7	7	8	9	0	1	3	4	5	5
				6	7	2	9	6	2	7	3	0	9	4	5
	4.8057	GASKET, BREATHER SHELL COVER													
	5103646	SEAL DC ROCKER COVER BREATHER		1	1		1								
	4.8060	FILTER UNIT, BREATHER													
1	5101760	ELEMENT (ROUND)				1									
	23504890	ELEMENT 4" RKR CVR BTHR STL WIRE		1	1		1								
1	5103636	RETAINER BTHR ELEMENT ROCKER COVER		1	1		1								
	4.8065	RETAINER, BREATHER PAD													
1	8929257	RETAINER, ELEMENT				1									
	4.8187	HOSE, OIL DRAIN													
	5174924	VALVE ASSY., FUEL CHECK SWING TYPE												1	
	CAHH0233	HOSE ASSY., #6 X 25.6" LG												1	
	23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)												1	
	8925033	ELBOW, 45 DEG. STREET, 1/4" PIPE (12.9590)												1	
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)												1	
	4.8200	COLLECTOR ASSY.													
	23525218	COLLECTOR ASSY., 6" DIA.												1	
	4.8240	LIMITER ASSY., COLLECTOR VACCUM													
	23516532	REGULATOR ASM 1.25DX5.9 CLSD C/CASE												1	
	23505095	HOSE, 1 1/4" (90 DEG.) (3.5439)												1	
	23525229	HOSE, 90DEG 1.25 ID 2.50 X 4.00												1	
	23508028	CLAMP, HOSE SNAPPER TYPE SNP-36												4	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		4.8000A VENTILATING SYSTEM		0	0	0	0	0	1	1	1	1	1	1	1
				6	6	7	7	8	9	0	1	3	4	5	5
				6	7	2	9	6	2	7	3	0	9	4	5
	4.8250	CONNECTIONS, COLLECTOR													
	23525032	ADAPTOR, TURBO AIR INLET												1	
	23525115	HOSE, 7.00 ID X 2.12												2	
	23525182	HOSE, 6.00 ID X 2.25												1	
	23504233	CLAMP, 6 7/8"-7 3/4" CLAMP. RANGE (3.1230)												4	
	23509403	CLAMP, HOSE 6.12"-7.00"												2	
	5183229	STRAP, 3-53 (10" DIA. CLEANER) (3.2014)												1	
	11500775	BOLT, M8X1.5X40.0 MM												1	
	11503454	BOLT, M10 X 1.5 X 20.0												2	
	11503553	NUT, M8 X 1.25												1	
	11506101	NUT, M10 X 1.5												2	
	23517856	SPACER .36 X .54 X 1.44 LG IRON ZINC												1	
	4.8260	BRACKETS, COLLECTOR													
	23525035	BRACKET												1	
	11504986	BOLT, M8 X 1.25 X 14 MM												4	

				TYPES								
4.8000A VENTILATING SYSTEM				1	1	1	1	1	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1
				5	6	6	6	6	6	6	6	6
				7	0	1	2	3	4	5	8	9
FOR OPTION CODE # 1177, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06X03A 6052												
	4.8001	PIPE ASSY, BREATHER										
1	23505906	TUBE, BREATHER DRAFT				1						
	23509322	TUBE, BREATHER DRAFT								1		
	5102314	TUBE, 1.25"X42"L. FLEX.			1							
	23523931	HOSE, 1.00 ID X 2.50 LG				1				1		
	23525631	HOSE, 1.00 ID X 14.50 LG						1				
	3290750	HOSE, 1.25"X3.26"L.(5120022)		1				1				
	23517013	TUBE BTHR DRAFT (RKR CVR) 1344.0 LG					1	1	1			1
	23518315	HOSE 90 DEG 1.0ID 1.80 X 1.0R					1	1	1			1
	4.8039	CLAMP, BREATHER TUBE										
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)		2								
1	5186840	CLAMP, 1 1/2" I.D. (12.9660)		1	2	2	3	2	2		2	
	4.8040	CLIP, BREATHER TUBE										
	23519756	BRACKET					1	1	1			1
	5173022	BRACKET, CLIP 90 DEG				1						
	8923210	BRACKET, 90 DEG. (7/16" SLOT, 3/8" BOLT HOLE)		1								
1	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)			2	2	2	2	2		2	
	672772	CLIP, 1.56" DIA. 1/2" BOLT (4.8180)		1								
	11503454	BOLT, M10 X 1.5 X 20.0		1								
	11504822	BOLT, M8 X 1.25 X 30			1							
1	11509511	BOLT, M8 X 1.25 X 20 MM		1	1	1	1	1				1
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)				1	1	1				1
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)				1				1		
	5157412	SPACER, 7/8"X13/32"X1/4"				1				1		1
	5160425	SPACER, 13/32"X23/32"					1	1	1			
	11506101	NUT, M10 X 1.5					1	1	1			1
1	11507036	NUT, M8 X 1.25		1	1	1	1	1				1
	4.8055	SHELL, BREATHER										
	23525221	BREATHER, HSG ASSY.		1								
	23525225	STUD, M6		2								
	23520468	WASHER		2								
	11503749	NUT, M6 X 1.00		2								
	4.8059	SEAL, BREATHER SHELL										
	23519119	SEAL RING .70X .208 I.D. VITON		2								
	23525226	SEAL, RING		1								

			TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1
				1	1	1	1	1	1	1	1	1
		4.8000A VENTILATING SYSTEM		5	6	6	6	6	6	6	6	6
				7	0	1	2	3	4	5	8	9
	4.8060	FILTER UNIT, BREATHER										
	23504890	ELEMENT 4" RKR CVR BTHR STL WIRE	1									
1	4.8065	RETAINER, BREATHER PAD										
	8929257	RETAINER, ELEMENT	1									
	4.8187	HOSE, OIL DRAIN										
	5174924	VALVE ASSY., FUEL CHECK SWING TYPE									1	
	CAHH0248	HOSE ASSY., #6 X 27.1" LG									1	
	23505200	ELBOW, 45 DEG FLD TUB 3/4"									1	
		HOSE (12.9460)										
	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE									1	
		1/4 PIPE (12.9390)										
	4.8200	COLLECTOR ASSY.										
	23525218	COLLECTOR ASSY., 6" DIA.									1	
	4.8240	LIMITER ASSY., COLLECTOR										
		VACCUM										
	23516532	REGULATOR ASM 1.25DX5.9									1	
		CLSD C/CASE										
	23505095	HOSE, 1 1/4" (90 DEG.) (3.5439)									1	
	23525229	HOSE, 90DEG 1.25 ID 2.50 X 4.00									1	
	23508028	CLAMP, HOSE SNAPPER TYPE SNP-36									4	
	4.8250	CONNECTIONS, COLLECTOR										
	23525032	ADAPTOR, TURBO AIR INLET									1	
	23525182	HOSE, 6.00 ID X 2.25									1	
	23525183	HOSE, 7.00 X 5.00" L									1	
	23504233	CLAMP, 6 7/8"-7 3/4" CLAMP.									2	
		RANGE (3.1230)										
	23509403	CLAMP, HOSE 6.12"-7.00"									2	
	5183229	STRAP, 3-53 (10" DIA. CLEANER) (3.2014)									1	
	11503454	BOLT, M10 X 1.5 X 20.0									2	
	11509516	BOLT, M8 X 1.25 X 70 MM									1	
	11503553	NUT, M8 X 1.25									1	
	11506101	NUT, M10 X 1.5									2	
	23525312	SPACER									1	
	4.8260	BRACKETS, COLLECTOR										
	23525035	BRACKET									1	
	11504986	BOLT, M8 X 1.25 X 14 MM									4	

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

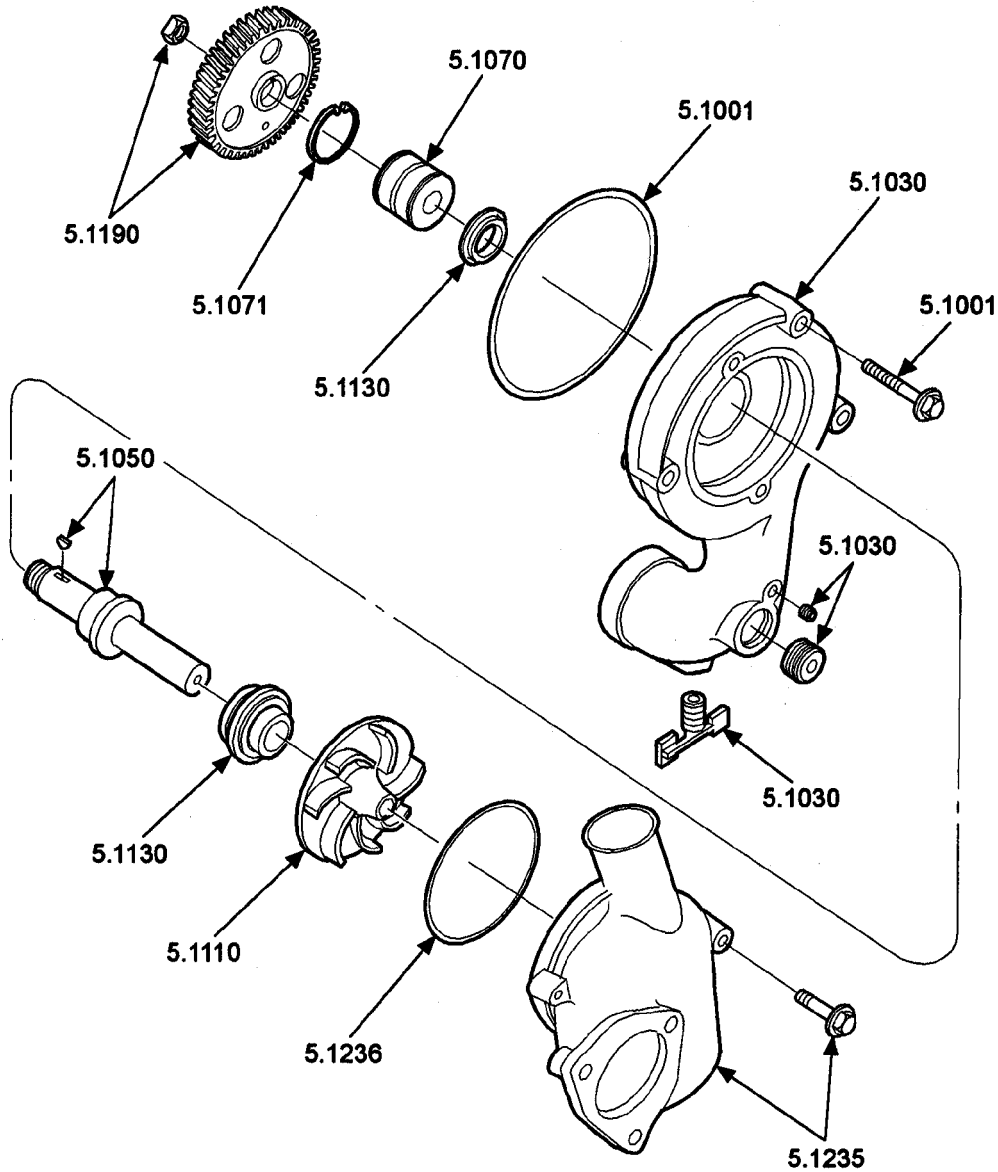
- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A AIR COMPRESSOR
- 12.5000A HYDRAULIC PUMP
- 12.6000B AIR STARTER
- 12.6000C COLD WEATHER STARTING AIR KIT
- 12.7000A APPEARANCE PACKAGE PARTS
- 12.8000A SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B FABRICATION MATERIAL
- 12.8000C SERVICE KITS AND SETS

DETROIT DIESEL**SERIES 60 ENGINE****FIG. 1 WATER PUMP AND COVER ASSEMBLY**

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FIG. 1 OF 5.1000

DETROIT DIESEL

SERIES 60 ENGINE

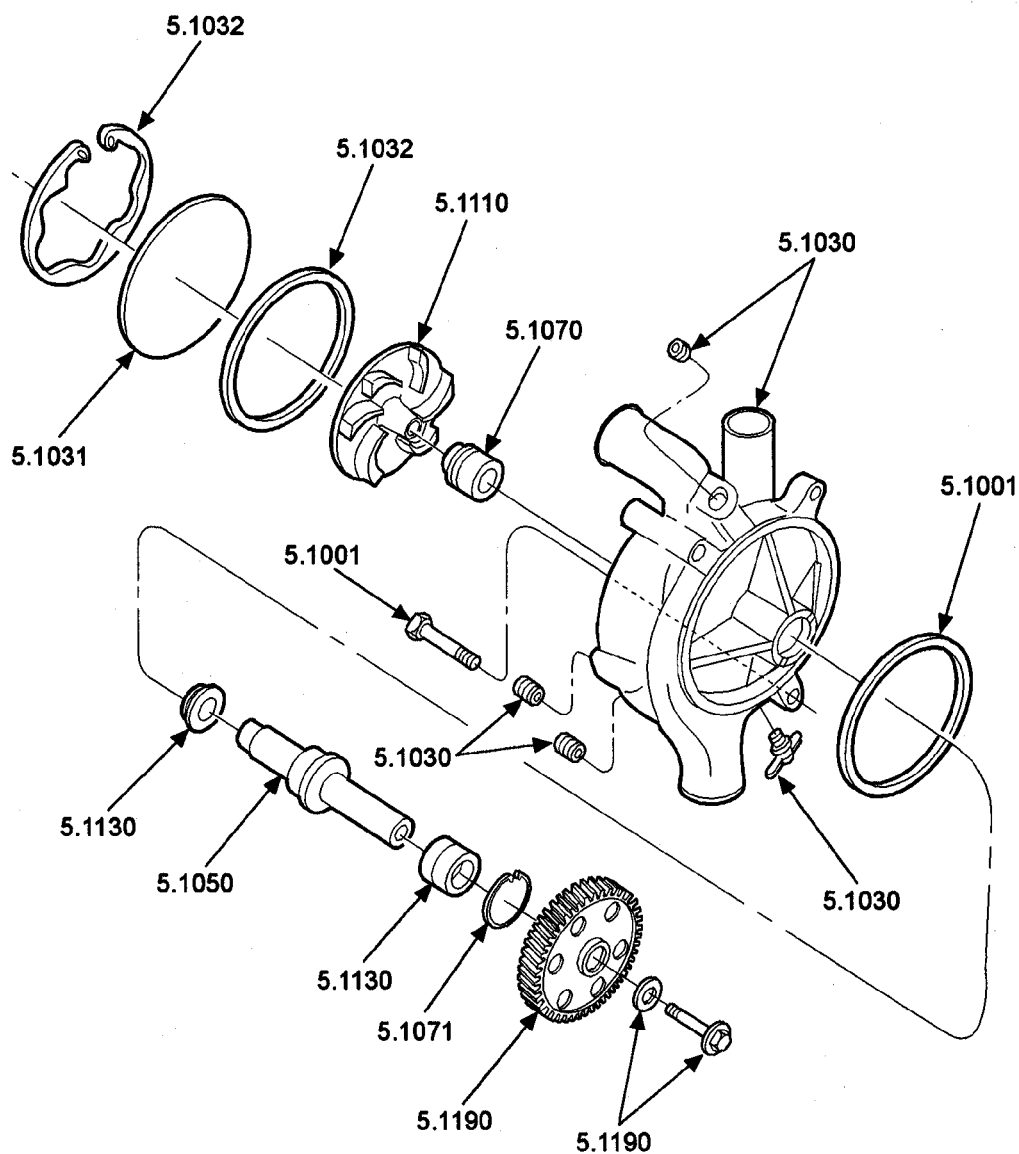


FIG. 2 WATER PUMP ASSEMBLY

38500

FIG. 2 OF 5.1000

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 6 3	2 7 0	2 7 1	2 7 6	2 7 7	2 8 9	2 9 1	2 9 4	2 9 7	2 9 9	3 0 1	3 0 3
	5.1000	FRESH WATER PUMP													
	5.1001	PUMP ASSY., FRESH WATER													
		A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.													
	R23518216	REMANUFACTURED 23518216				AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	R23520136	PUMP KIT, SAND CAST HSG HIGH CAPACITY IMPELLER (REMANUFACTURED)			AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	23505019	PUMP ASSY., W/SQ CUT SEAL RING	A1	NS	NS										
	23509067	PUMP ASSY., OFFSET W/SQ CUT SEAL RING	A1	1	1										
	23505895	PUMP ASSY., SAND CAST HSG STD IMPELLER	A1			NS	NS	NS							
	23509067	PUMP ASSY., OFFSET W/SQ CUT SEAL RING	A1	NS	NS										
	23516417	PUMP ASM WAT MT RR GR CASE SQ CUT O-RG	A1					NS	NS	NS					
	23517028	PUMP ASM WAT RR GR CASE SQ CUT O-RG S60	A1									NS	NS	NS	
	23518215	PUMP ASM WAT RR GR CASE SQ CUT O-RG S60	A1												NS
	23522707	(R) KIT, WATER PUMP MT RR GR CASE				1	1	1	1	1	1	1	1	1	1
	8929509	PUMP ASSY	A1	NS											
	23505019	PUMP ASSY., W/SQ CUT SEAL RING	A1	1											
	R23509067	REMANUFACTURED 23509067		AR	AR										
	R23514989	REMANUFACTURED 23514989		AR	AR										
2	23505025	SEAL RING W/SQ CUT (5.1032)			1	1	1	1	1	1	1	1	1	1	
	23520377	SEAL O RING WATER PUMP SQ CUT (VITON)													1
1	8929158	SEAL RING (5.1032)		1											
	23509196	FITTING						1		1	1		1	1	1
	23509195	TUBE ASSY., 45 DEG.						1		1			1		1
1	11509517	BOLT, M8 X 1.25 X 80 MM		3	3										
2	11509523	BOLT, M10 X 1.5 X 55 MM				1	1	1	1	1	1	1	1	1	1
2	23505755	BOLT, M10 X 1.5 X 155.0				2	2	2	2	2	2	2	2	2	2
	23514989	KIT - PUMP S60 OFFSET INLET		1	1										
	23517062	TUBE ASM WAT PMP 45DEG WATFIL CON S60								1				1	
	5.1002	RECONDITIONING KIT, FRESH WATER PUMP													
		A RECONDITIONING KIT INCLUDES SEAL RING IN 5.1001, BEARING IN 5.1070 LOCKRING IN 5.1071 AND ITEMS IN 5.1130 AND 5.1236.													
	23509105	KIT, RECONDITIONING W/SQ CUT WAT PMP & CVR SEALS		AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
	5.1010	GASKET, FRESH WATER PUMP													
	23507073	GASKET		1	1										

				TYPES															
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.																
				3 0 6	3 0 8	3 1 1	3 3 0												
	5.1001	PUMP ASSY., FRESH WATER A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.																	
	R23518216	REMANUFACTURED 23518216				AR	AR												
	R23520136	PUMP KIT, SAND CAST HSG HIGH CAPACITY IMPELLER (REMANUFACTURED)				AR	AR												
	23518215	PUMP ASM WAT RR GRCASE SQCUT O-RG S60	A1	NS	NS														
	23522707	(R) KIT, WATER PUMP MT RR GR CASE		1	1	1													
	23525171	PUMP ASSY., WATER REAR GEARCASE											1						
2	23505025	SEAL RING W/SQ CUT (5.1032)		1	1	1													
	23520377	SEAL O RING WATER PUMP SQ.CUT (VITON)											1						
	23509196	FITTING				1													
	23509195	TUBE ASSY., 45 DEG.						1											
	11501798	BOLT, M10 X 1.5 X 180 MM											2						
2	11509523	BOLT, M10 X 1.5 X 55 MM		1	1	1													
2	23505755	BOLT, M10 X 1.5 X 155.0		2	2	2													
	23523608	BOLT, M10 X 1.5 X 135													1				
	8929169	WASHER (12.9190)													2				
	23515484	CAPLUG									1								
	23517062	TUBE ASM WAT PMP 45DEG WATFIL CON S60				1													
	2492119	ELBOW, 90 DEG. 1' FLD TUBE 3/4" NPTF										1							
	5.1002	RECONDITIONING KIT, FRESH WATER PUMP A RECONDITIONING KIT INCLUDES SEAL RING IN 5.1001, BEARING IN 5.1070 LOCKRING IN 5.1071 AND ITEMS IN 5.1130 AND 5.1236.																	
	23509105	KIT, RECONDITIONING W/SQ CUT WAT PMP & CVR SEALS		AR	AR														

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES													
			A	B	C	D	E	F	G							
		5.1000 FRESH WATER PUMP														
		(Note: Assemblies are shown for component reference only.)														
	5.1001	PUMP ASSY., FRESH WATER														
		A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.														
	23505019	PUMP ASSY., W/SQ CUT SEAL RING	1													
	23509067	PUMP ASSY., OFFSET W/SQ CUT SEAL RING		1												
	8929509	PUMP ASSY			1											
	23505895	PUMP ASSY., SAND CAST HSG STD IMPELLER				1										
	23516417	PUMP ASM WAT MT RR GR CASE SQCUT O-RG					1									
	23517028	PUMP ASM WAT RR GRCASE SQCUT O-RG S60						1								
	23518215	PUMP ASM WAT RR GRCASE SQCUT O-RG S60							1							
	5.1030	BODY, FRESH WATER PUMP														
1	23505018	BODY (OFFSET INL. HSG. W/SQ CUT SEAL RING GROOVE)	1	1	1											
2	23505894	BODY, RR GR CASE				1										
2	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP				2	2	2	2							
1	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1	1	1	1	1	1	1							
	23516416	BODY, WATER PUMP RR GR SQ CUT O RG					1									
	23517027	BODY WAT PMP RRGRCASE SQCUT O-RG S60						1	1							
	8922327	PLUG, 1/4" NPTF (12.9550)					1									
1	8923847	PLUG, PIPE 1/4-18" NPTF	1	1	1											
1,2	8924140	DRAINCOCK, 1/4" (12.9510)	1	1	1											
	8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.						1	1							
	5.1031	COVER, FRESH WATER PUMP BODY														
2	8922383	COVER, NON-METALLIC				1	1	1	1							
	5.1032	GASKET, FRESH WATER PUMP COVER														
2	23512048	SEAL RING				1	1	1	1							
2	8922407	RING RETAINER				1	1	1	1							
	5.1050	SHAFT ASSY., FRESH WATER PUMP														
2	23505896	SHAFT				1	1	1	1							
1	8929157	SHAFT	1	1	1											
1	8929334	KEY, 4X5 WOODRUFF (5.1055)	1	1	1											

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES																
			A	B	C	D	E	F	G										
		5.1000 FRESH WATER PUMP																	
		(Note: Assemblies are shown for component reference only.)																	
	5.1070	BEARING, FRESH WATER PUMP																	
1,2	8929422	BEARING ASSY.	1	1	1	1	1	1	1										
	5.1071	RETAINER, FRESH WATER PUMP BEARING AND SEAL																	
1,2	8929427	RING	1	1	1	1	1	1	1										
	5.1110	IMPELLER, FRESH WATER PUMP																	
2	23507913	IMPELLER, WAT PMP C/I RT SI ENG				1	1	1											
	23517973	IMPELLER W/PMP C/I 6 VANE S80							1										
1	8929512	IMPELLER	1	1	1														
	5.1130	SEAL, FRESH WATER PUMP																	
2	23518316	SEAL WAT PUMP UNITIZED S80 W/SEALANT		1		1	1	1	1										
1,2	8929134	SEAL, LIP TYPE	1	1	1	1	1	1	1										
1	8929148	SEAL, UNITIZED	1		1														
	5.1190	GEAR, FRESH WATER PUMP DRIVE																	
1	11509584	NUT, LOCK M24 X 3.0	1	1	1														
2	23505897	WASHER, SPL WAT PUMP GEAR (5.1110)				1	1	1	1										
2	23505910	GEAR, RH 61 TEETH				1	1	1	1										
2	23508863	BOLT, M12X1.75X50.0MM				1	1	1	1										
1	8929135	GEAR, RH 61 TEETH	1	1	1														

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1 3 9	1 4 0	1 4 1	1 4 2	1 5 0	1 5 1	1 5 2	1 5 3	1 5 4	
		5.1000A FRESH WATER PUMP COVER											
	5.1235	COVER, WATER PUMP											
	23505020	COVER			1				1				
	23505021	COVER, WAT PMP HORIZ INL SQ CUT O RG S60		1				1					
	23505022	COVER, WAT PMP VERT INL SQ CUT RG SEAL				1				1			
	8929651	COVER					1						
	23505023	COVER, OFFSET INLET-FLANGE CONN.									1		
	8922383	COVER, NON-METALLIC										1	
	11504822	BOLT, M8 X 1.25 X 30 *FIG. 1 OF 5.1000.		2	2	2	2	2	2	2	2		
	5.1236	GASKET, WATER PUMP COVER											
	8929510	SEAL RING (COVER)		1	1	1	1						
	23505024	SEAL, O-RING WAT PMP CVR SQ CUT S60						1	1	1	1		
	5101160	SEAL RING										1	
	8922407	RING RETAINER										1	
		*FIG. 1 OF 5.1000.											

DETROIT DIESEL

SERIES 60 ENGINE

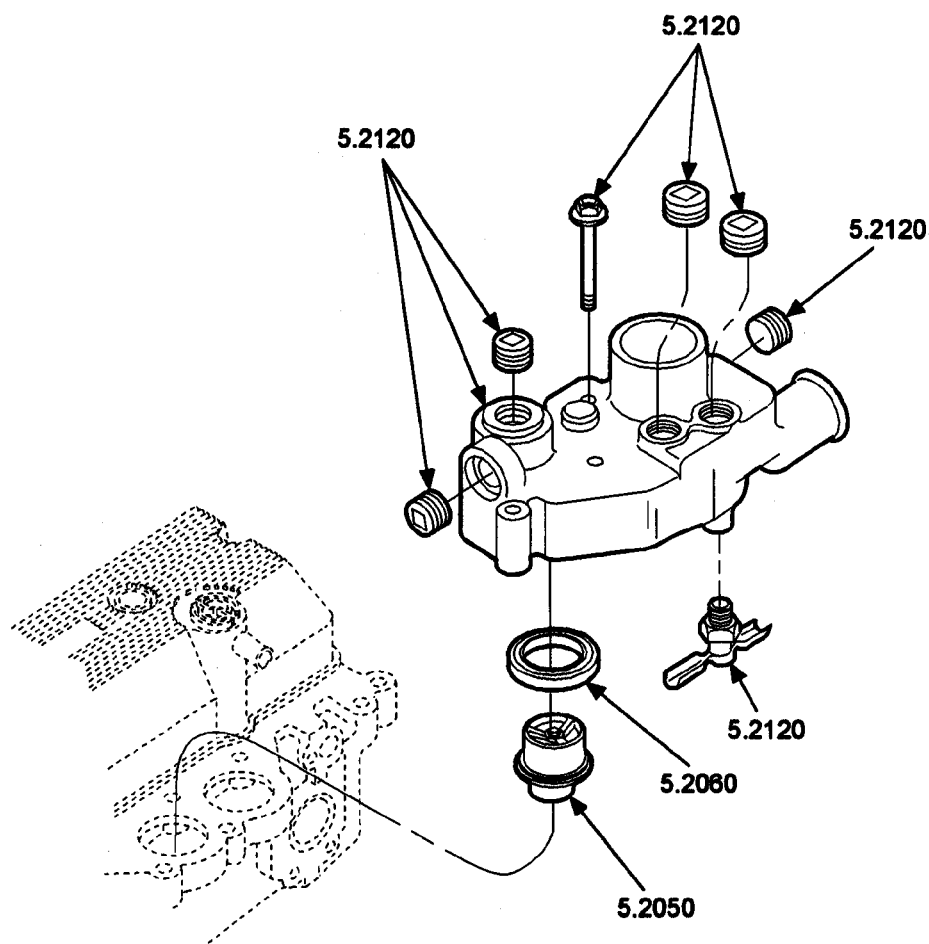


FIG. 1 THERMOSTAT HOUSING ASSEMBLY

24047

FIG. 1 OF 5.2000B

			TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	3	4	4	4	4				
				5	2	3	4	8				
		5.2000B THERMOSTAT		8	1	9	8	1				
		REFER TO ENGINEERING DRAWING # 06K03B 6007										
	5.2050	THERMOSTAT ASSY.										
	23503827	THERMOSTAT ASSY. (160 DEG. OPENING TEMPERATURE)						2				
1	8929878	THERMOSTAT ASSY. 190 DEG. OPENING TEMP.		2		2	2					
	5.2060	SEAL, THERMOSTAT										
1	5132155	SEAL		2	2	2	2	2				
	23509514	SEAL FLANGE		AR	AR							
	5.2090	HOUSING, THERMOSTAT										
	23525181	SPACER & TUBE ASSY., THERMOSTAT HOUSING						1				
	5.2110	GASKET, THERMOSTAT HOUSING										
	23525151	GASKET, THERMOSTAT HOUSING						2				
	5.2120	COVER, THERMOSTAT HOUSING										
	23512111	COVER			1							
	23525144	HOUSING, THERMO W/O COOLANT RETURN PORTS						1				
1	8929728	COVER		1	1	1						
	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)		2	2	2	2	1				
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP		2		2		1				
1	5136240	PLUG CAP .42" DIA. (2.2001)		1	1	1	1					
1	8924140	DRAINCOCK, 1/4" (12.9510)		1	1	1						
1	23505050	BOLT, M10 X 1.5 X 85		4	4	3	4					
	23516684	BOLT, M10 X 1.5 X 140						4				
	23509160	BOLT, M10X1.5X85.0 FLG HEADED				1						
	23519147	HOUSING THERM W/O COOL RTN PORTS S50					1					
	8922327	PLUG, 1/4" NPTF (12.9550)				1	1	1				
	5.2122	ELBOW, THERMOSTAT HOUSING COVER OUTLET										
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF						1				
	8924147	CONNECTOR						1				
	5.2124	HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW										
	YHHH0185	HOSE ASSY., NO. 4 X 21.58"L.						1				
	2488022	CLIP, 3/8" BOLT (12.8554)						1				

DETROIT DIESEL

SERIES 60 ENGINE

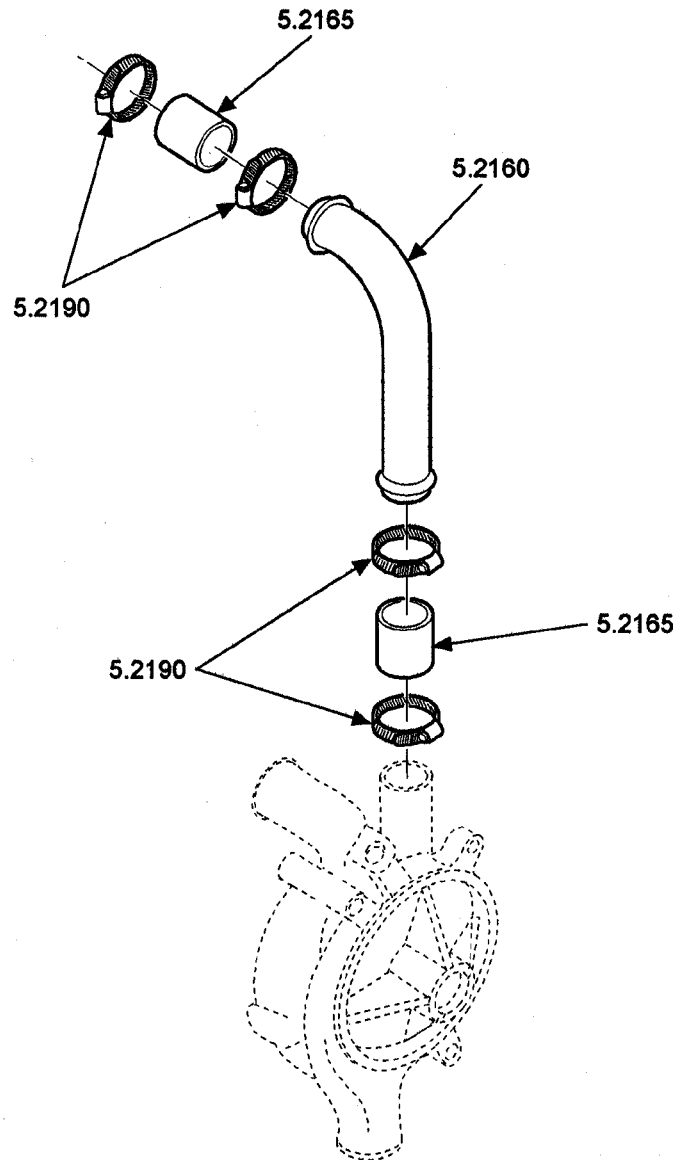


FIG. 1 WATER BY-PASS TUBE ASSEMBLY

21790

FIG. 1 OF 5.2000C

				TYPES									
5.2000C WATER BYPASS TUBE				4	4	4	4	4	4	4	4	4	4
				4	6	7	7	8	8	9	9	9	9
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	6	4	3	9	5	9	0	1	4	8
REFER TO ENGINEERING DRAWING # 06K03A 6010													
5.2160 TUBE, WATER BYPASS													
1	23505898	TUBE			1	1		1	1	1			
	23512151	TUBE					1				1	1	
	23525051	TUBE, WATER BYPASS 2.00" DIA											1
1	8929161	TUBE ASSY.	1										
	5138827	PLUG, CAP .72 DIA. (2.2001)	1										
5.2165 HOSE, WATER BYPASS TUBE													
1	23514665	HOSE 2.00 X 3.00 SAE 20R1 SLCN BLUE											2
	8929875	HOSE, 1 3/4" X 3.25"	2	2	2	2	2	2	2	2	2	2	
	23522553	HEAT SHIELD, HOSE										1	
5.2190 CLIP, WATER BYPASS TUBE													
1	23503066	CLAMP, 1.75"-2.62" DIA. HOSE				4	4						4
1	23505048	CLAMP, 2"-2 1/2" DIA. HOSE	4	4				4					
	23516419	CLAMP HOSE TYPE 'E' 2.125 NOM HOSE OD						4			4	4	
	23517072	CLAMP HOSE							4				

DETROIT DIESEL

SERIES 60 ENGINE

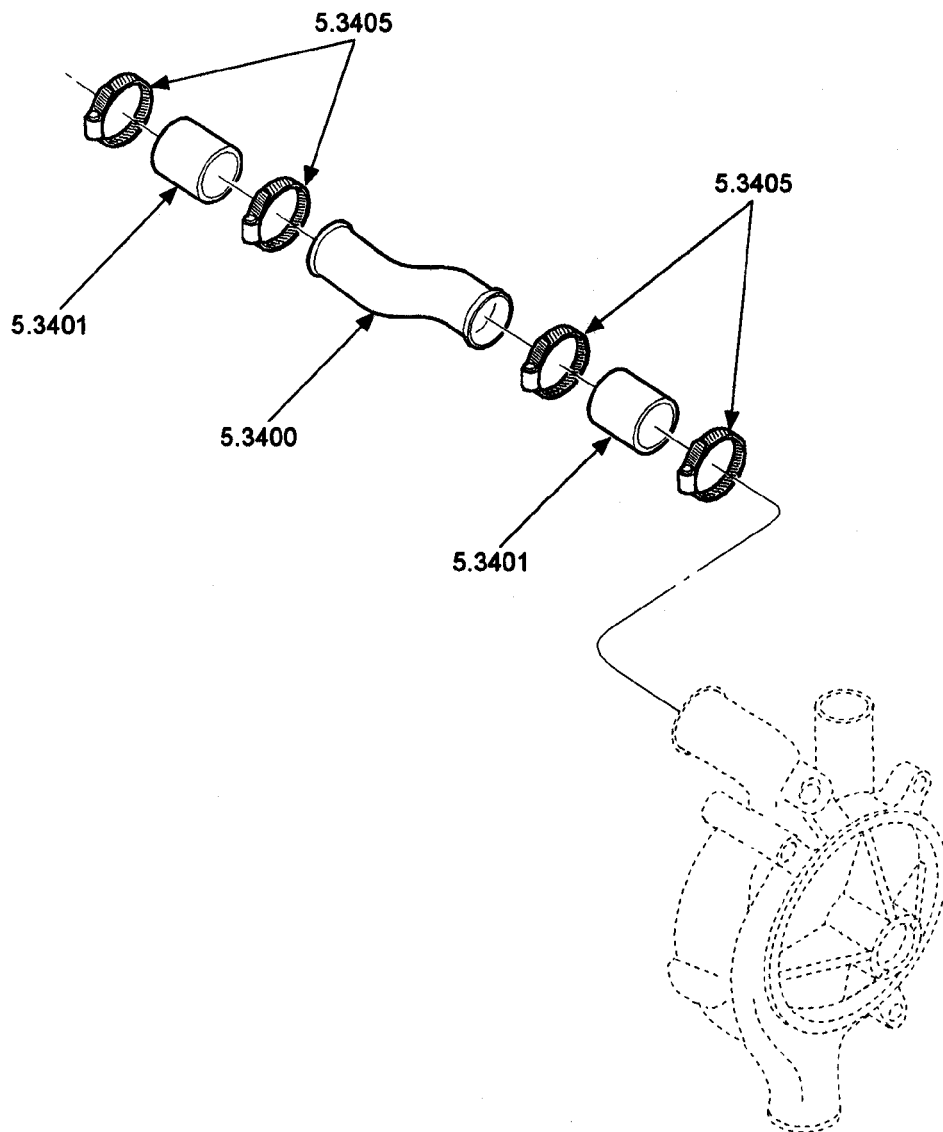


FIG. 1 WATER PUMP TUBE ASSEMBLY

21792

FIG. 1 OF 5.3000B

				TYPES											
5.3000B WATER CONNECTIONS				4	4	4	4	4	4	5	5	5	5	5	5
				1	5	6	7	8	9	0	1	2	4	5	5
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	9	8	6	5	5	4	2	2	4	0	1
	5.3400	TUBE, WATER PUMP TO OIL COOLER													
1	23505899	TUBE (FOR HI & MED MT. TURBO)			1				1					1	
1	8929020	TUBE (4.4211)	1												
1	23506681	TUBE (FOR LOW MT. TURBO)				1						1	1		
1	23507919	TUBE (FOR LOW MT. TURBO)						1			1				1
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP				1						1			
	5.3401	HOSE, WATER PUMP TO OIL COOLER													
1	8929724	HOSE, 3" I.D. X 2.50"L. (4.4213)	2												
1	23506325	HOSE, 2.75"X3.0" L (BLUE)			2	2	1	2	2	1	2	2	2	2	2
	5.3405	CLIP, WATER PUMP TO OIL COOLER TUBE													
1	23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE							4	2	3	3	4		
1	8929865	CLAMP, 3"-3 1/2" ID HOSE	4	4	4	4	2	3							4
	23517231	CLAMP TYPE "E" 3.125 NOM HOSE OS												4	

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5.3000B WATER CONNECTIONS									
				5	5	5							
				5	7	8							
				2	8	4							
FOR OPTION # 588, REFER TO CUSTOM PARTS CATALOG													
	5.3269	TUBE, TURBOCHARGER WATER RETURN											
	23525204	TUBE ASSY., TURBO WATER OUTLET				1							
	23525212	HOSE, 90 DEG 1.00ID X 2.38"				1							
	5186840	CLAMP, 1 1/2" I.D. (12.9660)				2							
	5.3273	HOSE, TURBOCHARGER WATER INLET											
	23525126	TUBE, Y WATER SUPPLY				1							
	23525235	HOSE, WATER SUPPLY (TURBO)				1							
	23525326	HOSE 1.50 X 3.50 LG SILICONE				1							
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)				2							
	2492119	ELBOW, 90 DEG. 1" FLD TUBE 3/4" NPTF				1							
	5.3275	CONNECTION, THERMOSTAT HOUSING WATER RETURN											
	23502122	HOSE, 1.50"X2.26" L. SILICONE				1							
	23502533	HOSE, 1 1/2" I.D.X3.25" L.				2							
	23525155	TUBE (WATER RETURN TEE TO THERMOSTAT SPACER)				1							
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)				4							
	5.3400	TUBE, WATER PUMP TO OIL COOLER											
1	23525050	TUBE, WATER PUMP TO OIL COOLER				1							
	23507919	TUBE (FOR LOW MT. TURBO)			1								
	23511176	SENSOR, OIL/FUEL PRESSURE				1							
	23525150	ELBOW, 90 DEG 37 DEG 1 1/4" FLD TUBE				1							
	23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE				4							
	23518969	TUBE ASM OIL COOLER INLET		1									
	5.3401	HOSE, WATER PUMP TO OIL COOLER											
1	23506325	HOSE, 2.75"X3.0" L (BLUE)		2	2	2							
	23506962	CLAMP, HOSE 1 1/4"-2 1/8"				2							
	5.3405	CLIP, WATER PUMP TO OIL COOLER TUBE											
1	23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE		4									
	23517231	CLAMP TYPE "E" 3.125 NOM HOSE OS			4								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	5	5									
				5	7	8									
		5.3000B WATER CONNECTIONS		2	8	4									
	5.3433	TUBE, EXHAUST MANIFOLD WATER INLET													
	23525124	HOSE, WATER SUPPLY (EXH MANIFOLD)				1									
	23520632	ELBOW				1									
	5.3442	HOSE, EXHAUST MANIFOLD WATER RETURN													
	23525154	HOSE (EXH MANIF WAT OUTLET)				1									
	5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)				2									

DETROIT DIESEL

SERIES 60 ENGINE

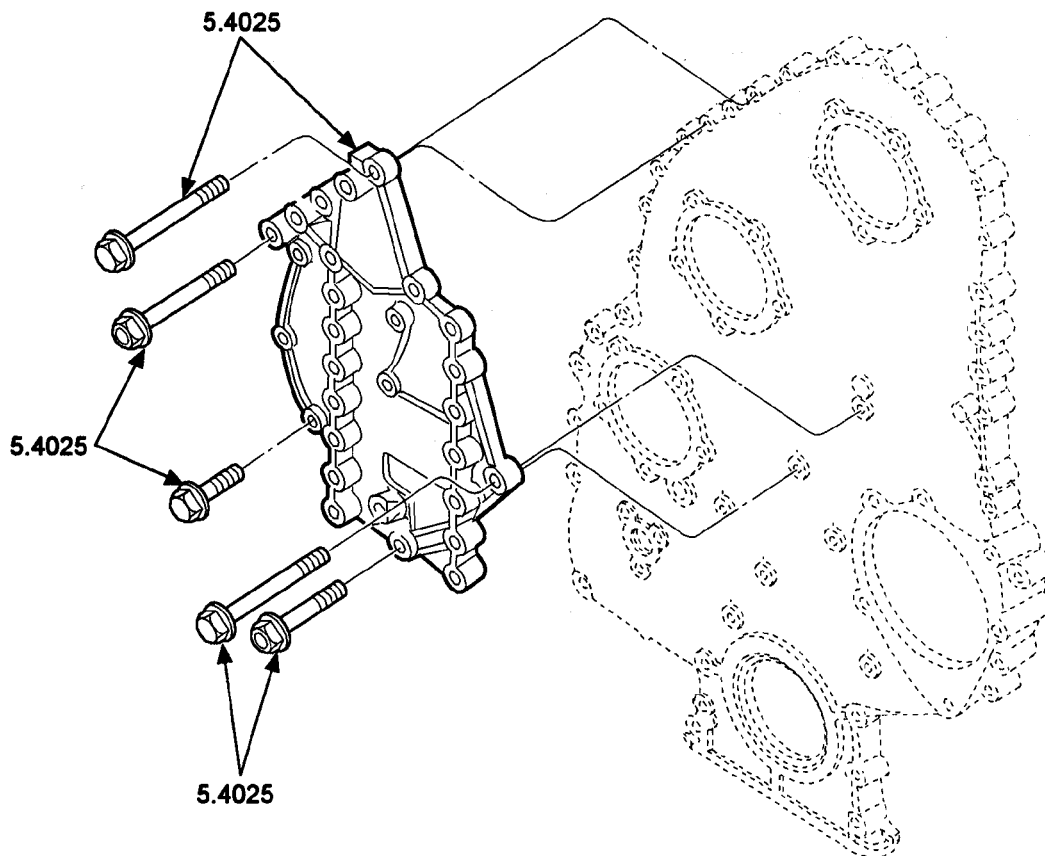


FIG. 1 FAN MOUNTING SUPPORT

24084

FIG. 1 OF 5.4000A

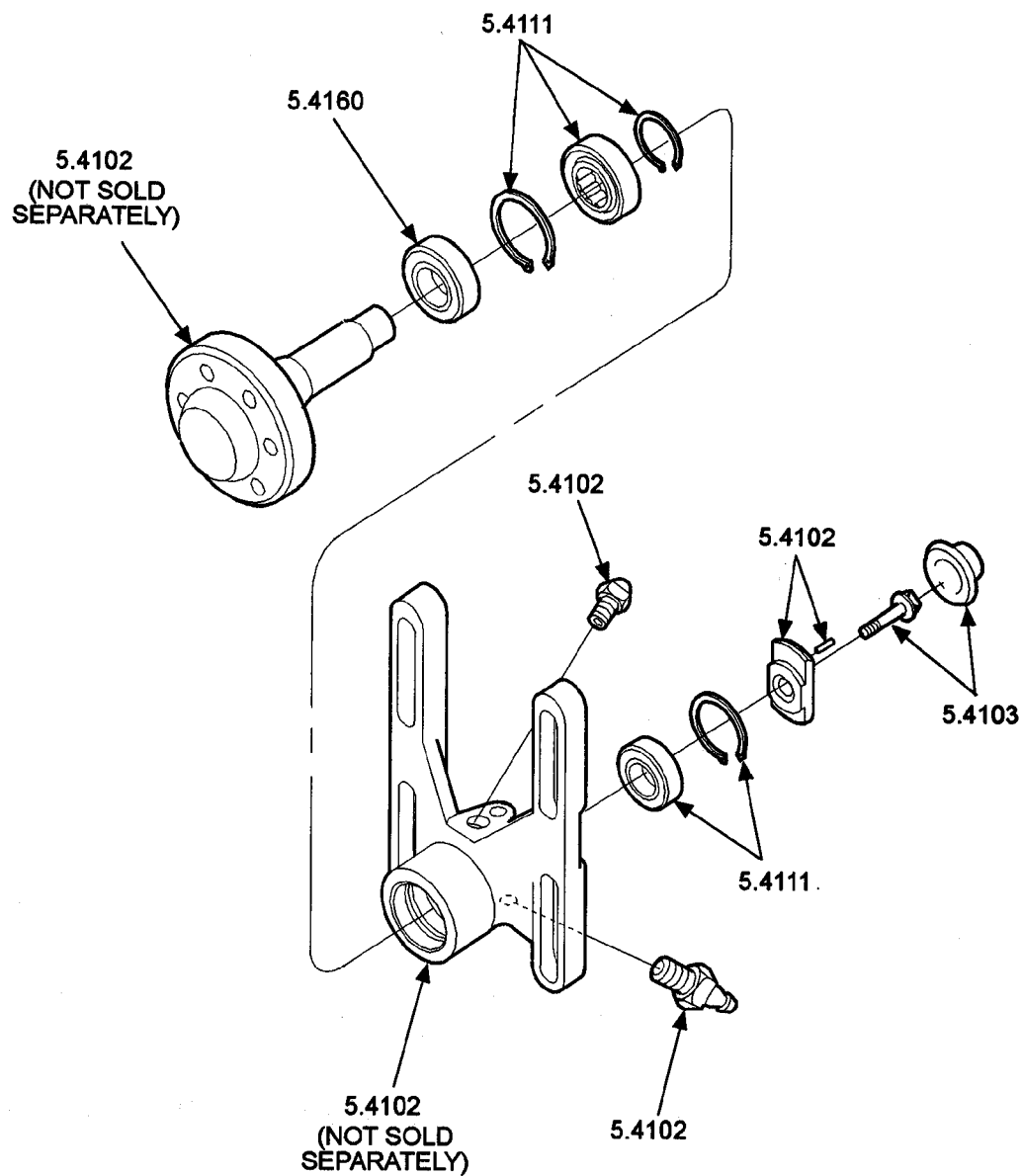
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 2 SPINDLE AND HOUSING ASSEMBLY

24007

FIG. 2 OF 5.4000A

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1 6 7 2	1 6 8 0	1 6 8 1	1 6 8 2	1 7 1 5	1 7 2 5	1 7 5 2	1 7 5 6	1 7 5 8	1 7 6 5	1 7 9 8	1 7 9 9
REFER TO ENGINEERING DRAWING # 06K01 6014															
	5.4010	BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED													
	NPN	(CUSTOMER FURNISHED)BLADE		1	1	1	1	1		1		1		1	
	5.4015	PULLEY AND HUB ASSY., FAN													
	23517290	PULLEY FAN DRIVE 228 OD K16 POLY-V													1
	8929219	PULLEY, FAN 3 GROOVE, 178.0 DIA.				1									
	23504095	PULLEY, FAN 3 GROOVE 178.0 DIA.											1		
	23511252	PULLEY, FAN								1					
	5103966	PULLEY, FAN 3 GROOVE	A1					1							
	8929208	PULLEY, FAN DRIVE, 1 GROOVE, 230.0 O.D.				1									
	8929218	PULLEY, FAN 3 GROOVE 203.0, 1 GROOVE 254.0					1								
	23505050	BOLT, M10 X 1.5 X 85								1					
	5130037	BOLT, 1/2"-13X8 1/2" (5.4290)						1							1
	8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)			1	1	1			1			1		
	9409036	BOLT, 3/8"-24 X 1.125" (12.9001)				6	6						6	6	
	103341	WASHER, 3/8"								1					
	5103860	PULLEY AND HUB ASSY.	A1												1
	8929169	WASHER (12.9190)				6	6						6	6	
	5.4018	SPACER, PULLEY													
	8929209	SPACER, 7.40 D.				1									
	11509511	BOLT, M8 X 1.25 X 20 MM				4									
	5.4025	SUPPORT, FAN MOUNTING													
1	23511356	SUPPORT, W/UPR RT BOLT BOSS					1		1	1		1	1		
	23512810	BRACKET												1	
	8929533	= SUPPORT		1											
1	8929753	SUPPORT			1	1									
	8929007	COVER, UPPER RIGHT REAR & FRONT CAM ACCESS.									1				
	8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.									1				
	11504822	BOLT, M8 X 1.25 X 30		4	5	5	5		5	5	5	5	5	5	
1	11509512	BOLT, M8 X 1.25 X 25 MM		1											
1	11509525	BOLT, M10 X 1.5 X 110 MM		2	2	2	2		2	2		2	2		
	11509526	BOLT, M10 X 1.5 X 130 MM												2	
1	11509527	BOLT, M10 X 1.5 X 160 MM			1	1									
	11509530	BOLT, M14 X 2.0 X 40 MM									1				
1	11509531	BOLT, M14 X 2.0 X 60 MM		1	1	1	1		1	1		1	1		
1	11509533	BOLT, M14 X 2.0 X 100 MM		1	1	1	1		1	1		1	1		
	11509799	BOLT, M10 X 1.5 X 70 MM									2				
	11513960	BOLT, M10 X 1.5 X 145 MM					1		1	1		1	1		
	23505050	BOLT, M10 X 1.5 X 85													1

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				6	6	6	6	7	7	7	7	7	7	7	7
				7	8	8	8	1	2	5	5	5	6	9	9
		5.4000A FAN		2	0	1	2	5	5	2	6	8	5	8	9
	5.4025	SUPPORT, FAN MOUNTING (CONT.)													
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)									1				
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)									1				
1	8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)										1			
	11506101	NUT, M10 X 1.5			1			1	1	1	1	1			
		=OBSOLETE.													
	5.4102	SPINDLE ASSY., FAN DRIVE													
		A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102, 5.4103, 5.4111 AND 5.4160.													
	23512811	SPINDLE ASSY.	B1											1	
	8929538	SPINDLE ASSY.				1	1						1		
2	455322	FITTING, 1/8" VENT (12.9540)				1	1						1		
2	271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)				1	1						1		
2	455734	PIN, SPRING 1/8" X 3/4" (12.9300)				1	1								
	11500944	BOLT, M12X1.75X40.0 MM				4	4						4	3	
	5131978	WASHER, .53 X 1.00 (1.5001)				4	4						4		
2	8929214	WASHER				1	1						1		
	23512917	BOLT, M14X2.0X90.0 (12.9001)												1	
	5.4103	HOUSING, FAN DRIVE SPINDLE													
2	8929215	PLATE				1	1						1		
2	8920419	BOLT, M10X1.5"X45.0" SPECIAL (1.2070)				1	1						1		
	5.4111	BEARING, FAN SPINDLE													
2	7451005	BEARING, ROLLER (12.4048)				1	1								
2	23506569	BEARING, BALL (OPTIONAL TO 8929530)				1	1						1		
2	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60				1	1						1		
2	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)				1	1						1		
2	8929063	RING, INT RETAINING 3.734" O.D. (12.4048)				1	1						1		
2	8929216	RING, INT RETAINING 1.618" O.D. (5.4111)				1	1						1		
	8929820	BEARING, ROLLER											1		
	5.4112	CLUTCH ASSY., FAN													
	23511243	CLUTCH ASSY.								1					
	23511287	CONDUIT, 3/8" I.D. X .503" O.D. X 59.00" L.								1					
	23511286	TUBE, 1/4" O.D X 60.00" L.								1					
	23511244	BRACKET								1					
	2476234	CLIP, .500" DIA. 3/8" BOLT (4.4330)								2					
	11500944	BOLT, M12X1.75X40.0 MM								4					
	11503454	BOLT, M10 X 1.5 X 20.0								2					
	11504822	BOLT, M8 X 1.25 X 30								3					

[illegible]

			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.													
				1 8 0 3	1 8 0 8	1 8 1 4	1 8 2 5	1 8 2 8	1 8 2 9	1 8 5 3						
	5.4010	BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED NPN (CUSTOMER FURNISHED)BLADE							1	1						
	5.4015	PULLEY AND HUB ASSY., FAN														
	8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)	1	1												
	9409036	BOLT, 3/8"-24 X 1.125" (12.9001)	6	6		6										
	23517135	PULLEY,FAN 16 GRV K SEC 178 .D	1													
	8929169	WASHER (12.9190)	6	6		6										
	5.4025	SUPPORT, FAN MOUNTING														
1	23511356	SUPPORT, W/UPR RT BOLT BOSS	1	1	1	1	1	1	1	1	1					
	11504822	BOLT, M8 X 1.25 X 30	5	5	5	5	5	5	5	5	5					
1	11509525	BOLT, M10 X 1.5 X 110 MM	2	2	2	2	2	2	2	2	2					
1	11509531	BOLT, M14 X 2.0 X 60 MM	1	1	1	1	1	1	1	1	1					
1	11509533	BOLT, M14 X 2.0 X 100 MM	1	1	1	1	1	1	1	1	1					
	11513960	BOLT, M10 X 1.5 X 145 MM	1	1	1	1	1	1	1	1	1					
1	8929585	BOLT, M10 X 1.5 X 380.0 (12.9001)				1	1	1	1	1	1					
	11506101	NUT, M10 X 1.5			1			1	1	1	1					
	5.4102	SPINDLE ASSY., FAN DRIVE A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102, 5.4103, 5.4111 AND 5.4160.														
	8929538	SPINDLE ASSY.	1	1		1										
2	455322	FITTING, 1/8" VENT (12.9540)	1													
2	271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)	1													
	11500944	BOLT, M12X1.75X40.0 MM	4	4		4										
	5131978	WASHER, .53 X 1.00 (1.5001)	4	4		4										
2	8929214	WASHER	1													
	5.4103	HOUSING, FAN DRIVE SPINDLE														
2	8929215	PLATE	1													
2	8920419	BOLT, M10X1.5"X45.0" SPECIAL (1.2070)	1													
	5.4111	BEARING, FAN SPINDLE														
2	23506569	BEARING, BALL (OPTIONAL TO 8929530)	1													
2	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1													
2	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1													
2	8929063	RING, INT RETAINING 3.734" O.D. (12.4048)	1													
2	8929216	RING, INT RETAINING 1.618" O.D. (5.4111)	1													
	8929820	BEARING, ROLLER	1													

			TYPES							
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1
				8	8	8	8	8	8	8
				0	0	1	2	2	2	5
				3	8	4	5	8	9	3
	5.4112	CLUTCH ASSY., FAN								
	23520965	CLUTCH FAN 1.29:1 RATIO HORTON	C1					1		
	23522739	CLUTCH FAN 1.29:1							1	
	11500944	BOLT, M12X1.75X40.0 MM							1	
	11509795	BOLT M12 1.75 X 40.0 HEX FLG PHOS CTD					3	3	3	
	23520963	CLUTCH FAN 1.20:1 RATIO	C1				1			
2	5.4160	SEAL, FAN SPINDLE								
	8929213	SEAL	1							
	5.4340	TENSIONER, BELT								
	23520964	TENSIONER FAN 3 GRV 114.3D					1	1		
	23522580	TENSIONER FAN BELT 3 GRV 114.3D HORTON							1	
	11500944	BOLT, M12X1.75X40.0 MM					1	1		
	23513004	BOLT, M12X1.75X55.0 HEX.					1	1	1	
	5131978	WASHER, .53 X 1.00 (1.5001)					2	2	2	
	5.4342	BRACKET, FAN BELT TENSIONER ASSY.								
	11509511	BOLT, M8 X 1.25 X 20 MM					3	3	3	
	23520916	BRACKET FAN TENS & COLLAR SUPT S60					1	1	1	

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B																
		5.4000A FAN																		
		(Note: Assemblies are shown for component reference only.)																		
	5.4015	PULLEY AND HUB ASSY., FAN																		
	5103966	PULLEY, FAN 3 GROOVE	1																	
	5103860	PULLEY AND HUB ASSY.		1																
	5.4090	BRACKET, FAN SHAFT																		
	5103868	BRACKET (W/INTEGRAL SHAFT) (5.4100)		1																
	5.4100	SHAFT, FAN																		
	5103868	BRACKET (W/INTEGRAL SHAFT) (5.4100)	1																	
	5.4110	BEARING, FAN SHAFT																		
	191758	FITTING, 1/8" GREASE (12.9540)	1																	
	23503535	BEARING (OUTER)	1	1																
	23503704	BEARING, BALL SGL. ROW (1.7655)	1	1																
	5.4140	RETAINER, FAN SHAFT BEARING																		
	5104317	WASHER, 2.22" DIA.X.32" THK.	1																	
	9409060	BOLT, 1/2"-20 X 1 1/2" (12.9001)	1	1																
	9422755	RING, SNAP (5.4368)	1	1																
	5.4150	SEAL, FAN SHAFT																		
	5103951	SEAL	1	1																
	5.4180	CAP AND SPACER, FAN HUB																		
	455322	FITTING, 1/8" VENT (12.9540)	1	1																
	5100890	CAP (IN PULLEY)	1	1																
	5.4235	HUB, FAN																		
	191758	FITTING, 1/8" GREASE (12.9540)		1																
	5103862	PULLEY (HUB) (3 GROOVE, 9.12" DIA.)		1																
	5103863	PULLEY (HUB) (3 GROOVE, 7.28" DIA.)	1																	
	5104317	WASHER, 2.22" DIA.X.32" THK.		1																

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A
		(Note: Assemblies are shown for component reference only.)	
	5.4102	SPINDLE ASSY., FAN DRIVE	
		A SPINDLE ASSY. INCLUDES ITEMS IN 5.4102, 5.4103, 5.4111 AND 5.4160.	
	23512811	SPINDLE ASSY.	1
	271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)	1
	455322	FITTING, 1/8" VENT (12.9540)	1
	8929214	WASHER	1
	5.4103	HOUSING, FAN DRIVE SPINDLE	
	8920419	BOLT, M10X1.5"X45.0" SPECIAL (1.2070)	1
	8929215	PLATE	1
	5.4111	BEARING, FAN SPINDLE	
	23506569	BEARING, BALL (OPTIONAL TO 8929530)	1
	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1
	8929063	RING, INT RETAINING 3.734" O.D. (12.4048)	1
	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1
	8929216	RING, INT RETAINING 1.618" O.D. (5.4111)	1
	8929820	BEARING, ROLLER	1
	5.4160	SEAL, FAN SPINDLE	
	8929213	SEAL	1

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES												
			A	B											
	5.4112	CLUTCH ASSY., FAN													
	23520963	CLUTCH FAN 1.20:1 RATIO	1												
	23520965	CLUTCH FAN 1.29:1 RATIO HORTON		1											
	23524151	VALVE, FAN SOLENOID	1	1											

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	A	B																
		5.4000A FAN																		
		(Note: Assemblies are shown for component reference only.)																		
	5.4325	IDLER, PULLEY FAN BELT WITH ADJUSTING ARM																		
	23517291	SPINDLE ASSY.,BELT	1																	
	23512820	SPINDLE SUPPORT ASSY.		1																
	5.4327	COVER, IDLER PULLEY																		
	23512887	CAP, IDLER PULLEY		1																
	455322	FITTING, 1/8" VENT (12.9540)		1																
	5.4330	PULLEY, FAN BELT IDLER																		
	23512809	PULLEY, BELT TENSIONER 86.0 DIA.	1																	
	23512822	PULLEY, IDLER 10K & 16K POLY-V		1																
	5.4332	BEARING, FAN BELT IDLER PULLEY																		
	23509204	LOCKRING		1																
	23512817	BEARING, BALL DBL ROW BELT TENSIONER	1																	
	23512986	BEARING, BALL DEEP GROOVE IDLER HUB		1																
	8929820	BEARING, ROLLER		1																
	5.4334	SPACER, FAN BELT IDLER PULLEY BEARING																		
	23512876	WASHER, IDLER SUPPORT BEARING		1																
	8920105	BOLT, M10X1.5X35.0 MM LOCK THD.	1	1																
	8929214	WASHER	1																	
	5.4335	SEAL, FAN BELT IDLER PULLEY BEARING																		
	23512989	SEAL, OIL LIP IDLER PULLEY		1																
	5.4336	RETAINER, FAN BELT IDLER PULLEY BEARING																		
	23512987	RING, RETAINER IDLER HUB BRG. INNER		1																
	23512988	RING, RETAINER IDLER HUB BRG. OUTER		1																
	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1																	
	9418788	RING, SNAP		1																

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES													
			A	B												
		5.4000A FAN														
		(Note: Assemblies are shown for component reference only.)														
	5.4337	BRACKET, FAN BELT IDLER PULLEY														
	23512821	SUPPORT, IDLER PULLEY		1												
	23517288	SPINDLE,BELT	1													
	271283	FITTING, 45 DEG.-1/8" GREASE (12.9540)		1												
	8924380	PLUG, 1/8"-27 PIPE (12.9550)		1												
	5.4341	SHAFT, FAN BELT IDLER PULLEY														
	23512816	SHAFT, BELT TENSIONER	1													

				TYPES										
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7 1 0	7 2 6									
5.5000A HEAT EXCHANGER OR KEEL COOLING														
FOR OPTION # 743, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 13D00 6005														
	5.5001	TANK, EXPANSION												
	23525075	HEAT EXCHANGER ASSY. (NOT SERVICED, USE COMPONENTS)	A1		1									
	23523279	HEAT EXCHANGER ASSY., CLG SYS RAW WATER		1										
	23507178	SIGHT, GLASS			2									
	23519175	SENSOR ASSY., 1/4" OPTICAL CLS			1									
	179887	BOLT, 1/2"-13X1 3/4"		4										
	103323	LOCKWASHER, 1/2"		4										
	23509483	WASHER, 33/64"X1 1/16"X1/8"		4										
	8925710	DRAINCOCK, 3/8" (12.9510)		1										
	5.5010	ELECTRODE, HEAT EXCHANGER												
	8517479	ELECTRODE ASSY. (2 1/8" L. ELECT.) (5.5010)			1									
	5.5070	BRACKET, HEAT EXCHANGER MOUNTING												
	23525045	BRACKET, ISOLATOR MOUNT ALUM			2									
	23525064	BRACKET, SUPPORT ENGINE FRONT HEAT EXCHANGER			1									
	23525065	ISOLATOR, VIBRATION			6									
	11509513	BOLT, M8 X 1.25 X 40 MM			10									
	120687	BOLT, #10-24X1/2"			24									
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)			4									
	5.5140	CAP, EXPANSION TANK												
	6410879	CAP,(7# PRESSURE)			1									
	5.5190	TUBE, EXPANSION TANK OVERFLOW												
	5158825	TUBE (DEV. L. 4 1/4") (2.2300)			1									
	8924153	ELBOW, 5/16"-90 DEG. INV. FL. TUBE (12.9480)			1									
	5141723	CLIP, 1 1/2" TUBE, 3/8" BOLT (4.1522)			1									
	23502029	CLAMP HOSE 1-1 3/4 I.D. RANGE			4									
	11505299	BOLT, M10 X 1.5 X 30.0 MM			2									
	5146049	SPACER, .340" L. (3.4103)			1									
	11506101	NUT, M10 X 1.5			1									
	5.5193	BOTTLE, COOLANT RECOVERY												
	23508730	RECOVERY ASSY., COOLANT			1									
	23514156	LABEL, CAUTION COOLANT NOTICE			1									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 1 0	7 2 6										
		5.5000A HEAT EXCHANGER OR KEEL COOLING													
	5.5220	TUBE, HEAT EXCHANGER FRESH WATER INLET CONNECTION													
	23525046	TUBE, THERMOSTAT TO HEAT EXCHANGER			1										
	23516589	CLIP, 2.5 ID SPECIAL			1										
	5.5240	HOSE, HEAT EXCHANGER FRESH WATER INLET CONNECTION													
	23514667	HOSE 2.50 X 3.75			2										
	5.5250	CLAMP, HEAT EXCHANGER FRESH WATER INLET CONNECTION HOSE													
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)			4										
	5.5260	TUBE, HEAT EXCHANGER FRESH WATER INLET INTERMEDIATE													
	23525062	TUBE ASSY., HEAT EXCHANGER INLET			1										
	23525059	GASKET, HEAT EXCHANGER WATER INLET			1										
	11509512	BOLT, M8 X 1.25 X 25 MM			4										
	5.5300	GASKET, HEAT EXCHANGER FRESH WATER OUTLET CONNECTION													
	23525061	GASKET, HEAT EXCHANGER WATER OUTLET			1										
	5.5310	HOSE, HEAT EXCHANGER FRESH WATER OUTLET CONNECTION													
	23523687	HOSE, 1.00 X 33.00 SAE J20R1 SLCN BLUE		1											
	5137329	BRACKET CLIP 90 DEG. (7.1005)		1											
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)		1											
	106261	WASHER, 5/16"X3/4"		1											
	11509511	BOLT, M8 X 1.25 X 20 MM		1											
	11507036	NUT, M8 X 1.25		1											

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7 1 0	7 2 6										
		5.5000A HEAT EXCHANGER OR KEEL COOLING													
	5.5320	CLAMPS, HEAT EXCHANGER FRESH WATER OUTLET CONNECTION HOSE													
	23507896	CLAMP, 13/16"-1 1/2" I.D. CONSTANT TORQUE	2												
	5.5330	TUBE ASSY., HEAT EXCHANGER FRESH WATER OUTLET													
	23525063	TUBE ASSY., HEAT EXCHANGER COOLER OUTLET			1										
	23508461	HOSE ASSY., #4X11.58" L.	1												
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF	1												
	8924145	CONNECTOR, 1/4" TUBE - 90 DEG.	1												
	11509512	BOLT, M8 X 1.25 X 25 MM			4										
	5.5363	BRACKET, RAW WATER INLET MANIFOLD CLIP													
	23525267	BRACKET, RAW WATER TUBE FRONT SUPPORT			1										
	23525268	BRACKET, RAW WATER TUBE REAR SUPPORT			1										
	11504822	BOLT, M8 X 1.25 X 30			2										
	11509511	BOLT, M8 X 1.25 X 20 MM			3										
	11507036	NUT, M8 X 1.25			2										
	5.5376	TUBE, GEAR HOUSING WATER OUTLET													
	23525238	TUBE, RAW WATER TO GEAR COOLER			1										
	23502122	HOSE, 1.50"X2.26" L. SILICONE			1										
	23506962	CLAMP, HOSE 1 1/4"-2 1/8"			2										
	5124733	CLIP, 1 1/2" (4.8180)			2										
	5157412	SPACER, 7/8"X13/32"X1/4"			2										
	5.5377	TUBE, RAW WATER PUMP INLET													
	23522833	TUBE ASSY., RAW WATER PUMP TO HEAT EXCH	1												
	23522834	TUBE, HEAT EXCH TO WATER PUMP	1												
	23511711	HOSE, 2.50"X3.25" L.	3												
	23514665	HOSE 2.00 X 3.00 SAE 20R1 SLCN BLUE	2												
	23514666	HOSE, 2.00 X 4.50 SAE 20R1 SLCN BLUE	1												
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)	6												
	23503066	CLAMP, 1.75"-2.62" DIA. HOSE	6												
	8927581	BOLT, 3/8"-16X1.135" (12.9001)	2												

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	7										
				1	2										
		5.5000A HEAT EXCHANGER OR KEEL COOLING		0	6										
	5.5378	GASKET, WATER FLANGE AT GEAR AND/OR RAW WATER PUMP													
	23501104	GASKET		1											
	5.5380	TUBE, RAW WATER PUMP OUTLET													
	23508445	HOSE ASSY., #4X9.58" L.		1											
	23508459	HOSE ASSY., #4X25.58"L.		1											
	23522835	TUBE, THERM HSG TO HEAT EXCH		1											
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF		4											
	8924140	DRAINCOCK, 1/4" (12.9510)		2											
	5.5425	COOLER ASSY., FUEL													
	23525118	COOLER ASSY., FUEL			1										
	5.5440	TUBE, HEAT EXCHANGER WATER INLET													
	23525092	TUBE, HEAT EXCHANGER WATER PUMP INLET			1										
	5.5470	HOSE, HEAT EXCHANGER RAW WATER INLET TUBE													
	23525057	HOSE, 2.5 ID HEAT EXCHANGER RAW WATER INLET			1										
	23525255	HOSE, 3.0 ID X 3.5 L.			2										
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)			4										
	5.5480	CLAMP, HEAT EXCHANGER RAW WATER INLET TUBE HOSE													
	23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE			4										
	5.5550	TUBE, HEAT EXCHANGER RAW WATER OUTLET													
	23525049	TUBE ASSY., RAW WATER HEAT EXCHANGER OUTLET			1										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				7 1 0	7 2 6										
		5.5000A HEAT EXCHANGER OR KEEL COOLING													
	5.5580	HOSE, HEAT EXCHANGER RAW WATER OUTLET TUBE													
	23525211	HOSE, 2.50 ID RAW WATER PUMP OIL TO BOSCLR			1										
	23516589	CLIP, 2.5 ID SPECIAL			2										
	5.5590	CLAMP, HEAT EXCHANGER RAW WATER OUTLET TUBE HOSE													
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)			2										

ASSEMBLIES

[illegible]

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	6	8							
5.6000A RAW WATER PUMP				1	6	8							
FOR OPTION # 179, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 13H00 6004													
5.6001		PUMP ASSY., RAW PUMP											
	23522698	PUMP, RAW WATER FLG MT JABSCO		1									
	23525078	PUMP ASSY., RAW WATER			1								
	23508461	HOSE ASSY., #4X11.58" L.			1								
	23515145	GASKET AIR COMP 53/71/92 S50/60			1								
	8924145	CONNECTOR, 1/4" TUBE - 90 DEG.			1								
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF			1								
	11509528	BOLT, M12 X 1.75 X 30 MM			1								
	11513811	BOLT, M12 X 1.75 X 20 MM		1									
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.		4	4								
	8927581	BOLT, 3/8"-16X1.135" (12.9001)		2									
	5180370	WASHER, .55" I.D. COPPER (7.4969)		1									
5.6010		HOUSING, RAW WATER PUMP DRIVE											
	23503880	DRIVE ASSY., AIR COMPRESSOR	A1		1								
	11505299	BOLT, M10 X 1.5 X 30.0 MM			1								
	23505050	BOLT, M10 X 1.5 X 85			5								
5.6012		GASKET, RAW WATER PUMP ADAPTOR											
	8929299	GASKET, ACCESSORY FRONT			1								
5.6080		GASKET, RAW WATER PUMP HOUSING											
	23501104	GASKET		1									
5.6420		COUPLING, RAW WATER PUMP DRIVE											
	5143616	COUPLING		1	1								
5.6520		HOSE, RAW WATER PUMP INLET CONNECTION											
	23508461	HOSE ASSY., #4X11.58" L.		1									
5.6573		ELBOW, RAW WATER PUMP INLET											
	5123361	ELBOW (5.5377)		1									
	8927322	ELBOW			1								
	113177	PLUG, 3/4" PIPE (12.9550)			1								
	186622	BOLT, 3/8"-16 X 1.25"			4								
	103321	LOCKWASHER, 3/8"			4								

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1 6 0	1 6 8										
		5.6000A RAW WATER PUMP													
	5.6574	GASKET, RAW WATER PUMP INLET ELBOW													
	23500483	GASKET, RAW WATER PUMP INLT/OTLT			1										
	5.6575	ELECTRODE, RAW WATER PUMP													
	8515850	ELECTRODE ASSY. (3 3/8" L. ELECT.)			1										
	8517479	ELECTRODE ASSY. (2 1/8" L. ELECT.) (5.5010)	1												
	5.6580	TUBE, RAW WATER PUMP OUTLET													
	23525143	TUBE & ELBOW ASSY.			1										
	186622	BOLT, 3/8"-16 X 1.25"			4										
	103321	LOCKWASHER, 3/8"			4										
	5.6581	GASKET, RAW WATER PUMP OUTLET TUBE													
	23500483	GASKET, RAW WATER PUMP INLT/OTLT			1										

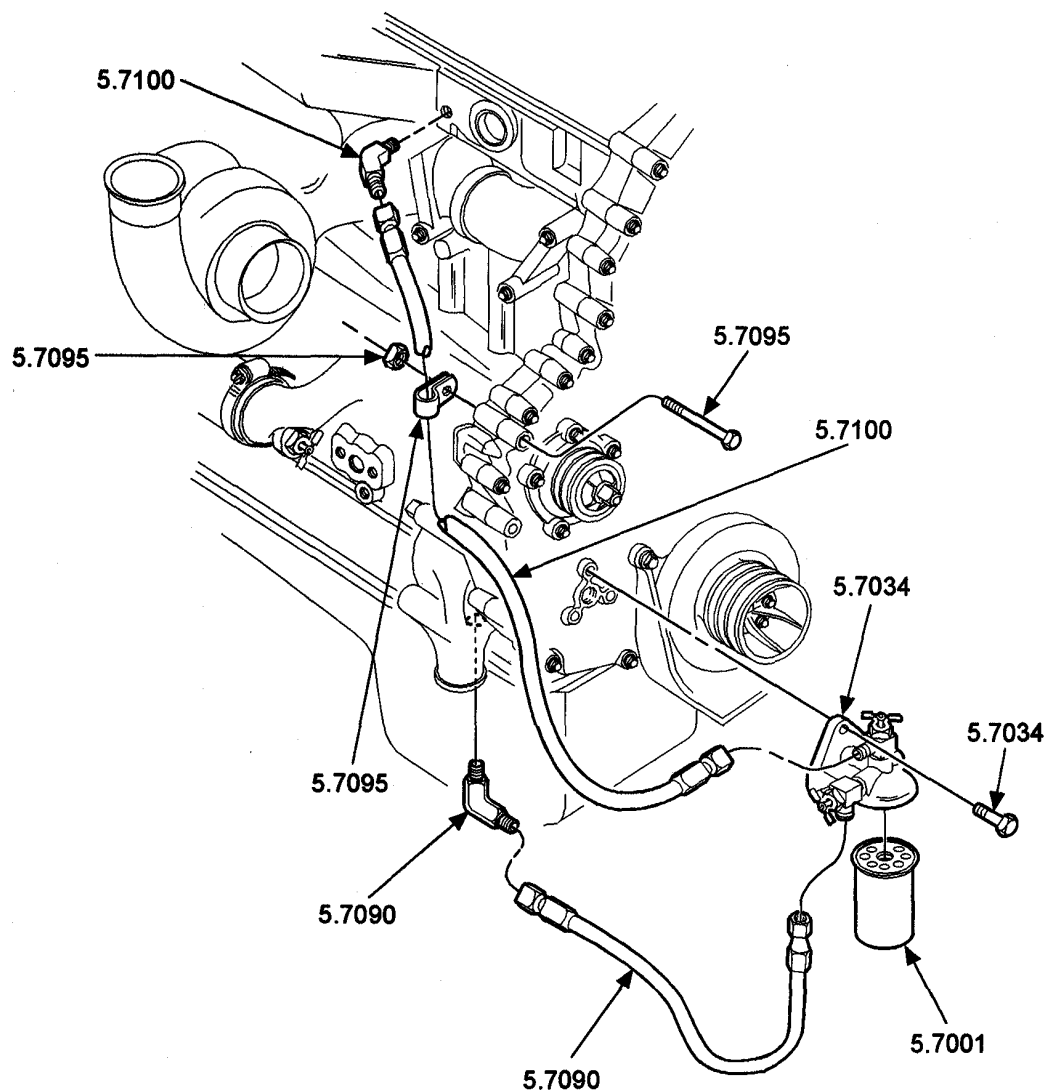
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 WATER FILTER ASSEMBLY

21796

FIG. 1 OF 5.7000A

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	4	4	5	5	5	6	6	6	6	6	7	7
				6	7	2	3	6	0	1	2	4	8	6	7
	5.7001	FILTER ASSY., WATER													
1	23507189	ELEMENT, COOLANT 16 OZ.		1		1		1		1		1	1	1	1
	23511260	FILTER ASSY					1								
	8924998	ELBOW (90 DEG.)					1	1	1	1					
	5.7010	INSTALLATION KIT, WATER FILTER													
	23511184	KIT (FOR ALL SERIES 60, EXCEPT FORD TRUCK)		1											1
	23511360	KIT (FOR ALL SERIES 60 IN FORD TRUCKS)				1									
	5.7020	ELEMENT, WATER FILTER													
	23507545	ELEMENT, COOLANT 4 OZ.		1	1	1								1	1
	5.7034	COVER, WATER FILTER													
1	23507291	ADAPTOR ASSY. (INCLUDES VALVES & INSERT IN 5.7034)	A1	1	1				1	1					1
	23509406	ADAPTOR ASSY. (INCLUDES VALVES, INSERT & ELBOW IN 5.7034)				1		1							
	23511259	ADAPTOR					1								
	23512316	ADAPTOR ASSY.(INCLUDES INSERT IN 5.7034)									1				
	23513486	ADAPTOR ASSY.(INCLUDES INSERT IN 5.7034)										1	1		
	23514400	ADAPTOR ASM.COOLANT FILT	A1											1	1
	23507190	VALVE ASSY., COOLANT FILTER RELIEF		2	2	2	2	2	2	2		2	2	2	2
	23507292	INSERT, 5.0 DIA.		1	1	1		1	1	1	1	1	1	1	1
	8924168	ELBOW, 90 DEG. STREET, 1/4" PIPE (12.9590)				1		1							
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC					2								
	11504822	BOLT, M8 X 1.25 X 30				3									
	11509511	BOLT, M8 X 1.25 X 20 MM						3							
1	11509512	BOLT, M8 X 1.25 X 25 MM		3	3				3	3	3				3
	179845	BOLT, 3/8"-16 X 1.75"					4								
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)										2	2	2	
	103321	LOCKWASHER, 3/8"					4								
	11507036	NUT, M8 X 1.25				3									

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				4 6	4 7	5 2	5 3	5 6	6 0	6 1	6 2	6 4	6 8	7 6	7 7
	5.7000A WATER FILTER														
	5.7090	HOSE, WATER FILTER INLET													
	BAHH0126	HOSE ASSY., #6 X 14.9 H&H										1			
1	BAHH0100	HOSE ASSY., #6 X 12.3" LG		1	1				1	1			1	1	1
	23507192	HOSE ASSY., #6 X 33.42"				1		1							
	23511262	HOSE ASSY.					1								
1	8924998	ELBOW (90 DEG.)		1	1	1						1			
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)													1
	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)												1	
	5.7095	CLAMP, WATER FILTER INLET HOSE													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1	1	1		1	1	1			1	1	1
	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)											1		
	5101020	STRAP, NYLON (2.5255)				1						1			
	11504986	BOLT, M8 X 1.25 X 14 MM											1		
	11509511	BOLT, M8 X 1.25 X 20 MM						1							
1	11509525	BOLT, M10 X 1.5 X 110 MM		1	1	1									1
	23505051	BOLT M10 X 1.5 X 170							1	1					
	5163014	SPACER, 13/32" X 1 1/4" (7.4005)							1	1					
1	11506101	NUT, M10 X 1.5		1	1	1									1
	5.7100	HOSE, WATER FILTER OUTLET													
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H											1	1	
	23505202	HOSE ASSY., #6 X 14.92" LG				1									
	23505203	HOSE ASSY., #6 X 14.44" LG						1							
	23505908	HOSE ASSY., 21.94" L. (REMOTE MOUNT BY-PASS TUBE)										1			
1	23507192	HOSE ASSY., #6 X 33.42"		1	1				1	1					1
	23511261	HOSE ASSY.					1								
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE											1		
1	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)		1	1	1	1	1	1	1		1	1		1
	8924159	BUSHING, 3/4"X3/8" RED. (12.9570)											1		
	8924378	BUSHING PIPE RED 3/4 X 1/4										1			
	8925033	ELBOW, 45 DEG. STREET, 1/4" PIPE (12.9590)												1	
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)												1	

				TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	8	8	8	8	8	9	9	9	9	1	1	
				9	0	1	3	5	9	1	4	5	8	0	0	2
1	5.7001	FILTER ASSY., WATER														
	23507189	ELEMENT, COOLANT 16 OZ.		1	1	1	1	1		1				1	1	
	8924998	ELBOW (90 DEG.)		1												
	5.7010	INSTALLATION KIT, WATER FILTER														
	23511360	KIT (FOR ALL SERIES 60 IN FORD TRUCKS)		1												
	5.7020	ELEMENT, WATER FILTER														
	23516489	FILTER, COOLANT NEED RELEASE (8-20 GALLON SYSTEMS)									1	1	1			
1	5.7034	COVER, WATER FILTER														
	23507291	ADAPTOR ASSY. (INCLUDES VALVES & INSERT IN 5.7034)	A1		1				1		1			1		
	23509406	ADAPTOR ASSY. (INCLUDES VALVES, INSERT & ELBOW IN 5.7034)		1				1								
	23514400	ADAPTOR ASM.COOLANT FILT	A1			1	1					1				
	23519199	ADAPTOR ASSY., COOL FLTR RT FRT BLK	A1							1						
	23520352	ADAPTOR ASSY.,COOLER FILTER	A1										1		1	
	23507190	VALVE ASSY., COOLANT FILTER RELIEF		2	2	2	2		2							
	23507292	INSERT, 5.0 DIA.		1	1	1	1		1							
	8924168	ELBOW, 90 DEG. STREET, 1/4" PIPE (12.9590)		1												
	11509511	BOLT, M8 X 1.25 X 20 MM		3				3								
1	11509512	BOLT, M8 X 1.25 X 25 MM			3				3		3			3		
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)				2	2			2		2	2		2	
	5.7080	BRACKET, WATER FILTER MOUNTING														
	11506101	NUT, M10 X 1.5		2				2								
	23516926	BRACKET, COOL FILTER CAST IRON		1				1								
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)		2				2								
	5.7090	HOSE, WATER FILTER INLET														
	BAHH0100	HOSE ASSY., #6 X 12.3" LG			1	1	1		1	1	1	1				
	CAHH0100	HOSE ASSY., #6 X 12.30"L H&H FC234												1		
	FAHH0115	HOSE ASSY., #6 X 14" LG.											1			
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H		1				1								
	23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)				1	1			1		1				
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)			1			1								
	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)							1							

				TYPES											
				7	8	8	8	8	8	9	9	9	9	1	1
				9	0	1	3	5	9	1	4	5	8	0	0
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
5.7000A WATER FILTER															
		CLAMP, WATER FILTER INLET HOSE													
1	2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)		1	1	1	1	1	1		1			1	
	11509511	BOLT, M8 X 1.25 X 20 MM		1				1					1		
1	11509525	BOLT, M10 X 1.5 X 110 MM									1				
	23505051	BOLT M10 X 1.5 X 170			1				1					1	
	5163014	SPACER, 13/32" X 1 1/4" (7.4005)			1				1					1	
1	11506101	NUT, M10 X 1.5									1			1	
	11507036	NUT, M8 X 1.25											1		
	2236474	CLIP, #10										1			
	5144934	CLIP, .438" DIA. 3/8" BOLT											2		
5.7100 HOSE, WATER FILTER OUTLET															
	BAHH0246	HOSE ASSY., #6 X 26.9 H&H			1	1	1		1		1				
	BAHP0121	HOSE ASSY., #6 X 14.4" H&P		1				1							
	CAHH0248	HOSE ASSY., #6 X 27.1" LG												1	
	FAHP0190	HOSE ASSY.,#6 X21.40 LG H&P FC186											1		
	MAHH0269	HOSE ASM NO 6 X 26.9 H&H										1			
	MAHP0237	HOSE ASSY.,#6 X 23.7 H&P							1						
	23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE						1		1	1			1	
1	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)		1	1	1		1	1	1	1	1	2	1	
	8924378	BUSHING PIPE RED 3/4 X 1/4											1		
	8925033	ELBOW, 45 DEG. STREET, 1/4" PIPE (12.9590)					1								
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)					1								

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1 0 3	1 0 4	1 0 5	1 0 7	1 0 8					
		5.7000A WATER FILTER											
1	5.7001 23507189	FILTER ASSY., WATER ELEMENT, COOLANT 16 OZ.					1						
	5.7020 23516489	ELEMENT, WATER FILTER FILTER, COOLANT NEED RELEASE (8-20 GALLON SYSTEMS)		1	1								
	5.7034 23511259	COVER, WATER FILTER ADAPTOR			1								
	23514400	ADAPTOR ASM.COOLANT FILT	A1				1						
	23519199	ADAPTOR ASSY., COOL FLTR RT FRT BLK	A1			1		1					
	23523193	ADAPTOR ASSY., COOL FLTR MT RT FRT CYL BLK	A1	1									
	23507190	VALVE ASSY., COOLANT FILTER RELIEF			2								
	8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC			2								
	179845	BOLT, 3/8"-16 X 1.75"			4								
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)		2		2	2	2					
	103321	LOCKWASHER, 3/8"			4								
	5.7090 BAHH0100	HOSE, WATER FILTER INLET HOSE ASSY., #6 X 12.3" LG		1		1	1	1					
	23511262	HOSE ASSY.											
	23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)		1		1	2	1					
	8929832	ELBOW, 90 DEG. 3/8 INV FLD TUBE 3/8 PIPE (12.9480)			1								
1	5.7095 2362448	CLAMP, WATER FILTER INLET HOSE CLIP .688" DIA 3/8" BOLT CTD (12.8554)					1						
	5.7100 BAHH0246	HOSE, WATER FILTER OUTLET HOSE ASSY., #6 X 26.9 H&H					1						
	BAHP0085	HOSE ASSY., #6 X 10.9" LG H&P		1									
	BAHP0213	HOSE ASSY., #6 X 23.7" H&P				1		1					
	23511261	HOSE ASSY.			1								
	8924998	ELBOW (90 DEG.)		1				1					
1	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)			1	1	1						
	8924378	BUSHING PIPE RED 3/4 X 1/4		1									
	23525725	SLEEVE, HEAT WRAP COOLANT FILTER HOSE					1						

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES													
			A	B	C	D	E									
		5.7000A WATER FILTER														
	5.7034	COVER, WATER FILTER														
1	23507291	ADAPTOR ASSY. (INCLUDES VALVES & INSERT IN 5.7034)	1													
	23514400	ADAPTOR ASM.COOLANT FILT		1												
	23519199	ADAPTOR ASSY., COOL FLTR RT FRT BLK			1											
	23520352	ADAPTOR ASSY.,COOLER FILTER				1										
	23523193	ADAPTOR ASSY., COOL FLTR MT RT FRT CYL BLK					1									
	23507190	VALVE ASSY., COOLANT FILTER RELIEF	2	2	2											
	23507292	INSERT, 5.0 DIA.	1	1	1	1	1									
	23517075	VALVE ASSY.,FUEL SHUTOFF				2	2									
	23525565	FITTING, COOLANT FILTER				1										

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

DETROIT DIESEL

SERIES 60 ENGINE

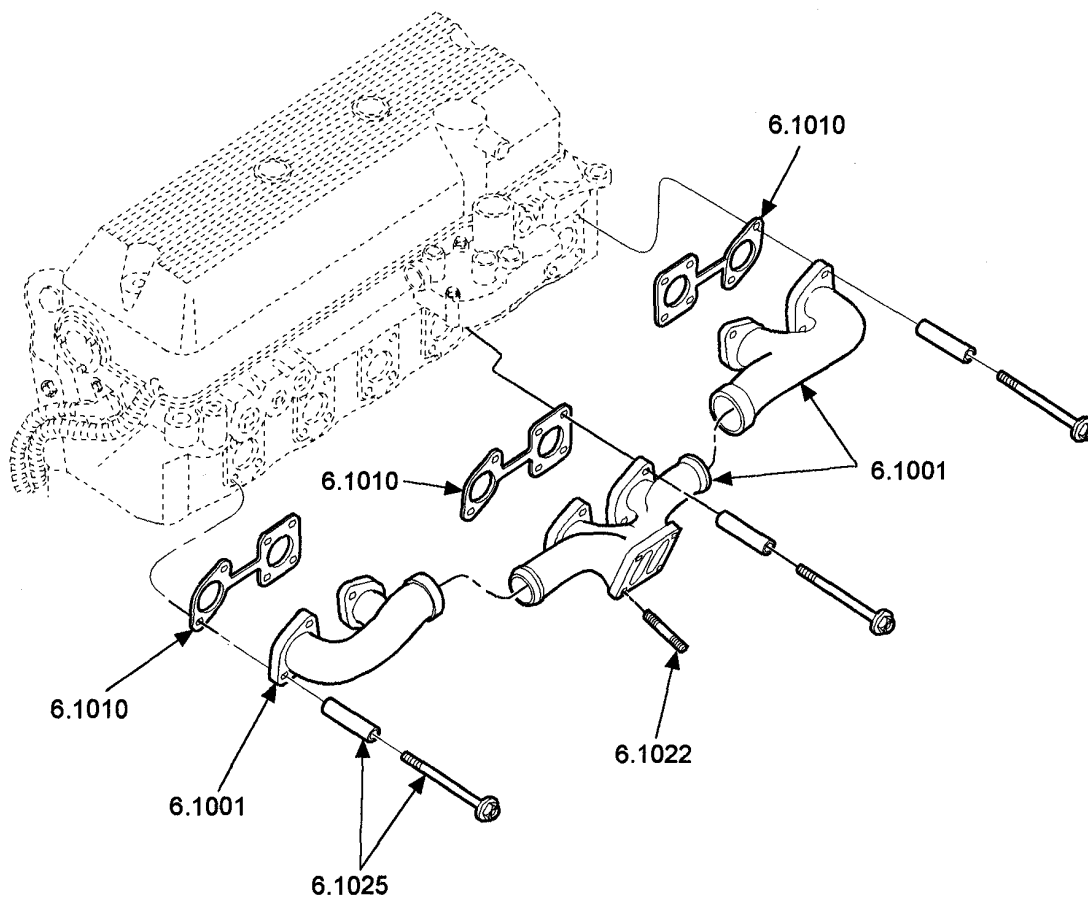


FIG. 1 EXHAUST MANIFOLD ASSEMBLY

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FIG. 1 OF 6.1000A

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				5	5	5	5	6	6	6	6	6	6	6	6
				7	7	8	9	1	1	1	2	3	3	4	4
		6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS		5	6	5	4	3	4	5	0	5	6	1	2
FOR OPTION # 783, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 06L00 6049															
	6.1001	MANIFOLD, EXHAUST													
1	8929381	MANIFOLD, FRONT, 1 PORT		1		1	1	1		1	1				
1	8929383	MANIFOLD, REAR, 2 PORT		1	1	1	1	1	1	1	1				
1	8929521 *	MANIFOLD, FRONT, 1 PORT HI MOUNT (23512896) 1			1				1						
1	8929632 @	MANIFOLD, CENTER, 3 PORT MED MOUNT (23512897)		1				1			1				
1	23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT										1			
1	23511222	MANIFOLD, 3 PC FRT & REAR END										1	2	2	2
	23511976	MANIFOLD, 3 PC CENTER LOW MOUNT												1	
1	23511977	MANIFOLD, CENTER, 3 PORT											1		1
1	23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT										1			
1	8929522 *	MANIFOLD, CENTER, 3 PORT HI MOUNT (23512896)			1				1						
1	8929579	MANIFOLD, CENTER, 3 PORT				1									
1	8929591 *	MANIFOLD, CENTER, LOW MNT (23513470)					1			1					
		* NOT SERVICED, USE 3 PIECE MANIFOLD KIT SHOWN IN PARENTHESES.													
		@ NOT SERVICED, FOR COMMERCIAL APPLICATIONS USE 3 PIECE MANIFOLD KIT SHOWN IN PARENTHESES.													
	6.1010	GASKET, EXHAUST MANIFOLD													
1	23511666	GASKET, 2 PORT (GRAPHITE)										3	3	3	3
1	8929765 B	GASKET, 3 PORT B NOT SERVICED, USE 3-23511666 GASKETS.		2	2	2	2	2	2	2	2				
	6.1022	STUD, EXHAUST MANIFOLD TO TURBOCHARGER													
1	8929425	STUD, M10 X 1.5 X 50.0		4	4	4	4								
1	23507438	STUD, M10 X 1.5 X 44.0						4	4	4	4	4	4	4	4
	6.1025	BOLT, EXHAUST MANIFOLD TO HEAD													
1	8929357	BOLT, M10 X 1.5 X 120 (12.9001)		12	12	12	12	12	12	12	10	12	12	12	10
	23509744	STUD, BOLT M10X1.5X120.0									2				2
1	23511667	SPACER										12	12	12	12

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				6 4 6	6 5 0	6 5 3	6 5 4	6 5 9	6 6 7	6 7 4	6 7 7	6 9 4	6 9 9	7 0 4	7 1 4
	6.1001	MANIFOLD, EXHAUST													
1	23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT					1		1		1				
1	23511222	MANIFOLD, 3 PC FRT & REAR END			2	2	1	2	1		1			2	
	23511976	MANIFOLD, 3 PC CENTER LOW MOUNT				1									
1	23511977	MANIFOLD, CENTER, 3 PORT			1			1							
1	23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT					1				1				
	23514898	MANIFOLD 3 PC.CENTER SET-BACK							1						
	23516106	MANIFOLD EXH 3PC FRT&RR END S60 MOLY								2		1	1		
	23516107	MANIFOLD EXH 3PC CTR SECT MED MT MOLY								1					
	23519347	MANIFOLD EXH 3PC FRT&RR END MOLY										1	1		
	23519348	MANIFOLD EXH 3PC CTR SECT HI MT MOLY										1	1		
	23520859	MANIFOLD EXH CTR SECT SPL ERF												1	
	23521498	MANIFOLD EXH 3PC CTR THERMAL WRAP MOLY M													1
	23521499	MANIFOLD EXH 3PC FRT LEG THERMAL WRA													1
	23521702	MANIFOLD EXH 3PC RR LG LEG THERMAL WRA													1
	6.1010	GASKET, EXHAUST MANIFOLD													
1	23511666	GASKET, 2 PORT (GRAPHITE)			3	3	3	3	3	3	3	3	3	3	3
	6.1022	STUD, EXHAUST MANIFOLD TO TURBOCHARGER													
	23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G										4			
1	8929425	STUD, M10 X 1.5 X 50.0									4				
1	23507438	STUD, M10 X 1.5 X 44.0			4	4	4	4	4	4				4	4
	6.1025	BOLT, EXHAUST MANIFOLD TO HEAD													
1	8929357	BOLT, M10 X 1.5 X 120 (12.9001)			9	9	9	7	9	7	9	9	7	12	12
	23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G											4		
1	23511667	SPACER			12	12	12	12	12	12	12	12	12	12	
	6.1171	HEAT SHIELD, EXHAUST MANIFOLD													
	23513775	HEAT SHIELD EXH MFLD REAR		1	1	1	1	1	1	1	1				
	23519124	SHIELD HEAT EXH MANIFOLD RR										1	1	1	
	23509744	STUD, BOLT M10X1.5X120.0		3	3	3	3	5	3	5	3	3	5	6	
	11506101	NUT, M10 X 1.5		3	3	3	3	3	3	3	3	3	5	6	
	23520972	HEAT SHIELD EXH MANIF FRT											1		

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				7	7	7	7	7	7				
				1	2	2	3	5	5				
		6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS		5	2	7	5	2	5				
	6.1001	MANIFOLD, EXHAUST											
	23525013	MANIFOLD ASSY.						1					
1	23511221	MANIFOLD, 3 PC END FRONT HIGH MOUNT			1	1							
1	23511222	MANIFOLD, 3 PC FRT & REAR END	2		1	1							
1	23511977	MANIFOLD, CENTER, 3 PORT	1										
1	23511978	MANIFOLD, 3 PC CENTER SECTION HIGH MOUNT			1	1							
	23521702	MANIFOLD EXH 3PC RR LG LEG THERMAL WRA					1						
	23523406	MANIFOLD, EXH CENTER SECTION HIGH MOUNT					1						
	23523717	MANIFOLD, EXH 3PC FRT 7 RR END MOLY INSL					1						
	23525254	MANIFOLD, EXHAUST WATER COOLED							1				
	8924159	BUSHING, 3/4"X3/8" RED. (12.9570)							1				
	8925710	DRAINCOCK, 3/8" (12.9510)							1				
	23507438	STUD, M10 X 1.5 X 44.0						4					
	6.1002	BRACKET, EXHAUST MANIFOLD SUPPORT											
	23525112	BRACKET, TURBO/EXHAUST MANIFOLD SUPPORT						1	1				
	23525139	BRACKET, UPPER MANIFOLD SUPPORT						1					
	23525252	BRACKET, REAR UTILITY							1				
	23525114	SPACER, EXHAUST MANIFOLD SUPPORT BRACKET						1	1				
	11505299	BOLT, M10 X 1.5 X 30.0 MM							10				
	11509795	BOLT M12 1.75 X 40.0 HEX FLG PHOS CTD						7					
	23512918	BOLT, M14X2.0X120.0 (12.9001)						4	4				
	23525205	BOLT, M10 X190MM						9					
	23525206	BOLT, M10 X 215MM						5					
	271566	BOLT, 5/8"-11X3" (12.9001)						6					
	8922143	BOLT, 5/8"-11X2.25" (12.9001)							6				
	23525213	STUD & NUT M10 X 215MM						4					
	103334	LOCKWASHER, 5/8"						6					
	6.1010	GASKET, EXHAUST MANIFOLD											
1	23511666	GASKET, 2 PORT (GRAPHITE)	3	3	3	3							
	23525090	GASKET, EXHAUST MANIFOLD						3	3				
	6.1022	STUD, EXHAUST MANIFOLD TO TURBOCHARGER											
	23517241	STUD SPL M10X1.5X58.5 EXH MAN S50G			4	4							
1	23507438	STUD, M10 X 1.5 X 44.0					4						

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	7	7	7	7	7				
				1	2	2	3	5	5				
		6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS		5	2	7	5	2	5				
	6.1025	BOLT, EXHAUST MANIFOLD TO HEAD											
1	8929357	BOLT, M10 X 1.5 X 120 (12.9001)		9	7	12	12	18	18				
	23507438	STUD, M10 X 1.5 X 44.0		4									
1	23511667	SPACER		12	12	12	12		18				
	6.1171	HEAT SHIELD, EXHAUST MANIFOLD											
	23519124	SHIELD HEAT EXH MANIFOLD RR		1	1	2							
	23509744	STUD, BOLT M10X1.5X120.0		3	5	2							
	11506101	NUT, M10 X 1.5		3	5								
	23520972	HEAT SHIELD EXH MANIF FRT			1	1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				4	4	4	5	5	5				
		6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS		5	6	9	0	1	1				
				4	3	3	9	0	1				
	6.2088	HOSE, EXHUST FLANGE DRAIN											
	23525301	HOSE, 2.5ID X 24.0 LG							1				
	23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)							2				
	6.2095	CONNECTION, FLEXIBLE EXHAUST											
	23519255	CONNECTOR 5"O.D X 4				1							
	5140347	CONNECTOR, 5.00" O.D. X 4.00"L. (6.2095)	1										
	23506159	CLAMP,5.88" DIA.	1	1	1								
	6.2110	FLANGE, EXHAUST FLANGE WATER OUTLET											
	23525296	ELBOW, EXH WAT COOL PORT						1					
	23525297	ELBOW, EXH WAT COOL STDB					1						
	23501148	CLAMP, CRAB EXHAUST (V53/V71/V92)					4	4	4				
	186622	BOLT, 3/8"-16 X 1.25"					4	4	4				
	103321	LOCKWASHER, 3/8"					4	4	4				
	6.2112	GASKET, EXHAUST FLANGE WATER OUTLET											
	23501147	GASKET					1	1	1				

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

7

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		7.1000A BATTERY CHARGING GENERATOR		1	1	2	2	2	2	2	3	3	3	3	3
				9	9	6	6	7	8	8	9	0	0	0	0
				0	3	1	9	6	3	4	3	1	2	4	7
FOR OPTION # 2608, REFER TO ENGINEERING DRAWINGS # 06Y01 6098 AND # 06Y01 6111															
	7.1001	GENERATOR ASSY.													
	NPN	(CUSTOMER FURNISHED)GENERATOR		1	1	1	1					1		1	
	1117816	GENERATOR, 12V., 105A 30SI						1							
	1117863	GENERATOR, 24V 270A 50DN							1		1				
	1117909	GENERATOR, 12V, 130A													1
	R0459108	ALTERNATOR, 12V 105A 30SI (REMANUFACTURED)						AR							
	R0459110	ALTERNATOR, 24V 70A 21SI (REMANUFACTURED)								AR			AR		
	R0459111	ALTERNATOR, 12V 130A 21SI (REMANUFACTURED)													AR
	R0459130	ALTERNATOR, 24V 270A 50DN (REMANUFACTURED)							AR		AR				
	186631	BOLT, 1/2"-13 X 2.25"										2			
	186725	BOLT, 1/2"-13 X 1.50"							2						
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)							2						1
	455001	BOLT, 1/2"-13 X 2.00" (12.9001)									2				
	9427945	BOLT, 1/2"-13 X 6.25" (12.9001)						1							1
	5132715	WASHER, .53"X.94"X.12" (1.3140)						2							3
	103323	LOCKWASHER, 1/2"						1	4		4				2
	23509483	WASHER, 33/64"X1 1/16"X1/8"							2						
	114505	NUT, 1/2"-13 (12.9120)						1							
	102637	NUT, 1/2"-13													1
	7.1003	TUBE, GENERATOR OIL DRAIN													
	23511765	HOSE ASSY., #16 X 23.40"							1		1				
	2492119	ELBOW, 90 DEG. 1" FLD TUBE 3/4" NPTF							1		1				
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)							1		1				
	11509511	BOLT, M8 X 1.25 X 20 MM							1		1				
	11507036	NUT, M8 X 1.25							1		1				
	7.1004	TUBE, GENERATOR OIL SUPPLY													
	23504343	HOSE ASSY., #5 X 25.25"							1		1				
	9402713	CONNECTOR, 1" FLD TUBE 1" NPTF ZINC (12.9380)							1		1				
	5144934	CLIP, .438" DIA. 3/8" BOLT							1		1				

				TYPES											
7.1000A BATTERY CHARGING GENERATOR				2	2	2	2	2	2	2	2	2	2	2	2
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	2	2	2	2	2	2	3	3	3	3
				9	9	6	6	7	8	8	9	0	0	0	0
				0	3	1	9	6	3	4	3	1	2	4	7
	7.1012	HOSE, GENERATOR VENT													
	5133163	HOSE ASSY., #4 X 21" (12.4065)							1		1				
	23511760	COVER							1						
	8924218	CONNECTOR, INVERTED FLARED 5/16" TUBE 1/4"-18							1		1				
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE,1/4"NPTF							1		1				
	8924149	ELBOW, 90 DEG. 1/4" FLARED TUBE 1/8"NPTF (12.9480)							1		1				
	5144934	CLIP, .438" DIA. 3/8" BOLT									1				
	8929169	WASHER (12.9190)									1				
	7.1500	PULLEY, GENERATOR													
	23511249	PULLEY (2 GROOVE) 95.0MM DIA.						1							
	23512289	PULLEY, 12K POLY-V 50DN									1				
	5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE									1				1
	7.1575	BELT, GENERATOR DRIVE													
	23509691	BELT (51"L.) (2 STRAND)	AR	AR	AR	AR									
	23511238	BELT SET (2 BELTS) .500" X 31.50"						1							
	23516105	BELT, POLYVEE 72"L. 12 RIB NEOPRENE									1				
	23520032	BELT ALTNR DRIVE PWRBAND GATES 50 IN S60	AR	AR	AR	AR									1
	5141155	BELT SET (2 BELTS) .500" X 71.00" (1.3320)							1						
	7.1580	STRAP, GENERATOR ADJUSTING													
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254										1		1	
	8929605	= STRAP	1												
	23507487	ROD, ADJ M16X2.0X381.0 L.				1	1			1					1
	23511669	LINK, ADJUSTING ROD				1	1			1		1		1	1
	103345	WASHER, 5/8"				2	2			2		2		2	2
	11501055	NUT, M16X2.0				2	2			2		2		2	2
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP													1
	11505299	BOLT, M10 X 1.5 X 30.0 MM												1	
	11509799	BOLT, M10 X 1.5 X 70 MM	1		1	1				1					1
	23511251	BOLT, ADJUSTING ROD 1/2"-13						1							
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)										1			
	11506101	NUT, M10 X 1.5										1			
		= NOT SERVICED, USE 1-23504446 ROD, 1-23511669 LINK, 2-103345 WASHERS AND 2-11501055 NUTS.													

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 1 9 0	2 1 9 3	2 2 6 1	2 2 6 9	2 2 7 6	2 2 8 3	2 2 8 4	2 2 9 3	2 3 0 1	2 3 0 2	2 3 0 4	2 3 0 7
	7.1582	7.1000A BATTERY CHARGING GENERATOR													
	23511241	BRACKET						1							
	179881	BOLT, 1/2"-13 X 1.00"						1							
	187425	BOLT, 7/16"-14 X 5.25"						1							
	5132715	WASHER, .53"X.94"X.12" (1.3140)						3							
	103322	LOCKWASHER, 7/16"						1							
	103323	LOCKWASHER, 1/2"						1							
	114505	NUT, 1/2"-13 (12.9120)						2							
	271501	NUT, 7/16"-14 (1.7132)						1							
	7.1595	BRACKET, GENERATOR MOUNTING													
	23511250	BRACKET						1							
	23516961	BRACKET FREON COMP MT S50/60												1	
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS		1	1	1							1		1
	23521125	BRACKET, GENERATOR LOW MT									1			1	
	23521128	BRACKET, GEN MTG 50DN FOR 7/16" BOLTS KEYWAY								1					
	11505299	BOLT, M10 X 1.5 X 30.0 MM						5							
	11509528	BOLT, M12 X 1.75 X 30 MM						1							
	11509531	BOLT, M14 X 2.0 X 60 MM						1							
	186289	BOLT, 3/8"-16 X 5.00"					3								
	23505050	BOLT, M10 X 1.5 X 85						2							
	23511239	BOLT, 3/8"-16 X 6.0"					1								
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)						1							
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD		2	2	2		3		3	2	2	4	2	
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)						1							
	23509483	WASHER, 33/64"X1 1/16"X1/8"						2							
	8929169	WASHER (12.9190)						2							
	8929328	WASHER, 16.8" X 25.8" (12.9190)						3							
	103321	LOCKWASHER, 3/8"					4								
	103323	LOCKWASHER, 1/2"						1							
	23500708	NUT, M12 X 1.75						1							
	23521131	NUT M10 HEX FLANGE		2	2	2		2	3		3	2	2	4	2
	7.1596	SUPPORT, GENERATOR BRACKET													
	23511248	BRACKET						1							
	23511744	BRACKET									1				
	23511743	BRACE									1				
	11509528	BOLT, M12 X 1.75 X 30 MM									4				
	186622	BOLT, 3/8"-16 X 1.25"						1							
	103321	LOCKWASHER, 3/8"						1							
	11505299	BOLT, M10 X 1.5 X 30.0 MM									3				
	23509744	STUD, BOLT M10X1.5X120.0						2							

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				2	2	2	2	2	2	2	2	2	2	2	2
		7.1000A BATTERY CHARGING GENERATOR		1	1	2	2	2	2	2	2	3	3	3	3
				9	9	6	6	7	8	8	9	0	0	0	0
				0	3	1	9	6	3	4	3	1	2	4	7
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23511801	TENSIONER ASSY., MANUAL									1				
	23523011	KIT, 50DN AUTO TENSIONER FOR T DRIVE									AR				
	23511767	BOLT, M10 X 1.5 X 170.00MM (12.9001)									1				
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)									2				
	7.1935	SUPPORT, BELT TENSIONER BRACKET													
	23511704	BRACKET									1				
	23505050	BOLT, M10 X 1.5 X 85									2				
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)									1				
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)									1				

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	3	3	3
				1	1	2	3	3	4	4	5	5	5	6	6
				0	1	7	2	8	4	6	0	3	6	3	7
	7.1001	GENERATOR ASSY.													
	NPN	(CUSTOMER FURNISHED)GENERATOR													
	1117860	ALTERNATOR 12V, 300A 50 DN		1	1	1			1			1			
	1117863	GENERATOR, 24V 270A 50DN									1				
	19010002	GENERATOR, 24V.75AMP.(NG.C.W./C.C.W.26SI)					1								
	19010182	GEN CHRGR AC 24V70A NG CW/CCW 21SI											1		1
	R0459109	ALTERNATOR, 12V 100A 21SI (REMANUFACTURED)								AR					
	R0459110	ALTERNATOR, 24V 70A 21SI (REMANUFACTURED)												AR	
	R0459114	ALTERNATOR, 12V 300A 50DN (REMANUFACTURED)	AR									AR			
	R0459130	ALTERNATOR, 24V 270A 50DN (REMANUFACTURED)									AR				
	R0459148	ALTERNATOR, 24V 75A 26SI (REMANUFACTURED)						1							
	186631	BOLT, 1/2"-13 X 2.25"		2							2	2			
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)					1	1		1				1	1
	455001	BOLT, 1/2"-13 X 2.00" (12.9001)		2							2	2			
	9427945	BOLT, 1/2"-13 X 6.25" (12.9001)					1	1		1				1	1
	5132715	WASHER, .53"x.94"x.12" (1.3140)					3	3		3				3	3
	103323	LOCKWASHER, 1/2"	4				2	2		2	4	4		2	2
	102637	NUT, 1/2"-13								1				1	1
	7.1003	TUBE, GENERATOR OIL DRAIN													
	23511765	HOSE ASSY., #16 X 23.40"	1												
	2492119	ELBOW, 90 DEG. 1" FLD TUBE 3/4" NPTF	1												
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)	1								1	1			
	11509511	BOLT, M8 X 1.25 X 20 MM	1								1	1			
	11507036	NUT, M8 X 1.25	1								1	1			
	BELM0194	HOSE ASSY., #16 X 23.4" LG L&M FC350									1	1			
	9402830	ELBOW, 45 DEG. 1" FL. TUBE (12.9480)									1	1			
	7.1004	TUBE, GENERATOR OIL SUPPLY													
	23504343	HOSE ASSY., #5 X 25.25"	1								1	1			
	9402713	CONNECTOR, 1" FLD TUBE 1" NPTF ZINC (12.9380)	1								1	1			
	5144934	CLIP, .438" DIA. 3/8" BOLT	1								1	1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	3	3	3
				1	1	2	3	3	4	4	5	5	5	6	6
				0	1	7	2	8	4	6	0	3	6	3	7
	7.1012	HOSE, GENERATOR VENT													
	5133163	HOSE ASSY., #4 X 21" (12.4065)		1							1	1			
	8924218	CONNECTOR, INVERTED FLARED 5/16" TUBE 1/4"-18		1							1	1			
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF		1							1	1			
	8924149	ELBOW, 90 DEG. 1/4" FLARED TUBE 1/8"NPTF (12.9480)		1							1	1			
	5144934	CLIP, .438" DIA. 3/8" BOLT		1							1	1			
	8929169	WASHER (12.9190)		1							1	1			
	7.1500	PULLEY, GENERATOR													
	23512289	PULLEY, 12K POLY-V 50DN		1							1	1			
	5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE					1	1		1			1	1	1
	102637	NUT, 1/2"-13					1	1							
	7.1575	BELT, GENERATOR DRIVE													
	23509691	BELT (51"L.) (2 STRAND)			AR										
	23516105	BELT, POLYVEE 72"L. 12 RIB NEOPRENE		1							1	1			
	23520032	BELT ALTNR DRIVE PWRBAND GATES 50 IN S60			AR		1	1		1					
	5126758	BELT SET (2 BELTS, 33.00" L., .500" W.)												1	
	5135298	BELT SET, .500"W.X31"L. (2 BELTS)													1
	7.1580	STRAP, GENERATOR ADJUSTING													
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254												1	1
	23514316	ROD, ADJUSTING M16 X 2.0 X 222.0 LG				1									
	23507487	ROD, ADJ M16X2.0X381.0 L.					1	1		1					
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP					1	1		1					
	23511669	LINK, ADJUSTING ROD				1	1	1		1				1	1
	103345	WASHER, 5/8"				2	2	2		2				2	2
	11501055	NUT, M16X2.0				2	2	2		2				2	2
	23515862	TUBE .625" LENGTH WITH SLIT					1	1						1	1
	11505299	BOLT, M10 X 1.5 X 30.0 MM												1	
	11509799	BOLT, M10 X 1.5 X 70 MM					1	1		1					

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	3	3	3
				1	1	2	3	3	4	4	5	5	5	6	6
				0	1	7	2	8	4	6	0	3	6	3	7
	7.1595	BRACKET, GENERATOR MOUNTING													
	23516961	BRACKET FREON COMP MT S50/60												1	
	23518911	BRACKET, GENERATOR LOW MT													1
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS					1	1							
	23521125	BRACKET, GENERATOR LOW MT				1			1					1	
	23521126	BRACKET FREON COMP MT ROTARY TRI-DRIV S60				1									
	8929807	BRACKET			1					1					
	23521128	BRACKET, GEN MTG 50DN FOR 7/16" BOLTS KEYWAY	1								1	1			
	11505299	BOLT, M10 X 1.5 X 30.0 MM				1									
	11513960	BOLT, M10 X 1.5 X 145 MM			2					2				4	2
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD	3			4	2	2	2		3	3			
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)													1
	8929169	WASHER (12.9190)													1
	11506101	NUT, M10 X 1.5			2					2					3
	23521131	NUT M10 HEX FLANGE	3			4	2	2	2		3	3		4	
	7.1596	SUPPORT, GENERATOR BRACKET													
	23511744	BRACKET	1								1	1			
	23511743	BRACE	1								1	1			
	11509528	BOLT, M12 X 1.75 X 30 MM	4								4	4			
	11505299	BOLT, M10 X 1.5 X 30.0 MM	3								3	3			
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23511801	TENSIONER ASSY., MANUAL	1												
	23515689	TENSIONER ASM ALTNTR DR BELT 12 GRV									1	1			
	23523011	KIT, 50DN AUTO TENSIONER FOR T DRIVE	AR								AR	AR			
	23511767	BOLT, M10 X 1.5 X 170.00MM (12.9001)	1								1	1			
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)	2								2	2			
	7.1935	SUPPORT, BELT TENSIONER BRACKET													
	23515696	SUPPORT BELT TENSIONER BRKT									1	1			
	23511704	BRACKET	1												
	23505050	BOLT, M10 X 1.5 X 85	2								2	2			
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)	1								1	1			
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)	1								1	1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	4	4	4
				6	7	7	8	8	8	8	8	8	1	1	1
				8	1	3	0	2	3	4	5	9	0	4	7
	7.1001	GENERATOR ASSY.													
	NPN	(CUSTOMER FURNISHED)GENERATOR		1								1			
	1117853	GENERATOR,24V,270A,50DN						1	1						
	1117860	ALTERNATOR 12V, 300A 50 DN													1
	1117863	GENERATOR, 24V 270A 50DN												1	
	19010182	GEN CHRG AC 24V70A NG CW/CCW 21SI					1								
	23516869	GEN CHRG 24V140AMP PRESTOLITE 4728JB											1		
	R0459110	ALTERNATOR, 24V 70A 21SI (REMANUFACTURED)			AR										
	R0459111	ALTERNATOR, 12V 130A 21SI (REMANUFACTURED)				AR									
	R0459130	ALTERNATOR, 24V 270A 50DN (REMANUFACTURED)						1	AR						
	186631	BOLT, 1/2"-13 X 2.25"								4				2	2
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)			1	1									
	455001	BOLT, 1/2"-13 X 2.00" (12.9001)												2	2
	9427945	BOLT, 1/2"-13 X 6.25" (12.9001)			1	1	1						1		
	5132715	WASHER, .53"X.94"X.12" (1.3140)			5	3	3						3		
	103323	LOCKWASHER, 1/2"			2	2	2		4				2	4	4
	102637	NUT, 1/2"-13			1	1									
	7.1003	TUBE, GENERATOR OIL DRAIN													
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)													1
	11509511	BOLT, M8 X 1.25 X 20 MM							1					1	1
	11507036	NUT, M8 X 1.25							1					1	1
	23517561	TUBE, FLEX OIL DRN 50 DN ALTERNATOR SST							1					1	1
	23517563	ELBOW, 90 DEG 37 FLD TUB 1 NPTF STL VIBRA							1						
	2476233	CLIP, .750" DIA., 3/8" BOLT							1						
	5130336	BRACKET (4.44"L.)							1						
	7.1004	TUBE, GENERATOR OIL SUPPLY													
	23504343	HOSE ASSY., #5 X 25.25"							1					1	1
	23517562	CONNECTOR, 37 DEG FLD TUB 1 NPTF STL VIBRA							1					1	1
	2488023	CLIP, .938" DIA., 3/8"							1					1	
	5144934	CLIP, .438" DIA. 3/8" BOLT							1					1	1
	11509511	BOLT, M8 X 1.25 X 20 MM							1						
	11507036	NUT, M8 X 1.25							1						

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	4	4	4
				6	7	7	8	8	8	8	8	8	1	1	1
				8	1	3	0	2	3	4	5	9	0	4	7
	7.1012	HOSE, GENERATOR VENT													
	FHHH0158	HOSE ASSY., #4 X 18" LG.							1						
	5133163	HOSE ASSY., #4 X 21" (12.4065)												1	1
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF							1					1	1
	8924149	ELBOW, 90 DEG. 1/4" FLARED TUBE 1/8"NPTF (12.9480)							1					1	1
	8924215	ELBOW, 5/16"-90 DEG. INV. FL. TUBE; 1/4" PIPE							1					1	1
	23509256	CLIP, 3/8" DIA. 7/16" BOLT							1						
	5144934	CLIP, .438" DIA. 3/8" BOLT												1	1
	8929169	WASHER (12.9190)												1	1
	7.1500	PULLEY, GENERATOR													
	23517306	PULLEY, ALTERNATOR DRVN 10K POLYV 50DN							1						
	23518219	PULLEY ALTNR DRV 12PK POLY-V 50DN S50/60												1	1
	5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE		1	1	1							1		
	102637	NUT, 1/2"-13				1							1		
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)				1									
	7.1575	BELT, GENERATOR DRIVE													
	23512827	BELT, POLYVEE 38.20"L. 10 RIB							1						
	23521337	BELT, POLYVEE 72"L. 12 RIB												1	1
	5135298	BELT SET, .500"W.X31"L. (2 BELTS)		1											
	5136267	BELT SET (2 BELTS, 64"L., .500" W.) (P)			1								1		
	23517835	BELT .500 X 53.00 PREM HI CAP				1									
	7.1580	STRAP, GENERATOR ADJUSTING													
	23514316	ROD, ADJUSTING M16 X 2.0 X 222.0 LG		1	1								1		
	23519910	ROD, ADJ M16 X 2.0 X 265.0 L.				1									
	23507487	ROD, ADJ M16X2.0X381.0 L.				1	1			1					
	23518897	ROD ALT ADJ M16 X 2.0 X 267.0LG S60									1				
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP												1	
	23511669	LINK, ADJUSTING ROD		1	1	1	1			1	1	1			
	103345	WASHER, 5/8"		2	2	2	2			2	2	2			
	11501055	NUT, M16X2.0		2	2	2	2			2	2	2			
	23515862	TUBE .625" LENGTH WITH SLIT					1			1					
	11505299	BOLT, M10 X 1.5 X 30.0 MM										1			
	11509526	BOLT, M10 X 1.5 X 130 MM				1									
	11509799	BOLT, M10 X 1.5 X 70 MM					1			1					
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)												1	
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)												1	
	11506101	NUT, M10 X 1.5				1								1	

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	4	4	4
				6	7	7	8	8	8	8	8	8	1	1	1
				8	1	3	0	2	3	4	5	9	0	4	7
	7.1595	BRACKET, GENERATOR MOUNTING													
	23512285	BRACKET, 50DN "V" DRIVE							1						
	23516961	BRACKET FREON COMP MT S50/60										1			
	23518911	BRACKET, GENERATOR LOW MT			1										
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS				1		1		1					
	23521125	BRACKET, GENERATOR LOW MT		1	1							1			
	8929807	BRACKET											1		
	23521122	BRACKET ALTNTR LOW MT S50 TRK&INDST					1								
	23521128	BRACKET, GEN MTG 50DN FOR 7/16" BOLTS KEYWAY												1	1
	11513960	BOLT, M10 X 1.5 X 145 MM											2		
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD			2	2		2	3	2		4		3	3
	23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60		2			2								
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)			1	1									
	23515059	SPACER 19.MMO.D.X10.7MMI.D.X12.7					1								
	5164360	WASHER (6.1001)							1						
	8929169	WASHER (12.9190)											1		
	11506101	NUT, M10 X 1.5										2			
	23521131	NUT M10 HEX FLANGE		2	4	3	2	2	3	2		4		3	3
	7.1596	SUPPORT, GENERATOR BRACKET													
	23511744	BRACKET							1					1	1
	23511743	BRACE							1					1	1
	11509528	BOLT, M12 X 1.75 X 30 MM							4					4	4
	11505299	BOLT, M10 X 1.5 X 30.0 MM							3					3	3
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23512829	TENSIONER ASSY.							1						
	23518304	TENSIONER ASM ALTNR DRV BELT 12GRV	A1											1	1
	23523011	KIT, 50DN AUTO TENSIONER FOR T DRIVE												AR	AR
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)												2	2
	23512801	BOLT, M10X1.5X110.0 (12.9001)												1	1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	2	2	2	2	2
				3	3	3	3	3	3	3	3	3	4	4	4
				6	7	7	8	8	8	8	8	8	1	1	1
				8	1	3	0	2	3	4	5	9	0	4	7
		7.1000A BATTERY CHARGING GENERATOR													
	7.1905	IDLER ASSY., GENERATOR DRIVE BELT													
	23516793	IDLER PULLEY ASSY.	B1			1							1		
	7.1935	SUPPORT, BELT TENSIONER BRACKET													
	23505050	BOLT, M10 X 1.5 X 85												2	2
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)												1	1
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)				1							1	1	1
	23512917	BOLT, M14X2.0X90.0 (12.9001)				1							1		
	23518226	SUPPORT BELT TENSIONER BRKT												1	1

				TYPES														
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	2	2	2	2	2	2	2	2	2	2	2	2	2		
				4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
				2	3	3	4	4	4	4	5	5	5	5	5	5	5	5
				6	0	5	0	2	3	8	0	1	2	3	5	5	5	5
7.1000A BATTERY CHARGING GENERATOR																		
7.1001 GENERATOR ASSY. (CUSTOMER FURNISHED)GENERATOR																		
	NPN	GENERATOR, 24V 270A 50DN				1							1					
	1117863	GENERATOR, 12V, 130A						1										
	1117909	GEN CHRG AC 24V70A NG CW/CCW 21SI	1															
	19010182	GEN CHRG 24V100A NG CW/CCW 33SI		1														
	19011153	GENERATOR, 12V 135A 34SI				1												
	19011167	ALTERNATOR 24V 100A 34SI										1				1		
	19011168	ALTERNATOR, 24V 270A 50DN (REMANUFACTURED)						AR						1				
	R0459130	GENERATOR, 12V 135A 34SI (REMANUFACTURED)										AR				AR		
	R0459198	GENERATOR, 24V 100A 34SI (REMANUFACTURED)												AR				
	R0459199	BOLT, 1/2"-13 X 2.25"										1				1		
	186631	BOLT, 1/2"-13 X 1.25" (12.9001)	1	1												1		
	442733	BOLT, 1/2"-13 X 2.00" (12.9001)						4										
	455001	BOLT, 1/2"-13 X 6.25" (12.9001)	1	1		1						1		1		1		
	9427945	WASHER, .53"X.94"X.12" (1.3140)	3	5		2	4					2		2		2		
	5132715	LOCKWASHER, 1/2"	2	2		2						2		1		1		
	103323	NUT, 1/2"-13	1	1								1		1		1		
	102637																	
7.1003 TUBE, GENERATOR OIL DRAIN																		
	GELM0187	HOSE ASSY., #16 X 23.30" LG.						1										
	9402830	ELBOW, 45 DEG. 1" FL. TUBE (12.9480)						1										
7.1004 TUBE, GENERATOR OIL SUPPLY																		
	23504343	HOSE ASSY., #5 X 25.25"						1										
	9402713	CONNECTOR, 1" FLD TUBE 1" NPTF ZINC (12.9380)						1										
	2488023	CLIP, .938" DIA., 3/8"						1										
	5144934	CLIP, .438" DIA. 3/8" BOLT						1										
	11509511	BOLT, M8 X 1.25 X 20 MM						1										
	11507036	NUT, M8 X 1.25						1										
7.1012 HOSE, GENERATOR VENT																		
	FHHH0188	HOSE ASM NO 04 X 21.00 LG H&H						1										
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF						1										
	8924149	ELBOW, 90 DEG. 1/4" FLARED TUBE 1/8"NPTF (12.9480)						1										
	8924215	ELBOW, 5/16"-90 DEG. INV. FL. TUBE; 1/4" PIPE						1										
	5161941	CLIP, 9/32" TUBE, 7/16" BOLT (7.8350)						1										
	5121905	WASHER, 15/32" DIA. HOLE						1										

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4
				2	3	3	4	4	4	5	5	5	5	5	5
				6	0	5	0	2	3	8	0	1	2	3	5
	7.1500	PULLEY, GENERATOR													
	23518219	PULLEY ALTNR DRV 12PK POLY-V 50DN S50/60						1							
	23520876	PULLEY, 1 GROOVE .50"											1		
	23520882	PULLEY-ALT 4.00D 2GRV .500W 34SI									1				1
	5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE		1	1		1								
	102637	NUT, 1/2"-13					1				1				1
	7.1575	BELT, GENERATOR DRIVE													
	23519070	BELT SET 2/HC50			1										
	23520032	BELT ALTNR DRIVE PWRBAND GATES 50 IN S60													1
	23520055	BELT, .50"W. X 29.50" L.											1		
	23521337	BELT, POLYVEE 72"L. 12 RIB						1							
	23521439	BELT, 32.5"L.									1				
	5135298	BELT SET, .500"W.X31"L. (2 BELTS)		1											
	5136267	BELT SET (2 BELTS, 64"L., .500" W.) (P)					1								
	7.1580	STRAP, GENERATOR ADJUSTING													
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254		1						1	1				
	23514316	ROD, ADJUSTING M16 X 2.0 X 222.0 LG			1		1		1				1		
	23519472	STRAP ALTERNATOR BRACKET OFFSET S60								1	1				
	23519473	STRAP ALTERNATOR BRACKET S60				1			1						
	23520290	STRAP, GENERATOR ADJ 34SI											1		
	23520883	STRAP, ALTERNATOR BRACKET 34SI										1			1
	23521137	STRAP ALTNR SUPT (BOSCH) ERF												1	
	23507487	ROD, ADJ M16X2.0X381.0 L.										1			1
	23518897	ROD ALT ADJ M16 X 2.0 X 267.0LG S60				1									
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP					1								
	23511669	LINK, ADJUSTING ROD		1	1	1	1		1	1	1	1	1		1
	103323	LOCKWASHER, 1/2"									1		1		2
	103345	WASHER, 5/8"		2	2	2	2		2	2	2	2	2		2
	23523868	SPACER													1
	23523869	SPACER													1
	11501055	NUT, M16X2.0		2	2	2	2		2	2	2	2	2		2
	23515862	TUBE .625" LENGTH WITH SLIT		1		1			1	1	1	1			1
	11503316	BOLT, M12 1.75 X 35.0				1			1						
	11505299	BOLT, M10 X 1.5 X 30.0 MM				1			1						
	11509526	BOLT, M10 X 1.5 X 130 MM											1		
	11509799	BOLT, M10 X 1.5 X 70 MM										1		1	1
	11513960	BOLT, M10 X 1.5 X 145 MM									1	1			1
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)					1			1			1		
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)		1			1								
	11506101	NUT, M10 X 1.5		1								1	1		1
	5132715	WASHER, .53"X.94"X.12" (1.3140)									3		1		3
	23520884	SPACER, 11.6ID X 25.4OD X 30.3THK										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4
				2	3	3	4	4	4	4	5	5	5	5	5
		7.1000A BATTERY CHARGING GENERATOR	6	0	5	0	2	3	8	0	1	2	3	5	
	7.1581	SPACER, GENERATOR ADJUSTING STRAP													
	23519488	SPACER 10.71D X 25.0D X 15.0THK							1	1					
	7.1582	BRACKET, GENERATOR ADJUSTING STRAP													
	23520289	BRACKET, SUPT TENS ROD/STRAP											1		
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD											2		
	455001	BOLT, 1/2"-13 X 2.00" (12.9001)											1		
	5132715	WASHER, .53"X.94"X.12" (1.3140)											2		
	23521131	NUT M10 HEX FLANGE											2		
	102637	NUT, 1/2"-13											1		
	7.1595	BRACKET, GENERATOR MOUNTING													
	23520288	BRACKET, GENERATOR 34SI LOW MT											1		
	23520886	BRACKET, GENERATOR BOSCH ERF												1	
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS				1					1				1
	23521125	BRACKET, GENERATOR LOW MT	1	1	1			1	1	1					
	23521126	BRACKET FREON COMP MT ROTARY TRI-DRIV S60						1							
	23521128	BRACKET, GEN MTG 50DN FOR 7/16" BOLTS KEYWAY													
	120502	KEY, 3/16"X7/8" WOODRUFF (12.9350)						2							
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD	2	2	4	2	2	4	3	2	2	2	2	2	2
	23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60						1							
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)			1										
	8929169	WASHER (12.9190)				1									
	11506101	NUT, M10 X 1.5				2									
	23521131	NUT M10 HEX FLANGE	2	4	4	1	3	4	3	2	2	2	2	2	2
	7.1596	SUPPORT, GENERATOR BRACKET													
	23511744	BRACKET						1							
	23511743	BRACE						1							
	11509528	BOLT, M12 X 1.75 X 30 MM						4							
	11505299	BOLT, M10 X 1.5 X 30.0 MM						3							

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7.1000A BATTERY CHARGING GENERATOR											
				2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4
				2	3	3	4	4	4	5	5	5	5	5	5
				6	0	5	0	2	3	8	0	1	2	3	5
	7.1633	STRAP, WIRE ASSY. TO GENERATOR TERMINAL													
	23521736	STRAP, GENERATOR POWER											1		
	23521727	STRAP, GENERATOR GROUND											1		
	2236474	CLIP, #10											3		
	11504986	BOLT, M8 X 1.25 X 14 MM											1		
	11509525	BOLT, M10 X 1.5 X 110 MM											2		
	179838	BOLT, 3/8"-16X7/8"											1		
	103341	WASHER, 3/8"											1		
	103321	LOCKWASHER, 3/8"											1		
	11506101	NUT, M10 X 1.5											2		
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23518304	TENSIONER ASM ALTNR DRV BELT 12GRV	A1					1							
	23521144	TENSIONER 34 SI ALTNTR BELT												1	
	23523011	KIT, 50DN AUTO TENSIONER FOR T DRIVE						AR							
	23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)						2							
	23512801	BOLT, M10X1.5X110.0 (12.9001)						1							
	23520783	BOLT												1	
	23509483	WASHER, 33/64"X1 1/16"X1/8"												1	
	7.1905	IDLER ASSY., GENERATOR DRIVE BELT													
	23516793	IDLER PULLEY ASSY.	B1				1								
	7.1935	SUPPORT, BELT TENSIONER BRACKET													
	23505050	BOLT, M10 X 1.5 X 85						2							
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)						1							
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)					1	1							
	23512917	BOLT, M14X2.0X90.0 (12.9001)					1								
	23518226	SUPPORT BELT TENSIONER BRKT						1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	6	6	6	6	7	7	7	7	8
				6	7	9	4	5	6	8	4	5	7	9	2
	7.1001	GENERATOR ASSY.													
	NPN	(CUSTOMER FURNISHED)GENERATOR			1										
	19010181	GENERATOR CHARGING 12V100ANG CW/CCW 21SI							1						
	19010182	GEN CHR G AC 24V70A NG CW/CCW 21SI					1							1	
	19011153	GEN CHR G 24V100A NG CW/CCW 33SI													1
	19011167	GENERATOR, 12V 135A 34SI							1						
	19011168	ALTERNATOR 24V 100A 34SI				1					1	1	1		
	R0459196	GENERATOR, 24V 100A 33SI (REMANUFACTURED)													AR
	R0459198	GENERATOR, 12V 135A 34SI (REMANUFACTURED)							AR						
	R0459199	GENERATOR, 24V 100A 34SI (REMANUFACTURED)					AR				AR	AR	AR		
	186631	BOLT, 1/2"-13 X 2.25"					1				2	1	1		
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)					1	1		1		1	1		
	9427945	BOLT, 1/2"-13 X 6.25" (12.9001)					1	1		1	1	1	1	1	1
	5131978	WASHER, .53 X 1.00 (1.5001)									2	2	2		
	5132715	WASHER, .53"X.94"X.12" (1.3140)					2	3		5	3	3	4	3	3
	103323	LOCKWASHER, 1/2"					1	2		2	2	2	3	2	2
	102637	NUT, 1/2"-13					1				1	1	1		
	7.1500	PULLEY, GENERATOR													
	23520882	PULLEY-ALT 4.00D 2GRV .500W 34SI										1	1		
	23521036	PULLEY ALTNTR (BOSCH) 3:1 DRIVE RATIO			1										
	23521037	PULLEY, 3.75:1 RATIO									1				
	5140070	PULLEY, 3.66" DIA, 2 GRVS .500" WIDE					1	1		1				1	1
	102637	NUT, 1/2"-13					1	1		1		1	1	1	1
	7.1575	BELT, GENERATOR DRIVE													
	23519070	BELT SET 2/HC50								1					
	23520032	BELT ALTNR DRIVE PWRBAND GATES 50 IN S60					1	1						1	
	23521142	BELT			1										
	23521143	BELT									1				
	23521439	BELT, 32.5"L.											1		
	5128587	BELT SET, 65.00" L., .500" W. (2 BELTS)													1

				TYPES												
7.1000A BATTERY CHARGING GENERATOR				2	2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4	4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	5	5	5	6	6	6	6	7	7	7	7	7	8
				6	7	9	4	5	6	8	4	5	7	9	2	
	7.1580	STRAP, GENERATOR ADJUSTING														
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254											1			
	23514316	ROD, ADJUSTING M16 X 2.0 X 222.0 LG								1						
	23519472	STRAP ALTERNATOR BRACKET OFFSET S60											1			
	23520300	STRAP, GENERATOR BRACKET 4 EAR			1											
	23520883	STRAP, ALTERNATOR BRACKET 34SI					1									
	23521138	STRAP, RR SUPPORT										1				
	23521139	STRAP, FRT SUPPORT										1				
	23507487	ROD, ADJ M16X2.0X381.0 L.					1	1						1		
	23520998	ROD ALT ADJ M16 X 2.0 X 210.0 LG		1	1											1
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP						1							1	
	23511669	LINK, ADJUSTING ROD		1	1		1	1		1		1		1	1	
	103323	LOCKWASHER, 1/2"					2						1			
	103345	WASHER, 5/8"		2	2		2	2		2		2		2	2	
	5131978	WASHER, .53 X 1.00 (1.5001)										2				
	11501055	NUT, M16X2.0		2	2		2	2		2		2		2	2	
	23515862	TUBE .625" LENGTH WITH SLIT		1	1		1			1		1		1		
	11503316	BOLT, M12 1.75 X 35.0			1											
	11505299	BOLT, M10 X 1.5 X 30.0 MM		1	1											
	11509799	BOLT, M10 X 1.5 X 70 MM					1	1						1		
	11513960	BOLT, M10 X 1.5 X 145 MM					1						1			
	23505050	BOLT, M10 X 1.5 X 85										1				
	23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60													2	
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)											1		1	1
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)								1		1				1
	11506101	NUT, M10 X 1.5					1					1	1			1
	5132715	WASHER, .53"X.94"X.12" (1.3140)					3						1			
	23520884	SPACER, 11.6ID X 25.4OD X 30.3THK					1									
	102637	NUT, 1/2"-13										1				
	7.1581	SPACER, GENERATOR ADJUSTING STRAP														
	23519488	SPACER 10.71D X 25.0D X 15.0THK											1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
				4	4	4	4	4	4	4	4	4	4	4	4
				5	5	5	6	6	6	7	7	7	7	8	8
				6	7	9	4	5	6	8	4	5	7	9	2
	7.1595	BRACKET, GENERATOR MOUNTING													
	23520827	BRACKET FREON COMP MT		1	1										
	23521030	BRACKET, GENERATOR MOUNTING 34SI								1					
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS					1	1							1
	23521121	BRACKET ALTNTR LOW MT (PA) S60 TRUCK												1	
	23521125	BRACKET, GENERATOR LOW MT		1	1					1		1			
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD		4	4		2	2		2	2	2			2
	8929169	WASHER (12.9190)													1
	23521131	NUT M10 HEX FLANGE		4	4		2	2		2	2	2		2	2
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23521144	TENSIONER 34 SI ALTNTR BELT									1				
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)													1
	23512917	BOLT, M14X2.0X90.0 (12.9001)													1
	23521795	PULLEY ASSY., IDLER DUAL ALTNR DR TENS													1
	23520783	BOLT									1				
	23509483	WASHER, 33/64"X1 1/16"X1/8"									1				

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		7.1000A BATTERY CHARGING GENERATOR		4	4	4	4	4	4	5	5	5	5	5	5
				8	8	9	9	9	9	0	2	2	2	4	5
				4	9	2	3	6	8	4	1	4	9	9	4
7.1001		GENERATOR ASSY.													
	1117860	ALTERNATOR 12V, 300A 50 DN				1	1								
	1117863	GENERATOR, 24V 270A 50DN		1	1			1							
	19011153	GEN CHR9 24V100A NG CW/CCW 33SI												1	
	19011167	GENERATOR, 12V 135A 34SI							1						
	19011172	GENERATOR ASSY., 34SI 12V 135A													1
	R0459114	ALTERNATOR, 12V 300A 50DN (REMANUFACTURED)				AR	AR								
	R0459130	ALTERNATOR, 24V 270A 50DN (REMANUFACTURED)		AR	AR			AR							
	R0459196	GENERATOR, 24V 100A 33SI (REMANUFACTURED)												AR	
	R0459198	GENERATOR, 12V 135A 34SI (REMANUFACTURED)							AR						
	186631	BOLT, 1/2"-13 X 2.25"							1						
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)							1					1	1
	455001	BOLT, 1/2"-13 X 2.00" (12.9001)		4	4	4	4	4							
	9427945	BOLT, 1/2"-13 X 6.25" (12.9001)							1					1	1
	5131978	WASHER, .53 X 1.00 (1.5001)							2					2	2
	5132715	WASHER, .53X.94X.12" (1.3140)		4	4	4	4	4	3					4	4
	103323	LOCKWASHER, 1/2"							2					3	3
	102637	NUT, 1/2"-13							1					1	1
7.1003		TUBE, GENERATOR OIL DRAIN													
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)				1	1								
	11509511	BOLT, M8 X 1.25 X 20 MM			1	1	1								
	11507036	NUT, M8 X 1.25			1	1	1								
	BELM0194	HOSE ASSY., #16 X 23.4" LG L&M FC350			1	1	1	1							
	GELM0187	HOSE ASSY., #16 X 23.30" LG.		1											
	9402830	ELBOW, 45 DEG. 1" FL. TUBE (12.9480)		1	1	1									
	9402869	ELBOW, 90 DEG. 1" FLARED TUBE (12.9390)					1	1							
7.1004		TUBE, GENERATOR OIL SUPPLY													
	23504343	HOSE ASSY., #5 X 25.25"		1	1	1	1	1							
	9402713	CONNECTOR, 1" FLD TUBE 1" NPTF ZINC (12.9380)		1	1	1	1	1							
	2488023	CLIP, .938" DIA., 3/8"		1	1			1							
	5144934	CLIP, .438" DIA. 3/8" BOLT		1	1	1	1	1							
	11509511	BOLT, M8 X 1.25 X 20 MM		1				1							
	11507036	NUT, M8 X 1.25		1				1							

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2 4 8 4	2 4 8 9	2 4 9 2	2 4 9 3	2 4 9 6	2 4 9 8	2 5 0 4	2 5 2 1	2 5 2 4	2 5 2 9	2 5 4 9	2 5 5 4
		7.1000A BATTERY CHARGING GENERATOR													
	7.1012	HOSE, GENERATOR VENT													
	FHHH0158	HOSE ASSY., #4 X 18" LG.			1	1	1	1							
	FHHH0188	HOSE ASM NO 04 X 21.00 LG H&H	1												
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF	1	1	1	1	1	1							
	8924149	ELBOW, 90 DEG. 1/4" FLARED TUBE 1/8"NPTF (12.9480)	1	1	1	1	1	1							
	8924215	ELBOW, 5/16"-90 DEG. INV. FL. TUBE; 1/4" PIPE	1	1	1	1	1	1							
	5161941	CLIP, 9/32" TUBE, 7/16" BOLT (7.8350)	1	1	1	1	1	1							
	5121905	WASHER, 15/32" DIA. HOLE	2	1	1	1	1	1							
	7.1500	PULLEY, GENERATOR													
	23518219	PULLEY ALTNR DRV 12PK POLY-V 50DN S50/60	1	1	1	1	1	1							
	23520882	PULLEY-ALT 4.00D 2GRV .500W 34SI							1						
	23525166	PULLEY, 125.0 DIA 6PK POLYVEE												1	1
	102637	NUT, 1/2"-13							1					1	1
	7.1575	BELT, GENERATOR DRIVE													
	23521000	BELT, "T" TYPE POLY VEE 12 RIB	1	1	1	1	1	1							
	23525184	BELT, POLYVEE 6 RIB												1	1
	7.1580	STRAP, GENERATOR ADJUSTING													
	23511670	ROD, ALTERNATOR ADJUSTING M16 X 2 X 254								1					1
	23520300	STRAP, GENERATOR BRACKET 4 EAR								1					
	23520883	STRAP, ALTERNATOR BRACKET 34SI							1						
	23507487	ROD, ADJ M16X2.0X381.0 L.							1						
	23525069	ROD ASSY.												1	1
	23511669	LINK, ADJUSTING ROD							1		1			1	
	103345	WASHER, 5/8"							2		2			2	2
	11501055	NUT, M16X2.0							2		2			2	2
	23515862	TUBE .625" LENGTH WITH SLIT							1		1			1	1
	11503316	BOLT, M12 1.75 X 35.0									1				
	11505299	BOLT, M10 X 1.5 X 30.0 MM									1				
	11509512	BOLT, M8 X 1.25 X 25 MM												2	2
	11509799	BOLT, M10 X 1.5 X 70 MM							1						
	11513960	BOLT, M10 X 1.5 X 145 MM							1					1	1
	23517913	BOLT M10 X 1.5 X 125.0												1	1
	8929357	BOLT, M10 X 1.5 X 120 (12.9001)							1						
	11506101	NUT, M10 X 1.5							1					1	1
	23519488	SPACER 10.71D X 25.0D X 15.0THK												1	1
	23520887	SPACER							1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		7.1000A BATTERY CHARGING GENERATOR		4	4	4	4	4	4	5	5	5	5	5	5
				8	8	9	9	9	9	0	2	2	2	4	5
				4	9	2	3	6	8	4	1	4	9	9	4
	7.1582	BRACKET, GENERATOR ADJUSTING STRAP													
	23525247	BRACKET, GENERATOR ADJUSTING ROD												1	1
	11509526	BOLT, M10 X 1.5 X 130 MM												1	
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD												2	2
	23521131	NUT M10 HEX FLANGE												2	2
	7.1585	GUARD, GENERATOR DRIVE BELT AND PULLEY													
	23525127	SHIELD, GENERATOR BELT												1	1
	11504986	BOLT, M8 X 1.25 X 14 MM												2	2
	7.1595	BRACKET, GENERATOR MOUNTING													
	23520018	BRACKET, GEN & FREON COMPRESSOR								1					
	23520827	BRACKET FREON COMP MT									1				
	23521119	BRACKET, GENERATOR MTG FOR 7/16" BOLTS							1						
	23521125	BRACKET, GENERATOR LOW MT									1				
	23521128	BRACKET, GEN MTG 50DN FOR 7/16" BOLTS KEYWAY		1	1	1	1	1				1			
	120502	KEY, 3/16"X7/8" WOODRUFF (12.9350)		2	2	2	2	2				2			
	23520021	INSERT GEAR CASE COVER											1		
	23521130	BOLT M10 1.50 X 145.0 HEX FLG CTD		2	2	2	2	2	2		4	2			
	23521132	BOLT M10 1.5 X 140.0 FLG HEX HD CTD S60		1	1	1	1	1		4		1			
	5164360	WASHER (6.1001)						1							
	23521131	NUT M10 HEX FLANGE		3	3	3	3	3	2	4	4	3			
	7.1596	SUPPORT, GENERATOR BRACKET													
	23511744	BRACKET		1	1	1	1	1				1			
	23511743	BRACE		1	1	1	1	1				1			
	11509528	BOLT, M12 X 1.75 X 30 MM		4	4	4	4	4				4			
	11505299	BOLT, M10 X 1.5 X 30.0 MM		3	3	3	3	3				3			
	23505050	BOLT, M10 X 1.5 X 85			2	2	2					2			
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)			1	1	1					1			
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)			1	1	1					1			
	7.1900	TENSIONER ASSY., GENERATOR DRIVE													
	23520317	TENSIONER, AUTO BELT								1					
	23520783	BOLT								1					
	23509483	WASHER, 33/64"X1 1/16"X1/8"								1					

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				2	2	2	2	2	2	2	2	2	2	2	2
		7.1000A BATTERY CHARGING GENERATOR		4	4	4	4	4	4	5	5	5	5	5	5
				8	8	9	9	9	9	0	2	2	2	4	5
				4	9	2	3	6	8	4	1	4	9	9	4
	7.1905	IDLER ASSY., GENERATOR DRIVE BELT													
	23520959	IDLER ASSY., PULLEY		1	1	1	1	1				1			
	7.1935	SUPPORT, BELT TENSIONER BRACKET													
	23515696	SUPPORT BELT TENSIONER BRKT						1							
	23505050	BOLT, M10 X 1.5 X 85	2					2							
	23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)	1					1							
	23511779	BOLT, M14 X 2.0 X 50.00MM (12.9001)	1					1							

			ASSEMBLIES											
FIG. REF.	PART NO.	7.1000A BATTERY CHARGING GENERATOR	A											
		NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)												
	7.1900	TENSIONER ASSY., GENERATOR DRIVE												
	23518304	TENSIONER ASM ALTNR DRV BELT 12GRV	1											
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)	1											
	23518303	BOLT, M10 1.5 X 40.0 LG (LH THREAD)	1											

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	A											
		7.1000A BATTERY CHARGING GENERATOR	A											
	7.1905	IDLER ASSY., GENERATOR DRIVE BELT												
	23516793	IDLER PULLEY ASSY.	1											
	7.1925	PULLEY, BELT TENSIONER GENERATOR DRIVE												
	23516792	PULLEY, BELT TENSIONER	2											
	7.1932	PLATE, IDLER PULLEY SUPPORT MOUNTING												
	23516790	PLATE, IDLER PULLEY	1											

			TYPES									
7.3000A STARTING MOTOR			3	3	3	3	3	3	3	4	4	4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	5	7	7	7	8	9	9	2	2	2
			2	8	9	6	1	8	0	1	3	
REFER TO ENGINEERING DRAWING # 06Y02A 6015												
7.3001		MOTOR ASSY., STARTING										
	R0461125	MOTOR ASSY., 24V 50MT (REMANUFACTURED)						AR				
	R0461126	MOTOR ASSY., 12V 42MT (REMANUFACTURED)		AR		AR						
	R0461128	MOTOR ASSY., 24V 42MT (REMANUFACTURED)	AR									
	R0461129	MOTOR ASSY., 12V 50MT (REMANUFACTURED)			AR							
	10478877	MOTOR ASSY.(12V CW INSUL. 50MT)			1							
	10478895	MOTOR ASSY. (12V. CW. INSUL. 42MT)		1								
	10478911	MOTOR ASSY., START 24V CW INSU ROLLCLU 50MT						1				1
	10478980	MOTOR ASSY. (24V. CW. INSUL. 42MT)	1									
	10478986	MOTOR STARTER (24V CW INSUL 42MT)							1			
	10479022	MOTOR START, 24V INSUL 42MT					1					
	1990352	MOTOR (12V CW INSULATED 42MT)C				1						
	1990354	MOTOR (12V CW INSULATED 42MT)		1								
	1990437	MOTOR START (24V., INSL., C.W., 42MT)									1	
	8922933	BOLT, 5/8"-11X2 1/4" 12 POINT					3	3	3	3	3	3
	9439720	BOLT, 5/8"-11X2 1/4" (12PT.) (12.9005)	3	3	3	3						
	103325	LOCKWASHER, 5/8"	3	3	3	3	3	3	3	3	3	3
7.3004		GASKET, STARTING MOTOR										
	5130995	GASKET, STARTER MOTOR										1
7.3007		BRACKET, STARTING MOTOR SUPPORT										
	11503454	BOLT, M10 X 1.5 X 20.0			2			2				
	11506101	NUT, M10 X 1.5			2			2				
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)			2			2				
	23518485	BRACKET-SUPPORT STARTER S60						1				
	5123429	SPACER, 13/32"X13/16"X19/32" (2.3530)			2			2				
	8922795	BRACKET, STARTER SUPPORT			1			1				
	23518485	BRACKET-SUPPORT STARTER S60			1							

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	7	7										
				3	4										
		7.4000B TACHOMETER DRIVE		8	5										
	7.4420	ADAPTOR, TACHOMETER DRIVE CABLE													
	5131177	ADAPTOR, SOLID KEY (2:1 RATIO)		1											
	8929804	ADAPTOR, SOLID KEY (1:1 RATIO)			1										
	7.4435	SHAFT, TACHOMETER DRIVE													
	8929232	SHAFT		1	1										
	7.4445	COVER, TACHOMETER DRIVE													
	8929228	COVER ASSY.		1	1										
	11504822	BOLT, M8 X 1.25 X 30		5	5										
	7.4447	GASKET, TACHOMETER DRIVE COVER													
	8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.		1	1										

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1											
				1											
		7.4000C SHUT-OFF OR ALARM SYSTEM		6											
				9											
		REFER TO ENGINEERING DRAWING # 06M10A 6001													
	7.4519	SOLENOID, AIR SHUTOFF OR GOVERNOR													
	23525117	VALVE & SOLENOID ASSY. AIR SHUTDOWN		1											
	7.4545	HARNESS, AIR SHUTOFF WIRING													
	23518632	HARNESS ASSY., AIR SHUTDOWN PIG TAIL		1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC		1	2	2	2	3	4	4	4	5	5	6	7
				6	1	5	9	3	1	2	7	7	8	7	2
7.7430		LEVER CONTROL, GEAR AND THROTTLE													
	23520053	LEVER GR & THRTL CNTRL SHDL SLIMLINE	2			1									1
	23520175	LEVER GR & THRTL CTRL 1 HD 1 LVR PORT SL						1							
	23512041	LEVER CONTROL, GEAR & THROTTLE			1		1								
	23519972	LEVER GR & THRTL CNTRL DHSL SGL STN ONLY												1	
7.7440		MODULE, ENGINE ROOM INTERFACE													
	23517868	MODULE ASSY., ENGINE ROOM INTERFACE			1										1
	23519500	MODULE ASSY., ELEC GEAR INTERFACE DDEC III													2
	23520938	HARNESS ASSY.,STRAIGHT THRTL MAR CNTRL HD			1		1								
	23520939	HARNESS ASSY.,STRAIGHT GR MAR CNTRL HD WIR			1		1								
7.7450		MODULE, CONTROL STATION INTERFACE													
	23517552	MODULE ASSY., STATION INTERFACE	2		1	1	1	1							1
7.7460		ACTUATOR ASSEMBLY, GEAR													
	23517554	ACTUATOR ASSY.,MARINE GEAR CNTRL 24V			2										
7.7465		SWITCH, EMERGENCY BACKUP													
	23517558	PANEL MANUAL BACKUP 2 ENG W/GEAR SWITCH									1				
	23519572	PANEL MANUAL BACKUP DUAL W/O GR SWITCHS			1					1					
	23519574	PANEL ASSY.,MANUAL BACKUP 1 ENG W/OUT GR SWITCH											1		
7.7470		PANEL, CONTROL													
	23519499	PANEL ASSY., 4 BUTTON MARINE CONTROL DDEC 3							1						
	23520440	PANEL ASSY.,3 BUTTON MARINE CONTROL										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 7 3	1 7 4	1 7 7	1 7 8	1 7 9	1 8 0	1 8 2	1 8 4	1 8 5	1 9 4	1 9 5	2 0 8
		7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC													
	7.7430	LEVER CONTROL, GEAR AND THROTTLE													
	23512035	LEVER CONTROL, GEAR & THROTTLE,PORT								1					
	23512037	LEVER CONTROL, THROTTLE										1			
	23512043	LEVER CONTROL, GEAR										1			
	23519973	LEVER GR & THRTL CNTRL DHDL SGL STN ONLY			1										
	23520175	LEVER GR & THRTL CTRL 1 HD 1 LVR PORT SL												1	
	23512041	LEVER CONTROL, GEAR & THROTTLE					1								
	7.7440	MODULE, ENGINE ROOM INTERFACE													
	23517868	MODULE ASSY., ENGINE ROOM INTERFACE					1			1		1		1	
	23520936	HARNESS ASSY.,Y THRTL OR GEAR ONLY MAR CNTRL								1					
	23520938	HARNESS ASSY.,STRAIGHT THRTL MAR CNTRL HD					1					1			
	23520939	HARNESS ASSY.,STRAIGHT GR MAR CNTRL HD WIR					1					1			
	7.7450	MODULE, CONTROL STATION INTERFACE													
	23517552	MODULE ASSY., STATION INTERFACE					1			1		1		1	
	7.7460	ACTUATOR ASSEMBLY, GEAR													
	23517554	ACTUATOR ASSY.,MARINE GEAR CNTRL 24V					2			1		2		1	
	7.7470	PANEL, CONTROL													
	23519499	PANEL ASSY., 4 BUTTON MARINE CONTROL DDEC 3		2											
	23519570	PANEL ASSY.,LOCAL CONTROL MARINE DDEC III			2	2			1						
	23519974	PANEL ASSY 3 BUTTON MARINE CNTRL SGL STN											1		
	23520440	PANEL ASSY.,3 BUTTON MARINE CONTROL													3
	23517557	PANEL ASSY., 5 BUTTON MARINE CONTROL DDEC 3						3			1				

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				2 1 8	2 3 6	2 4 7							
		7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC											
	7.7430	LEVER CONTROL, GEAR AND THROTTLE											
	23512035	LEVER CONTROL, GEAR & THROTTLE,PORT			3								
	23512039	LEVER CONTROL, GEAR & THROTTLE,STARBOARD			3								
	23525915	THROTTLE, CONTROL HEAD LEVEL 1				1							
	23512041	LEVER CONTROL, GEAR & THROTTLE	1										
	7.7440	MODULE, ENGINE ROOM INTERFACE											
	23517868	MODULE ASSY., ENGINE ROOM INTERFACE	1										
	23519500	MODULE ASSY., ELEC GEAR INTERFACE DDEC III	2										
	23520937	HARNESS ASSY.,X SINGLE POINT MAR CNTRL HD			3								
	23520938	HARNESS ASSY.,STRAIGHT THRTL MAR CNTRL HD	1										
	23520939	HARNESS ASSY.,STRAIGHT GR MAR CNTRL HD WIR	1										
	7.7450	MODULE, CONTROL STATION INTERFACE											
	23517552	MODULE ASSY., STATION INTERFACE	1		3								

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				1 8	2 0	2 1	2 4	2 7					
		7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC											
	7.7701	LCD DISPLAY ASSEMBLY											
	23517174	MODULE ELECTRONIC DISPLAY C&I DDEC		1									
	23517175	MODULE AUXILIARY INTERFACE C&I DDEC		1									
	23523286	MODULE & COVER ASSY. MARINE DDEC 3			2	2	1						
	23523227	COVER EDM MARINE CONTROL			2								
	7.7705	BRACKET, LCD MOUNTING											
	23512576	KIT,BRACKET SWIVEL MTG.						2					

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
		7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS		7											
	7.8700	PLUG SPARK													
	23515946	SPARK PLUG		6											
	7.8705	BRACKET IGNITION COIL													
	23518862	BRACKET IGNITER MODULE S50G		1											
	11505299	BOLT, M10 X 1.5 X 30.0 MM		1											
	23516346	BOLT, M6 X 1 X 20MM		2											
	7.8710	COIL IGNITION													
	23518913	COIL ASSY., IGNITION 50/60G	A1	6											
	23519119	SEAL RING .70X .208 I.D. VITON		12											
	23519115	HEX CAP SCREW M6 X 1.0		12											
	7.8715	WIRE SPARK PLUG													
	23519382	HARNESS - GROUND STRAP		1											
	11504986	BOLT, M8 X 1.25 X 14 MM		1											
	7.8720	HARNESS GROUND IGNITION													
	23519890	HARNESS IGNITION COIL S60G		1											
	7.8725	MODULE SPARK INTERFACE													
	16198239	MODULE IGNITOR		1											
	7.8735	BOOT AND SPRING IGNITION													
	23519555	BOOT & SPRING ASM IGNITION S50G GEN SET		6											

		ASSEMBLIES											
FIG. REF.	PART NO.	7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS	A										
		NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)											
	7.8710	COIL IGNITION											
	23518913	COIL ASSY., IGNITION 50/60G	1										
	23519754	SEAL, IGNITION COIL	1										

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				3 9 4	3 9 5	3 9 8	4 0 1	4 0 2	4 0 4						
		8.1000A POWER TAKE-OFF ASSY.													
	8.1001	POWER TAKEOFF ASSY.													
	23519214	PTO ASSY.,RR (REPTO) W/1350 YOKE	A1		1										
	23519215	PTO ASSY.,RR (REPTO) W/1480 YOKE	A1			1									
	23519217	PTO ASSY.,RR (REPTO) W/1310 YOKE	A1	1											
	23523431	PTO ASSY.,14MM RR (REPTO) W/1310 YOKE	A1					1							
	23523432	PTO ASSY., RR 14MM (REPTO) W/1350 YOKE	A1						1						
	23523433	PTO ASS.,RR 14MM (REPTO) W/1480 YOKE	A1				1								
	11500945	BOLT, M12 X 1.75 X 45.0		8	8	8									
	11500950	BOLT, M12 X 1.75 X 90.0		2	2	2									
	23514831	BOLT 9/16-18 X 6.00 AA LK PHOS CTD		12	12	12	12	12	12						
	23514832	BOLT M12 1.75 X 200.0 LG HEX PHOS CTD		2	2	2									
	23523439	BOLT, M14 2.00 X 50.0 LG					8	8	8						
	23523440	BOLT, M14 2.00 X 90.0 LG					2	2	2						
	23523441	BOLT, M14 2.00 X 200.0 LG					1	1	1						
	5180370	WASHER, .55" I.D. COPPER (7.4969)		1	1	1									
	23509483	WASHER, 33/64"X1 1/16"X1/8"		12	12	12									
	23523442	WASHER, M14					11	11	11						
	23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP		4	4	4	4	4	4						
	23514442	PIPE PLUG 1 1/4 7/8 TPR SQ SOCHD		1	1	1	1	1	1						
	5106899	PLUG, 3/4"-16		1	1	1	1	1	1						
	8.1990	HOSE, OIL FILTER													
	BAHH0100	HOSE ASSY., #6 X 12.3' LG		1	1	1	1	1	1						
	8924998	ELBOW (90 DEG.)		1	1	1	1	1	1						
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	1	1	1	1	1						
	8924378	BUSHING PIPE RED 3/4 X 1/4		1	1	1	1	1	1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B	C	D	E	F						
		8.1000A POWER TAKE-OFF ASSY.												
		(Note: Assemblies are shown for component reference only.)												
	8.1001	POWER TAKEOFF ASSY.												
	23519217	PTO ASSY.,RR (REPTO) W/1310 YOKE	1											
	23519214	PTO ASSY.,RR (REPTO) W/1350 YOKE		1										
	23519215	PTO ASSY.,RR (REPTO) W/1480 YOKE			1									
	23523433	PTO ASS.,RR 14MM (REPTO) W/1480 YOKE				1								
	23523431	PTO ASSY.,14MM RR (REPTO) W/1310 YOKE					1							
	23523432	PTO ASSY., RR 14MM (REPTO) W/1350 YOKE						1						
	8.1010	HOUSING, CLUTCH												
	23521466	HOUSING REPTO PTO W/O YOKE	1	1	1									
	23523164	HOUSING REPTO PTO 14MM W/O YOKE				1	1	1						
	8.1275	YOKE, CLUTCH RELEASE												
	23518440	YOKE ASSY, REPTO PTO 1310 TYS	1				1							
	23518441	YOKE ASSY REPTO PTO 1350 TYS		1				1						
	23518442	YOKE ASSY.,REPTO PTO 1480 NYS			1	1								

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A AIR COMPRESSOR
- 12.5000A HYDRAULIC PUMP
- 12.6000B AIR STARTER
- 12.6000C COLD WEATHER STARTING AIR KIT
- 12.7000A APPEARANCE PACKAGE PARTS
- 12.8000A SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B FABRICATION MATERIAL
- 12.8000C SERVICE KITS AND SETS

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	4	4	4	4	4	4
				7	7	7	7	8	8	0	4	4	4	5	6
				4	5	6	7	1	5	9	1	2	6	1	7
9.1000A MARINE GEAR															
FOR OPTION # 1459, REFER TO CUSTOM PARTS CATALOG AND ENGINEERING DRAWING 07B05 6092															
9.1001		GEAR ASSY., HYDRAULIC MARINE													
	23521574	GEAR ASSY MAR 6.00:1 TD MG516 DEEP CASE S				1									
	23521709	GEAR ASSY MAR 4.50:1 MG514C STD SHFT DEEP					1								
	23521715	GEAR ASSY.,MAR 4.52:1 MG516 STD SHFT DEEP CASE						1							
	23521716	GEAR ASSY., MAR 5.05:1 MG516 STD SHFT DEEP								1					
	23521717	GEAR ASSY., MAR 6.00:1 MG516 STD SHFT DEEP							1						
	23523152	GEAR ASSY., REV & RED 1.92 TD 5114A S2000												1	
	23523156	GEAR ASSY., REV & RED 1.75 TD 5114A S2000											1		
	23524647	GEAR ASSY., REV & RED 3.00:1										1			
	271609	BOLT 3/4"-10X1.75 LG HEX 280M PLN			12	1	12	12	12	12					
	442733	BOLT, 1/2"-13 X 1.25" (12.9001)			8	8	8	8	8	8	8	8	8	8	
	23520795	PRESSURE TRANSDUCER											1	1	1
	23523552	SWITCH, NEUTRAL PRESSURE											1	1	1
	5142872	SHIM .062			1	1	1	1		1					
	5142873	SHIM .031			1	1	1	1		1					
	5142874	SHIM .005			1	1	1	1		1					
	23512192	HARNESS ASSY.PIGTAIL EMIM TO MAR GEAR											1	1	1
	23524533	ADAPTOR ASSY.											2	2	2
	106337	BOLT, 7/16"-14X1 3/8"			12	12	12	12	12	12	12	12	12	12	
	23525278	CLIP .375ID .68 OFFSET .53 BOLT HOLE											1	1	
	5101020	STRAP, NYLON (2.5255)											4	4	
	5125108	WASHER, 7/16"X3/4" (2.4030)											1	1	
	103322	LOCKWASHER, 7/16"			12	12	12	12	12	12			12	12	
	103323	LOCKWASHER, 1/2"			8	8	8	8	8	8	8	8	8	8	
9.1011		BRACKET, REVERSE GEAR MOUNTING													
	23521244	BRACKET GR CASE MTG (514 SHALLOW) L SI			1										
	23521245	BRACKET GR CASE MTG (514 SHALLOW) R SI			1										
	23521247	BRACKET GR CASE MTG (514 & 516 DEEP) L SI			1			1							
	23521248	BRACKET GR CASE MTG (514 & 516 DEEP) R SI			1			1							
	23524463	SPACER, 12.7MM THK										2			
	23524471	CRADLE										2			
	23524472	SPACER, 16MM THK RH										1			
	23524473	SPACER, 16MM THK LH										1			

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		9.1000A MARINE GEAR		3	3	3	3	3	3	4	4	4	4	4	4
				7	7	7	7	8	8	0	4	4	4	5	6
				4	5	6	7	1	5	9	1	2	6	1	7
	9.1011	BRACKET, REVERSE GEAR MOUNTING (CONT.)													
	5102373	WASHER, 1.125"O.D.X.656" I.D. (1.3140)		12	12				12						
	23515976	BOLT 5/8-11 X 1.75LG 12 PT GRADE 8		12	12				12						
	23522604	BOLT, M16 X 2 X 155.0										6			
	23522814	BOLT, M16 X 2 X 155										6			
	271564	BOLT, 5/8"-11X2 1/2" (12.9001)										8			

9.2000A REVERSE AND RED GEAR

FOR OPTION # 39, REFER TO CUSTOM
PARTS CATALOG

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

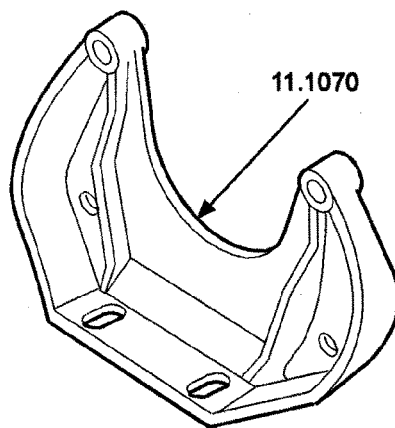
- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

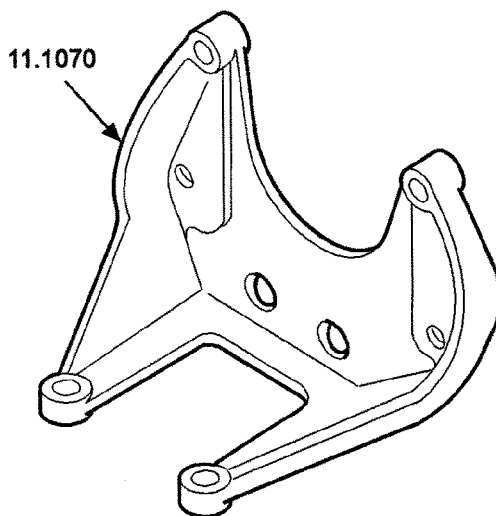
- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

DETROIT DIESEL

SERIES 60 ENGINE



ITEM 1



ITEM 2

FIG. 1 FRONT ENGINE SUPPORT

24010

FIG. 1 OF 11.000A

				TYPES											
				6	6	6	6	7	7	7	7	7	7	7	7
				8	8	8	9	1	1	1	1	2	2	3	3
				2	3	8	6	4	5	8	9	3	4	6	8
FIG. REF.	PART NO.	NAME AND DESCRIPTION		ASSY. SECT.											
FOR OPTION # 859, REFER TO CUSTOM PARTS CATALOG															
	11.1070	SUPPORT, ENGINE FRONT													
	23505531	MOUNT, ENGINE FRT FORD AUSTRALIA													
	23507072	MOUNT, ENG. FRT 12 DEGREE FORD U.S.													
	23509063	MOUNT, ENG. FRT SPL NAVISTAR													
	23509771	MOUNT													
	23512843	MOUNT, ENG FRT)													
	23513779	MOUNT, ENG FRT PREVOST (PA)													
	23508377	SPACER													
	8929744	SUPPORT (WEST COAST) ITEM 1			1										
	8929768	SUPPORT (GMC TILT) ITEM 2			1	1									
	8929904	SUPPORT (JOHN DEERE)				1									
	11509528	BOLT, M12 X 1.75 X 30 MM				8	8	7	8	7	7	7	7	7	7
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)			4	4	4	4	4	4	4	4	4	4	4
	11.1100	SUPPORT, ENGINE REAR													
	23511246	MOUNT													
	23511247	MOUNT													
	271560	BOLT, 5/8"-11 X 1.75" (12.9001)													
	103325	LOCKWASHER, 5/8"													

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
				7 5 0	7 5 6	7 6 1	7 6 2	7 6 5	7 6 9	7 7 0	7 7 8	7 8 3	7 8 4	8 0 6	8 3 0
		11.1000A ENGINE MOUNTING BASE													
	11.1070	SUPPORT, ENGINE FRONT													
	23509063	MOUNT, ENG. FRT SPL NAVISTAR													1
	23515497	MOUNT ENG FRT NAVISTAR 9200 S60	1												
	23520913	MOUNT ENG FRT								1					
	23521648	MOUNT ENG FRT 101.6 BTM HOLE PATTERN										1			
1	8929744	SUPPORT (WEST COAST) ITEM 1											1		
	11509528	BOLT, M12 X 1.75 X 30 MM	7			7	7	7	7	7	7	7	7		
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)	4			4	4	4	4	4	4	4	4		4
	23517430	MOUNT ENG FRT (FRGHTLNR) S60						1							
	23517967	MOUNT ENG FRT LEFT SIDE MCI S60							1						
	23517968	MOUNT ENG FRT RIGHT SIDE MCI S60							1						
	23517989	MOUNT ENGINE FRT FORD U.S. S60 2 DEG				1									
	23517990	MOUNT ENG FRT FORD US S-60 2 DEG					1								
	23518858	MOUNT ENG FRT MCI BUS (PA) S60								1					
	11.1072	MOUNTING, ENGINE FRONT SUPPORT ELASTIC													
	23522815	MOUNT ENG FRT CHRGR CLR BRKT HOLE													1
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)													4
	11.1100	SUPPORT, ENGINE REAR													
	23521244	BRACKET GR CASE MTG (514 SHALLOW) L SI													1
	23521245	BRACKET GR CASE MTG (514 SHALLOW) R SI													1
	23521247	BRACKET GR CASE MTG (514 & 516 DEEP) L SI											1		
	23521248	BRACKET GR CASE MTG (514 & 516 DEEP) R SI											1		
	23513942	MOUNT ENG SUPT RR	1												
	23513943	MOUNT ENG SUPT LR	1												
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)	8												
	23515976	BOLT 5/8-11 X 1.75LG 12 PT GRADE 8											12	12	
	9424760	BOLT, 5/8"-11X2.0" (12.9001)	8												
	9430993	BOLT 7/8 9 X 6 1/2	2												
	121574	LOCKWASHER, 5/8"	8												
	23513890	PW 7/8 FLAT ZINC CTD	4												
	23514014	WASHER SPL HARD RR CRADLE ISOLATOR	2												
	5102373	WASHER, 1.125"O.D.X.656" I.D. (1.3140)											12	12	
	11506101	NUT, M10 X 1.5	8												
	23514088	NUT 7/8 9 HEX ZINC CTD	2												
	23513889	ISOLATOR ENG MT CRADLE RR	2												

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				8 3 6	8 4 2	8 4 3	8 4 4	8 4 8	8 5 1						
		11.1000A ENGINE MOUNTING BASE													
	11.1010	CUSHION, ENGINE MOUNTING BASE ISOLATION PAD													
	23525040	ISOLATOR, ENGINE MOUNT			4				8						
	23525347	ISOLATOR, ENGINE MOUNT 55 DUROMETER							4						
	11.1070	SUPPORT, ENGINE FRONT													
	23523861	BRACKET, SOLID MT 4 BOLT		2											
	8929008	STAND ENG SUPT SHIP (PA) BLACK S60					2								
1	8929744	SUPPORT (WEST COAST) ITEM 1						1							
	11509528	BOLT, M12 X 1.75 X 30 MM					7								
	23521518	BOLT, M16 X 2 X 35		8											
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)					4	4							
	11.1072	MOUNTING, ENGINE FRONT SUPPORT ELASTIC													
	23522815	MOUNT ENG FRT CHRGR CLR BRKT HOLE		1											
	8929068	BOLT, M14 X 2.0 X 140 (12.9001)		4											
	11.1075	BRACKET, ENGINE SUPPORT													
	23525120	BRACKET, LR ENGINE MOUNT			1	1									
	23525121	BRACKET, RR ENGINE MOUNT			1	1									
	23525159	BRACKET, LH FRONT ENGINE MOUNT			1	1			1						
	23525160	BRACKET, RH FRONT ENGINE MOUNT			1	1			1						
	23525215	BRACKET, LR ENGINE MOUNT							1						
	23525217	BRACKET, RR ENGINE MOUNT							1						
	11501754	BOLT, M16 X 2.0 X 70.0 MM				12									
	23522327	BOLT M14 2.00 X 50.0 LG HEX HD		8					8						
	23522700	BOLT, M16X2.00X50 L		11					11						
	23525302	BOLT				8									
	23525040	ISOLATOR, ENGINE MOUNT				4									
	23525294	SPACER, RR MT RR/LR AL				2									
	23525295	SPACER, FRT MT RF/LF AL				2									
	23523442	WASHER, M14		8		8			8						

1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG,IGNITION COIL,WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

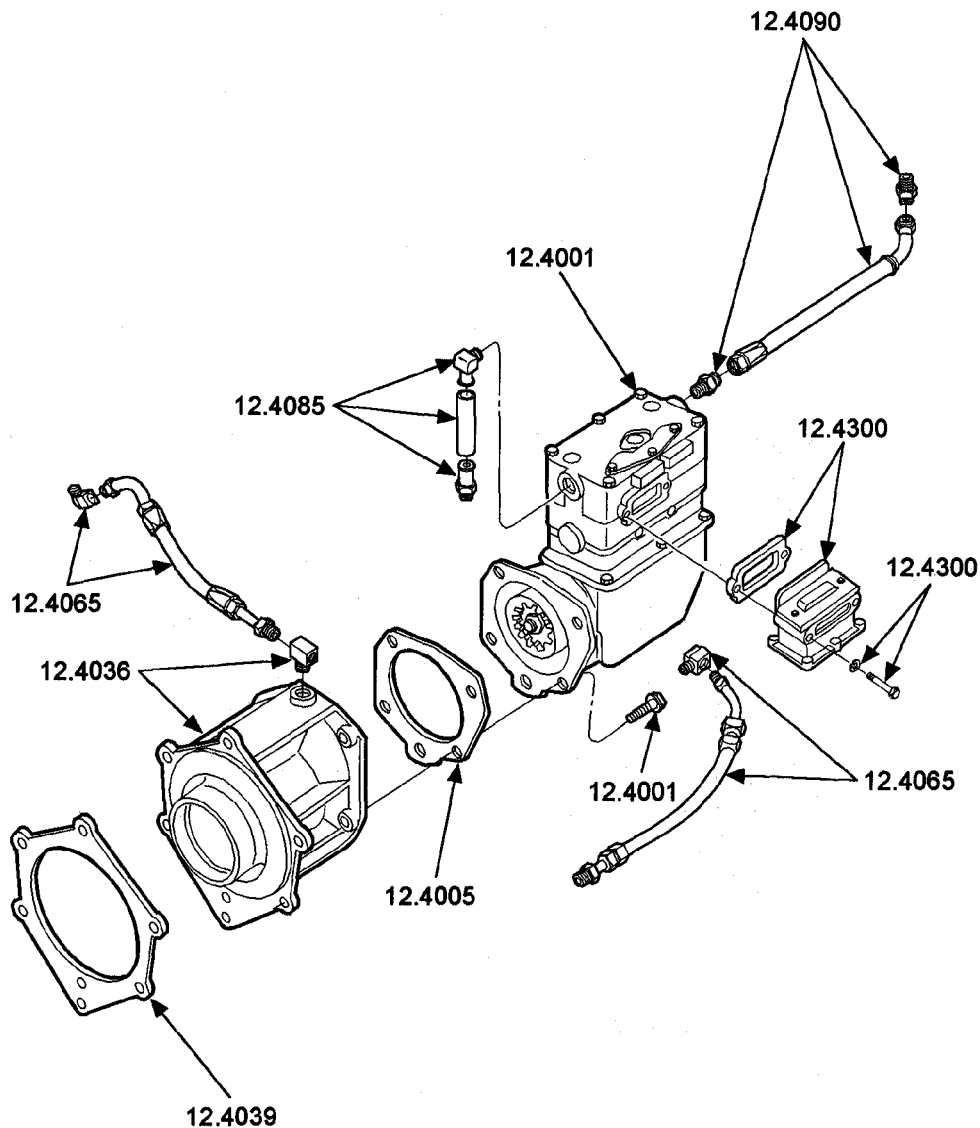
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 AIR COMPRESSOR ASSEMBLY

24009

FIG. 1 OF 12.4000A

DETROIT DIESEL

SERIES 60 ENGINE

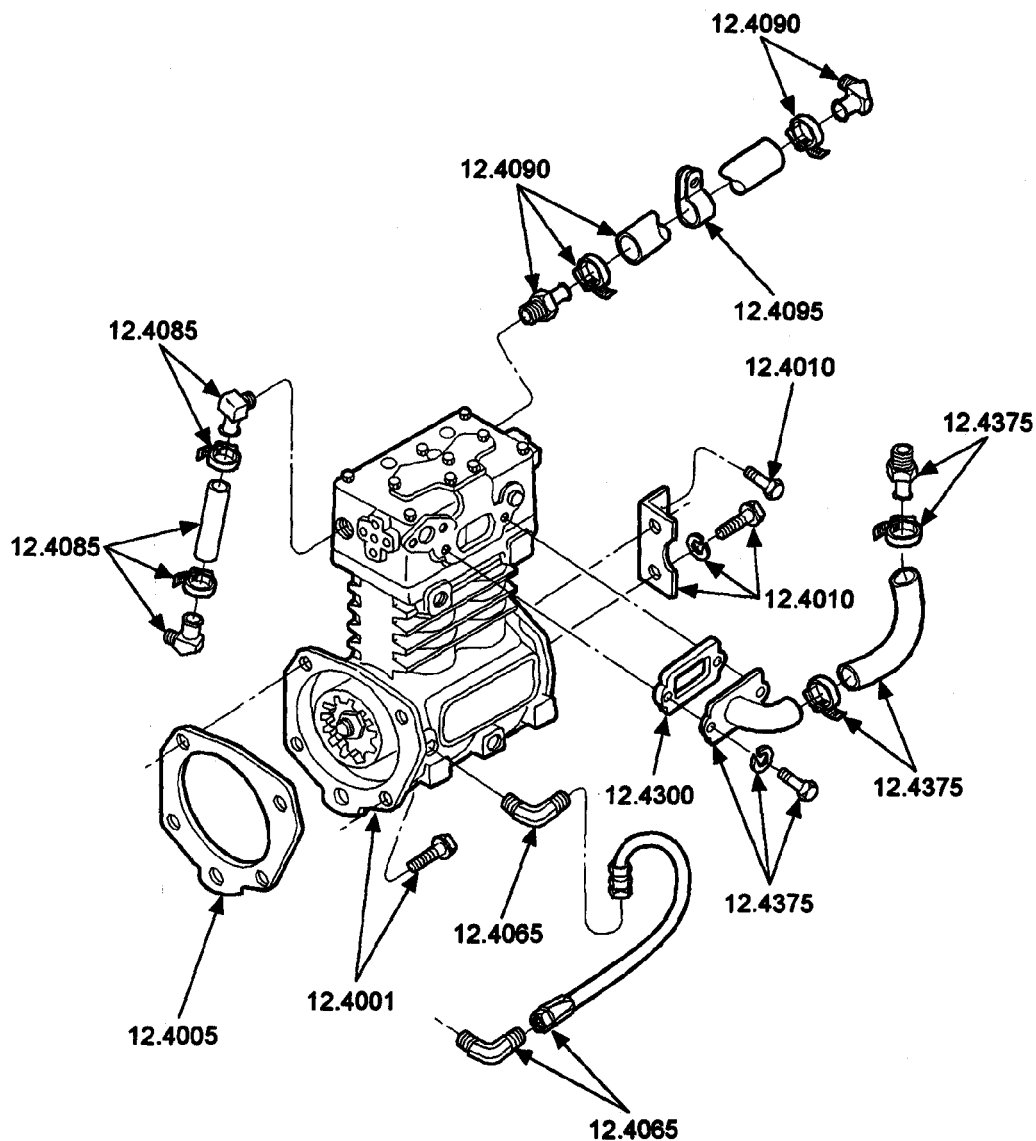


FIG. 2 AIR COMPRESSOR ASSEMBLY

24012

FIG. 2 OF 12.4000A

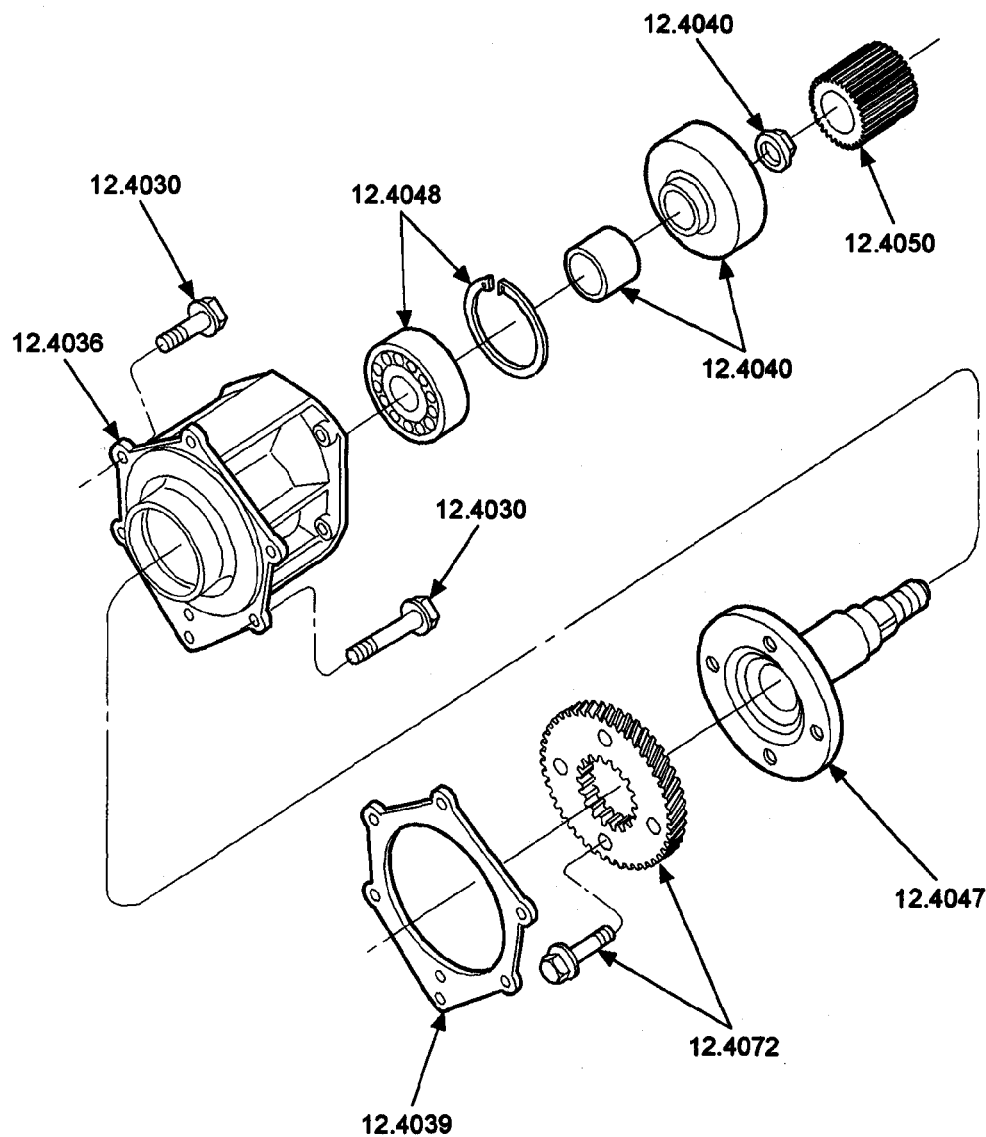
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 3 AIR COMPRESSOR DRIVE ASSEMBLY

24006

FIG. 3 OF 12.4000A

			TYPES											
12.4000A AIR COMPRESSOR			1	1	1	1	1	1	1	1	1	1	1	1
			2	2	2	2	2	2	3	3	3	3	3	3
FIG. REF.	PART NO.	NAME AND DESCRIPTION	8	9	9	9	9	9	0	0	0	0	0	0
			7	0	1	2	3	7	9	5	6	7	8	9
	12.4001	COMPRESSOR ASSY., AIR COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.												
	NPN	(CUSTOMER FURNISHED)COMPRESSOR ASSY.	1					1			1			
	R8929742	REMANUFACTURED 8929742		AR										
1	8929742	COMPRESSOR ASSY. 15.5 CFM (MR NT-7205-V)		1										
1	8929743	COMPRESSOR ASSY. 12 CFM (MR NT-7005-AF)			1									1
1	8929761	COMPRESSOR ASSY. 15.5 CFM (BW 106265)				obs						obs		
1	8929762	COMPRESSOR ASSY. 12 CFM (BW 106290)					obs		obs	obs		obs		
1	23517269	VALVE, PRESSURE RELIEF		AR	AR	AR	AR		AR	AR		AR	AR	AR
	11500944	BOLT, M12X1.75X40.0 MM	4	4	4	4	4		4	4		4	4	4
	R8929761	REMANUFACTURED 8929761				AR							AR	
	R8929762	REMANUFACTURED 8929762					AR		AR	AR		AR		
	8923916	PLUG, 1/2" PIPE (12.9550)		1	1		1		1	1		1		1
	12.4005	GASKET, AIR COMPRESSOR MOUNTING.												
	23515145	GASKET AIR COMP 53/71/92 S50/60	1	1	1	1	1	1	1	1	1	1	1	1
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING												
	8929454	BRACKET					1		1	1		1		
	8929455	BRACKET (SUPPORT)		1	1									1
	8929456	BRACKET (12.4012)				1							1	
	11509793	BOLT, M10 X 1.50 X 20 MM	2	2	2	2	2		2	2		2	2	2
	179858	BOLT, 7/16"-14X 1"					2		2	2		2		
	186624	BOLT, 5/16"-18 X 1 1/4"	2	2										2
2	186629	BOLT, 5/16"-18 X 1"				2							2	
	12.4030	DRIVE ASSY., AIR COMPRESSOR AN AIR COMPRESSOR DRIVE ASSY. INCLUDES ITEMS IN 12.4036, 12.4040, 12.4047, 12.4048 AND 12.4072.												
	8929722	\$ DRIVE ASSY.	1	1	1	1	1		1	1	1	1	1	1
3	11505299	BOLT, M10 X 1.5 X 30.0 MM	1	1	1	1	1		1	1	1	1	1	1
3	23505050	BOLT, M10 X 1.5 X 85	5	5	5	5	5		5	5	5	5	5	5
		\$ NOT SERVICED, USE 23503880 DRIVE ASSY. AND 4-11509529 BOLTS.												

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
		12.4000A AIR COMPRESSOR		2	2	2	2	2	2	2	3	3	3	3	3
				8	9	9	9	9	9	9	0	0	0	0	0
				7	0	1	2	3	7	9	5	6	7	8	9
	12.4032	COVER, AIR COMPRESSOR DRIVE ADAPTOR													
	8929100	COVER, 6 HOLE (1.3129)							1						
	8929264	COVER (1.7700)	1									1			
	11500944	BOLT, M12X1.75X40.0 MM	4									4			
	11505299	BOLT, M10 X 1.5 X 30.0 MM						1							
	11513811	BOLT, M12 X 1.75 X 20 MM	1									1			
	23505050	BOLT, M10 X 1.5 X 85						5							
	12.4036	HOUSING, AIR COMPRESSOR DRIVE													
	8929727	HOUSING	1		1	1	1	1		1	1	1	1	1	1
	8922327	PLUG, 1/4" NPTF (12.9550)	1									1			
1,3	8924996	TEE, 1/4"-18X1/4"-18X5/8"-18 (12.9490)	1												
1,3	8929772	TEE, 2 WAY 5/16" TUBE (BRASS) (12.9490)			1	1	1	1		1	1				
	8929835	TEE, 2 WAY 3/8" TUBE (12.9490)										1	1	1	1
	12.4039	GASKET, AIR COMPRESSOR DRIVE HOUSING													
1,3	8929299	GASKET, ACCESSORY FRONT	1		1	1	1	1	1	1	1	1	1	1	1
	12.4040	HUB, AIR COMPRESSOR													
3	8929721	HUB	1		1	1	1	1		1	1	1	1	1	1
3	11506017	NUT, M20 X 2 1/2	1		1	1	1	1		1	1	1	1	1	1
	12.4047	SHAFT, AIR COMPRESSOR DRIVE													
	8929723	\$ SHAFT	1		1	1	1	1		1	1	1	1	1	1
		\$ NOT SERVICED, USE 23503880 DRIVE ASSY. AND 4-11509529 BOLTS.													
	12.4048	BEARING, AIR COMPRESSOR DRIVE SHAFT													
	8929820	BEARING, ROLLER	1		1	1	1	1		1	1	1	1	1	1
	23518178	BRG BALL ALT DRIV HEAT STABILIZED S60	1		1	1	1	1		1	1	1	1	1	1
	8929063	RING, INT RETAINING 3.734" O.D. (12.4048)	1		1	1	1	1		1	1	1	1	1	1
	8929064	RING, INT RETAINING 3.121" O.D. (12.4048)	1		1	1	1	1		1	1	1	1	1	1
	8929216	RING, INT RETAINING 1.618" O.D. (5.4111)	1		1	1	1	1		1	1	1	1	1	1

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1 2 8 7	1 2 9 0	1 2 9 1	1 2 9 2	1 2 9 3	1 2 9 7	1 2 9 9	1 3 0 5	1 3 0 6	1 3 0 7	1 3 0 8	1 3 0 9
		12.4000A AIR COMPRESSOR													
		COUPLING, AIR COMPRESSOR DRIVE													
3	5141773	COUPLING			1	1	1	1		1	1		1	1	1
		TUBE, AIR COMPRESSOR LUBE OIL SUPPLY													
1	BAHH0156	HOSE ASSY., #6 X 17.9 H&H									1		1	1	1
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 13")			1	1	1	1		1					
1	5199575	HOSE, BULK #6X25 FT. (12.8550) (CUT L. 6")	1	1	1	1	1	1		1					
1	8929842	HOSE ASSY., #6X8.29" L.									1	1	1	1	1
1	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT) (12.8552)	1												
1	5199583	FITTING, #6 HOSE (1/2"-20 MALE INV. FL.)(STRAIGHT)) (12.8552)			2	2	2	2		2					
1	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.) (12.8552)	1	1	1	1	1	1		1					
1	5199597	FITTING, #6 HOSE (1/2"-20 MALE INV. FL.) (45 DEG.) (12.8552)			1	1	1	1		1					
1	8924153	ELBOW, 5/16"-90 DEG. INV. FL. TUBE (12.9480)			1	1	1	1		1					
1	8925030	ELBOW, 90 DEG. 3/8" INV. FL. TUBE (12.9480)			1	1	1	1		1					
	8929752	ELBOW, 1/2" PIPE 45 DEG STREET INV FL BRS(12.4085)									1			1	
	8929834	ELBOW, 1/4"-45 DEG. INV. FL. TUBE (12.9480)											1	1	1
	8929836	ELBOW, 5/8"-90 DEG. INV. FL. TUBE (12.9480)											1		1
1	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380)			1	1	1	1		1	1		1	1	1
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)									1	1	1	1	1
	8924178	TEE, 1/4"-18										1			
1	8924199	TEE, 1/4"X1/4"X5/8"	1												
	9409755	GASKET										1			
	9409762	CAP, 45 DEG-5/8" FL. TUBE										1			
1	8922327	PLUG, 1/4" NPTF (12.9550)	1												
		DRIVE GEAR, AIR COMPRESSOR DRIVE ASSY.													
3	8929311	GEAR, RIGHT HAND 69T	1	1	1	1	1	1		1	1	1	1	1	1
3	11505299	BOLT, M10 X 1.5 X 30.0 MM	4	4	4	4	4	4		4	4	4	4	4	4

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				2	2	2	2	2	2	2	3	3	3	3	3
				8	9	9	9	9	9	9	0	0	0	0	0
				7	0	1	2	3	7	9	5	6	7	8	9
	12.4000A AIR COMPRESSOR														
	12.4085	TUBE, AIR COMPRESSOR WATER INLET													
2	8929755	HOSE, .75"X4.00" L.					1	1		1	1		1	1	
2	8929764	HOSE, .75" X 3.50" L. (12.4085)			1	1									1
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)			2	2	2	2		2	2		2	2	2
1	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)					1							1	
1	8929752	ELBOW, 1/2" PIPE 45 DEG STREET INV FL BRS(12.4085)					1							1	
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF			2	2	1	2		2	2		2	1	2
	12.4090	TUBE, AIR COMPRESSOR WATER OUTLET													
1	8929782	HOSE ASSY., 5/8"X24.75"L. (FORMER)			1	1	1	1		1	1		1	1	1
1	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380) (FORMER)			1	1	1	1		1	1		1	1	1
	12.4095	CLIP, AIR COMPRESSOR WATER TUBE													
2	5146788	CLIP, 5/8" HOSE (2.5070)			1	1	1	1		1	1		1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM			1	1	1	1		1	1		1	1	1
	12.4300	STRAINER, AIR COMPRESSOR ON COMPRESSOR													
1	5110411	STRAINER ASSY.			1	1	1	1						1	1
1	179827	BOLT, 5/16"-18 X 2 1/4"			2	2	2	2						2	2
1,2	5110410	GASKET			1	1	1	1		1	1		1	1	1
1	103320	LOCKWASHER, 5/16" *PART OF COMPRESSOR ASSEMBLY.			2	2	2	2						2	2
	12.4375	TUBE, AIR COMPRESSOR BOOSTER													
2	23508340	HOSE, #.75MM X 18 LG.								1			1		
	8929873	HOSE 1.00" X 13.50"L (12.4375)								1			1		
	23505474 #	FLANGE, AIR COMP INL (PSTN RG C/I)								1			1		
2	23506346	FLANGE & TUBE ASSY.								1			1		
	23505475 #	ELBOW, 90 DEG. (1" SPEC.) (12.9390)								1			1		
	8924187	ELBOW, 90 DEG, 3/4 NPTF								1			1		
2	23506345	CONNECTOR ASSY. (12.9390)								1			1		
	5186840	CLAMP, 1 1/2" I.D. (12.9660)								2			2		
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)								2			2		
2	179816	BOLT, 5/16"-18 X .75"								2			2		
	186629	BOLT, 5/16"-18 X 1"								2			2		
2	103320	LOCKWASHER, 5/16"								2			2		
		# NOT SERVICED, TO INSURE INTERCHANGEABILITY USE 1-23506346, 1-23506345, 1-23508340, 2-8929756, 2-179816 AND 2-103320.													

			TYPES											
12.4000A AIR COMPRESSOR			1	1	1	1	1	1	1	1	1	1	1	1
			3	3	3	3	3	3	3	3	3	3	3	3
FIG. REF.	PART NO.	NAME AND DESCRIPTION	1	1	1	1	1	1	1	2	2	2	2	3
			1	2	3	4	5	6	8	4	6	7	8	3
	12.4001	COMPRESSOR ASSY., AIR COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.												
	NPN	(CUSTOMER FURNISHED)COMPRESSOR ASSY.			1					1				
	R8929742	REMANUFACTURED 8929742	AR											
	R8929742	REMANUFACTURED 8929742						AR						AR
2	23505234	COMPRESSOR ASSY, 13 CFM (BW TF-550)										1		
2	23505235	COMPRESSOR ASSY., 16 CFM (BW TF-750)											1	
1	8929742	COMPRESSOR ASSY. 15.5 CFM (MR NT-7205-V)	1											
1	8929742	COMPRESSOR ASSY. 15.5 CFM (MR NT-7205-V)						1						1
1	8929743	COMPRESSOR ASSY. 12 CFM (MR NT-7005-AF)							1		1			
1	8929761	COMPRESSOR ASSY. 15.5 CFM (BW 106265)		obs										
1	8929762	COMPRESSOR ASSY. 12 CFM (BW 106290)				obs	obs							
	23509783	KIT, BW TF-750 COMPRESSOR										1	1	
	23517269	VALVE, PRESSURE RELIEF	AR	AR		AR		AR	AR		AR	AR	AR	AR
	8925710	DRAINCOCK, 3/8" (12.9510)		1										
1	11500944	BOLT, M12X1.75X40.0 MM	4											
1,2	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.		4	4	4	4	4	4		4	4	4	4
	R23505234	REMANUFACTURED 23505234										AR		
	R23505235	REMANUFACTURED 23505235											AR	
	R8929761	REMANUFACTURED 8929761		AR										
	R8929762	REMANUFACTURED 8929762				AR	AR							
	8923916	PLUG, 1/2" PIPE (12.9550)	1	1		1	1	1	1		1			1
	12.4005	GASKET, AIR COMPRESSOR MOUNTING.												
	23515145	GASKET AIR COMP 53/71/92 S50/60	1	1	1	1	1	1	1		1	1	1	1
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING												
2	23505244	BRACKET, AIR COMP. SUPPORT										1	1	
	8929454	BRACKET				1	1							
	8929455	BRACKET (SUPPORT)	1					1	1		1			1
	8929456	BRACKET (12.4012)		1										
2	11503454	BOLT, M10 X 1.5 X 20.0										2	2	
	11509793	BOLT, M10 X 1.50 X 20 MM	2	2		2	2	2			2			2
	179858	BOLT, 7/16"-14X 1"				2	2							

			TYPES												
			1	1	1	1	1	1	1	1	1	1	1	1	1
			3	3	3	3	3	3	3	3	3	3	3	3	3
			1	1	1	1	1	1	1	2	2	2	2	3	3
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	2	3	4	5	6	8	4	6	7	8	3
12.4000A AIR COMPRESSOR															
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING (CONT.)													
	186624	BOLT, 5/16"-18 X 1 1/4"	2					2				2			2
2	186629	BOLT, 5/16"-18 X 1"		2									2	2	
2	103320	LOCKWASHER, 5/16"											2	2	
	12.4030	DRIVE ASSY., AIR COMPRESSOR													
		AN AIR COMPRESSOR DRIVE ASSY. INCLUDES ITEMS IN 12.4036, 12.4040, 12.4047, 12.4048 AND 12.4072.													
3	23503880	DRIVE ASSY., AIR COMPRESSOR	A1		1	1	1	1	1	1		1	1	1	1
	8929722	\$ DRIVE ASSY.		1											
3	11505299	BOLT, M10 X 1.5 X 30.0 MM		1	1	1	1	1	1	1		1	1	1	1
3	23505050	BOLT, M10 X 1.5 X 85		5	5	5	5	5	5	5		5	5	5	5
		\$ NOT SERVICED, USE 23503880 DRIVE ASSY. AND 4-11509529 BOLTS.													
	12.4032	COVER, AIR COMPRESSOR DRIVE ADAPTOR													
	8929264	COVER (1.7700)				1									
	11513811	BOLT, M12 X 1.75 X 20 MM				1									
	5180370	WASHER, .55" I.D. COPPER (7.4969)				1									
	12.4036	HOUSING, AIR COMPRESSOR DRIVE													
	8929727	HOUSING		1											
	8922327	PLUG, 1/4" NPTF (12.9550)				2									
	8929835	TEE, 2 WAY 3/8" TUBE (12.9490)		1											
	12.4039	GASKET, AIR COMPRESSOR DRIVE HOUSING													
2	23515145	GASKET AIR COMP 53/71/92 S50/60										1	1	1	1
1,3	8929299	GASKET, ACCESSORY FRONT		1	1	1	1	1	1	1		1	1	1	1
	12.4040	HUB, AIR COMPRESSOR													
3	8929721	HUB		1							1				
3	11506017	NUT, M20 X 2 1/2		1											
	12.4047	SHAFT, AIR COMPRESSOR DRIVE													
	8929723	\$ SHAFT		1											
		\$ NOT SERVICED, USE 23503880 DRIVE ASSY. AND 4-11509529 BOLTS.													

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	3	3	3	3	3	3
				1	1	1	1	1	1	2	2	2	2	3	3
				1	2	3	4	5	6	8	4	6	7	8	3
12.4000A AIR COMPRESSOR															
	12.4085	TUBE, AIR COMPRESSOR WATER INLET													
2	8929755	HOSE, .75"X4.00" L.			1		1	1							
2	8929764	HOSE, .75" X 3.50" L. (12.4085)		1					1	1		1	1	1	1
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)							2	2		2	2	2	2
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)		2	2		2	2							
1	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)			1										
1	8929752	ELBOW, 1/2" PIPE 45 DEG STREET INV FL BRS(12.4085)			1										
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)										1	1		
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF		2	2		2	2	2	2		2	1	1	2
12.4090															
		TUBE, AIR COMPRESSOR WATER OUTLET													
	23509260	HOSE ASSY. 5/8" X 16.12"L. (FORMER)											1	1	
2	23509550	HOSE, .75" X 28.0" L.							1	1			1	1	
1	8929782	HOSE ASSY., 5/8"X24.75"L. (FORMER)		1	1		1	1	1	1		1	1	1	1
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)							2	2			2	2	
1	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380) (FORMER)		1	1		2	1	1	1		2	2	2	2
2	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)							1	1			1	1	
	8925046	ELBOW, 45 DEG-5/8" TUBE (FORMER)											1	1	
	8925076	ELBOW, 90 DEG-5/8" TUBE (FORMER)											1	1	
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)							1	1			1	1	
12.4095															
		CLIP, AIR COMPRESSOR WATER TUBE													
2	5146788	CLIP, 5/8" HOSE (2.5070)		1	1		1	1	1	1		1	1	1	1
	11504986	BOLT, M8 X 1.25 X 14 MM		1	1		1	1	1	1		1			1
12.4300															
		STRAINER, AIR COMPRESSOR ON COMPRESSOR													
1	5110411	STRAINER ASSY.		1											
1	179827	BOLT, 5/16"-18 X 2 1/4"		2											
1,2	5110410	GASKET		1			1	1	1	1					
1	103320	LOCKWASHER, 5/16"		2											
		*PART OF COMPRESSOR ASSEMBLY.													

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	12.4000A AIR COMPRESSOR										
				1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	3	3	3	3	3
				3	3	4	4	4	5	5	5	5	6	6
				4	6	0	2	5	2	4	6	9	0	7
	12.4001	COMPRESSOR ASSY., AIR												
		COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.												
		R23511718 REMANUFACTURED 23511718							AR					
2		23505234 COMPRESSOR ASSY, 13 CFM (BW TF-550)				1		1						
2		23505235 COMPRESSOR ASSY., 16 CFM (BW TF-750)					1	1					1	1
		23511334 COMPRESSOR ASSY., 12.9 CFM (MR NT-7005-AK)		1							1			
2		23511718 COMPRESSOR ASSY., 31 CFM (BW)							1					
		23515565 COMPRESSOR ASSY. 31 CFM												1
		R23507269 REMANUFACTURED 23507269			AR							AR		
		R23511334 REMANUFACTURED 23511334	AR								AR			
		23507269 COMPRESSOR ASSY., 16 CFM (MR/DDCS60)			1							1		
		23509783 KIT, BW TF-750 COMPRESSOR				1	1	1	1				1	1
		23517269 VALVE, PRESSURE RELIEF	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR	AR
1,2		23509520 BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.		4	4	4	4	4	4	4	4	4	4	4
		R23505234 REMANUFACTURED 23505234				AR			AR					
		R23505235 REMANUFACTURED 23505235					AR	AR					AR	AR
		R23515565 REMANUFACTURED 23515565												AR
	12.4005	GASKET, AIR COMPRESSOR MOUNTING.												
		23515145 GASKET AIR COMP 53/71/92 S50/60		1	1	1	1	1	1	1	1	1	1	1
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING												
2		23505244 BRACKET, AIR COMP. SUPPORT		1	1	1	1	1			1	1	1	
		23511719 BRACKET								1				1
		8929874 SPACER, ECM ISOLATOR 3.0-3.4 THK								4				4
		8929169 WASHER (12.9190)								2				2
2		11503454 BOLT, M10 X 1.5 X 20.0		2	2	2	2	2	2		2	2	2	2
		11505299 BOLT, M10 X 1.5 X 30.0 MM								2				2
2		186629 BOLT, 5/16"-18 X 1"				2	2	2	2			2	2	
		23506222 BOLT, M8 X 1.25 X 20 12 PT.		2	2						2	2		
2		103320 LOCKWASHER, 5/16"			2	2	2	2	2	4	2	2	2	4
		114493 NUT, 5/16-24								4				4

			TYPES											
			12.4000A AIR COMPRESSOR											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	2	3	4	5	6	7	8	9	10	11
	12.4030	DRIVE ASSY., AIR COMPRESSOR AN AIR COMPRESSOR DRIVE ASSY. INCLUDES ITEMS IN 12.4036, 12.4040, 12.4047, 12.4048 AND 12.4072.		1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	3	3	3	3	3
				3	3	4	4	4	5	5	5	5	6	7
				4	6	0	2	5	2	4	6	9	0	7
3	23503880	DRIVE ASSY., AIR COMPRESSOR	A1	1	1	1	1	1	1	1	1	1	1	1
3	11505299	BOLT, M10 X 1.5 X 30.0 MM		1	1	1	1	1	1	1	1	1	1	1
3	23505050	BOLT, M10 X 1.5 X 85		5	5	4	4	5	4	5	4	4	5	4
3	23509160	BOLT, M10X1.5X85.0 FLG HEADED				1	1		1		1	1		1
	12.4039	GASKET, AIR COMPRESSOR DRIVE HOUSING												
1,3	8929299	GASKET, ACCESSORY FRONT		1	1	1	1	1	1	1	1	1	1	1
	12.4050	COUPLING, AIR COMPRESSOR DRIVE												
3	5141773	COUPLING		1	1	1	1	1	1	1	1	1	1	1
	12.4065	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY												
1	BAHH0156	HOSE ASSY., #6 X 17.9 H&H		1	1					1	1			
2	23505202	HOSE ASSY., #6 X 14.92" LG				1	1	1	1			1	1	
	23509181	HOSE ASSY., #6X16.75" L.								1				1
2	8924998	ELBOW (90 DEG.)		1	1	1	1	1		1	1		1	
2	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)		1	1	1	1	1	1	1	1	1	1	1
	23504991	CONNECTOR, 5/8" FLD TUBE 1/8" NPTF BRASS (12.9460)							1					1
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	1	1	1	1	1	1	1	2	1	1
	23509822	TEE, 1/4"-18 W/SEAL (12.9161)						1						
	8924178	TEE, 1/4"-18										1		
	8923847	PLUG, PIPE 1/4-18" NPTF						1				1		
	12.4070	TUBE, AIR COMPRESSOR LUBE OIL DRAIN												
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H												1
	23511891	HOSE ASSY., #8 X 16.50" LG.							1					
	23514029	ELBOW, 90 DEG. 1/2" TUBE 3/8" PIPE							1					
	8924220	ELBOW, 90 DEG. 1/2" FLD TUBE 1/2" NPTF (3.5505)							1					2
	8924163	BUSHING, RED. 3/4" X 1/2" (12.9570)							1					1

			TYPES												
			1	1	1	1	1	1	1	1	1	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	3	3	3	3	3	3	3	3	3	3	3	3	3
			3	3	4	4	4	5	5	5	5	5	6	6	7
			4	6	0	2	5	2	4	6	9	0	7	7	0
12.4000A AIR COMPRESSOR															
12.4085			TUBE, AIR COMPRESSOR WATER INLET												
2	8929764	HOSE, .75" X 3.50" L. (12.4085)	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)		2	2	2	2	2		2	2	2	2	2	2
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)	4												2
1	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)							1		2		1		1
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)				1	1	1	1				1	1	1
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF	2	2		1	1	1	1		2			1	
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)								2					
12.4090			TUBE, AIR COMPRESSOR WATER OUTLET												
	23509260	HOSE ASSY. 5/8" X 16.12"L. (FORMER)				1	1								
	23509261	HOSE ASSY., 5/8" X 9.64"L. (FORMER)	1	1											
2	23509550	HOSE, .75" X 28.0" L.	1	1	1	1	1	1		1	1	1	1		
2	23511888	HOSE, .75" X 7.38" LG.								1					1
	23511890	HOSE, .75" X 20.00" L.								1					1
1	8929782	HOSE ASSY., 5/8"X24.75"L. (FORMER)	1	1	1	1									
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)		2	2	2	2	2	4	2	2	2	2	2	4
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)	2												2
1	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380) (FORMER) 2	2	2	1	1									
2	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)	1	1	1	1	1	1	1	1				1	1
	8925046	ELBOW, 45 DEG-5/8" TUBE (FORMER) 1				1	1								
	8925076	ELBOW, 90 DEG-5/8" TUBE (FORMER)	1	1	1	1									
	8925574	ELBOW, 90 DEG								1					1
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF									2		1		
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)	1	1	1	1	1	1	3	1	1	1	1	1	3
	5101020	STRAP, NYLON (2.5255)							AR						AR
12.4095			CLIP, AIR COMPRESSOR WATER TUBE												
2	5146788	CLIP, 5/8" HOSE (2.5070)	1	1	1	1		1							
2	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)						1	1		1	1	1	1	
12.4305			GOVERNOR KIT, AIR COMPRESSOR												
	23511269	GOVERNOR KIT							1						
	23511270	GASKET, GOVERNOR							1						
	8922327	PLUG, 1/4" NPTF (12.9550)							3						
	8924380	PLUG, 1/8"-27 PIPE (12.9550)							1						
	179829	BOLT, 5/16"-18 X 2.75"							2						
	103320	LOCKWASHER, 5/16"							2						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES										
				1	1	1	1	1	1	1	1	1	1	1
		12.4000A AIR COMPRESSOR		3	3	3	3	3	3	3	3	3	3	3
				3	3	4	4	4	5	5	5	5	6	7
				4	6	0	2	5	2	4	6	9	0	0
	12.4375	TUBE, AIR COMPRESSOR BOOSTER												
2	23508340	HOSE, #.75MM X 18 LG.		1	1	1	1	1			1	1	1	
	23511887	HOSE, .75" X 4.50" LG.							1					1
	23511889	HOSE, .75" X 9.00" LG.							1					1
2	23506346	FLANGE & TUBE ASSY.		1	1	1	1	1		1	1	1	1	
	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)							2					2
	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF							1					2
2	23506345	CONNECTOR ASSY. (12.9390)		1	1	1	1	1		1	1	1	1	
	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380)				1	1							
	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)							1					
	8924163	BUSHING, RED. 3/4" X 1/2" (12.9570)							3					3
	23511892	TEE, PIPE 1/2"-14 INT & EXT BRASS (12.4090)							1					1
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)	2											4
2	179816	BOLT, 5/16"-18 X .75"	2	2	2	2	2	2		2	2	2	2	
2	103320	LOCKWASHER, 5/16"	2	2	2	2	2	2		2	2	2	2	
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)		2	2	2	2	2	4	2	2	2	2	4

			TYPES											
12.4000A AIR COMPRESSOR			1	1	1	1	1	1	1	1	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	3	3	3	3	3	3	3	4	4	4	4	4
			7	8	8	9	9	9	9	0	0	0	0	0
			8	5	9	1	3	6	7	8	3	4	6	7
12.4001			COMPRESSOR ASSY., AIR											
		COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.												
	R23516840	REMANUFACTURED 23516840					AR				AR			
	R23516841	REMANUFACTURED 23516841								AR		AR		AR
	R23517103	REMANUFACTURED 23517103						AR					AR	
	R23517104	REMANUFACTURED 23517104							AR					
2	23505234	COMPRESSOR ASSY, 13 CFM (BW TF-550)				1								
	23511334	COMPRESSOR ASSY., 12.9 CFM (MR NT-7005-AK)	1											
	23515565	COMPRESSOR ASSY. 31 CFM		1	1									
	R23511334	REMANUFACTURED 23511334	AR											
	23509783	KIT, BW TF-750 COMPRESSOR				1								
	23517269	VALVE, PRESSURE RELIEF	AR	AR	AR	AR								
1,2	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.	4	4	4	4								
	R23505234	REMANUFACTURED 23505234				AR								
	R23515565	REMANUFACTURED 23515565		AR	AR									
	23516840	COMPRESSOR ASSY., 13CFM BENDIX T/F550 ADAPLESS (NS USE 23522122 COMPRESSOR & 2-11509512 BOLTS)					1				1			
	23516841	COMPRESSOR ASSY., 16CFM BENDIX T/F750 ADAPLESS								1		1		1
	23517103	COMPRESSOR ASSY., 13CFM MIDLAND EL1300 ADAPLESS						1					1	
	23517104	COMPRESSOR ASSY., 16CFM MIDLAND EL1600 ADAPLESS							1					
12.4005			GASKET, AIR COMPRESSOR MOUNTING.											
	23515145	GASKET AIR COMP 53/71/92 S50/60	1	1	1	1								
12.4010			BRACKET, AIR COMPRESSOR MOUNTING											
2	23505244	BRACKET, AIR COMP. SUPPORT	1			1								
	23511719	BRACKET		1	1									
	8929874	SPACER, ECM ISOLATOR 3.0-3.4 THK		4	4									
	5164360	WASHER (6.1001)				2								
	8929169	WASHER (12.9190)		2										
2	11503454	BOLT, M10 X 1.5 X 20.0	2				2	2	2	2	2	2	2	2
	11505299	BOLT, M10 X 1.5 X 30.0 MM		2		2								
	11509511	BOLT, M8 X 1.25 X 20 MM					2	2	2	2	2	2	2	2
2	186629	BOLT, 5/16"-18 X 1"				2								
	23506222	BOLT, M8 X 1.25 X 20 12 PT.	2											
2	103320	LOCKWASHER, 5/16"		4	4	2								

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			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1
				3	3	3	3	3	3	3	3	4	4	4	4	
				7	8	8	9	9	9	9	9	0	0	0	0	
				8	5	9	1	3	6	7	8	3	4	6	7	
	12.4070	TUBE, AIR COMPRESSOR LUBE OIL DRAIN														
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H				1										
	23511891	HOSE ASSY., #8 X 16.50" LG.			1											
	23514029	ELBOW, 90 DEG. 1/2" TUBE 3/8" PIPE			1											
	8924220	ELBOW, 90 DEG. 1/2" FLD TUBE 1/2" NPTF (3.5505)			1	2										
	8924163	BUSHING, RED. 3/4" X 1/2" (12.9570)			1	1										
	12.4085	TUBE, AIR COMPRESSOR WATER INLET														
2	8929764	HOSE, .75" X 3.50" L. (12.4085)		1	1		1									
	23507896	CLAMP, 13/16"-1 1/2" I.D. CONSTANT TORQUE		4												
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)			2		2									
1	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)			1	1			1	1					1	
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)			1	1	1	2			1	1	1			1
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF		2			1	1	1	1	1	1	1	1	1	1
	23514287	ELBOW, 90 DEG STREET				1										
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)				2		2	2	2	2	2	2	2	2	2
	23517094	HOSE, .75 X 10.00 LG SLCN (BLUE)						1			1	1	1			1
	23517097	HOSE, .75 X 12.50 LG SLCN (BLUE)							1	1					1	
	23517126	HOSE, .75 X 3.62 LG SLCN (BLUE)				1										
	12.4090	TUBE, AIR COMPRESSOR WATER OUTLET														
	23509261	HOSE ASSY., 5/8" X 9.64"L. (FORMER)		1												
2	23509550	HOSE, .75" X 28.0" L.		1			1									
2	23511888	HOSE, .75" X 7.38" LG.			1											
	23511890	HOSE, .75" X 20.00" L.			1	1										
1	8929782	HOSE ASSY., 5/8"X24.75"L. (FORMER)		1												
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)			4		2									
2	8929756	CLAMP 15/16"-1 1/4" (12.9660)		2												
1	8925593	CONNECTOR, 5/8" FL. TUBE 1/2" NPTF (12.9380) (FORMER)		2												
2	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)		1	1		1		1	1					1	
	8925076	ELBOW, 90 DEG-5/8" TUBE (FORMER)		1												
	8925574	ELBOW, 90 DEG			1	1										
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF				1										
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		1	3	2	1	2	1	1	2	2	2	2	1	2
	5101020	STRAP, NYLON (2.5255)			AR	1										
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)				2		2	2	2	2	2	2	2	2	2
	23517095	HOSE, .75 X 33.50 LG SLCN (BLUE)						1	1	1	1	1	1	1	1	1
	23517128	HOSE, .75 X 7.38 LG SLCN (BLUE)				1										

			TYPES										
12.4000A AIR COMPRESSOR			1	1	1	1	1	1	1	1	1	1	1
FIG. REF.	PART NO.	NAME AND DESCRIPTION	3	3	3	3	3	3	3	4	4	4	4
			7	8	8	9	9	9	9	0	0	0	0
			8	5	9	1	3	6	7	8	3	4	6
ASSY. SECT.													
	12.4095	CLIP, AIR COMPRESSOR WATER TUBE											
2	5146788	CLIP, 5/8" HOSE (2.5070)	1										
2	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)				1	1	1	1	1	1	1	1
	12.4375	TUBE, AIR COMPRESSOR BOOSTER											
2	23508340	HOSE, #.75MM X 18 LG.	1			1							
	23511887	HOSE, .75" X 4.50" LG.		1									
	23511889	HOSE, .75" X 9.00" LG.		1									
2	23506346	FLANGE & TUBE ASSY.	1			1	1	1	1	1	1	1	1
	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		2	1			1	1			1	
	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF		1	1					1	1	1	1
2	23506345	CONNECTOR ASSY. (12.9390)	1			1							
	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)		1	1								
	8924163	BUSHING, RED. 3/4" X 1/2" (12.9570)		3	2								
	23511892	TEE, PIPE 1/2"-14 INT & EXT BRASS (12.4090)		1	1								
2	179816	BOLT, 5/16"-18 X .75"	2			2	2	2	2	2	2	2	2
2	103320	LOCKWASHER, 5/16"	2			2	2	2	2	2	2	2	2
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)	2	4		2							
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)			4		2	2	2	2	2	2	2
	23517096	HOSE, .75 X 16.75 LG SLCN (BLUE)								1	1	1	1
	23517098	HOSE, .75 X 20.00 LG SLCN (BLUE)						1	1			1	
	23517127	HOSE, .75 X 4.50 LG SLCN (BLUE)			1								
	23517285	HOSE, .75 X 17.75 LG					1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				4	4	4	4	4	4	4	4	4	4	4	4
				1	1	2	3	4	4	4	4	5	5	5	5
				5	9	9	5	2	4	7	9	1	3	6	9
	12.4001	COMPRESSOR ASSY., AIR													
		COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES.													
	23522122	COMPRESSOR ASSY., 13CFM T/F550 BENDIX								1			1		
	23522123	CMPR AIR 16CFM T/F750 BENDIX CBORE HOLES												1	1
	R23516840	REMANUFACTURED 23516840					AR								
	R23516841	REMANUFACTURED 23516841			AR			AR	AR		1				
	R23517104	REMANUFACTURED 23517104	AR												
	23518389	COMPRESSOR AIR 31 CFM NAT ASP				1									
1,2	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.				4						4			
	11505299	BOLT, M10 X 1.5 X 30.0 MM			1					1			1	1	1
	11506101	NUT, M10 X 1.5			1					1	1		1	1	1
	23505050	BOLT, M10 X 1.5 X 85			4		4		4	4	4		4	4	4
	23516840	COMPRESSOR ASSY., 13CFM BENDIX T/F550 ADAPLESS (NS USE 23522122 COMPRESSOR & 2-11509512 BOLTS)				1									
	23516841	COMPRESSOR ASSY., 16CFM BENDIX T/F750 ADAPLESS			1			1	1						
	23517104	COMPRESSOR ASSY., 16CFM MIDLAND EL1600 ADAPLESS	1												
	23517130	STUD, SPL M10X1.5X90.0 AIR CMPR			1					1	1		1	1	1
	12.4005	GASKET, AIR COMPRESSOR MOUNTING.													
	8929299	GASKET, ACCESSORY FRONT			1					1			1	1	1
	23515145	GASKET AIR COMP 53/71/92 S50/60				1						1			
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING													
	23511719	BRACKET				1									
	8929874	SPACER, ECM ISOLATOR 3.0-3.4 THK				4									
2	11503454	BOLT, M10 X 1.5 X 20.0		2	2		2	2	2	2	2		2	2	2
	11505299	BOLT, M10 X 1.5 X 30.0 MM					1		1						
	11509511	BOLT, M8 X 1.25 X 20 MM		2	2		2	2	2		2				
	11509512	BOLT, M8 X 1.25 X 25 MM								2			2	2	2
2	186629	BOLT, 5/16"-18 X 1"									2				
2	103320	LOCKWASHER, 5/16"				4					2				
	11506101	NUT, M10 X 1.5	1				1	1	1						
	120368	NUT, 5/16"-24 (12.9120)				4									
	23505062	BOLT, M10 X 1.5 X 40 (12.9001)				2									
	23515369	BRACKET, AIR CMPR SUPT ADAPLESS		1	1		1	1	1	1	1		1	1	1

			TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1
				4	4	4	4	4	4	4	4	4	4	4
				1	1	2	3	4	4	4	4	5	5	5
				5	9	9	5	2	4	7	9	1	3	6
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING (CONT.)												
	23517130	STUD, SPL M10X1.5X90.0 AIR CMPR		1			1	1	1					
	5157412	SPACER, 7/8"X13/32"X1/4"				2								
	12.4030	DRIVE ASSY., AIR COMPRESSOR												
		AN AIR COMPRESSOR DRIVE ASSY. INCLUDES ITEMS IN 12.4036, 12.4040, 12.4047, 12.4048 AND 12.4072.												
3	23503880	DRIVE ASSY., AIR COMPRESSOR	A1			1								
	23521251	DRIVE ASSY.,W/PMP CHRG AIR CLR MARINE	A1									1		
3	11505299	BOLT, M10 X 1.5 X 30.0 MM		1		1		1			1	1		
3	23505050	BOLT, M10 X 1.5 X 85		3		5		4				5		
3	23509160	BOLT, M10X1.5X85.0 FLG HEADED		1										
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE,1/4"NPTF										1		
	12.4032	COVER, AIR COMPRESSOR DRIVE ADAPTOR												
	8929264	COVER (1.7700)										1		
	11513811	BOLT, M12 X 1.75 X 20 MM										1		
	5180370	WASHER, .55" I.D. COPPER (7.4969)										1		
	12.4039	GASKET, AIR COMPRESSOR DRIVE HOUSING												
1,3	8929299	GASKET, ACCESSORY FRONT		1		1	1	1			1	1		
	12.4050	COUPLING, AIR COMPRESSOR DRIVE												
3	5141773	COUPLING				1								
	12.4065	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY												
	BAHH0156	HOSE ASSY., #6 X 17.9 H&H		1										
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H			1		1		1	1			1	1
	BAHP0144	HOSE ASSY., #6 X 16.7" H&P				1								
	FAHH0170	HOSE ASSY.,#6 X 19.5"L						1			1			
2	8924998	ELBOW (90 DEG.)		1			1		1				1	
2	8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)				1								1
	23504991	CONNECTOR, 5/8" FLD TUBE 1/8" NPTF BRASS (12.9460)				1								
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)		1	1		1	1	1	1	1		1	1

			TYPES										
			1	1	1	1	1	1	1	1	1	1	1
			4	4	4	4	4	4	4	4	4	4	4
FIG. REF.	PART NO.	NAME AND DESCRIPTION	1	1	2	3	4	4	4	5	5	5	5
			5	9	9	5	2	4	7	9	1	3	6
		12.4000A AIR COMPRESSOR											
	12.4065	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY (CONT.)											
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)							1			1	
	23521194	VALVE							1			1	
	8923847	PLUG, PIPE 1/4-18" NPTF		1			1			1			
	23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)			1								
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60		1			1			1			
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)			2								
	23520667	ADAPTOR					1			1			
	12.4070	TUBE, AIR COMPRESSOR LUBE OIL DRAIN											
	BBHH0137	HOSE ASSY., #8 X 16.50" H&H			1								
	8924220	ELBOW, 90 DEG. 1/2" FLD TUBE 1/2" NPTF (3.5505)			2								
	8924163	BUSHING, RED. 3/4" X 1/2" (12.9570)			1								
	12.4085	TUBE, AIR COMPRESSOR WATER INLET											
	GDLL0134	HOSE ASSY., #12 X 16.70 LG L&L 2807					1			1			
	23507896	CLAMP, 13/16"-1 1/2" I.D. CONSTANT TORQUE				4							
1	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)	1		1								
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		1	1	1		1	1			1	1
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF	1	1		1	2	1	1	1		1	1
	23514287	ELBOW, 90 DEG STREET			1								
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)	2	2	2			2	2	2		2	2
	23517094	HOSE, .75 X 10.00 LG SLCN (BLUE)		1		1	1	1	1	1		1	1
	23517097	HOSE, .75 X 12.50 LG SLCN (BLUE)	1										
	23517126	HOSE, .75 X 3.62 LG SLCN (BLUE)			1								
	8924174	ADAPTOR, 1/2"-14 PIPE (12.9565)					1			1			
	12.4090	TUBE, AIR COMPRESSOR WATER OUTLET											
2	8929748	CONNECTOR, 3/4" TUBE 1/2" NPTF BRS (12.4085)	1										
	8925574	ELBOW, 90 DEG			1								
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF			1								
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)	1	2	1	2		2	2			2	2
	5101020	STRAP, NYLON (2.5255)			1								
	GDJL0260	HOSE ASSY., #12 X 64.6LG BRAIDED					1			1			
	23507896	CLAMP, 13/16"-1 1/2" I.D. CONSTANT TORQUE				2							
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)	2	2				2	2			2	2

			TYPES													
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1	1	1	1	1
				4	4	4	4	4	4	4	4	4	4	4	4	4
				1	1	2	3	4	4	4	4	5	5	5	5	5
				5	9	9	5	2	4	7	9	1	3	6	9	
	12.4090	TUBE, AIR COMPRESSOR WATER OUTLET (CONT.)														
	23517095	HOSE, .75 X 33.50 LG SLCN (BLUE)		1	1		1									
	23517128	HOSE, .75 X 7.38 LG SLCN (BLUE)				1										
	23519268	HOSE .75 X 33.50 LG SLCN (BLUE)S80							1	1			1	1		1
	23520666	ELBOW 90 DEG						2			1					
	2476233	CLIP, .750" DIA., 3/8" BOLT						1			2					
	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)			1		1		1							
	12.4095	CLIP, AIR COMPRESSOR WATER TUBE														
2	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)		1						1			1	1		1
	12.4300	STRAINER, AIR COMPRESSOR ON COMPRESSOR														
	23521520	GASKET FLANGE AIR COMP DISCHARGE									1					
	12.4305	GOVERNOR KIT, AIR COMPRESSOR														
	23511269	GOVERNOR KIT							1				1			
	23511270	GASKET, GOVERNOR							1				1			
	8924380	PLUG, 1/8"-27 PIPE (12.9550)							6				6			
	179829	BOLT, 5/16"-18 X 2.75"											2			
	193211	BOLT, 5/16"-18X2 7/8"							2							
	103340	LOCKWASHER, 5/16"							2				2			
	103320	LOCKWASHER, 5/16"							2				2			
	12.4375	TUBE, AIR COMPRESSOR BOOSTER														
	23521563	HOSE, .75 X 17.75 (BLUE)														1
2	23506346	FLANGE & TUBE ASSY.		1	1		1		1	1			1	1		1
	23521117	FLANGE AIR COMP INLET						1			1					
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE									1					
	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		1		2	1		1	1			1	1		1
	23520665	ELBOW						1			1					
	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF			1						1					
	9402867	ELBOW, 3/4"-90 DEG. HYD. FLARED						1								
2	179816	BOLT, 5/16"-18 X .75"		2	2		2		2	2			2	2		2
	186629	BOLT, 5/16"-18 X 1"						2			2					
2	103320	LOCKWASHER, 5/16"		2	2		2	2	2	2	2		2	2		2
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)														2
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)		2	2	2			2	2			2	2		

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1	1	1	1	1	1	1	1	1	1	1	1
				4	4	4	4	4	4	4	4	4	4	4	4
				1	1	2	3	4	4	4	4	5	5	5	5
		12.4000A AIR COMPRESSOR		5	9	9	5	2	4	7	9	1	3	6	9
	12.4375	TUBE, AIR COMPRESSOR BOOSTER (CONT.)													
	23517096	HOSE, .75 X 16.75 LG SLCN (BLUE)			1										
	23517098	HOSE, .75 X 20.00 LG SLCN (BLUE)	1			1									
	23517285	HOSE, .75 X 17.75 LG					1		1	1			1	1	
	23521519	FLANGE AIR COMP DISCHARGE									1				

			TYPES												
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	1	1	1	1	1	1	1	1			
				4	4	4	4	4	4	4	4	4	4		
				6	6	7	7	8	8	8	8	8	9		
				3	8	1	2	1	2	5	6	3			
	12.4001	COMPRESSOR ASSY., AIR COMPONENTS OF AIR COMPRESSOR ASSY. ARE NOT SERVICED BY DDC. FOR COMPONENT REPLACEMENT CONTACT BENDIX WESTINGHOUSE (BW) OR MIDLAND ROSS (MR) FURNISH THEIR ASSEMBLY PART NUMBER WHICH IS SHOWN IN PARENTHESES. NPN (CUSTOMER FURNISHED)COMPRESSOR ASSY.									1	1			
	23522122	COMPRESSOR ASSY., 13CFM T/F550 BENDIX			1			1							
	23522123	CMPR AIR 16CFM T/F750 BENDIX CBORE HOLES	1				1								
	23524143	COMPRESSOR ASSY., AIR 28CFM BENDIX							1					1	
	23524265	VALVE, OIL SAMPLING						1						1	
1,2	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.							4	4				4	
	11505299	BOLT, M10 X 1.5 X 30.0 MM	1	1			1								
	11506101	NUT, M10 X 1.5	1	1			1								
	11507036	NUT, M8 X 1.25							2					2	
	23505050	BOLT, M10 X 1.5 X 85	4	4			4								
	23517130	STUD, SPL M10X1.5X90.0 AIR CMPR	1	1			1								
	23524184	ELBOW												1	
	5244760124	FITTING, M27 X 2 ISO 6149 TO 1 5/16"-12												1	
	12.4005	GASKET, AIR COMPRESSOR MOUNTING.													
	8929299	GASKET, ACCESSORY FRONT	1	1			1								
	23515145	GASKET AIR COMP 53/71/92 S50/60							1	1				1	
	12.4010	BRACKET, AIR COMPRESSOR MOUNTING													
	23523536	BRACKET					1								
	23524183	BRACKET, AIR COMPRESSOR SUPT RR							1					1	
	8929169	WASHER (12.9190)									1				
2	11503454	BOLT, M10 X 1.5 X 20.0	2	2			2	2	2					2	
	11509512	BOLT, M8 X 1.25 X 25 MM	2	2			2	2							
	11506101	NUT, M10 X 1.5						1							
	23515369	BRACKET, AIR CMPR SUPT ADAPLESS	1	1				1							
	23517130	STUD, SPL M10X1.5X90.0 AIR CMPR						1							

			TYPES									
			1	1	1	1	1	1	1	1	1	
			4	4	4	4	4	4	4	4	4	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	6	6	7	7	8	8	8	8	9	
			3	8	1	2	1	2	5	6	3	
		12.4000A AIR COMPRESSOR										
		DRIVE ASSY., AIR COMPRESSOR										
		AN AIR COMPRESSOR DRIVE ASSY. INCLUDES ITEMS IN 12.4036, 12.4040, 12.4047, 12.4048 AND 12.4072.										
3	23503880	DRIVE ASSY., AIR COMPRESSOR	A1		1		1	1		1		
3	11505299	BOLT, M10 X 1.5 X 30.0 MM			1	1	1	1		1		
3	23505050	BOLT, M10 X 1.5 X 85			5	4	4	4		4		
3	23509160	BOLT, M10X1.5X85.0 FLG HEADED					1			1		
	23524838	BOLT						1				
	8924146	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF			1							
		12.4032 COVER, AIR COMPRESSOR DRIVE ADAPTOR										
	8929264	COVER (1.7700)			1			1				
	11513811	BOLT, M12 X 1.75 X 20 MM			1			1				
	23509520	BOLT, M12X1.75X47.0 METRIC FLG. HEX HD.			4							
	5180370	WASHER, .55" I.D. COPPER (7.4969)			1			1				
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP			1							
		12.4039 GASKET, AIR COMPRESSOR DRIVE HOUSING										
1,3	8929299	GASKET, ACCESSORY FRONT			1	1	1	1		1		
	23515145	GASKET AIR COMP 53/71/92 S50/60			1							
		12.4040 HUB, AIR COMPRESSOR										
3	8929721	HUB								1		
		12.4050 COUPLING, AIR COMPRESSOR DRIVE										
3	5141773	COUPLING					1		1	1		
		12.4065 TUBE, AIR COMPRESSOR LUBE OIL SUPPLY										
	BAHH0177	HOSE ASSY., #6 X 20.0 H&H	1	1		1	1					
	BAHH0202	HOSE ASSY., SUPPLY TO A/C						1		1		
2	8924998	ELBOW (90 DEG.)		1		1						
	8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	1	1		1	1	1		1		
	23505247	TEE, 90 DEG 5/8" TUBE 2 WAY 1/4" PIPE (12.9616)					1					
	8924178	TEE, 1/4"-18							1			
1	8922327	PLUG, 1/4" NPTF (12.9550)							2			
	8923847	PLUG, PIPE 1/4-18" NPTF	1									

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.										
				1	1	1	1	1	1	1	1	1	1
				4	4	4	4	4	4	4	4	4	4
				6	6	7	7	8	8	8	8	9	
				3	8	1	2	1	2	5	6	3	
12.4000A AIR COMPRESSOR													
	12.4065	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY											
	23515900	TEE 2WAY 3/8 TUB 1/4 NPTF M&F STL S60		1									
	23524185	FITTING							1				
	23524360	CONNECTOR							1			1	
	23525864	FITTING										1	
	12.4085	TUBE, AIR COMPRESSOR WATER INLET											
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		1	1		1	1					
2	8929749	ELBOW, 90 DEG. 3/4" TUBE 1/2" NPTF		1	1		1	1					
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)		2	2		2	2					
	23517094	HOSE, .75 X 10.00 LG SLCN (BLUE)		1	1		1	1					
	23524186	ELBOW							2			1	
	23524187	ELBOW							1			1	
	23524193	HOSE, .62 X 9.30 LG SLCN BLUE							1			1	
	12.4090	TUBE, AIR COMPRESSOR WATER OUTLET											
2	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)		2	2		2	2					
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)		2	2		2	2					
	23519268	HOSE .75 X 33.50 LG SLCN (BLUE)S60		1	1		1	1					
	23524184	ELBOW							1				
	23524186	ELBOW										1	
	23524187	ELBOW							1			1	
	23524194	HOSE, .62 X 29 LG SLCN BLUE							1			1	
	5244760124	FITTING, M27 X 2 ISO 6149 TO 1 5/16"-12							1				
	12.4095	CLIP, AIR COMPRESSOR WATER TUBE											
2	5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)		1	1		1	1					
	11503454	BOLT, M10 X 1.5 X 20.0										1	
	23506443	CLIP, #16 HOSE 1" DIA. (4.8183)							1			1	
	12.4097	CLAMP, AIR COMPRESSOR WATER TUBE HOSE											
	23524188	CLAMP, HOSE							4			4	
	12.4300	STRAINER, AIR COMPRESSOR ON COMPRESSOR											
	23521520	GASKET FLANGE AIR COMP DISCHARGE		1									

			TYPES									
12.4000A AIR COMPRESSOR			1	1	1	1	1	1	1	1		
			4	4	4	4	4	4	4	4		
FIG. REF.	PART NO.	NAME AND DESCRIPTION	6	6	7	7	8	8	8	8	9	
			3	8	1	2	1	2	5	6	3	
12.4375 TUBE, AIR COMPRESSOR BOOSTER												
	23521563	HOSE, .75 X 17.75 (BLUE)	1									
2	23506346	FLANGE & TUBE ASSY.	1	1		1	1					
	23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1									
	23505201	ELBOW, 45 DEG. 3/4" HOSE (12.4085)	1	1		1	1					
2	179816	BOLT, 5/16"-18 X .75"	2	2		2	2					
	186629	BOLT, 5/16"-18 X 1"	2									
2	103320	LOCKWASHER, 5/16"	4	2		2	2					
	23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP							1			
	23514625	CLAMP HOSE 15MMX17MM I.D.(ROTOR CLIP)	2									
	23517093	CLAMP, HOSE 15MMX25.2MM ID (ROTOR CLIP)		2		2	2					
	23517285	HOSE, .75 X 17.75 LG		1		1	1					
	23521519	FLANGE AIR COMP DISCHARGE	1									

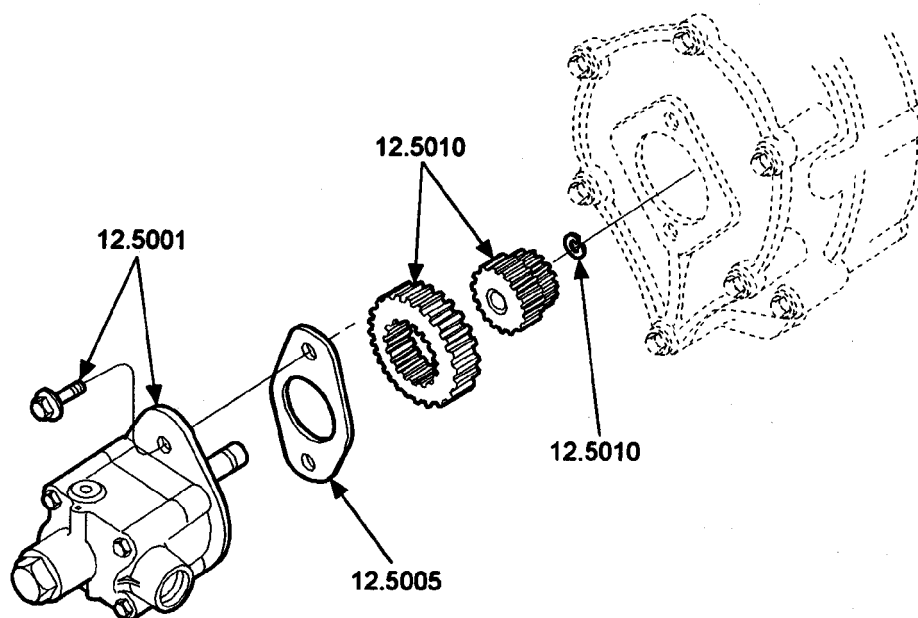
DETROIT DIESEL**SERIES 60 ENGINE**

FIG. 1 POWER STEERING PUMP

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FIG. 1 OF 12.5000A

			TYPES												
12.5000A HYDRAULIC PUMP			1	1	1	1	2	2	2	2	4	4	4	4	
			9	9	9	9	0	0	0	0	4	4	4	4	
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	1	2	4	8	0	2	3	8	4	5	7	9
	12.5001	PUMP ASSY., HYDRAULIC													
	NPN	(CUSTOMER FURNISHED)PUMP ASSY.													
1	23511242	PUMP ASSY., POWER STEERING		1		1		1	1			1	1		1
1	11505299	BOLT, M10 X 1.5 X 30.0 MM			2	2	2	2	2	2			2		2
	5145225	WASHER, .39"X.75"X.08" (2.7001)			2	2	2	2	2	2			2		2
	12.5005	GASKET, HYDRAULIC PUMP													
1	23509124	GASKET, PWR STRG PMP COVER			2	2	2		1	1			2		2
1	23516100	GASKET, PWR STRG PMP COVER/FUEL PUMP						2							
	23516101	GASKET P/S PMP CVR SAE B FLG ANTSTIK												1	
	12.5010	COUPLING, HYDRAULIC PUMP DRIVE													
	5135378	COUPLING (12.5010)									1				
1	5143616	COUPLING		1	1	1		1		1	1	1			1
1	23505339	SPROCKET, POWER STEERING PUMP				1									
1	23508957	SPROCKET AND RING ASSY						1		1		1			1
1	23505643	LOCKRING (USE FOR P/S PUMP ADAPTATION)				1		1		1		1			1
	455921	PIN, 1/8"X1 1/2" (12.9275)									1				
	12.5020	ADAPTOR, HYDRAULIC PUMP													
	23505272	HOUSING, POWER STEERING PUMP			1	1	1	1					1		
	23508725	HOUSING, POWER STEERING PUMP							1	1					1
	23511296	HOUSING, POWER STEERING PUMP													
	103340	LOCKWASHER, 5/16"													1
	11509528	BOLT, M12 X 1.75 X 30 MM													2
	23515409	SCREW SOC HD M8 1.25 X 30MM													1
	5180370	WASHER, .55" I.D. COPPER (7.4969)													2
	12.5030	GEAR, HYDRAULIC PUMP DRIVE													
	23505489	GEAR		1											

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				1 7	5 8										
		12.6000B AIR STARTER													
	12.6080	AIR STARTER ASSY.													
	5132584	AIR STARTER ASSY. (I.R. #E21RH-31)		1	1										
	23502677	BOLT 5/8"-11X1 3/4"			3										
	271557	BOLT, 5/8"-11X1 3/8" (12.9001)		3											
	103325	LOCKWASHER, 5/8"		3	3										
	12.6085	GASKET, AIR STARTER MOUNTING													
	5130995	GASKET, STARTER MOTOR		1	1										
	12.6120	AIR STRAINER AND LUBRICATION ASSY., AIR STARTER													
	5133191	AIR STRAINER AND LUBRICATOR ASSY.		1											
	127874	NIP PIPE 1"X1 1/2"		1	1										
	12.6140	GAUGE, AIR PRESSURE METRIC													
	1566992	MEDALLION ASSY.		1	1										
	5175547	BRACKET (7.4020)		1	1										
	142079	PLUG, 5/8" DIA. BUTTON (12.9340)		1	1										

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	9	1								
		12.6000C COLD WEATHER STARTING AIR KIT		7	0								
					9								
	12.6301	COLD WEATHER STARTING AID KIT											
	23519066	KIT, TUBING AFTERMARKET ETHER START		1									
	23523137	KIT, ETHER START 21OZ 24V W/O CYL		1									
	5143616	COUPLING		1									
	23508957	SPROCKET AND RING ASSY		1									
	23515398	KIT, COOLANT LEVEL SENSOR 3/8" NPT DDED 3		1									
	5140347	CONNECTOR, 5.00" O.D. X 4.00"L. (6.2095)		1									
	12.6420	ELEMENT ASSY., HEATER											
	23506478	ELEMENT ASSY., HEATER 1000W 120V			1								
	8924152	BUSHING, RED 1X3/4" (12.9570)			1								
	23515818	LABEL, BLOCK HEATER NOTICE			1								
	12.6430	THERMOSTAT											
	23514444	THERMOSTAT ASM.KIMHOTSTR 100/120 DEGF			1								
	12.6440	HARNESS ASSY., THERMOSTAT WIRE											
	23506474	HARNESS ASSY.			1								
	2476233	CLIP, .750" DIA., 3/8" BOLT			3								
	132768	SCREW, #8-32X3/4" RD. HD. SL.			4								
	106496	LOCKWASHER, #8			4								
	12.6450	BRACKET, HARNESS MOUNTING											
	23525203	BRACKET, HARNESS ASSY. MOUNTING			1								
	11503454	BOLT, M10 X 1.5 X 20.0			1								
	11509511	BOLT, M8 X 1.25 X 20 MM			1								

				TYPES											
12.7000A APPEARANCE PACKAGE PARTS				1 9	2 1	2 2	2 3	2 4	2 9	3 0	3 1	3 2	3 6	3 7	3 8
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
	12.7001	APPEARANCE PACKAGE PARTS - SECTION 1													
	23512885	BRACKET, ENGINE LIFTER (1.2070)	A1	1					1						1
	23513533	BRACKET, ENGINE LIFTER (1.2070)			1	1	1	1		1		1	1	1	
	23512882	COVER, ROCKER LOWER (1.8450)	A1	1	1	1	1	1	1	1	1	1	1	1	1
	23512883	COVER, ROCKER UPPER (1.8450)	A1	1	1	1	1	1	1	1	1	1	1	1	1
	5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)		8	8	8	8	8	8	8	8	8			8
	12.7003	APPEARANCE PACKAGE PARTS - SECTION 3													
	23512884	MANIFOLD, AIR INTAKE (3.3801)		1		1									
	23513522	MANIFOLD, AIR INTAKE 60 DEG. INLET (3.3801)					1								
	23513523	MANIFOLD, AIR INTAKE SET-BACK (3.3801)			1										
	23513645	MANIFOLD AIR INT HORIZ INL CHR DDEC 3 (3.3801)							1	1					
	23513646	MANIFOLD AIR INT 60DEG INL CHR DDEC 3 (3.3801)									1	1			
	23513647	MANIFOLD AIR INTAKE SET-BACK CHROME (3.3801)						1							
	23519085	MANIFOLD AIR INT HORIZ CHR 1/2 SC BOSS S													1
	23519086	MANIFOLD AIR INT 60DEG INL CHR 1/2 SC BO												1	
	23519087	MANIFOLD AIR INT SET-BACK CHR 1/2 SC BOS											1		
	12.7005	APPEARANCE PACKAGE PARTS - SECTION 5													
	23512886	TUBE, WATER BY-PASS (5.2160)	B1	1					1						1

					TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.		3 9	4 0								
		12.7000A APPEARANCE PACKAGE PARTS												
	12.7001	APPEARANCE PACKAGE PARTS - SECTION 1												
	23513533	BRACKET, ENGINE LIFTER (1.2070)				1								
	23512882	COVER, ROCKER LOWER (1.8450)	A1	1	1									
	23512883	COVER, ROCKER UPPER (1.8450)	A1	1	1									
	5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)		8	8									
	12.7003	APPEARANCE PACKAGE PARTS - SECTION 3												
	23519085	MANIFOLD AIR INT HORIZ CHR 1/2 SC BOSS S				1								
	23519086	MANIFOLD AIR INT 60DEG INL CHR 1/2 SC BO		1										
	12.7005	APPEARANCE PACKAGE PARTS - SECTION 5												
	23512886	TUBE, WATER BY-PASS (5.2160)	B1		1									

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES											
			A	B	C									
		12.7000A APPEARANCE PACKAGE PARTS												
		(Note: Assemblies are shown for component reference only.)												
	12.7001	APPEARANCE PACKAGE PARTS - SECTION 1												
	23512885	BRACKET, ENGINE LIFTER (1.2070)	1											
	23512882	COVER, ROCKER LOWER (1.8450)		1										
	23512883	COVER, ROCKER UPPER (1.8450)			1									
	23509250	BRACKET (ITEM 1)	1											
	23511634	COVER RKR LWR AL 2&3PC ENLRG SEAL GRV		1										
	23513427	COVER RKR UPR 2 PC ALUM S60			1									

ASSEMBLIES

		12.7000A APPEARANCE PACKAGE PARTS	A																	
FIG. REF.	PART NO.	NAME AND DESCRIPTION																		
		(Note: Assemblies are shown for component reference only.)																		
	12.7005	APPEARANCE PACKAGE PARTS - SECTION 5																		
	23512886	TUBE, WATER BY-PASS (5.2160)	1																	
	23505898	TUBE	1																	

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A											
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS													
	12.8001	PAINT, ENGINE TOUCH-UP													
	8929665	PAINT, BLUE (1 GAL. CAN)		AR											
	8929666	PAINT, BLUE (12 OZ. SPRAY CAN)		AR											
	8929667	PAINT, CLEAR (1 GAL. CAN)		AR											
	8929668	PAINT, CLEAR (12 OZ. SPRAY CAN)		AR											
	12.8005	KIT, FILTER MAINTENANCE-FUEL/OIL													
	23518018	KIT, FILTER MAINTENANCE S50/60 W/23516189 PRIMARY		AR											
	23518683	KIT, FILTER MAINTENANCE S60 (PRE-1993)		AR											
	23518686	KIT, FILTER MAINTENANCE S50/60 (1993-)		AR											
	12.8006	FUEL SYSTEM PRODUCTS													
	23520047	FILTER ASSY.PRIMARY 30 MICRON SEA PRO 150		AR											
	23518168	ELEMENT PRIMARY 30 MICRN SEAPRO 300		AR											
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	A1	AR											
	23519956	PROCESSOR ASSY., FUEL PRO 380 NO HEAT CHROMENOT SER. USE 23523140 ASSY.	A1	AR											
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT	A1	AR											
	23523140	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/INTEGRAL BRKT	A1	AR											
	23523574	PROCESSOR ASSY.FUELPRO 382 FLUID W/12V PREHEATER	A1	AR											
	23523575	PROCESSOR ASSY FUELPRO 382 FLUID W/24V PREHEATER	A1	AR											
	23523592	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/12V PREHEATER	A1	AR											
	23523593	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/24V PREHEATER	A1	AR											
	23521049	PROCESSOR ASSY., FUEL PRO 380 12V W/GROUND	A1	AR											
	23513543	PRO-CHEK FUEL/AIR SEPARATOR REAR MT		AR											
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT	A1	AR											
	23513542	INSTALLATION KIT FOR PRO-CHEK SIDE MT		AR											
	23519957	PROCESSOR ASSY., FUEL PRO 380 12V W/FLUID HEATNOT SER. USE 23523574 PROCESSOR ASSY.	A1	AR											

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
	12.8006	FUEL SYSTEM PRODUCTS (CONT.)											
	23515444	PRO-CHEK FUEL/AIR SEPARATOR SIDE MT		AR									
	23519724	PROCESSOR ASSY., FUEL PRO 380 24V W/FLUID HEATNOT SER.USE 23523575 PROCESSOR ASSY.	A1	AR									
	23521056	PROCESSOR ASSY., FUEL PRO 380 12V HEAT WIF SENSOR	A1	NS									
	23523595	PROCESSOR ASSY FUEL PRO 382 12V PREHEAT WIF		AR									
	23520907	PROCESSOR ASSY. FUEL PRO 380 12V/120V HEAT	A1	AR									
	23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERTER CAP	B1	AR									
	23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERTER CAP	B1	AR									
	23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERTER CAP	B1	AR									
	23519239	KIT, FUEL PRO 380F 12V W/O DIVERTER CAPNOT SER. USE 23523574 PROCESSOR ASSY.	B1	AR									
	23519725	KIT, FUEL PRO 380 24V FLUID HEAT W/O DIVERTER CAPNOT SER. USE 23523575 PROCESSOR ASSY.	B1	AR									
	23519237	KIT, FUEL PRO 380E NO HEAT W/DIVERTER CAPNOT SER.USE 23523140 PROCSR ASSY.& 23519116 CAP	B1	AR									
	23519238	KIT, FUEL PRO 380E 12V HEAT CHROME W/DIVERTER CAP	B1	AR									
	23519235	KIT, FUEL PRO 380E 12V HEAT W/DIVERTER CAPNOT SER.USE 23523592 PROCSR ASSY.& 23519116 CAP	B1	NS									
	23519236	KIT, FUEL PRO 380E 24V HEAT W/DIVERTER CAPNOT SER.USE 23523593 PROCSR ASSY.& 23519116 CAP	B1	NS									
	23519778	KIT FUEL PRO 380 12V/120V HEAT W/DIVERTER CAP	B1	AR									
	23516731	WRENCH, COLLAR FUEL PRO 380/382 (REMOVAL ONLY)		AR									
	23518360	KIT, 12V HEATER UPGRADE (LONG CAN)		AR									
	23518361	KIT, 24V HEATER UPGRADE (LONG CAN)		AR									
	23519116	CAP ASSY., DIVERTER 13/16"-12, 3.225" SEAL ID		AR									

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES											
				A											
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS													
	12.8025	OIL, ENGINE LUBRICATING													
	ATFBULK	BULK MOBIL MULTI-PURPOSE ATF	AR												
	ATFDRUM	55 GAL. MOBIL MULTI-PURPOSE ATF	AR												
	ATFGAL	1 GAL. PAIL MOBIL MULTI-PURPOSE ATF	AR												
	ATFQUART	12 QUART MOBIL MULTI-PURPOSE ATF	AR												
	GREASEK	60X14 OZ. CARTRIDGES MOBILGREASE SPECIAL	AR												
	GREASED	400 LB. DRUM MOBILGREASE SPECIAL	AR												
	GREASEK	120 LB. KEG MOBILGREASE SPECIAL	AR												
	HPCART	60X14 OZ. CARTRIDGES MOBILGREASE HP	AR												
	HPDRUM	400 LB. DRUM MOBILGREASE HP	AR												
	HPKEG	120 LB. KEG MOBILGREASE HP	AR												
	MOBIL424	55 GAL. MOBILFLUID 424	AR												
	SHC50D	375 LB. DRUM MOBILTRANS SHC 50	AR												
	SHC50K	120 LB. KEG MOBILTRANS SHC 50	AR												
	SHC50P	35 LB. PAIL MOBILTRANS SHC 50	AR												
	23512703	1 GAL. DELVAC 1300 SUPER 4 CYL ENG	AR												
	23512704	55 GAL. DELVAC 1300 SUPER 4 CYL ENG	AR												
	23512740	BULK DELVAC 1300 SUPER 4 CYL ENG	AR												
	23512741	5 GAL. DELVAC 1300 SUPER 4 CYL ENG	AR												
	23518542	55 GAL. SUPER GEO NATURAL GAS ENGINE	AR												
	23520318	1 GAL. POWER GUARD DELVAC 1 4 CYL ENG	AR												
	23520320	55 GAL. POWER GUARD DELVAC 1 4 CYL ENG	AR												
	75W90D	400 LB. DRUM MOBILUBE SHC 75W90	AR												
	75W90K	120 LB. KEG MOBILUBE SHC 75W90	AR												
	75W90P	35 LB. PAIL MOBILUBE SHC 75W90	AR												
	80W140D	400 LB. BARREL MOBILUBE SHC 80W140	AR												
	80W140K	120 LB. KEG MOBILUBE SHC 80W140	AR												
	80W140P	35 LB. PAIL MOBILUBE SHC 80W140	AR												
	80W90D	400 LB. DRUM MOBILUBE HD 80W90	AR												
	80W90K	120 LB. KEG MOBILUBE HD 80W90	AR												
	80W90P	35 LB. PAIL MOBILUBE HD 80W90	AR												
	85W140D	400 LB. DRUM MOBILUBE HD 85W140	AR												
	85W140K	120 LB. KEG MOBILUBE HD 85W140	AR												
	85W140P	35 LB. PAIL MOBILUBE HD 85W140	AR												

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A											
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS													
	12.8070	HAND CLEANERS													
	23523182	HAND CLEANER FAST ORANGE SMOOTH LOTION 15OZ BOTTLE	AR												
	23523185	HAND CLEANER FAST ORANGE PUMICE LOTION 15OZ BOTTLE	AR												
	23523187	HAND CLEANER TROUNCE LOTION 15OZ BOTTLE	AR												
	23523183	HAND CLEANER FAST ORANGE SMOOTH LOTION 1GAL BOTTLE	AR												
	23523184	HAND CLEANER FAST ORANGE PUMICE LOTION 1GAL BOTTLE	AR												
	23523186	HAND CLEANER TROUNCE LOTION 1GAL BOTTLE	AR												
	23523223	BRACKET, WALL MOUNT 1GAL PUMP BOTTLE	AR												
	12.8110	LUBRICATING COMPOUND THREAD													
	5198563	INTERNATIONAL COMPOUND #2 QT.	AR												
	23509545	SEAL, ANTI-SEIZE HEAT & RUST 1 LB.	AR												
	12.8205	FILTER, AIR/OIL SEPARATOR BRAKE SYSTEM													
	23526763	FILTER, INLINE AIR/OIL BRAKE SYSTEM	AR												
	23526765	KIT, INLNE AIR/OIL BRAKE SYSTEM	AR												
	23526764	KIT, REBUILD FILTER/SEPARATOR	AR												
	12.8242	THREADLOCK & SEALER													
	23509535	THREADLOCK, MEDIUM STRENGTH (50 ML.)	AR												
	23509536	THREADLOCK, MEDIUM STRENGTH (10 ML.)	AR												
	23509537	THREADLOCK, HIGH STRENGTH (10 ML.)	AR												
	23509538	THREADLOCK, HIGH STRENGTH (50 ML.)	AR												
	23509539	THREADLOCK, PENETRATING (10 ML.)	AR												
	23509542	SEALER, THREAD (50 ML.)	AR												
	23509544	SEALANT, COMPOUND (50 ML.)	AR												
	12.8255	SEALANT, RTV													
	23509540	SEALANT, GASKET ELIMINATOR (50 ML.)	AR												
	23523064	SEALANT, GASKET ELIMINATOR (50ML.)FOR INSTALLING FRT & REAR CAMSHAFT CAPS	AR												
	23509541	SEALANT, GASKET ELIMINATOR (300 ML.)	AR												
	23509543	SEALANT, ULTRA BLUE RTV 3 OZ.	AR												
	23509603	SEALANT, BLACK RTV 11 OZ.	AR												
	23523188	SEALANT, HIGH TEMP RED RTV 11 OZ.	AR												

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
	12.8260	ADDITIVES, SUPPLEMENTAL COOLANT											
	23507855	SUPPLEMENT, COOLANT ADDITIVE 1/2 GAL. (DD-3000-HG)	AR										
	23507856	SUPPLEMENT, COOLANT ADDITIVE 5 GAL. (DD-3000-11)	AR										
	23507857	SUPPLEMENT, COOLANT ADDITIVE 55 GAL. (DD-3000-15)	AR										
	23507858	SUPPLEMENT, COOLANT ADDITIVE 1 PT. (DD-2000-P)	AR										
	23507859	SUPPLEMENT, COOLANT ADDITIVE 1/2 GAL. (DD-2000-HG)	AR										
	23507860	SUPPLEMENT, COOLANT ADDITIVE 5 GAL. (DD-2000-11)	AR										
	23507861	SUPPLEMENT, COOLANT ADDITIVE 55 GAL. (DD-2000-15)	AR										
	23507854	SUPPLEMENT, COOLANT ADDITIVE (1 PT.) (DD-3000-P)	AR										
	23512138	PRECHARGED COOLANT (1 GAL.) CONCENTRATED	AR										
	23512139	PRECHARGED COOLANT (55 GAL.) CONCENTRATED	AR										
	23512140	PRECHARGED COOLANT (BULK) CONCENTRATED	AR										
	23513503	POWER COOL COOLANT (BULK) PRE-BLENDED 50/50	AR										
	23518918	POWER COOL COOLANT (55 GAL.) PRE-BLENDED 50/50	AR										
	23519394	POWER COOL PLUS EXTENDED LIFE COOLANT 55 GAL (OAC)CONCENTRATED	AR										
	23519395	PWER COOL PLUS EXTENDED LIFE COOLANT BULK (OAC)CONCENTRATED	AR										
	23519396	POWER COOL PLUS EXTENDED LIFE COOLANT 1 GAL (OAC)PRE-BLENDED 50/50	AR										
	23519397	POWER COOL PLUS EXTENDED LIFE COOLANT 1 GAL (OAC)CONCENTRATED	AR										
	23519398	POWER COOL PLUS EXTENDED LIFE COOLANT 55 GAL (OAC)PRE-BLENDED 50/50	AR										
	23519399	POWER COOL PLUS EXTENDED LIFE COOLANT (OAC)PRE-BLENDED 50/50	AR										
	23519400	POWER COOL PLUS EXTENDER FOR USE W/POWER COOL PLUS	AR										
	23522127	POWER COOL PLUS 6000 FOR MARINE/OTHER WATER ONLYSYSTEMS	AR										
	23522128	POWER COOL PLUS 6000 FOR MARINE/OTHER WATER ONLYSYSTEMS	AR										

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
	12.8270	CLEANER, COOLANT SYSTEM											
	23507862	CLEANER, COOLANT SYSTEM 1/2 GAL. (DD-2001-HG)	AR										
	23507863	CLEANER, COOLANT SYSTEM 5 GAL. (DD-2001-11)	AR										
	23507864	CLEANER, COOLANT SYSTEM 55 GAL. (DD-2001-15)	AR										
	23507867	CLEANER, COOLANT SYSTEM (TWIN PAK) (DD-2015-49)	AR										
	12.8280	ADDITIVES, DIESEL FUEL											
	23507869	ADDITIVES, FUEL 5 GAL. (DD-2020-11)	AR										
	23507870	ADDITIVES, FUEL 55 GAL. (DD-2020-15)	AR										
	23507871	ADDITIVES, FUEL 1 PT. (DD-1000-P)	AR										
	23507872	ADDITIVES, FUEL 2 GAL. (DD-1000-11)	AR										
	23507873	ADDITIVES, FUEL 55 GAL. (DD-1000-15)	AR										
	23507868	ADDITIVES, FUEL (1 PT.) (DD-2020-P)	AR										
	12.8290	KIT, COOLANT ANALYSIS											
	23516921	KIT, POWER TRAC COOLANT ANALYSIS	AR										
	23519401	POWER TRAC COOLANT TEST STRIP (1 STRIP)	AR										
	23522774	POWER TRAC COOLANT TEST STRIPS (BOTTLED 10 STRIPS)	AR										
	23519402	POWER TRAC COOLANT TEST STRIPS (BOTTLED 50 STRIPS)	AR										
	12.8291	KIT, OIL ANALYSIS											
	23515823	KIT, POWER TRAC LUBE OIL ANALYSIS	AR										
	23517267	KIT, POWER TRAC LUBE OIL EXTRACTION	AR										
	23520989	KIT, POWER TRAC LUBE OIL ANALYSIS W/TOTAL BASENUMBER	AR										
	23521982	KIT, POWER TRAC LUBE OIL ANALYSIS (CANADIAN ONLY)	AR										
	23521984	KIT, POWER TRAC OIL EXTRACTION (CANADIAN ONLY)	AR										
	23521983	KIT, POWER TRAC LUBE OIL ANALYSIS W/TOTAL BASENUMBER	AR										
	12.8293	KIT, FUEL ANALYSIS											
	23516922	KIT, POWER TRAC FUEL ANALYSIS	AR										

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A											
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS													
	12.8320	GAGE, TACHOMETER (CONT.)													
	23519777	GAGE, TACH 3500RPM 1:2 W/REV COUNTER MECH CHROME (7.4060)	AR												
	23520728	GAGE, TACH 3,500 RPM 1:2 RATIO MECHANICAL (7.4060)	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 (USE KEY 6469745 OR 6469746) (7.4180)	AR												
	6469745	KEY, .152" SPEEDO/TACH GENERATOR	AR												
	6469746	KEY, .187" SPEEDO/TACH GENERATOR	AR												
	12.8330	GAGE, OIL PRESSURE - ENGINE													
	23519790	GAGE, OIL PRESSURE 100 PSI MECHANICAL BLACK (7.4070)	AR												
	23520731	GAGE, OIL PRESSURE 100 PSI MECHANICAL CHROME (7.4070)	AR												
	23519791	GAGE, OIL PRESSURE 150 PSI MECHANICAL BLACK (7.4070)	AR												
	23520721	GAGE, OIL PRESSURE 150 PSI MECHANICAL CHROME (7.4070)	AR												
	23520744	GAGE, OIL PRESSURE 80 PSI 12V 0-90 OHM CHROME (USE SENDER 23511477,23512594,23512979,23513978)	AR												
	23519798	GAGE, OIL PRESSURE 100 PSI 12V 10-180 OHM BLACK (USE SENDER 23519826) (7.4070)	AR												
	23519799	GAGE, OIL PRESSURE 150 PSI 12V 10-180 OHM BLACK (USE SENDER 23519827) (7.4070)	AR												
	23511477	SENDER,OIL PRESS 80PSI, 1/8-27NPT, DUAL STATION (7.4070)	AR												
	23512594	SENDER,OIL PRESS 80PSI,1/8-27NPT,STANDARD GROUND (7.4070)	AR												
	23512979	SENDER, OIL PRESSURE ELECT 80 PSI FLTNG GRD DUAL (7.4070)	AR												
	23513978	SENDER,OIL PRESSURE 80PSI,1/4"-18NPT,FLOATING GRD (7.4070)	AR												
	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												

TYPES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	TYPES									
				A									
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS											
	12.8335	GAGE, OIL PRESSURE - TRANSMISSION											
	23520746	GAGE, TRANS PRESSURE 400 PSI 12V CHROME (USE SENDER 23511617, 23513980 OR 23513981) 7.4071	AR										
	23519800	GAGE, TRANS PRESSURE 400 PSI 12V BLACK (USE SENDER 23511617, 23513980 OR 23513981) 7.4071	AR										
	23520730	GAGE, TRANS PRESSURE 400 PSI MECHANICAL CHROME (7.4071)	AR										
	23519794	GAGE, TRANS PRESSURE 400 PSI MECHANICAL BLACK (7.4071)	AR										
	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										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR										
	12.8340	GAGE, OIL TEMPERATURE											
	23520734	GAGE, OIL TEMP 340F 48" CAPILLARY MECH CHROME (7.4077)	AR										
	23520735	GAGE, OIL TEMP 340F 72" CAPILLARY MECH CHROME (7.4077)	AR										
	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										
	23520736	GAGE, OIL TEMP 340F 180" CAPILLARY MECH CHROME (7.4077)	AR										
	23520737	GAGE, OIL TEMP 340F 360" CAPILLARY MECH CHROME (7.4077)	AR										
	23519797	GAGE, OIL TEMP 300F, 12V (USE SENDER 23519824 OR 23519825) (7.4077)	AR										
	23519824	SENDER,OIL TEMP, 300DEG1/4-18NPT, STANDARD GROUND (7.4077)	AR										
	23519825	SENDER,OIL TEMP, 300DEG1/2-14NPT, STANDARD GROUND (7.4077)	AR										
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE	AR										
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE	AR										

					TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.											
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS		A										
	12.8345	GAGE, WATER TEMPERATURE												
	23519779	GAGE, WATER TEMP 265F, 18" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519780	GAGE, WATER TEMP 265F, 30" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519781	GAGE, WATER TEMP 265F, 48" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519782	GAGE, WATER TEMP 265F, 72" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519783	GAGE, WATER TEMP 265F, 96" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519784	GAGE, WATER TEMP 265F, 144" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519785	GAGE, WATER TEMP 265F, 180" CAPILLARYMECHANICAL BLACK (7.4080)	AR											
	23519786	GAGE, WATER TEMP 265F, 372" CAPILLARYMECHANICAL BLACK (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											
	23520701	GAGE, WATER TEMP 265F, 180" CAPILLARYMECHANICAL CHROME (7.4080)	AR											
	23520739	GAGE, WATER TEMP 265F, 372" CAPILLARYMECHANICAL CHROME (7.4080)	AR											
	23519795	GAGE, WATER TEMP 220F 12V US OHM RANGE (7.4080)	AR											
	23519796	GAGE, WATER TEMP 250F, 12V (USE SENDER 23511301,1303,3982,3983 OR 9823)7.4080	AR											
	23520740	GAGE, WATER TEMP 250F, 12V (7.4080)	AR											

				TYPES											
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.												
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS	A												
	12.8345	GAGE, WATER TEMPERATURE (CONT.)													
	23520742	GAGE, WATER TEMP 250F, 32V RESISTOR KIT (7.4080)	AR												
	23519823	SENDER,TEMP 250DEG3/8"-18NPT STANDARD GROUND (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												
	23511301	SENDER,TEMP 250DEG,3/8"-18NPT, DUAL STATION (7.4080)	AR												
	23513983	SENDER, TEMP 250 DEG 1/4"-18 DUAL STATION FLT GRD (7.4080)	AR												
	23519830	ADAPTOR, 3/8"-18 NPT MECHANICAL GAGE	AR												
	23519829	ADAPTOR, 1/2"-14 NPT MECHANICAL GAGE	AR												
	12.8350	GAGE, FUEL VOLUME													
	23519806	GAGE, FUEL 0-90 OHM CHROME (USE SENDER 23519816) (7.4086)	AR												
	23519809	GAGE, FUEL 0-90 OHM BLACK (USE SENDER 23519816) (7.4086)	AR												
	23519807	GAGE, FUEL 10-180 OHM CHROME (USE SENDER 23519817) (7.4086)	AR												
	23519810	GAGE, FUEL 10-180 OHM BLACK (USE SENDER 23519817) (7.4086)	AR												
	23519808	GAGE, FUEL 240-33 OHM CHROME (USE SENDER 23519818) (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												
	12.8360	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												

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.										
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS	A										
	12.8365	SOCKET, LAMP INSTRUMENT PANEL											
	23519839	SOCKET, BULB T-3 1/4 WEDGE BASE (7.4105)	AR										
	23519841	SOCKET, BULB TYPE C (7.4105)	AR										
	8920580	SOCKET, BULB TYPE A	AR										
	12.8370	GAGE, HOUR METER											
	23519812	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED CHROME (7.4118)	AR										
	23519813	METER, HOUR QUARTZ 9-28V, NON ILLUMINATED BLACK (7.4118)	AR										
	23519814	METER, HOUR QUARTZ 9-28V, WATERPROOF (7.4118)	AR										
	23519815	METER, HOUR QUARTZ MINIMETER 9-28V NON ILLUMINATED (7.4118)	AR										
	12.8375	GAGE, TURBO BOOST											
	23519832	GAGE, TURBO BOOST 0-30 PSI (7.4160)	AR										
	23519842	GAGE, TURBO BOOST 0-30 PSI BLACK (7.4160)	AR										
	23519836	KIT, PRESSURE TUBING 6' X 1/8" COPPER	AR										
	12.8380	GAGE, VOLTMETER											
	23519801	GAGE, VOLTMETER 8-16V CHROME (7.4170)	AR										
	23519802	GAGE, VOLTMETER 8-16V BLACK (7.4170)	AR										
	12.8385	GAGE, SPEEDOMETER											
	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										
	6469745	KEY, .152" SPEEDO/TACH GENERATOR (FOR USE WITH 23519821 OR 23520374)	AR										
	6469746	KEY, .187" SPEEDO/TACH GENERATOR (FOR USE WITH 23519821 OR 23520374)	AR										

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	12.8000A SUPPLIES/MAINTENANCE PRODUCTS													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
	12.8006	FUEL SYSTEM PRODUCTS														
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	1													
	23519956	PROCESSOR ASSY., FUEL PRO 380 NO HEAT CHROME		1												
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT			1											
	23523140	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/INTEGRAL BRKT				1										
	23523574	PROCESSOR ASSY.FUELPRO 382 FLUID W/12V PREHEATER					1									
	23523575	PROCESSOR ASSY FUELPRO 382 FLUID W/24V PREHEATER						1								
	23523592	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/12V PREHEATER							1							
	23523593	PROCESSOR ASSY.FUELPRO 382 NO HEAT W/24V PREHEATER								1						
	23521049	PROCESSOR ASSY., FUEL PRO 380 12V W/GROUND									1					
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT										1				
	23519957	PROCESSOR ASSY., FUEL PRO 380 12V W/FLUID HEAT											1			
	23519724	PROCESSOR ASSY., FUEL PRO 380 24V W/FLUID HEAT												1		
	23521056	PROCESSOR ASSY., FUEL PRO 380 12V HEAT W/ SENSOR													1	
	23520907	PROCESSOR ASSY. FUEL PRO 380 12V/120V HEAT														1
	23519934	STUD, 13/16"-12, 7/8"-14	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514051	KIT, W/CAP & BOWL O-RINGS	1	1	1						1	1	1	1	1	1
	23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514060	SPRING, FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514048	COVER, CLEAR FUEL PRO 380	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23514061	COLLAR, FUEL PRO 380	1	1	1	2	2	2	2	2	1	1	1	1	1	1
	23514043	KIT, W/CAP & SEAL RING	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	23519966	HOUSING, CHECK VALVE FUEL PRO 380				1	1	1	1	1						
	23518326	KIT, CHECK VALVE REPAIR INLET				1	1	1	1	1						
	23519943	* VALVE, CHECK INLET (23519966)	1	1												
	23519944	* VALVE, CHECK THERM CONTROL INLET (23519967)			1							1	1	1	1	1
	23521064	* VALVE, CHECK THERM CONTROL W/GRD INLET (23521066)									1					
	23518327	VALVE ASSY., DRAIN FUEL PRO 380	1	1	1						1	1	1	1	1	1
	23523587	VALVE, DRAIN 1/2 NPTF MINIBALL				1	1	1	1	1						
	23517427	HEATER, FUEL PRO 380 12V			1						1		1			
	23517428	HEATER, FUEL PRO 380 24V										1		1		

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES													
			A	B	C	D	E	F	G	H	I	J	K	L	M	N
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS														
	12.8006	FUEL SYSTEM PRODUCTS (CONT.)														
	23521060	HEATER, FUEL PRO 380EE 120V														1
	23523589	PLATE ASSY.,BOTTOM NO HEAT W/SEAL RING				1			1	1						
	23524657	SEAL, O-RING BOTTOM PLATE 382				1	1	1	1	1						
	23517426	KIT, W/THERMOSWITCH & TY-RAP			1						1	1	1	1	1	1
	23517425	HARNESS, FUEL PRO 380 12V/24V			1							1	1	1	1	1
	23521061	HARNESS, FUEL PRO 380 12V GROUNDED									1					
	23521065	HARNESS, FUEL PRO 380E W/F SENSOR													1	
	23521062	SENSOR, WATER IN FUEL													1	
	23523579	HEATER, 12V-250W WITH WEATHERPACK					1		1							
	23523580	HEATER, 24V 250W WITH WEATHERPACK						1		1						
	23523582	HARNESS, HEATER/THERMO 12/24V					1	1	1	1						
	23523583	HARNESS 2-WAY W/P CHASSIS					1	1	1	1						
	23523585	THERMOSWITCH, 12V					1		1							
	23523586	THERMOSWITCH, 24V						1		1						
	23523590	PLATE ASSY.,BOTTOM FLUID NO HEAT W/SEAL RI					1	1								
		* NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES AND 23518326 REPAIR KIT.														

ASSEMBLIES

FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSEMBLIES															
			A	B	C	D	E	F	G	H	I	J						
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS																
		(Note: Assemblies are shown for component reference only.)																
	12.8006	FUEL SYSTEM PRODUCTS																
	23516639	KIT, FUEL PRO 380E NO HEAT W/O DIVERTER CAP	1															
	23516640	KIT, FUEL PRO 380E 12V HEAT W/O DIVERTER CAP		1														
	23516641	KIT, FUEL PRO 380E 24V HEAT W/O DIVERTER CAP			1													
	23519239	KIT, FUEL PRO 380F 12V W/O DIVERTER CAP				1												
	23519725	KIT, FUEL PRO 380 24V FLUID HEAT W/O DIVERTER CAP					1											
	23519237	KIT, FUEL PRO 380E NO HEAT W/DIVERTER CAP						1										
	23519238	KIT, FUEL PRO 380E 12V HEAT CHROME W/DIVERTER CAP							1									
	23519235	KIT, FUEL PRO 380E 12V HEAT W/DIVERTER CAP								1								
	23519236	KIT, FUEL PRO 380E 24V HEAT W/DIVERTER CAP									1							
	23519778	KIT FUEL PRO 380 12V/120V HEAT W/DIVERTER CAP										1						
	23514047	PROCESSOR ASSY., FUEL PRO 380 12V HEAT		1						1								
	23515125	PROCESSOR ASSY., FUEL PRO 380 NO HEAT	1					1										
	23516638	PROCESSOR ASSY., FUEL PRO 380 24V HEAT			1						1							
	23519724	PROCESSOR ASSY., FUEL PRO 380 24V W/FLUID HEAT					1											
	23519934	STUD, 13/16"-12, 7/8"-14	1	1	1	1	1	1	1	1	1	1						
	23519956	PROCESSOR ASSY., FUEL PRO 380 NO HEAT CHROME							1									
	23519957	PROCESSOR ASSY., FUEL PRO 380 12V W/FLUID HEAT				1												
	23520907	PROCESSOR ASSY. FUEL PRO 380 12V/120V HEAT										1						
	23514051	KIT, W/CAP & BOWL O-RINGS	1	1	1	1	1	1	1	1	1	1						
	23521528	KIT, ELEMENT & GROMMET W/SEAL RINGS 380/382	1	1	1	1	1	1	1	1	1	1						
	23516794	BRACKET, FUEL PRO 380 MOUNT	1	1	1	1	1	1	1	1	1	1						
	23516796	U-CLAMP ASSY., FUEL PRO 380	2	2	2	2	2	2	2	2	2	2						
	23514060	SPRING, FUEL PRO 380	1	1	1	1	1	1	1	1	1	1						
	23516795	U-BOLT, FUEL PRO 380	2	2	2	2	2	2	2	2	2	2						
	23514048	COVER, CLEAR FUEL PRO 380	1	1	1	1	1	1	1	1	1	1						
	23514061	COLLAR, FUEL PRO 380	1	1	1	1	1	1	1	1	1	1						
	23516797	WIRE HARNESS, FUEL PRO 380		1	1	1	1			1	1	1						
	23517429	TEE, 1/4"NPTF	1	1	1						1	1						

FIG. REF.	PART NO.	NAME AND DESCRIPTION (Note: Assemblies are shown for component reference only.)	ASSEMBLIES																	
			A	B	C	D	E	F	G	H	I	J								
		12.8000A SUPPLIES/MAINTENANCE PRODUCTS																		
	12.8006	FUEL SYSTEM PRODUCTS (CONT.)																		
	23514043	KIT, W/CAP & SEAL RING	1	1	1	1	1	1	1	1	1	1								
	23519958	CIRCUIT BREAKER, FUEL PRO 380				1	1						1							
	23519943 *	VALVE, CHECK INLET (23519966)	1					1	1											
	23519944 *	VALVE, CHECK THERM CONTROL INLET (23519967)		1	1	1	1			1	1	1								
	23519959	TERMINAL, BUTT SPLICE FUEL PRO 380				1	1						1							
	23518327	VALVE ASSY., DRAIN FUEL PRO 380	1	1	1	1	1	1	1	1	1	1								
	23519960	FITTING, PIPE TO HOSE FUEL PRO 380				2	2													
	23517427	HEATER, FUEL PRO 380 12V		1		1				1										
	23517428	HEATER, FUEL PRO 380 24V			1		1				1									
	23519116	CAP ASSY., DIVERter 13/16"-12, 3.225" SEAL ID						1	1	1	1	1								
	23521060	HEATER, FUEL PRO 380EE 120V																	1	
	23517426	KIT, W/THERMOSWITCH & TY-RAP		1	1	1	1			1	1	1								
	23517425	HARNESS, FUEL PRO 380 12V/24V		1	1	1	1			1	1	1								
	23521068	CORD, ELEC. HEATER																	1	
		* NOT SERVICED, USE PART NUMBER SHOWN IN PARENTHESES AND 23518326 REPAIR KIT.																		

				TYPES									
FIG. REF.	PART NO.	NAME AND DESCRIPTION	ASSY. SECT.	A									
		12.8000B FABRICATION MATERIAL											
	12.8550	HOSE, FLEXIBLE (BULK)											
	5199575	HOSE, BULK #6X25 FT. (12.8550)	AR										
	12.8552	FITTINGS, FLEXIBLE HOSE END											
		USE WITH HOSE IN 12.8550.											
	5199583	FITTING, #6 HOSE (1/2"-20 MALE INV. FL.)(STRAIGHT))	AR										
	5199579	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.)(STRAIGHT)	AR										
	5199597	FITTING, #6 HOSE (1/2"-20 MALE INV. FL.) (45 DEG.)	AR										
	5199588	FITTING, #6 HOSE (5/8"-18 MALE INV. FL.) (90 DEG.)	AR										
	12.8554	CLIP, FLEXIBLE HOSE											
		ONE (1) CLIP IS REQUIRED FOR EACH 18" OF HOSE CUT LENGTH.											
	2488022	CLIP, 3/8" BOLT (12.8554)	AR										

SERIES 60 BASIC ENGINE SPARE PARTS LIST

RPSTL 1

2000 HOURS 1 YEAR – 40 HOUR WEEK
3000 HOURS 1 YEAR – 60 HOUR WEEK
4000 HOURS 2 YEARS – 40 HOUR WEEK
6000 HOURS 2 YEARS – 60 HOUR WEEK

SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
1.1001	23522886	BLOCK ASM., CYLINDER; TLC, FOR ARTICULATED STL PISTON 1850/14L		-	-	-	-	-	-	-	-	1	1	-	-
1.1001	23522981	# BLOCK ASM., CYLINDER; TLC, ADAPTORLESS AIR COMPRESSOR		-	-	-	-	-	-	-	-	1	1	-	-
1.1002	23512691	GASKET KIT, ENGINE OVERHAUL (W/SQ. RING SEALS)		3	2	1	1	4	4	3	2	12	6	6	4
1.1025	23521375	NOZZLE ASM., PSTN CLG ARTICULATED STL PSTN		6	6	-	-	6	3	3	-	12	12	6	6
1.2001	23523294	HEAD ASM., CYLINDER (3 BOLT W/RACE TRACK DESIGN)		-	-	-	-	1	1	-	-	2	2	1	-
1.2001	23525050	HEAD ASM., CYLINDER MARINE PLEASURE CRAFT		-	-	-	-	1	1	-	-	2	2	1	-
1.2001	R23523275	HEAD ASM., CYLINDER (S60G)		-	-	-	-	1	1	-	-	2	2	1	-
1.2001	8929123	BOLT, CYL. HEAD M16x1.75mm		-	-	-	-	4	4	-	-	6	6	-	-
1.2001	8929328	WASHER, CYL. HEAD 16.8x25.8mm		-	-	-	-	6	6	-	-	12	12	-	-
1.2002	23501572	GASKET KIT, CYL. HEAD OVERHAUL		3	2	1	1	10	8	5	3	20	15	10	8
1.2045	23501580	TUBE KIT, INJECTOR HOLE		6	6	-	-	12	12	6	6	18	18	12	6
1.2046	23515470	SEAL RING, INJECTOR HOLE TUBE		6	6	-	-	12	12	6	6	18	18	12	6
1.3001	23515596	CRANKSHAFT 11L (LRG. BRG.)		-	-	-	-	-	-	-	-	1	1	-	-
1.3001	23515598	# CRANKSHAFT 12L (LRG. BRG.)		-	-	-	-	-	-	-	-	1	1	-	-
1.3001	23518646	CRANKSHAFT, S60G (LRG. BRG.)		-	-	-	-	-	-	-	-	1	1	-	-
1.3001	23522887	CRANKSHAFT, 1850/14L		-	-	-	-	-	-	-	-	1	1	-	-
1.3090	8929670	SHELL SET, MAIN BEARING (STD.)		12	6	6	6	24	18	12	6	60	40	18	12
1.3090	8929680	SHELL SET, THRUST (STD.)		2	1	1	1	4	3	2	1	10	8	3	2

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
			HOURS——											
			(6	4	3	2	6	4	3	2	6	4	3	2
			(0	0	0	0	0	0	0	0	0	0	0	0
			(0	0	0	0	0	0	0	0	0	0	0	0
1.3100	8929085	WASHER, C/S MAIN BEARING THRUST	6	4	2	2	8	6	4	2	12	10	8	6
1.3166	23518355	SEAL, FRT. C/S OIL (OVERSIZE)	4	2	1	1	6	6	4	3	12	12	10	10
1.3192	8929299	GASKET, ACCY. FRONT	4	3	2	2	6	4	3	2	10	8	6	4
1.3192	8929130	GASKET, REAR & FRT. CAM ACCESS.	4	3	2	2	6	4	3	2	10	8	6	4
1.3210	23525990	DAMPER, VIBRATION CR/SH 13.5" DIA. 1850	—	—	—	—	—	—	—	—	2	2	1	—
1.3210	23522891	DAMPER, VIBRATION CR/SHF 13.5" DIA. 14L	—	—	—	—	—	—	—	—	2	2	1	—
1.3210	8929502	DAMPER, VIBRATION	—	—	—	—	—	—	—	—	2	2	1	—
1.5004	23516969	# SEAL & SLEEVE ASM., REAR CRANKSHAFT OIL (TEFLON LIP)	3	2	1	1	4	4	3	2	6	6	4	2
1.6001	23523195	# ROD ASM., CONN. 12L (STL. PSTN.)	4	4	2	—	6	4	4	2	12	6	6	4
1.6001	E23515593	# ROD ASM., CONN. 12L (LRG. BRG.)	4	4	2	—	6	4	4	2	12	6	6	4
1.6001	E23526051	ROD ASM., CONN. DRILLED STL BUSH. 1850/14L	4	4	2	—	6	4	4	2	12	6	6	4
1.6001	23515594	# ROD ASM., CONN. 11L (LRG. BRG.)	4	4	2	—	6	4	4	2	12	6	6	4
1.6001	23522877	BOLT, CONN. ROD 1850/14L	4	3	2	—	6	6	4	4	12	10	8	4
1.6001	8929355	BOLT, CONN. ROD	4	3	2	—	6	6	4	4	12	10	8	4
1.6001	8929019	NUT, CONN. ROD	4	3	2	—	6	6	4	4	12	10	8	4
1.6100	23524857	SHELL SET, CONN. ROD (STD.) 1850/14L	12	12	6	6	24	18	12	12	48	48	36	24
1.6100	23526281	SHELL SET, CONN. ROD (STD.) MARINE	12	12	6	6	24	18	12	12	48	48	36	24
1.6100	23523935	SHELL SET, CONN. ROD (STD.) ART STL PSTN	12	12	6	6	24	18	12	12	48	48	36	24
1.6100	23515581	SHELL SET, CONN. ROD (STD.) (LRG. BRG.)	12	12	6	6	24	18	12	6	48	48	36	24

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
1.6100	8929710	SHELL SET, CONN. ROD (STD.) (FORMER STYLE CRANKSHAFT)		12	12	6	6	24	18	12	6	48	48	36	24
1.6110	23524597	# DOME & SKIRT KIT ART STL PSTN		2	-	-	-	4	2	-	-	6	4	2	-
1.6110	23526709	# DOME & SKIRT KIT ART STL PSTN 1850/14L		2	-	-	-	4	2	-	-	6	4	2	-
1.6110	23523096	# PISTON KIT, STEEL PISTON & SKIRT		2	-	-	-	4	2	-	-	6	4	2	-
1.6110	R23519624	# DOME & BUSHING KIT (2.5mm RG GRV)		2	-	-	-	4	2	-	-	6	4	2	-
1.6115	23503747	# RING SET, COMP. PISTON (2.5mm RG GRV)		2	-	-	-	4	2	-	-	6	4	2	-
1.6115	23525553	# RING SET, COMP. PISTON (2.5mm TOP) ART. STL. PSTN		2	-	-	-	4	2	-	-	6	4	2	-
1.6115	23525573	# RING SET, COMP. PISTON 1850/14L		2	-	-	-	4	2	-	-	6	4	2	-
1.6140	8929504	SPACER, PISTON PIN BOLT		2	2	-	-	4	4	2	-	6	6	4	-
1.6140	8929087	PIN, PISTON		-	-	-	-	2	2	1	-	4	3	2	-
1.6140	23521649	# PIN, PISTON STEEL		-	-	-	-	2	2	1	-	4	3	2	-
1.6140	23522872	PIN, ART. STL. PISTON 1850/14L		-	-	-	-	2	2	1	-	4	3	2	-
1.6142	23519723	BUSHING KIT (3 PC. BUSHING)		2	2	-	-	4	4	2	-	6	4	2	-
1.6150	23521781	RETAINER, STEEL PISTON PIN		-	-	-	-	4	4	2	-	8	6	4	-
1.6181	23524843	KIT, CYLINDER LINER (W/SEAL RINGS) 1850/14L		3	3	2	-	4	4	2	2	6	4	2	2
1.6181	23505278	# KIT, CYLINDER LINER (W/SEAL RINGS)		3	3	2	-	4	4	2	2	6	4	2	2
1.6181	23523948	# KIT, CYLINDER LINER (TLC) (W/SEAL RINGS)		3	3	2	-	4	4	2	2	6	4	2	2
1.6182	23524596	# KIT, CYLINDER ART. STL. PSTN 1.1MM		12	12	6	6	24	18	12	12	36	24	12	6
1.6182	23525835	# KIT, CYLINDER 1850/14L		12	12	6	6	24	18	12	12	36	24	12	6
1.6182	E23524602	# KIT, CYLINDER 2.5MM		12	12	6	6	24	18	12	12	36	24	12	6

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
1.6182	R23519625	# KIT, CYLINDER (W/2.5mm RG GRV)		12	12	6	6	24	18	12	12	36	24	12	6
1.6182	R23519626	# KIT, CYLINDER (TLC) (W/2.5mm RG GRV)		12	12	6	6	24	18	12	12	36	24	12	6
1.6182	23523955	# KIT, CYLINDER - ART. STL. STEEL PIST. (2.5mm)		12	12	6	6	24	18	12	12	36	24	12	6
1.6190	8929013	SEAL, CYL. LINER CREVICE		2	2	1	1	4	4	2	2	6	6	4	2
1.6190	8929176	SEAL, CYL. LINER "D" TYPE		2	2	1	1	4	4	2	2	6	6	4	2
1.7001	E23524912	# CAMSHAFT & DOWEL ASM. 1850/14L/12L		-	-	-	-	-	-	-	-	1	1	-	-
1.7001	E23513562	# CAMSHAFT & DOWEL ASM. 11L		-	-	-	-	-	-	-	-	1	1	-	-
1.7001	E23518718	# CAMSHAFT & DOWEL ASM. 11L		-	-	-	-	-	-	-	-	1	1	-	-
1.7001	E23513564	# CAMSHAFT & DOWEL ASM. 12L		-	-	-	-	-	-	-	-	1	1	-	-
1.7001	E23505195	# CAMSHAFT & DOWEL ASM. 12L		-	-	-	-	-	-	-	-	1	1	-	-
1.7001	E23521681	# CAMSHAFT & DOWEL ASM. 12L (47J)		-	-	-	-	-	-	-	-	1	1	-	-
1.7040	8929690	BEARING SET, CAMSHAFT (STD)		21	14	7	7	35	28	21	14	56	35	28	21
1.7042	8929740	SEAL RING, CAM BRG. CAP		2	2	1	1	6	4	4	2	10	8	6	2
1.7046	8929129	BOLT, CAM BRG. CAP		-	-	-	-	-	-	-	-	2	2	-	-
1.7070	23521001	PLATE, CAM & BAL. SHAFT THRUST		-	-	-	-	-	-	-	-	1	1	-	-
1.7070	23521892	PLATE, CAM THRUST (3 BOLT)		-	-	-	-	-	-	-	-	1	1	-	-
1.7075	23521935	SEAL, CAMSHAFT THRUST PLATE (CYL. HD)		1	1	-	-	2	2	1	1	4	3	2	1
1.7075	23521894	SEAL, CAM THRUST PLATE (3 BOLT)		1	1	-	-	2	2	1	1	4	3	2	1
1.7075	8929318	SEAL, CAMSHAFT THRUST PLATE (GR. HSG)		1	1	-	-	2	2	1	1	4	3	2	1

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
1.7206	23524883	HUB, CAMSHAFT GEAR		1	1	-	-	1	1	-	-	2	2	1	-
1.7255	8929111	HUB, ADJ. IDLER GEAR		1	1	-	-	1	1	-	-	2	2	1	-
1.7255	8929336	# PLATE, ADJUSTMENT		-	-	-	-	-	-	-	-	1	1	-	-
1.7600	8929253	# SEAL RING, ACCY. DR. HSG.		-	-	-	-	1	1	-	-	1	1	-	-
1.7660	8929154	# SEAL, ACCY. DRIVE OIL		-	-	-	-	1	1	-	-	1	1	-	-
1.7660	23511747	# SEAL, ACCY. DRIVE OIL		-	-	-	-	1	1	-	-	1	1	-	-
1.8050	23513557	# * HARNESS EDU TO INJ JAKE		1	-	-	-	1	-	-	-	2	1	-	-
1.8050	23522178	HARNESS EDU TO INJ JAKE		1	-	-	-	1	-	-	-	2	1	-	-
1.8050	23513556	# * HARNESS EDU TO INJ JAKE		1	-	-	-	1	-	-	-	2	1	-	-
1.8060	23523174	# ARM ASM., EXHAUST VALVE ROCKER		6	6	3	-	18	12	6	-	24	18	12	-
1.8075	23520644	ARM ASM., INTAKE VALVE ROCKER		6	6	3	-	18	12	6	-	24	18	12	-
1.8080	8929854	ARM ASM., INJECTOR ROCKER		6	6	3	-	18	12	6	-	24	18	12	-
1.8080	23513939	ARM ASM., INJECTOR ROCKER (CERAMIC ROLLER)		6	6	3	-	18	12	6	-	24	18	12	-
1.8135	8929646	KIT, VALVE ADJ. SCREW (EXHAUST)		2	2	1	-	4	4	2	1	6	6	4	2
1.8135	23505056	KIT, VALVE ADJ. SCREW (INJ & INTAKE)		2	2	1	-	4	4	2	1	6	6	4	2
1.8160	23522975	SEAL, RACE TRACK		2	2	-	-	6	6	3	3	9	9	6	4
1.8160	8929740	SEAL, RING		4	4	-	-	9	9	6	6	12	12	9	6
1.8160	23521111	SEAL		4	4	-	-	8	8	6	6	12	12	8	6
1.8160	23513530	SHAFT ASM., ROCKER (REVERSIBLE) (LUBRITED)		2	2	1	-	4	4	2	1	6	4	2	2
1.8173	8929586	SPACER, ROCKER SHAFT		4	4	2	-	6	6	4	-	8	8	6	-

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* INJECTOR HARNESS ASSY. ALSO SHOWN IN 2.1700

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 – 10 ENGINES				10 – 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
1.8310	23501577	VALVE KIT, EXHAUST (IDENTIFICATION-U)		36	24	12	–	48	36	24	12	72	60	48	24
1.8310	23507504	# VALVE KIT, EXHAUST (IDENTIFICATION-H)		36	24	12	–	48	36	24	12	72	60	48	24
1.8310	23520148	VALVE KIT, EXHAUST (S60G)		36	24	12	–	48	36	24	12	72	60	48	24
1.8315	23501576	# VALVE KIT, INTAKE		36	24	12	–	48	36	24	12	72	60	48	24
1.8315	23520149	VALVE KIT, INTAKE (S60G)		36	24	12	–	48	36	24	12	72	60	48	24
1.8320	23518571	GUIDE, EXHAUST VALVE		24	24	12	–	48	48	24	12	72	60	48	24
1.8320	23523930	SEAL, VALVE		48	48	24	–	72	48	24	24	120	96	72	48
1.8320	23521944	SEAL, VALVE (S60G)		48	48	24	–	72	48	24	24	120	96	72	48
1.8330	8929126	INSERT, EXHAUST VALVE (STD.)		12	12	–	–	24	24	12	12	48	48	24	12
1.8330	23519090	INSERT, EXHAUST VALVE (STD.) (S60G)		12	12	–	–	24	24	12	12	48	48	24	12
1.8330	8929127	INSERT, INTAKE VALVE (STD.)		12	12	–	–	24	24	12	12	48	48	24	12
1.8330	23517058	INSERT, INTAKE VALVE (STD.) (S60G)		12	12	–	–	24	24	12	12	48	48	24	12
1.8340	8929415	SPRING, EXHAUST VALVE		12	6	–	–	24	12	12	–	36	24	12	12
1.8360	8929076	SEAT, EXH. VALVE SPRING		12	12	6	–	24	12	12	–	36	24	12	12
1.8365	8929105	ROTATOR, VALVE		12	12	6	–	24	24	12	–	36	24	12	12
1.8370	8929573	LOCK, EXH. VALVE SPRING		48	48	32	24	96	48	24	12	144	120	96	48
1.8455	23522269	# GASKET, ROCKER COVER MOD SEAL		3	3	2	1	6	4	3	1	12	10	8	4
1.8455	23516322	# GASKET, ROCKER COVER		3	3	2	1	6	4	3	1	12	10	8	4
1.8455	8929803	# GASKET, ROCKER COVER INTERMEDIATE		3	3	2	1	6	4	3	1	12	10	8	4
1.8455	23511991	# GASKET, ROCKER COVER LOWER TO INTERMEDIATE		2	2	1	1	3	2	1	1	4	4	3	2

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
			HOURS											
			(6	4	3	2	6	4	3	2	6	4	3	2
			(0	0	0	0	0	0	0	0	0	0	0	0
			(0	0	0	0	0	0	0	0	0	0	0	0
1.8460	23522271	SLEEVE ASM. ROCKER COVER BOLT MOD SEAL	10	10	-	-	20	20	10	10	30	30	20	20
1.8461	23517911	ISOLATOR, ROCKER COVER	4	4	2	2	8	8	4	4	12	12	8	4
1.8461	23517912	ISOLATOR, ROCKER COVER	4	4	2	2	8	8	4	4	12	12	8	4
2.1001	#	INJ. ASM.	6	6	3	-	12	6	6	3	18	12	6	6
2.1002	5236116	EUI SOLENOID SEAL & SCREW KIT	6	6	-	-	12	12	6	-	24	18	12	12
2.1040	5234699	RING, SEAL INJ. (LOWER)	12	12	6	6	24	24	12	8	48	36	24	12
2.1040	5234702	RING, SEAL INJ. (UPPER)	12	12	6	6	24	24	12	8	48	36	24	12
2.1270	8929021	WASHER, INJ. CLAMP BOLT	6	6	3	3	10	8	6	4	24	12	8	6
2.1270	8929393	BOLT, INJ. CLAMP	4	4	2	-	6	4	3	2	8	6	4	2
2.1501	E23518743	# MODULE, ELEC. CONT. (DDEC III) W/CAN CHIP	-	-	-	-	-	-	-	-	2	1	-	-
2.1501	E23519307	# MODULE, ELEC. CONT. (DDEC IV) 12V	-	-	-	-	-	-	-	-	2	1	-	-
2.1501	E23519308	# MODULE, ELEC. CONT. (DDEC IV) 12/24V	-	-	-	-	-	-	-	-	2	1	-	-
2.1501	R7570049	MODULE, ELEC. CONT. 6 CYL. (DDEC II)	-	-	-	-	-	-	-	-	2	1	-	-
2.1502	R6171618	EPROM STABILIZER KIT	1	-	-	-	2	1	-	-	4	4	2	1
2.1515	23503631	POTENTIOMETER, ELEC. FOOT PEDAL	2	2	1	-	4	3	2	-	6	4	3	-
2.1520	23504641	SEAL, FUEL FITTING BLOCK	4	4	3	2	8	6	4	2	12	10	8	6
2.1520	23512307	ISOLATOR, ECM MOUNT	8	8	8	8	16	16	8	8	32	32	24	8
2.1520	23502879	ISOLATOR, ECM MOUNT (DDEC II)	8	8	8	8	16	16	8	8	32	32	24	8
2.1520	23504640	BLOCK FITTING, CLR END PLATE (DDEC II)	1	1	-	-	3	2	1	-	4	3	2	1
2.1520	23514201	BLOCK FUEL FITTING (DDEC III)	1	1	-	-	3	2	1	-	4	3	2	1

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MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
2.1520	23516935	PLATE ASM., COLD ECM		-	-	-	-	1	-	-	-	2	1	-	-
2.1600	23511176	SENSOR, OIL PRESSURE		1	1	1	-	2	2	1	1	4	3	2	1
2.1610	8929387	SENSOR, (SRS)		1	1	1	-	2	2	1	1	4	3	2	1
2.1620	8929388	SENSOR, (TRS)		1	1	1	-	2	2	1	1	4	3	2	1
2.1630	23518092	# SENSOR, OIL, WATER, FUEL, AIR TEMP.		2	2	1	-	4	2	1	-	6	4	2	1
2.1630	23514780	# SENSOR ASM., COOL TEMP.		2	2	1	-	4	2	1	-	6	4	2	1
2.1647	23515250	# SENSOR ASM, AIR TEMP. (DDEC III)		2	2	1	-	4	2	1	-	6	4	2	1
2.1650	23522322	# SENSOR, TURBOBOOST (DDEC IV)		2	1	-	-	4	2	1	-	4	3	2	1
2.1650	5182977	RING, SEAL		2	1	-	-	4	2	1	-	4	3	2	1
2.1665	23520381	# SENSOR, COOLANT LEVEL 3/8-18 PTF DDEC II, III, IV		1	1	-	-	2	2	-	-	3	3	2	1
2.1665	23503509	# PROBE, COOLANT LEVEL SENSOR 3/8" NPT		1	1	-	-	2	2	-	-	3	3	2	1
2.1665	23520380	# SENSOR, COOLANT LEVEL SENSOR 1/4-18 PTF DDEC II, III, IV		1	1	-	-	2	2	-	-	3	3	2	1
2.1665	23503510	# PROBE, COOLANT LEVEL SENSOR 1/4" NPT		1	1	-	-	2	2	-	-	3	3	2	1
2.1665	23505264	# MODULE ASM., COOLANT LEVEL CONTROL		1	1	-	-	1	1	-	-	2	2	-	-
2.1665	23505265	# MODULE ASM., COOLANT LEVEL CONTROL		1	1	-	-	1	1	-	-	2	2	-	-
2.1665	12015323	SEAL, WIRE HARNESS		5	5	5	-	10	10	10	5	15	15	10	5
2.1665	23514708	# SENSOR, COOL TEMP		1	1	-	-	2	2	1	-	4	3	2	1
2.1700	23513556	# * HARNESS, EDU TO INJECTORS DDEC III		1	-	-	-	1	-	-	-	2	-	-	-
2.1700	8929469	# * HARNESS, EDU TO INJECTORS (DDEC II)		1	-	-	-	1	-	-	-	2	-	-	-

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* INJECTOR HARNESS ASSY. ALSO SHOWN IN 1.8050

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MPC GROUP	PART NUMBER		DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
					(6	4	3	2	6	4	3	2	6	4	3	2
					(0	0	0	0	0	0	0	0	0	0	0	0
					(0	0	0	0	0	0	0	0	0	0	0	0
					(0	0	0	0	0	0	0	0	0	0	0	0
2.1700	23513557	# *	HARNESS, EDU TO INJ. JAKE BRAKE DDEC III		1	-	-	-	1	-	-	-	2	-	-	-
2.1700	12114461	# *	HARNESS, EDU TO INJ. JAKE BRAKE DDEC II		1	-	-	-	1	-	-	-	2	-	-	-
2.1720	23524280		HARNESS, ENG. SENSOR TO DISCONNECT DDEC IV INDUST.		1	-	-	-	1	-	-	-	2	-	-	-
2.1720	23513558	#	HARNESS, ENG. SENSOR DDEC III		1	-	-	-	1	-	-	-	2	-	-	-
2.1720	8929468	#	HARNESS, ENG. SENSOR TO DISC. DDEC II		1	-	-	-	1	-	-	-	2	-	-	-
2.1720	23522323	#	HARNESS, ENG. SENSOR TO DISC. DDEC IV		1	-	-	-	1	-	-	-	2	-	-	-
2.1720	23520795		PRESSURE TRANSDUCER (FIRE COMMANDER)		1	-	-	-	1	-	-	-	2	1	-	-
2.2001	E23507409	#	PUMP ASM., FUEL (GEAR CASE DRIVEN)		1	1	-	-	2	1	1	-	3	2	1	-
2.2001	E23517845		PUMP ASM., FUEL (AIR COMPR. DRIVEN)		1	1	-	-	2	1	1	-	3	2	1	-
2.2007	5150193		GASKET, FUEL PUMP TO DRIVE ASM.		2	2	-	-	3	2	2	-	4	3	2	-
2.2007	23505248		GASKET, FUEL PUMP		2	2	-	-	3	2	2	-	4	3	2	-
2.2040	23516118	#	GASKET, FUEL PUMP COVER (AMBER)		2	2	-	-	3	2	2	-	4	3	2	-
2.2070	23512243	#	SEAL, FUEL PUMP OIL		2	2	-	-	3	2	2	-	4	3	2	-
2.2130	23506563		KIT, RELIEF VALVE (COMPR. & GEAR CASE DRIVEN FUEL PUMPS)		1	1	-	-	1	1	-	-	2	1	-	-
2.2230	8929479		COUPLING, FUEL PUMP DRIVE		1	1	-	-	2	2	-	-	3	2	1	-
2.2230	23505249		COUPLING, (AIR COMPR. DRVN F/P)		1	1	-	-	2	2	-	-	3	2	1	-
2.2292	8929787	#	HUB, FUEL PUMP DRIVE GEAR 5/8" HOLE		-	-	-	-	-	-	-	-	2	1	-	-
2.2292	8929480	#	HUB, FUEL PUMP DRIVE GEAR 1/2" HOLE		-	-	-	-	-	-	-	-	2	1	-	-
2.3010	23514654		ELEMENT, FUEL/WATER SEP.		5	3	2	2	10	6	4	4	15	10	5	5

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MPC GROUP	PART NUMBER	DESCRIPTION	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
			(6	4	3	2	6	4	3	2	6	4	3	2
			0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0
			0	0	0	0	0	0	0	0	0	0	0	0
HOURS														
2.3010	23518481	ELEMENT, FUEL STRAINER	25	15	10	5	50	30	25	15	75	60	35	25
2.3010	23512317	ELEMENT, FUEL/WATER SEP.	10	5	5	3	15	10	8	4	25	15	10	5
2.3080	5148023	COVER, FUEL STRAINER	-	-	-	-	1	1	-	-	1	1	-	-
2.3320	23518482	ELEMENT, FUEL FILTER	25	15	10	5	50	30	25	15	75	60	35	25
2.3390	5148171	COVER, FUEL FILTER	-	-	-	-	1	1	-	-	1	1	-	-
2.3390	23517075	VALVE ASM., FUEL SHUTOFF	1	1	-	-	2	2	1	-	6	4	2	1
2.3590	23521528	FILTER ELEMENT (FUELPRO 380E)	24	24	12	12	48	48	36	24	72	72	60	60
2.4136	23520309	REGULATOR ASSY.(S60G)	-	-	-	-	1	-	-	-	1	-	-	-
2.4137	23519925	MIXING UNIT (S60G)	-	-	-	-	1	-	-	-	1	-	-	-
2.4137	23519562	GASKET - MIXING UNIT (S60G)	-	-	-	-	1	-	-	-	1	-	-	-
2.5006	23505047	VALVE ASM., FUEL CHECK	1	1	-	-	2	2	1	-	4	4	2	1
3.3810	16070629	# SENSOR, PRESSURE (TBS) DDEC II & DDEC III	1	1	-	-	1	1	-	-	1	1	-	-
3.5001		# TURBOCHARGER ASM.	-	-	-	-	1	1	-	-	1	1	-	-
3.5001	8929169	WASHER, TURBO TO EXH. MANIFOLD	4	4	-	-	4	4	-	-	4	4	-	-
3.5307	8929529	GASKET, TURBO EXH. INLET CONN.	2	2	-	-	2	2	-	-	2	2	-	-
3.5307	23517076	GASKET, TURBO EXH. INLET CONN. (S60G)	2	2	-	-	2	2	-	-	2	2	-	-
3.5506	8929285	# GASKET, TURBO OIL RETURN LINE	2	2	-	-	2	2	-	-	2	2	-	-
3.7001	23508461	HOSE ASM., W/P OIL SUPPLY	1	-	-	-	2	1	-	-	3	2	1	1
3.7012	23525104	GASKET, CAC TO HSG.	2	-	-	-	4	2	-	-	6	4	2	2
3.7050	8929875	HOSE, 1 3/4" X 3 1/4" CAC W/P INLET	1	-	-	-	2	1	-	-	3	2	1	1
3.7060	23514665	HOSE 2" X 3" CAC W/P T CAC	1	-	-	-	2	1	-	-	3	2	1	1

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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
3.7080	CAHH0306	HOSE, CAC WATER OUTLET		1	-	-	-	2	1	-	-	3	2	1	1
3.7150	23523565	HOSE, 4" AIR CHRGR W/STL RINGS		4	-	-	-	8	4	-	-	8	4	-	-
3.7180	23523730	W/P ASM., CAC		1	-	-	-	2	1	-	-	3	2	1	1
3.7180	23522735	W/P ASM., CAC		1	-	-	-	2	1	-	-	3	2	1	1
3.7305	6525206	SEAL RING, CAC INLET/OUTLET		8	-	-	-	16	8	-	-	24	16	8	8
3.7305	23511711	HOSE 2 1/2" X 3 1/4" CAC RAW WTR INLET		1	-	-	-	2	1	-	-	3	2	1	1
3.7305	23525105	GASKET, CAC RAW WTR OUTLET		1	-	-	-	2	1	-	-	3	2	1	1
4.1001	23505886	# PUMP ASM., OIL GEAR DRIVEN		-	-	-	-	-	-	-	-	1	1	-	-
4.1003	23501578	OVERHAUL KIT, OIL PUMP		1	-	-	-	1	1	-	-	2	1	-	-
4.1003	23511065	OVERHAUL KIT, OIL PUMP (RT SIDE ENG.)		1	-	-	-	1	1	-	-	2	1	-	-
4.1520	23505992	GASKET, OIL INLET TUBE TO PUMP		2	2	-	-	2	2	-	-	2	2	-	-
4.1520	8929344	GASKET, OIL PUMP INLET/OUTLET		2	2	-	-	2	2	-	-	2	2	-	-
4.1580	23505891	RING SEAL, OIL PUMP OUTLET		2	2	-	-	3	3	2	-	4	4	3	-
4.1580	23505892	RING SEAL, OIL PUMP INLET		2	2	-	-	3	3	2	-	4	4	3	-
4.1590	8929347	GASKET, O/P OUTLET PIPE TO BLOCK		2	2	-	-	2	2	-	-	2	2	-	-
4.1670	23512901	REGULATOR ASM., OIL PUMP		1	1	-	-	1	1	-	-	2	2	-	-
4.1690	5126327	SPRING, OIL PRESSURE REGULATOR		1	1	-	-	1	1	-	-	2	2	-	-
4.1700	8922740	VALVE, OIL PRESSURE REGULATOR		1	1	-	-	1	1	-	-	2	2	-	-
4.1730	5117269	GASKET, OIL PRESS. REG. BODY		2	2	-	-	2	2	-	-	4	4	-	-
4.2250	23518672	ELEMENT, OIL FILTER (BY-PASS)		10	8	6	4	20	16	10	8	24	20	16	12
4.2250	23518671	ELEMENT, OIL FILTER (FULL FLOW)		24	16	10	6	48	24	16	10	60	48	24	16
4.2250	23518480	ELEMENT, OIL FILTER (FULL FLOW)		24	16	10	6	48	24	16	10	60	48	24	16

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MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
4.2250	5361840001	ELEMENT, OIL FILTER (S60 MARINE)		24	16	10	6	48	24	16	10	60	48	24	16
4.2291	8929341	O-RING (OIL FILTER)		2	2	1	1	4	3	2	1	6	4	3	1
4.2291	8929342	O-RING (OIL FILTER ADAPTOR)		2	2	1	1	4	3	2	1	6	4	3	1
4.2291	23508392	RING SEAL RND OIL CLR / FLTR ADPT		2	2	-	-	4	4	3	-	6	6	4	2
4.2291	8929340	O-RING (BYPASS-FILTER)		2	2	1	1	4	3	2	1	6	4	3	1
4.2485	8929000	VALVE, OIL FILTER BY-PASS		1	1	-	-	1	1	-	-	2	2	1	-
4.2486	8929486	SPRING, OIL FILTER BY-PASS VALVE		1	1	-	-	1	1	-	-	2	2	1	-
4.4001	23522416	# CORE, OIL CLR, 10 PLT, 12L		1	1	-	-	1	1	-	-	2	2	1	-
4.4001	52458839	# CORE, OIL CLR, 7 PLT, 11L		1	1	-	-	1	1	-	-	2	2	1	-
4.4030	8929348	GASKET, O/C CORE INNER		1	1	-	-	2	2	1	-	4	3	2	-
4.4030	23506247	GASKET, OIL COOLER HSG. TO CORE		1	1	-	-	2	2	1	-	4	3	2	-
4.4040	8929280	RING, OIL COOLER HOUSING		2	2	-	-	4	4	2	-	6	6	4	2
4.4050	23518638	# HOUSING ASM., OIL COOLER		-	-	-	-	-	-	-	-	1	1	-	-
4.4055	8929289	RING SEAL, COOLER HSG. TO BLOCK		4	4	2	-	6	6	4	-	8	8	6	4
4.4112	23505902	RING SEAL, BYPASS FILTER ADAPTOR		2	2	-	-	4	4	3	-	6	6	4	2
4.4150	23506684	# SPRING, COMP. LUBE OIL FILTER		1	-	-	-	1	1	-	-	2	1	1	-
4.5080	8929302	GASKET, OIL FILLER COVER		1	1	-	-	1	1	-	-	2	2	-	-
4.7001	23517243	SPACER, OIL PAN		4	4	3	-	6	6	4	-	10	8	6	-
4.7001	23517242	ISOLATOR, OIL PAN		4	4	3	-	6	6	4	-	10	8	6	-
4.7001	23522281	SLEEVE ASM., OIL PAN BOLT MOD SEAL		4	4	3	-	6	6	4	-	10	8	6	-
4.7030	23522279	GASKET, OIL PAN MOD SEAL		2	2	1	-	4	3	2	-	6	4	3	-

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				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
4.7030	8929102	GASKET, PAN TO BLOCK		2	2	1	-	4	3	2	-	6	4	3	-
4.8060	5101760	# ELEMENT, BREATHER PAD		1	1	1	-	2	2	1	1	3	2	1	1
5.1001	23514989	PUMP ASM., FRESH WATER		1	1	-	-	2	2	-	-	3	3	-	-
5.1001	E23526618	PUMP ASM., WATER (S60 MARINE)		1	1	-	-	2	2	-	-	3	3	-	-
5.1001	23522707	PUMP ASM., WATER (360 DEG. BEAD HI. CAP. IMP.)		1	1	-	-	2	2	-	-	3	3	-	-
5.1001	R23523904	PUMP ASM., WATER (SAND CAST HSG. HI CAP. IMP.)		1	1	-	-	2	2	-	-	3	3	-	-
5.1001	8929158	SEAL RING, WATER PUMP BODY		2	2	-	-	2	2	-	-	2	2	-	-
5.1001	23520377	SEAL RING, WATER PUMP BODY (SQ.CUT)		2	2	-	-	3	2	1	-	6	4	2	2
5.1002	23509105	KIT, W/P RECOND. (W/SQ. CUT SEAL)		2	2	1	-	4	3	2	-	6	4	3	1
5.1236	8929510	SEAL RING, WATER PUMP COVER		2	2	-	-	3	2	1	-	4	2	2	1
5.1236	5101160	SEAL RING, WATER PUMP COVER		2	2	-	-	3	2	1	-	4	2	2	1
5.1236	23505024	SEAL RING, W/P CVR (SQ. CUT)		2	2	-	-	3	2	1	-	4	2	2	1
5.2050	8929878	# THERMOSTAT ASM., 190 DEGREE		4	4	2	2	6	6	4	2	10	8	6	2
5.2060	5132155	SEAL, THERMOSTAT		1	1	-	-	2	2	-	-	4	4	2	-
5.3401	23506325	# HOSE, 2.75x2.50 LG. (SILICONE), WATER PUMP TO OIL COOLER		1	1	-	-	2	2	1	-	3	3	2	1
5.4111	8929820	BEARING, FAN SPINDLE ROLLER		-	-	-	-	1	1	-	-	2	2	1	-
5.4111	23518178	BEARING, FAN SPINDLE BALL		-	-	-	-	1	1	-	-	2	2	1	-
5.4160	8929213	SEAL, FAN SPINDLE		1	1	-	-	2	2	-	-	4	4	2	-
5.7001	23507189	# ELEMENT, COOLLANT (PRECHARGE)		12	12	12	12	24	24	12	12	36	24	12	12
5.7020	23507545	ELEMENT, WATER (MAINTENANCE 4 OZ.)		12	12	12	12	24	24	12	12	36	24	12	12

SEE ENGINE EQUIPMENT RECORD FOR YOUR REQUIREMENTS.

All information subject to change without notice.
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SERIES 60 BASIC ENGINE SPARE PARTS LIST

MPC GROUP	PART NUMBER	DESCRIPTION	HOURS	1 - 10 ENGINES				10 - 24 ENGINES				25 + ENGINES			
				(6	4	3	2	6	4	3	2	6	4	3	2
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
				(0	0	0	0	0	0	0	0	0	0	0	0
5.7020	23516489	ELEMENT, WATER (NEED RELEASE)		12	12	12	12	24	24	12	12	36	24	12	12
5.7034	23507190	VALVE ASM., COOLANT FILTER RELIEF		-	-	-	-	-	-	-	-	1	1	-	-
6.1010	23511666	GASKET, EXHAUST MANIFOLD		4	4	-	-	8	8	-	-	12	12	8	-
6.1010	23525090	GASKET, EXHAUST MANIFOLD (S60 MARINE)		4	4	-	-	8	8	-	-	12	12	8	-
7.4447	8929130	GASKET, TACH. DR. COVER		2	2	-	-	4	4	-	-	4	4	-	-
7.8700	23515946	SPARK PLUG ASSY. (S60G)		12	12	6	6	24	24	12	12	36	36	24	12
7.8710	23518913	COIL ASSY., IGNITION (S60G)		6	3	-	-	6	6	3	3	12	12	6	6
7.8710	23519119	SEAL RING (S60G)		12	6	-	-	12	12	6	6	24	24	12	12
7.8725	16198239	MODULE, IGNITOR (S60G)		1	-	-	-	2	2	1	-	3	3	2	2
7.8735	23519555	BOOT & SPRING ASM. (S60G)		6	-	-	-	12	12	6	-	18	18	12	6
12.4005	23515145	GASKET, AIR COMPR. DR. HOUSING		4	2	1	1	8	6	4	2	12	10	8	6
12.4039	8929299	GASKET, AIR COMPRESSOR DRIVE HOUSING		4	2	1	1	8	6	4	2	12	10	8	6
12.4040	8929721	HUB, AIR COMPRESSOR		1	-	-	-	1	-	-	-	1	-	-	-

***** NOTE: CHECK ENGINE OPTION PLATE AND PARTS BOOK FOR ENGINE REQUIREMENTS. *****

SEE ENGINE EQUIPMENT RECORD FOR YOUR REQUIREMENTS.

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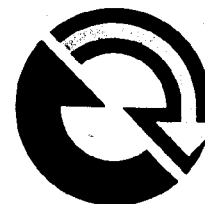
13400 Outer Drive, West / Detroit, Michigan 48239-4001
Telephone: 313-592-5000
www.detroitdiesel.com

SECTION 2

**CUSTOM PARTS CATALOG
FOR
DIESEL ENGINE (DETROIT DIESEL)**

DETROIT DIESEL

Custom Parts Catalog



ENGINE SERIAL NUMBER: 06R0673631

ENGINE SERIES NUMBER: 60

ENGINE MODEL NUMBER: 6062TK02

LAKE SHORE



GENERAL INFORMATION

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

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

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

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

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

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

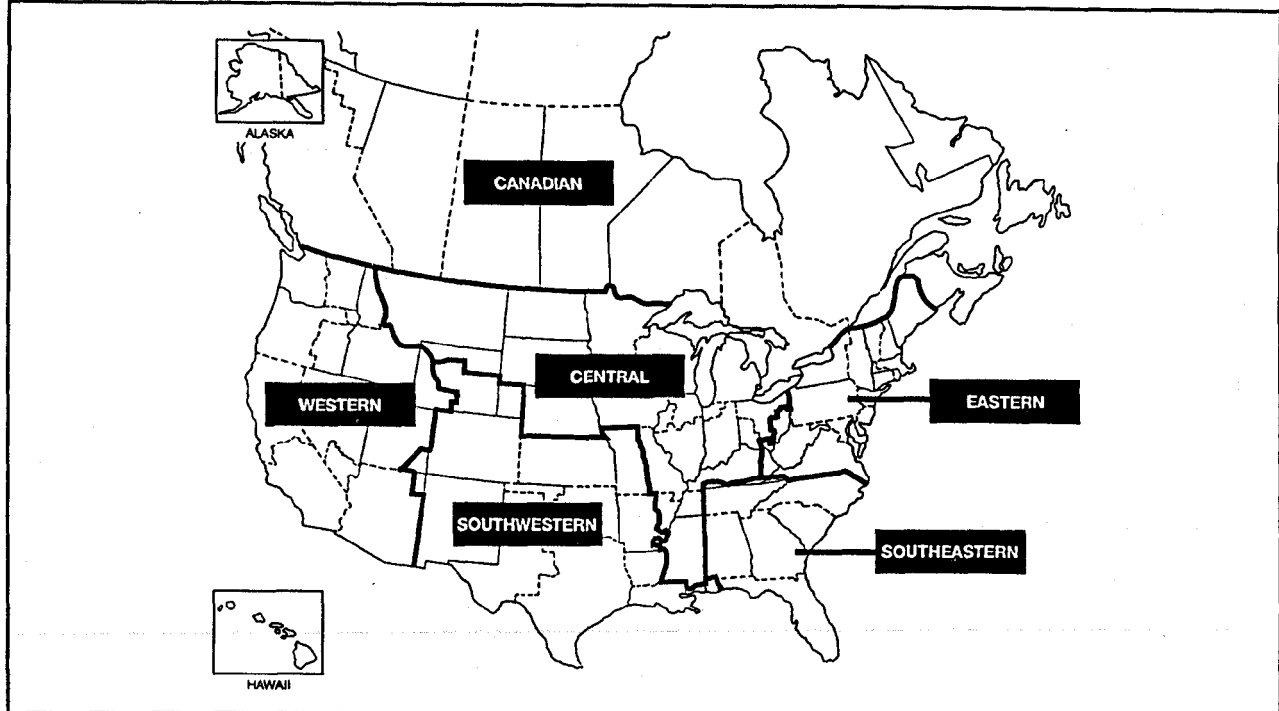
IMPORTANT ENGINE INFORMATION

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

CUSTOMER ASSISTANCE

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

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DETROIT DIESEL

Custom Parts Catalog

ENGINE DESCRIPTION

SERIAL NUMBER: 06r0673631

SERIES NUMBER: 60

MODEL NUMBER: 6062TK02



1.0000 ENGINE (LESS MAJOR ASSEMBLIES)

- 1.1000 CYLINDER BLOCK
- 1.1000A AIR BOX DRAINS
- 1.2000 CYLINDER HEAD
- 1.2000A ENGINE, LIFTER BRACKET
- 1.3000 CRANKSHAFT, OIL SEALS AND STABILIZERS
- 1.3000A CRANKSHAFT FRONT COVER
- 1.3000B VIBRATION DAMPER
- 1.3000C CRANKSHAFT PULLEY
- 1.3000D CRANKSHAFT PULLEY BELT
- 1.4000A FLYWHEEL
- 1.5000A FLYWHEEL HOUSING
- 1.5000B FLYWHEEL HOUSING ADAPTOR
- 1.6000 CONNECTING ROD AND PISTON
- 1.7000 CAMSHAFT AND GEAR TRAIN
- 1.7000A BALANCE WEIGHT COVER
- 1.7000B ACCESSORY DRIVE
- 1.8000 VALVE AND INJECTOR OPERATING MECHANISM
- 1.8000A ROCKER COVER

2.0000 FUEL SYSTEM

- 2.1000A FUEL INJECTOR
- 2.1000B INJECTOR CONTROLS ELECTRONIC
- 2.2000 FUEL PUMP
- 2.3000A FUEL FILTER AND STRAINER
- 2.4000A ALTERNATE FUEL SYSTEM
- 2.5000A FUEL LINES AND FUEL COOLER
- 2.7000A
- 2.9000 INJECTOR CONTROLS
- 2.9000A THROTTLE CONTROLS

3.0000 AIR SYSTEM

- 3.1000A AIR CLEANER AND/OR ADAPTOR
- 3.3000A AIR INLET HOUSING
- 3.3000C AIR INTAKE MANIFOLD
- 3.4000 BLOWER AND DRIVE
- 3.4000A BLOWER DRIVE SHAFT
- 3.5000A TURBOCHARGER
- 3.7000 INTERCOOLER/AFTERCOOLER

4.0000 LUBRICATING SYSTEM

- 4.1000A OIL PUMP
- 4.1000B OIL DISTRIBUTION SYSTEM
- 4.1000C OIL PRESSURE REGULATOR
- 4.2000A OIL FILTER
- 4.3000A OIL FILTER LINES
- 4.4000A OIL COOLER
- 4.5000A OIL FILLER
- 4.6000A DIPSTICK
- 4.7000A OIL PAN
- 4.8000A VENTILATING SYSTEM

5.0000 COOLING SYSTEM

- 5.1000 FRESH WATER PUMP
- 5.1000A FRESH WATER PUMP COVER
- 5.2000B THERMOSTAT
- 5.2000C WATER BYPASS TUBE
- 5.3000B WATER CONNECTIONS
- 5.4000A FAN
- 5.5000A HEAT EXCHANGER OR KEEL COOLING
- 5.6000A RAW WATER PUMP
- 5.7000A WATER FILTER

6.0000 EXHAUST SYSTEM

- 6.1000A EXHAUST MANIFOLD AND/OR CONNECTIONS
- 6.2000A EXHAUST MUFFLER AND/OR CONNECTIONS

7.0000 ELECTRICAL INSTRUMENTS

- 7.1000A BATTERY CHARGING GENERATOR
- 7.3000A STARTING MOTOR
- 7.4000B TACHOMETER DRIVE
- 7.4000C SHUT-OFF OR ALARM SYSTEM
- 7.7000B THROTTLE AND GEAR CONTROL SYSTEM ELECTRONIC
- 7.7000C CRT AND LCD DISPLAY SYSTEM ELECTRONIC
- 7.8000C SPARK PLUG, IGNITION COIL, WIRING HARNESS

8.0000 POWER TAKE-OFF

- 8.1000A POWER TAKE-OFF ASSY.

9.0000 TRANSMISSION AND PROPULSION

- 9.1000A MARINE GEAR

11.0000 ENGINE MOUNTING

- 11.1000A ... ENGINE MOUNTING BASE

12.0000 MISCELLANEOUS

- 12.4000A ... AIR COMPRESSOR
- 12.5000A ... HYDRAULIC PUMP
- 12.6000B ... AIR STARTER
- 12.6000C ... COLD WEATHER STARTING AIR KIT
- 12.7000A ... APPEARANCE PACKAGE PARTS
- 12.8000A ... SUPPLIES/MAINTENANCE PRODUCTS
- 12.8000B ... FABRICATION MATERIAL
- 12.8000C ... SERVICE KITS AND SETS

PART NAME	GROUP NO.	PART NAME	GROUP NO.
A			
ACTUATOR ASSEMBLY, GEAR	7. 7460B	BOLT, EXHAUST MANIFOLD TO HEAD	6. 1025A
ACTUATOR ASSY., NATURAL GAS	2. 9395A	BOLT, ROCKER COVER	1. 8460A
ADAPTOR KIT, POWER TAKE OFF	1. 3281C	BOOT AND SPRING IGNITION	7. 8735C
ADAPTOR, DIPSTICK	4. 6030A	BRACKET GAS VALVE MOUNTING	2. 4145A
ADAPTOR, FLYWHEEL HOUSING	1. 5130B	BRACKET IGNITION COIL	7. 8705C
ADAPTOR, FUEL PUMP DRIVE	2. 2260	BRACKET OIL FILLER TUBE CLAMP	4. 5004A
ADAPTOR, HYDRAULIC PUMP	12.5020A	BRACKET, ACTUATOR & THROTTLE BODY	2. 9396A
ADAPTOR, OIL COOLER	4. 4110A	BRACKET, ACTUATOR MOUNTING	2. 1780B
ADAPTOR, OIL FILTER COVER	4. 2291A	BRACKET, AIR COMPRESSOR MOUNTING	12.4010A
ADAPTOR, TACHOMETER DRIVE CABLE	7. 4420B	BRACKET, BOAT BUILDER INTERFACE MODULE	2. 1514B
ADAPTOR, TACHOMETER MOUNTING	12.8325A	BRACKET, BREATHER EXTENSION PIPE	4. 8183A
ADAPTOR, WATER PUMP DRIVE	3. 7005	BRACKET, ELECTRONIC DISTRIBUTOR UNIT	2. 1530B
ADDITIVE, CURING (THREADLOCK & RTV)	12.8252A	BRACKET, ENGINE LIFTER - REAR	1. 2080A
ADDITIVES, DIESEL FUEL	12.8280A	BRACKET, ENGINE LIFTER-FRONT	1. 2070A
ADDITIVES, SUPPLEMENTAL COOLANT	12.8260A	BRACKET, FAN BELT TENSIONER ASSY.	5. 4342A
AIR INTAKE MANIFOLD	3. 3801C	BRACKET, FUEL FILTER MOUNTING	2. 3530A
AIR STARTER ASSY.	12.6080B	BRACKET, GENERATOR ADJUSTING STRAP	7. 1582A
AIR STRAINER AND LUBRICATION ASSY., AIR STARTER	12.6120B	BRACKET, GENERATOR MOUNTING	7. 1595A
APPEARANCE PACKAGE PARTS - SECTION 1	12.7001A	BRACKET, OIL COOLER HOUSING SUPPORT	4. 4100A
APPEARANCE PACKAGE PARTS - SECTION 3	12.7003A	BRACKET, OIL PUMP SCREEN SUPPORT	4. 1540B
APPEARANCE PACKAGE PARTS - SECTION 5	12.7005A	BRACKET, REVERSE GEAR MOUNTING	9. 1011A
ARM ASSY., EXHAUST VALVE ROCKER	1. 8060	BRACKET, SNEF MODULE MOUNTING	2. 1656B
ARM ASSY., INJECTOR ROCKER	1. 8080	BRACKET, STARTING MOTOR SUPPORT	7. 3007A
ARM ASSY., INTAKE VALVE ROCKER	1. 8075	BRACKET, WATER FILTER MOUNTING	5. 7080A
B		BUSHING, FAN BELT IDLER PULLEY SUPPORT	5. 4348A
BALL AND SEAT ASSY., INJECTOR ROCKER ARM	1. 8090	BUSHING, INJECTOR ROCKER ARM	1. 8110
BEARING, ACCESSORY DRIVE	1. 7655B	BUSHING, OIL PUMP BODY	4. 1050A
BEARING, AIR COMPRESSOR DRIVE SHAFT	12.4048A	C	
BEARING, CAMSHAFT	1. 7040	CAMSHAFT ASSY.	1. 7001
BEARING, CLUTCH PILOT	1. 4040A	CAP, CRANKSHAFT MAIN BEARING	1. 3110
BEARING, FAN SPINDLE	5. 4111A	CAP, CAMSHAFT BEARING	1. 7042
BEARING, FRESH WATER PUMP	3. 7220	CAP, OIL FILLER	4. 5010A
BEARING, FUEL PUMP	2. 2060	CAPPLUG R/C S60	1. 8043A
BEARING, IDLER GEAR	1. 7225	CHAIN, OIL FILLER CAP	4. 5030A
BEARING, PISTON PIN.	1. 6142	CLAMP, AIR INLET PIPE HOSE	3. 1280A
BELT, CRANKSHAFT PULLEY DRIVE	1. 3320D	CLAMP, BREATHER TUBE	4. 8039A
BELT, GENERATOR DRIVE	7. 1575A	CLAMP, INJECTOR	2. 1270A
BLADE, FAN HIGH LOW AND CRANKSHAFT MOUNTED	5. 4010A	CLAMP, WATER FILTER INLET HOSE	5. 7095A
BLOCK, CYLINDER	1. 1001	CLEANER, COOLANT SYSTEM	12.8270A
BLOCK,FUEL SYSTEM JUNCTION	2. 5250A	CLIP, ACOUSTICAL	1. 7560A
BODY, FRESH WATER PUMP	3. 7180	CLIP, AIR COMPRESSOR WATER TUBE	12.4095A
BODY, OIL PRESSURE REGULATOR AND RELIEF	4. 1680C	CLIP, BREATHER TUBE	4. 8040A
BODY, OIL PUMP	4. 1040A	CLIP, COLD PLATE TO FILTER HOSE	2. 5121A
BOLT, CAMSHAFT BEARING CAP	1. 7046	CLIP, CYLINDER HEAD INLET	2. 5180A
BOLT, CRANKSHAFT MAIN BEARING CAP	1. 3140	CLIP, DIPSTICK	4. 6040A
		CLIP, FLEXIBLE HOSE	12.8554B
		CLIP, FUEL DRAIN	2. 5220A
		CLIP, OIL FILTER LINE	4. 3045A

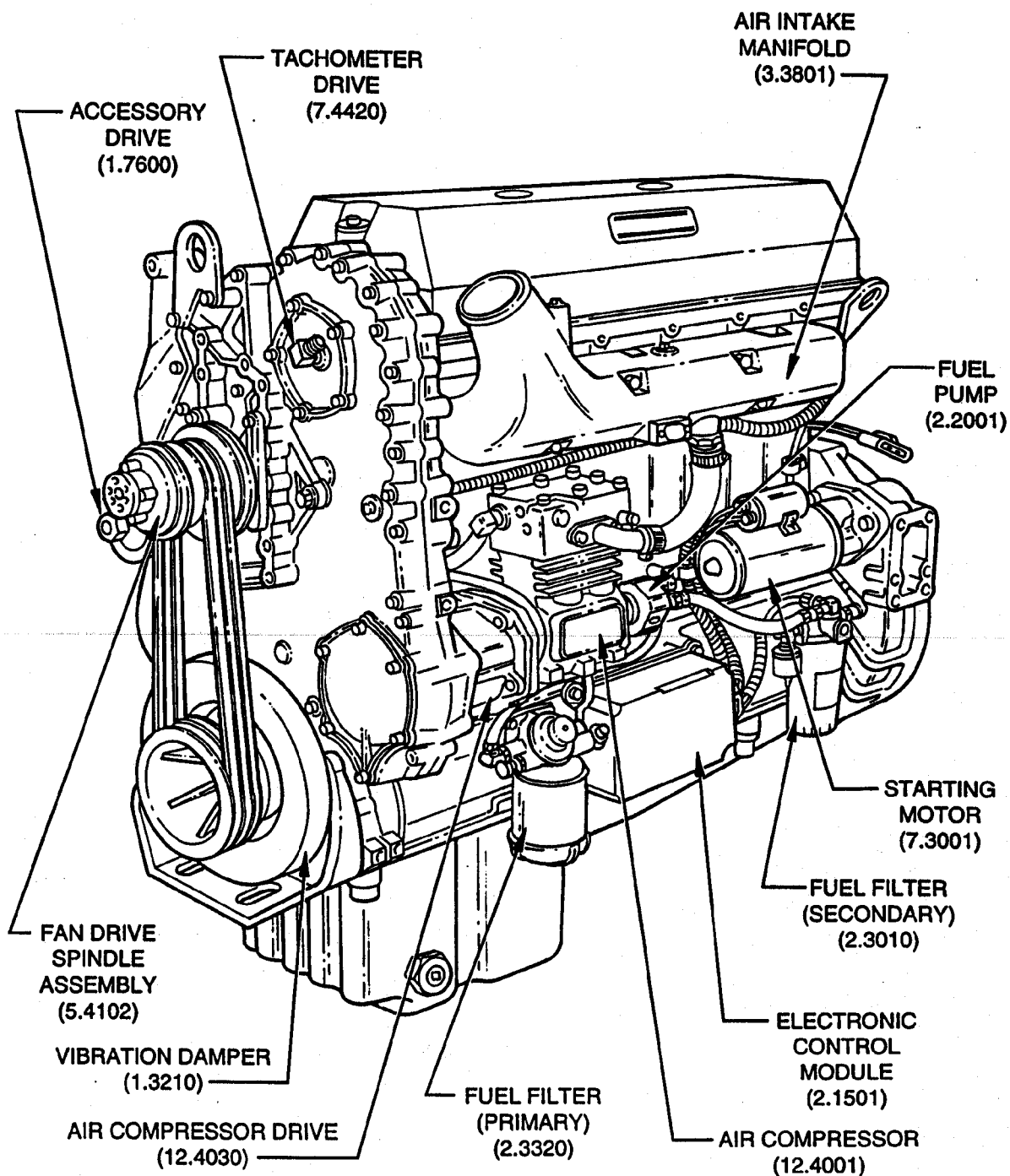
PART NAME	GROUP NO.	PART NAME	GROUP NO.
CLIP, STRAINER TO FUEL PUMP	2. 5070A	DRIVE GEAR, AIR COMPRESSOR DRIVE ASSY.	12.4072A
CLIP, TURBOCHARGER OIL RETURN TUBE	3. 5507A		
CLIP, TURBOCHARGER OIL SUPPLY TUBE	3. 5502A	E	
CLIP, WATER BYPASS TUBE	5. 2190C	ELBOW, TURBOCHARGER AIR INLET	3. 1259A
CLIP, WATER PUMP TO OIL COOLER TUBE	5. 3405B	ELEMENT, FUEL FILTER	2. 3320A
CLUTCH ASSY., FAN	5. 4112A	ELEMENT, FUEL STRAINER	2. 3010A
COIL IGNITION	7. 8710C	ELEMENT, OIL FILTER	4. 2250A
COLD WEATHER STARTING AID KIT	12.6301C	ELEMENT, WATER FILTER	5. 7020A
COMPRESSOR ASSY., AIR	12.4001A		
CONNECTING ROD ASSY.	1. 6001	F	
CONNECTION, FLEXIBLE EXHAUST	6. 2095A	FILTER ASSY., WATER	5. 7001A
CONNECTOR, DEUTCH	2. 1850B	FILTER UNIT, BREATHER	4. 8060A
CONNECTOR, PERIPHERAL	2. 1580B	FITTINGS, FLEXIBLE HOSE END	12.8552B
CORE, OIL COOLER ENGINE	4. 4001A	FLYWHEEL ASSY.	1. 4001A
COUPLING, AIR COMPRESSOR DRIVE	12.4050A	FORK, FUEL PUMP COUPLING	2. 2220
COUPLING, FUEL PUMP DRIVE	2. 2230	FUEL SYSTEM PRODUCTS	12.8006A
COUPLING, HYDRAULIC PUMP DRIVE	12.5010A	FUEL/AIR SEPARATOR	2. 3305A
COUPLING, WATER PUMP DRIVE	3. 7025		
COVER ASSY., ACCESSORY DRIVE ACOUSTICAL	1. 7540A	G	
COVER ASSY., GEAR CASE ACOUSTICAL	1. 7550A	GAGE, AIR PRESSURE	12.8315A
COVER ASSY., ROCKER	1. 8450A	GAGE, AMMETER	12.8310A
COVER, ACOUSTICAL	1. 7530A	GAGE, FUEL PRESSURE	12.8355A
COVER, AIR COMPRESSOR DRIVE ADAPTOR	12.4032A	GAGE, FUEL VOLUME	12.8350A
COVER, BALANCE WEIGHT	1. 7470A	GAGE, HOUR METER	12.8370A
COVER, CAMSHAFT BEARING CAP	1. 7037	GAGE, OIL PRESSURE - ENGINE	12.8330A
COVER, ENGINE FRONT ACCESSORY DRIVE	1. 3191A	GAGE, OIL PRESSURE - TRANSMISSION	12.8335A
COVER, FRESH WATER PUMP BODY	5. 1031	GAGE, OIL TEMPERATURE	12.8340A
COVER, FUEL FILTER	2. 3390A	GAGE, SPEEDOMETER	12.8385A
COVER, FUEL STRAINER	2. 3080A	GAGE, TACHOMETER	12.8320A
COVER, GEAR CASE	1. 3158A	GAGE, TURBO BOOST	12.8375A
COVER, INJECTOR HARNESS	2. 1702B	GAGE, VOLTMETER	12.8380A
COVER, OIL FILLER HOLE	4. 5070A	GAGE, WATER TEMPERATURE	12.8345A
COVER, OIL PUMP	4. 1220A	GASKET KIT, CYLINDER HEAD OVERHAUL	1. 2002
COVER, TACHOMETER DRIVE	7. 4445B	GASKET KIT, ENGINE OVERHAUL	1. 1002
COVER, THERMOSTAT HOUSING	5. 2120B	GASKET, ADAPTOR TO OIL COOLER HOUSING	4. 4112A
COVER, WATER FILTER	5. 7034A	GASKET, AIR COMPRESSOR DRIVE HOUSING	12.4039A
COVER, WATER PUMP	5. 1235A	GASKET, AIR COMPRESSOR MOUNTING.	12.4005A
COVER, WATER PUMP INLET	3. 7030	GASKET, AIR INTAKE MANIFOLD	3. 3803C
COVER, FUEL PUMP	2. 2030	GASKET, AIR STARTER MOUNTING	12.6085B
CRANKSHAFT ASSY.	1. 3001	GASKET, BALANCE WEIGHT COVER	1. 7480A
CYLINDER KIT	1. 6182	GASKET, BREATHER SHELL COVER	4. 8057A
		GASKET, CYLINDER HEAD COMPRESSION	1. 2010
D		GASKET, DIPSTICK	4. 6010A
DAMPER, VIBRATION	1. 3210B	GASKET, ENGINE FRONT ACCESSORY DRIVE	1. 3192A
DIPSTICK	4. 6001A	GASKET, EXHAUST MANIFOLD	6. 1010A
DISC, FLYWHEEL FLEXIBLE COUPLING	1. 4075A	GASKET, FRESH WATER PUMP	3. 7185
DRIVE ASSY., ACCESSORY	1. 7600B	GASKET, FRESH WATER PUMP BODY COVER	3. 7195
DRIVE ASSY., AIR COMPRESSOR	12.4030A	GASKET, FUEL PUMP COVER	2. 2040
DRIVE ASSY., FUEL PUMP	2. 2240		

PART NAME	GROUP NO.	PART NAME	GROUP NO.
GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY	2. 2007	HEAD ASSY., CYLINDER	1. 2001
GASKET, FUEL PUMP VALVE PLUG	2. 2180	HEAT SHIELD, EXHAUST MANIFOLD	6. 1171A
GASKET, HOUSING ADAPTOR	3. 7012	HOSE ASSY., AIR VENT BLEEDER	2. 5530A
GASKET, HYDRAULIC PUMP	12.5005A	HOSE ASSY., PRO-CHEK INLET	2. 5510A
GASKET, OIL COOLER ADAPTOR TO BLOCK	4. 4115A	HOSE ASSY., PRO-CHEK OUTLET	2. 5520A
GASKET, OIL COOLER CORE-INNER	4. 4030A	HOSE ASSY.,AIR BALANCE LINE	2. 5535A
GASKET, OIL COOLER CORE-OUTER	4. 4040A	HOSE HUMP ADAPTOR TO INT TUBE	2. 4192A
GASKET, OIL COOLER HOUSING	4. 4055A	HOSE, COLD PLATE TO FILTER	2. 5116A
GASKET, OIL FILLER HOLE COVER	4. 5080A	HOSE, COLD PLATE TO FUEL FILTER	2. 5117A
GASKET, OIL FILLER TUBE ADAPTOR	4. 5007A	HOSE, FILTER TO CYLINDER HEAD	2. 5160A
GASKET, OIL PAN TO BLOCK	4. 7030A	HOSE, FLEXIBLE (BULK)	12.8550B
GASKET, OIL PRESSURE REGULATOR BODY	4. 1730C	HOSE, FUEL DRAIN	2. 5215A
GASKET, OIL PUMP INLET PIPE	4. 1520B	HOSE, FUEL PUMP INLET	2. 5060A
GASKET, OIL PUMP OUTLET PIPE	4. 1590B	HOSE, FUEL PUMP OUTLET TO COLD PLATE	2. 5115A
GASKET, ROCKER COVER	1. 8455A	HOSE, FUEL PUMP OUTLET TO FILTER	2. 5110A
GASKET, STARTING MOTOR	7. 3004A	HOSE, FUEL SUPPLY	2. 5009A
GASKET, TACHOMETER DRIVE COVER	7. 4447B	HOSE, GENERATOR VENT	7. 1012A
GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	3. 5307A	HOSE, OIL FILTER	8. 1990A
GASKET, TURBOCHARGER OIL RETURN TUBE	3. 5506A	HOSE, WATER BYPASS TUBE	5. 2165C
GASKET, WATER PUMP COVER	5. 1236A	HOSE, WATER FILTER INLET	5. 7090A
GAUGE, AIR PRESSURE METRIC	12.6140B	HOSE, WATER FILTER OUTLET	5. 7100A
GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER	1. 7221	HOSE, WATER PUMP TO OIL COOLER	5. 3401B
GEAR ASSY., HYDRAULIC MARINE	9. 1001A	HOUSING ASSY., FLYWHEEL	1. 5001A
GEAR ASSY., IDLER	1. 7220	HOUSING ASSY., GEAR CASE	1. 3156A
GEAR, ACCESSORY DRIVE SHAFT	1. 7642B	HOUSING, ACCESSORY DRIVE	1. 7627B
GEAR, CAMSHAFT AND BALANCE SHAFT	1. 7200	HOUSING, AIR COMPRESSOR DRIVE	12.4036A
GEAR, CRANKSHAFT TIMING	1. 3145	HOUSING, FAN DRIVE SPINDLE	5. 4103A
GEAR, FLYWHEEL RING	1. 4010A	HOUSING, OIL COOLER-ENGINE	4. 4050A
GEAR, FRESH WATER PUMP DRIVE	5. 1190	HOUSING, OIL TRANSFER COOLER-FILTER ADAPTOR	4. 4053A
GEAR, FUEL PUMP DRIVE	2. 2087	HOUSING, TURBOCHARGER TURBINE	3. 5003A
GEAR, FUEL PUMP DRIVEN	2. 2088	HUB, ADJUSTABLE IDLER GEAR	1. 7255
GEAR, HYDRAULIC PUMP DRIVE	12.5030A	HUB, AIR COMPRESSOR	12.4040A
GEAR, IDLER	1. 7222	HUB, CAMSHAFT GEAR	1. 7206
GEAR, OIL PUMP DRIVE	4. 1090A	HUB, CRANKSHAFT PULLEY	1. 3310C
GENERATOR ASSY.	7. 1001A	HUB, FLYWHEEL FLEXIBLE COUPLING	1. 4080A
GOVERNOR KIT, AIR COMPRESSOR	12.4305A	HUB, IDLER GEAR	1. 7250
GUIDE, DIPSTICK	4. 6020A	HUB, IDLER GEAR BEARING	1. 7228
GUIDE, EXHAUST VALVE	1. 8320		
H			
HAND CLEANERS	12.8070A	IDLER ASSY., GENERATOR DRIVE BELT	7. 1905A
HARNESS ASSY., INJECTOR	1. 8050	IDLER, PULLEY FAN BELT WITH ADJUSTING ARM	5. 4325A
HARNESS GROUND IGNITION	7. 8720C	IMPELLER, FRESH WATER PUMP	3. 7200
HARNESS, ECM BOAT BUILDER INTERFACE MODULE	2. 1690B	INJECTOR ASSY.	2. 1001A
HARNESS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR	2. 1700B	INSERT, EXHAUST VALVE	1. 8330
HARNESS, ENGINE SENSORS TO DISCONNECT	2. 1720B	INSTALLATION KIT, WATER FILTER	5. 7010A
		INSULATION BLANKET TURBOCHARGER	3. 5535A
		INSULATOR ASSY.,CRANKSHAFT PULLEY	1. 3311C
		INTERCOOLER ASSY.	3. 7001

PART NAME	GROUP NO.	PART NAME	GROUP NO.
ISOLATOR, ROCKER COVER BOLT	1. 8461A		
		O	
J		OIL, ENGINE LUBRICATING	12.8025A
JACOBS BRAKE CYLINDER	1. 8070	OVERHAUL KIT, FUEL PUMP	2. 2004
		OVERHAUL KIT, OIL PUMP	4. 1003A
K		P	
KIT ENGINE OVERHAUL	1. 1006	PAINT, ENGINE TOUCH-UP	12.8001A
KIT FRESH WATER PUMP	3. 7180	PAN, OIL	4. 7001A
KIT WASTEGATE ACTUATOR	3. 5004A	PANEL, CONTROL	7. 7470B
KIT, CONNECTING ROD BEARING AND GASKET	1. 6095	PANEL, INSTRUMENT	12.8300A
KIT, COOLANT ANALYSIS	12.8290A	PIN, ALIGNMENT	2. 2012
KIT, COOLANT LEVEL SENSOR	2. 1670B	PIN, PISTON	1. 6140
KIT, CYLINDER LINER AND SEALS	1. 6181	PIPE ASSY, BREATHER	4. 8001A
KIT, ENGINE ADAPTATION	1. 4074A	PIPE, OIL PUMP INLET	4. 1510B
KIT, EPROM STABILIZER	2. 1502B	PIPE, OIL PUMP OUTLET	4. 1580B
KIT, FILTER MAINTENANCE-FUEL/OIL	12.8005A	PISTON KIT	1. 6110
KIT, FUEL ANALYSIS	12.8293A	PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	2. 1520B
KIT, GENERATOR BRACKET TENSIONER & BELTS	7. 1940A	PLATE, CAM AND BALANCE SHAFT THRUST	1. 7070
KIT, JACOBS BRAKE FIELD	1. 8073	PLATE, FLYWHEEL FLEXIBLE COUPLING	1. 4085A
KIT, LOWER ENGINE BEARINGS AND GASKETS	1. 3003	PLUG SPARK	7. 8700C
KIT, OIL ANALYSIS	12.8291A	PLUG, BREATHER HOLE	4. 8043A
KIT, OIL FILL/DRAIN	4. 5090A	PLUG, OIL COOLER BYPASS VALVE	4. 4160A
KIT, REPOWER CONNECTOR AND TERMINAL	2. 1755B	PLUG, OIL PAN DRAIN	4. 7080A
KIT, TUBING	12.8390A	POWER TAKEOFF ASSY.	8. 1001A
KIT, TURBOCHARGER REPAIR	3. 5008A	PROM AND CARRIER ASSY., ELECTRONIC CONTROL	2. 1505B
KITS, SERVICE (ALL)	12.8715C	PULLEY AND HUB ASSY., FAN	5. 4015A
L		PULLEY, ACCESSORY DRIVE	1. 7605B
LAMP, INSTRUMENT PANEL	12.8360A	PULLEY, CRANKSHAFT	1. 3290C
LCD DISPLAY ASSEMBLY	7. 7701C	PULLEY, GENERATOR	7. 1500A
LEVER CONTROL, GEAR AND THROTTLE	7. 7430B	PUMP ASSY., FRESH WATER	5. 1001
LOCK, EXHAUST VALVE SPRING	1. 8370	PUMP ASSY., FUEL	2. 2001
LOCKRING, ACCESSORY DRIVE	1. 7650B	PUMP ASSY., HYDRAULIC	12.5001A
LUBRICATING COMPOUND THREAD	12.8110A	PUMP ASSY., OIL	4. 1001A
M		R	
MANIFOLD, EXHAUST	6. 1001A	RECONDITIONING KIT, FRESH WATER PUMP	5. 1002
MINDER, ENGINE/MASTER	2. 1890B	REGULATOR ASSY., NAT GAS	2. 4136A
MIXING UNIT	2. 4137A	REGULATOR, OIL PRESSURE	4. 1670C
MODULE ASSY., ELECTRONIC CONTROL (ECM)	2. 1501B	RELIEF, VALVE OIL PRESSURE	4. 1671C
MODULE SPARK INTERFACE	7. 8725C	REPAIR KIT, CONNECTOR AND SEAL HARNESS	2. 1758B
MODULE, BOAT BUILDER INTERFACE	2. 1512B	REPAIR KIT, HARNESS TERMINAL	2. 1757B
MODULE, CONTROL STATION INTERFACE	7. 7450B	RETAINER, BREATHER PAD	4. 8065A
MODULE, ELECTRONIC DISTRIBUTOR UNIT (EDU)	2. 1510B	RETAINER, CAMSHAFT AND ACCESSORY GEAR	1. 7240
MODULE, ENGINE ROOM INTERFACE	7. 7440B	RETAINER, CLUTCH PILOT BEARING	1. 4045A
MODULE, SIGNAL NOISE ENHANCEMENT	2. 1655B	RETAINER, FRESH WATER PUMP BEARING AND SEAL	5. 1071
MOTOR ASSY., STARTING	7. 3001A	RETAINER, PISTON PIN	1. 6150
MOUNTING, ENGINE FRONT SUPPORT ELASTIC	11.1072A		

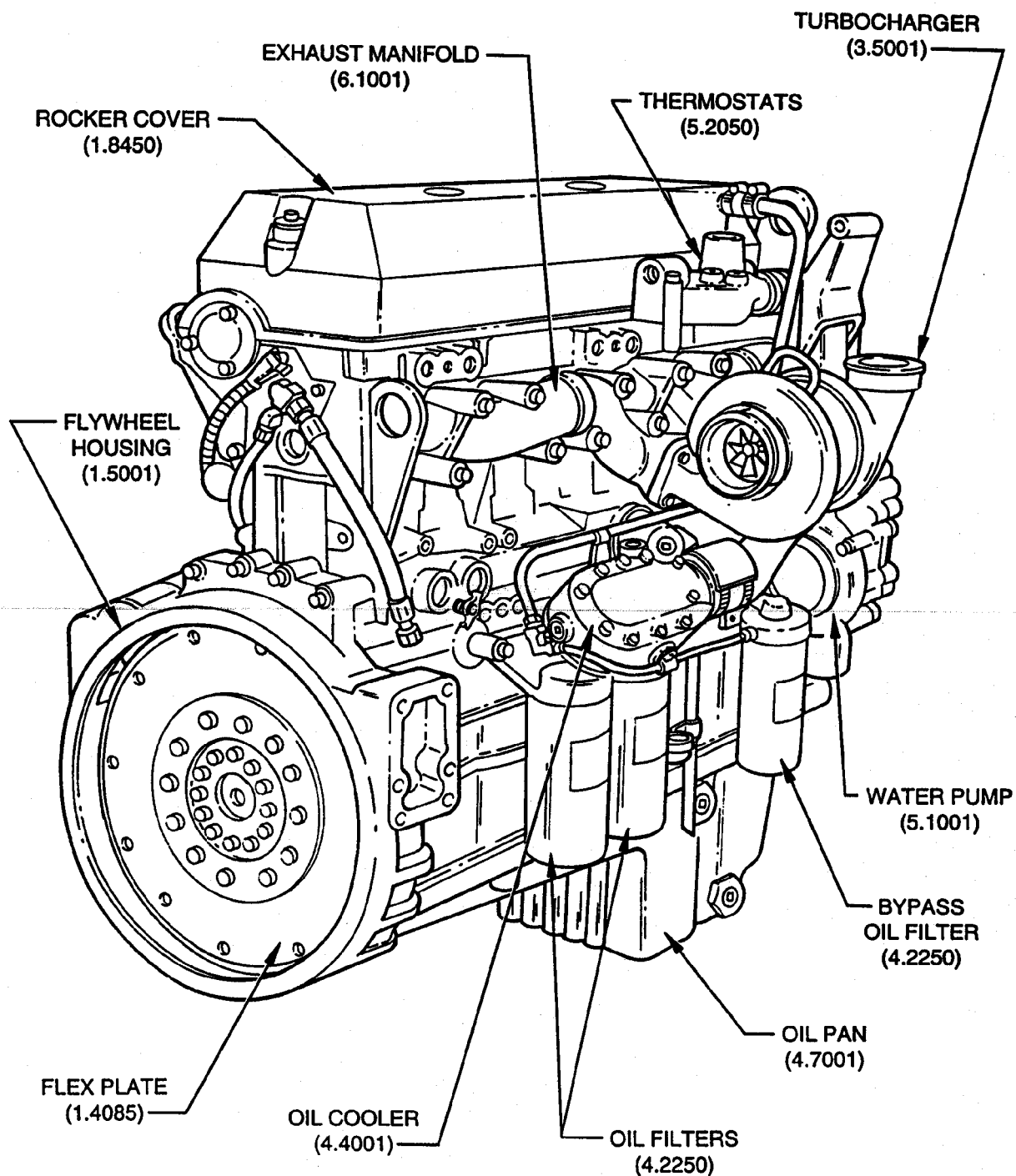
PART NAME	GROUP NO.	PART NAME	GROUP NO.
RING SET, PISTON	1. 6115	SHIELDING, FLEXIBLE HOSE	2. 5255A
RING, INJECTOR SEAL	2. 1040A	SHIM, OIL PUMP	4. 1030A
RING, PISTON COMPRESSION	1. 6120	SLEEVE, CRANKSHAFT OIL SEAL	1. 3167A
RING, PISTON OIL CONTROL	1. 6130	SLEEVE, CRANKSHAFT REAR OIL SEAL	1. 3066
ROD, PUSH	1. 8180	SOCKET, LAMP INSTRUMENT PANEL	12.8365A
ROTATOR, VALVE	1. 8365	SPACER, GENERATOR ADJUSTING STRAP	7. 1581A
S			
SCREW, ROCKER ARM ADJUSTING	1. 8135	SPACER, IDLER GEAR BEARING	1. 7226
SEAL, ACCESSORY DRIVE OIL	1. 7660B	SPACER, PULLEY	5. 4018A
SEAL, BALANCE WEIGHT COVER OIL	1. 7472A	SPACER, ROCKER SHAFT	1. 8173
SEAL, CAMSHAFT THRUST PLATE	1. 7075	SPACER, VIBRATION DAMPER	1. 3275B
SEAL, CRANKSHAFT OIL	1. 5004A	SPINDLE ASSY., FAN DRIVE	5. 4102A
SEAL, CRANKSHAFT OIL FRONT	1. 3166A	SPINDLE, CRANKSHAFT PULLEY	1. 3283C
SEAL, CRANKSHAFT OIL-FRONT	1. 3040	SPRING, EXHAUST VALVE	1. 8340
SEAL, CRANKSHAFT OIL-REAR	1. 3060	SPRING, OIL COOLER BYPASS VALVE	4. 4150A
SEAL, CYLINDER LINER	1. 6190	SPRING, OIL FILTER BYPASS VALVE	4. 2486A
SEAL, FAN SPINDLE	5. 4160A	SPRING, OIL PRESSURE REGULATOR	4. 1690C
SEAL, FRESH WATER PUMP	3. 7210	STAND, ENGINE SHIPPING	11.1045A
SEAL, FUEL PUMP OIL	2. 2070	STRAINER ASSY., SPIN-ON FUEL	2. 3006A
SEAL, THERMOSTAT	5. 2060B	STRAINER, AIR COMPRESSOR ON COMPRESSOR	12.4300A
SEALANT, RTV	12.8255A	STRAINER, OIL FILLER TUBE	4. 5020A
SEAT, EXHAUST VALVE SPRING	1. 8360	STRAP, GENERATOR ADJUSTING	7. 1580A
SEAT, OIL PRESSURE REGULATOR	4. 1701C	STRAP, WIRE ASSY. TO GENERATOR TERMINAL	7. 1633A
SENSOR ASSY., KNOCK	2. 1648B	STUD, EXHAUST MANIFOLD TO TURBOCHARGER	6. 1022A
SENSOR, AIR INTAKE	3. 3810C	SUPPORT ASSY., FAN BELT IDLER PULLEY	5. 4347A
SENSOR, AIR PRESSURE	2. 1650B	SUPPORT, BELT TENSIONER BRACKET	7. 1935A
SENSOR, AIR TEMPERATURE	2. 1647B	SUPPORT, ENGINE FRONT	11.1070A
SENSOR, COOLANT LEVEL	2. 1665B	SUPPORT, ENGINE REAR	11.1100A
SENSOR, MAG. CRANKSHAFT	2. 1620B	SUPPORT, FAN MOUNTING	5. 4025A
SENSOR, MAG. IDLER	2. 1610B	SUPPORT, GENERATOR BRACKET	7. 1596A
SENSOR, OIL OR FUEL PRESSURE	2. 1600B	SUPPORT, OIL FILTER MOUNTING	4. 2470A
SENSOR, OIL, FUEL OR COOLANT TEMPERATURE	2. 1630B	SWITCH, EMERGENCY BACKUP	7. 7465B
SENSOR, OXYGEN	2. 1671B	T	
SEPARATOR, FUEL WATER	2. 3590A	TENSIONER ASSY., GENERATOR DRIVE	7. 1900A
SERVICE KIT, INJECTOR	2. 1002A	TENSIONER, BELT	5. 4340A
SETS, SERVICE (ALL)	12.8720C	TERMINAL RING TYPE	1. 8810
SHAFT AND GEAR ASSY., OIL PUMP DRIVE	4. 1065A	THERMOSTAT ASSY.	5. 2050B
SHAFT AND GEAR ASSY., OIL PUMP DRIVEN	4. 1075A	THERMOSTAT, LUBE OIL	4. 2288A
SHAFT ASSY., FRESH WATER PUMP	5. 1050	THREADLOCK & SEALER	12.8242A
SHAFT ASSY., ROCKER	1. 8160	TRIP RECORDER ANALYSIS CONTROL SYSTEM	2. 1900B
SHAFT, ACCESSORY DRIVE	1. 7640B	TUBE AIR INTAKE	2. 4171A
SHAFT, AIR COMPRESSOR DRIVE	12.4047A	TUBE EXTENSION (NATURAL GAS ENGINE)	1. 8453A
SHAFT, TACHOMETER DRIVE	7. 4435B	TUBE GAS GOVERNOR INLET	2. 4170A
SHELL, BREATHER	4. 8055A	TUBE, AIR COMPRESSOR BOOSTER	12.4375A
SHELL, CONNECTING ROD BEARING	1. 6100	TUBE, AIR COMPRESSOR LUBE OIL DRAIN	12.4070A
SHELL, CRANKSHAFT MAIN BEARING	1. 3090	TUBE, AIR COMPRESSOR LUBE OIL SUPPLY	12.4065A
SHIELD ASSY., ELECTRONIC UNIT DISTRIBUTOR		TUBE, AIR COMPRESSOR WATER INLET	12.4085A
HEAT	2. 1525B	TUBE, AIR COMPRESSOR WATER OUTLET	12.4090A
		TUBE, FUEL PUMP TO CYLINDER HEAD	2. 5101A

PART NAME	GROUP NO.	PART NAME	GROUP NO.
TUBE, GENERATOR OIL DRAIN	7. 1003A	V	
TUBE, GENERATOR OIL SUPPLY	7. 1004A		
TUBE, INTAKE ADAPTOR	2. 9397A		
TUBE, JUNCTION BLOCK TO COLD PLATE	2. 5167A		
TUBE, JUNCTION BLOCK TO CYLINDER HEAD	2. 5175A		
TUBE, OIL FILLER	4. 5001A		
TUBE, OIL FILTER INLET	4. 3001A		
TUBE, OIL FILTER OUTLET	4. 3020A		
TUBE, STRAINER TO FUEL PUMP	2. 5050A		
TUBE, TURBOCHARGER OIL RETURN	3. 5505A		
TUBE, TURBOCHARGER OIL SUPPLY	3. 5500A		
TUBE, WATER BYPASS	5. 2160C		
TUBE, WATER PUMP TO OIL COOLER	5. 3400B		
TURBOCHARGER	3. 5001A	W	
		VALVE ASSY., FUEL PUMP	2. 2130
		VALVE, EXHAUST	1. 8310
		VALVE, FUEL DRAIN CHECK	2. 5209A
		VALVE, FUEL SUPPLY CHECK	2. 5006A
		VALVE, FUEL SYSTEM SHUTOFF	2. 5260A
		VALVE, INTAKE	1. 8315
		VALVE, OIL CONTROL (THERMATIC)	4. 4066A
		VALVE, OIL COOLER BYPASS	4. 4140A
		VALVE, OIL FILTER BYPASS	4. 2485A
		VALVE, OIL PRESSURE REGULATOR	4. 1700C
		WASHER, CRANKSHAFT MAIN BEARING THRUST	1. 3100
		WIRE SPARK PLUG	7. 8715C



TYPICAL SERIES 60 ENGINE

SHEET 1 OF 2



TYPICAL SERIES 60 ENGINE

SHEET 2 OF 2

**DETROIT DIESEL
CUSTOM PARTS CATALOG 02/25/02
06R0673631**

PART #	NAME AND DESCRIPTION	QUANTITY
1.1000 - CYLINDER BLOCK		
1.1001 BLOCK, CYLINDER		
FOR COMPONENTS OF CYLINDER BLOCK ASSEMBLY REFER TO ASSEMBLY BREAKDOWN PAGE A1		
23522981	BLK ASSY CYL TLC W/PSTN CLG CVRS (14MM FLYWHEEL HOUSING BOLT HOLES)	1
1.1001 BLOCK, CYLINDER		
5139988	PLUG, CUP 1" DIA. STNLS.	2
5139991	PLUG, 1-1/2" CUP (1.1001)	5
5151272	PLUG, 11/32" SPECIAL (1.8180)	1
8922327	PLUG, 1/4" NPTF (12.9550)	2
8923916	PLUG, 1/2" PIPE (12.9550)	2
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	3
8929594	PLUG, 3/8"-18 DIA. PIPE EXT. HEX. SOC.	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	2
8929152	PIN, DOWEL 20.0 MM CIRCULAR	1
8929153	PIN, DOWEL 20.0 MM DIAMOND	1
8929432	PLUG, WEEP HOLE (SPECIAL)	6
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
1.1025 NOZZLE, PISTON COOLING		
23522437	COVER PSTN CLG NOZZLE HOLE	6
23508222	BOLT, M8 X 1.25 X 20 12 PT.	6
8923847	PLUG, PIPE 1/4-18" NPTF	1
23518104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
8922327	PLUG, 1/4" NPTF (12.9550)	3
23509239	STUD. M12X1.75X34.0	1
11509522	BOLT, M10 1.5 X 50	2
1.2000 - CYLINDER HEAD		
1.2001 HEAD ASSY., CYLINDER		
FOR COMPONENTS OF CYLINDER HEAD ASSEMBLIES REFER TO ASSEMBLY BREAKDOWN PAGE A1.		
R23525377	HEAD ASSY., 3 BOLT THRUST PLATE W/RACE TRACK SEAL MARINE COMPLETE W/VALVES+SPRINGS	AR
8929123	BOLT, M16 X 2 X 175 (12.9005)	38
8929328	WASHER, 16.8" X 25.8" (12.9190)	38
1.2002 GASKET KIT, CYLINDER HEAD OVERHAUL		
GASKET KIT CONSISTS OF ALL GASKETS NECESSARY TO REPLACE ONE CYLINDER HEAD.		
23501572	GASKET KIT	AR
23528274	KIT, GASKET CYL HD RACE TRACK	AR
1.2010 GASKET, CYLINDER HEAD COMPRESSION		
23522588	GASKET, CYLINDER HEAD	1
1.2000A - ENGINE, LIFTER BRACKET		
1.2070 BRACKET, ENGINE LIFTER-FRONT		
23525023	BRACKET, ENG LFTR FRT RB	1
23525066	BRACKET, ENG LFTR FRT LB	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	1
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	6
11506101	NUT, M10 X 1.5	6
1.3000 - CRANKSHAFT, OIL SEALS AND STABILIZERS		
1.3001 CRANKSHAFT ASSY.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USED TOGETHER TO ENSURE INTERCHANGEABILITY.		
23527965	CRANKSHAFT 160 STROKE 6 HOLE 12 L	1
1.3090 SHELL, CRANKSHAFT MAIN BEARING		
A SHELL SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL. ...SOME UNITS MAY REQUIRE A LOWER MAIN THRUST KIT. REFER TO YOUR CYLINDER B LOCK TYPE IN 1.1035 IF REQUIRED.		

DETROIT DIESEL
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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000 - CRANKSHAFT, OIL SEALS AND STABILIZERS		
8929670	SHELL SET, STANDARD (MAIN)	6
8929671	SHELL SET, .254MM UNDER SIZE (MAIN)	AR
8929672	SHELL SET, .508MM UNDER SIZE (MAIN)	AR
8929673	SHELL SET, .762MM UNDER SIZE (MAIN)	AR
8929680	SHELL SET, STANDARD (THRUST)	1
8929681	SHELL SET, .254MM UNDERSIZE (THRUST)	AR
8929682	SHELL SET, .508MM UNDERSIZE (THRUST)	AR
8929683	SHELL SET, .762MM UNDERSIZE (THRUST)	AR
1.3100 WASHER, CRANKSHAFT MAIN BEARING THRUST		
8929085	WASHER, (UPPER THRUST ONLY)	2
8929697	WASHER, .127MM O.S.	AR
8929698	WASHER, .254MM O.S.	AR
1.3110 CAP, CRANKSHAFT MAIN BEARING		
8929276	CAP, MAIN BEARING (UNSLOTTED)	7
1.3140 BOLT, CRANKSHAFT MAIN BEARING CAP		
8929124	BOLT, M20 X 178.0	14
8929125	WASHER, SPECIAL	14
1.3145 GEAR, CRANKSHAFT TIMING		
23513537	WHEEL, TIMING RING (2.3145)	1
8929497	GEAR, RH, 82T, 133.6MM I.D. 12.7L	1
8929808	KEY, .25"X1.375" (12.9350)	1
1.3000A - CRANKSHAFT FRONT COVER		
1.3156 HOUSING ASSY., GEAR CASE		
23505875	HOUSING ASSY., REAR MOUNT WATER PUMP (INCLUDES 8929333 BOLTS & DOWEL PINS IN 1.3156)	1
8929760	SUPPORT (1.3160)	1
8929015	DOWEL PIN, 16 MM., CIRCULAR (1.1001)	1
8929022	DOWEL PIN 16 MM., DIAMOND (1.1001)	1
8929740	SEAL, RING .134X.074X.480 I.D.)	1
23505062	BOLT, M10 X 1.5 X 40	9
11503454	BOLT, M10 X 1.5 X 20.0	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	3
11513811	BOLT, M12 X 1.75 X 20 MM	1
181333	BOLT, 5/16"-24 X .625"	1
8929333	BOLT, M12 X 1.75 X 65 (SPECIAL)	3
5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)	1
5180370	WASHER, .55" I.D. COPPER (7.4969)	1
1.3158 COVER, GEAR CASE		
23505876	COVER, FRONT	1
5141452	SEAL, RING (3.4143)	1
8923847	PLUG, PIPE 1/4-18" NPTF	2
8924517	PLUG, 3/8"-18 SQ. SOC. VIBRA SEAL (12.9550)	1
11509523	BOLT, M10 X 1.5 X 55 MM	14
11509525	BOLT, M10 X 1.5 X 110 MM	4
1.3166 SEAL, CRANKSHAFT OIL FRONT		
23518355	SEAL/SLEEVE ASSY., FRONT CRANKSHAFT UNITIZED	1
1.3191 COVER, ENGINE FRONT ACCESSORY DRIVE		
23514714	COVER FRT CAMSHF 5 HOLES S80	1
8929099	COVER, FRONT ACCESSORY	1
11504822	BOLT, M8 X 1.25 X 30	11
1.3192 GASKET, ENGINE FRONT ACCESSORY DRIVE		
8929299	GASKET, ACCESSORY FRONT	1
8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
1.3000B - VIBRATION DAMPER		
1.3210 DAMPER, VIBRATION		
8929502	DAMPER, 11L & 12.7L	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.3000B - VIBRATION DAMPER		
1.3275 SPACER, VIBRATION DAMPER		
8929527 * SPACER		1
5133981 WASHER, 19/32" (1.1001)		6
8929222 BOLT, 9/16"-18 X 2 1/2"		6
* USE SPACER WHEN CRANKSHAFT PULLEY IS NOT REQUIRED.		
1.3000C - CRANKSHAFT PULLEY		
1.3280 PULLEY, CRANKSHAFT		
8929077 PULLEY, 188.0MM O.D., 4 GROOVE (ITEM 3)		1
8929222 BOLT, 9/16"-18 X 2 1/2"		6
5133981 WASHER, 19/32" (1.1001)		6
1.4000A - FLYWHEEL		
1.4001 FLYWHEEL ASSY.		
INCLUDES GEAR IN 1.4010. "C" INDICATES A CHAMFERED ASSY.		
23516162 FLYWHL ASM 1 TYPE B FOR18.376DRVGRS60		1
1.4001 FLYWHEEL ASSY.		
5184773 GEAR, SAE #1, 118 TEETH, UNCHAMFERED		1
5107251 PLATE, 6 BOLT SCUFF		1
9410925 BOLT, 9/16"-18 X 2 1/4" (12.9001)		12
1.5000A - FLYWHEEL HOUSING		
1.5001 HOUSING ASSY., FLYWHEEL		
23528371 HOUSING ASSY., FLYWHEEL SAE#1 ALUM 14MM BOLT HOLES		1
11508533 BOLT, M14 X 2.0 X 100 MM		4
23522327 BOLT M14 2.00 X 50.0 LG HEX HD		8
23522326 WASHER		8
1.5004 SEAL, CRANKSHAFT OIL		
23519651 SEAL, REAR CR/SHF		1
1.6000 - CONNECTING ROD AND PISTON		
1.6001 CONNECTING ROD ASSY.		
QUANTITIES SHOWN ARE PER CYLINDER. A CROSSHEAD ROD ASSY. INCLUDES A CAP. WH		
ICH IS NOT SOLD SEPARATELY, AND ONLY THOSE ITEMS IN 1.6001.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USE		
D TOGETHER TO ENSURE INTERCHANGEABILITY.		
23526078 ROD ASSY., CONN DRILLED STL PSTN LEAD FREE		1
8929355 BOLT, MJ14 X 1.5 X 108		2
8929019 NUT, MJ14X1.5		2
1.6100 SHELL, CONNECTING ROD BEARING		
A SHELL SET CONSISTS OF ONE (1) UPPER AND ONE (1) LOWER BEARING SHELL.		
NEW CRANKSHAFTS FOR WIDER CONN ROD BEARINGS AND CONN ROD ASSYS. MUST BE USE		
D TOGETHER TO ENSURE INTERCHANGEABILITY.		
23526142 SHELL SET, STD CONN ROD DRILLED UPR/LWR 12.7L		1
1.6110 PISTON KIT		
A PISTON KIT INCLUDES PISTON ASSY., 3 PC. BUSHING, SKIRT AND PIN IN 1.6140.		
QUANTITIES SHOWN ARE PER CYLINDER.		
23527966 DOME KIT, SKIRT AND PSTN ART STL W/J GRV		1
(INCLUDES DOME, SKIRT, PISTON PIN AND RETAINERS)		
1.6115 RING SET, PISTON		
RING SET CONSISTS OF SUFFICIENT RINGS FOR ONE (1) PISTON.		
23527968 RING SET (3.0MM TOP)		1
1.6140 PIN, PISTON		
23525168 PIN, PISTON ARTICULATED STL PISTON		1
1.6150 RETAINER, PISTON PIN		
23521781 RETAINER, STEEL PISTON PIN		2
1.6181 KIT, CYLINDER LINER AND SEALS		
KIT INCLUDES NOT SERVICED SEPARATELY LINER AND SEALS IN 1.6190		

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PART #	NAME AND DESCRIPTION	QUANTITY
1.6000	- CONNECTING ROD AND PISTON	
23523948	KIT, LINER TOP COOLING & SEALS	1
1.6190	SEAL, CYLINDER LINER	
8929013	SEAL, CREVICE	1
1.7000	- CAMSHAFT AND GEAR TRAIN	
1.7001	CAMSHAFT ASSY.	
	A CAMSHAFT ASSY. INCLUDES DOWEL IN 1.7001.	
23525526	CAMSHAFT ASSY. (44N/88J/16E W/13DEG ADV)	1
1.7037	COVER, CAMSHAFT BEARING CAP	
23514716	COVER RR CAMSHF S60	1
11509511	BOLT, M8 X 1.25 X 20 MM	3
1.7040	BEARING, CAMSHAFT	
	A BEARING SET CONSISTS OF ONE UPPER AND ONE LOWER BEARING SHELL.	
8929690	BEARING SET (STD.)	7
8929691	BEARING SET, .254 MM O.S.	AR
8929692	BEARING SET, .508 MM O.S.	AR
8929693	BEARING SET, .762 MM O.S.	AR
1.7042	CAP, CAMSHAFT BEARING	
8929738	CAP, CAMSHAFT BEARING, FRONT (IDENTIFICATION-NO.1)	1
8929870	CAP, CAMSHAFT BEARING, INTERMEDIATE (1.7042)	4
8929871	CAP, CAMSHAFT BEARING, CENTER (IDENTIFICATION-NO.)	1
8929739	CAP, CAMSHAFT BEARING, REAR (IDENTIFICATION-NO. 7)	1
8929740	SEAL, RING .134X.074X.480 I.D.	2
5138638	* DOWEL, .628"X.37" HOLLOW (4.1040)	7
* FIG. 1 OF 1.2000.		
1.7046	BOLT, CAMSHAFT BEARING CAP	
8929129	BOLT, M12 X 1.75 X 65	7
1.7070	PLATE, CAM AND BALANCE SHAFT THRUST	
23521892	PLATE, CAM THRUST 3 BOLT	1
11504822	BOLT, M8 X 1.25 X 30	3
1.7075	SEAL, CAMSHAFT THRUST PLATE	
23521894	SEAL, CAM THRUST PLATE TO CYL HD 3 BOLT	1
1.7200	GEAR, CAMSHAFT AND BALANCE SHAFT	
8929379	GEAR 111T	1
1.7206	HUB, CAMSHAFT GEAR	
8929810	KEY, NON ROCK (12.9350)	1
23524883	HUB CAM DRV GEAR	1
23524882	BOLT, M20 X 1.50 X 100.0	1
1.7220	GEAR ASSY., IDLER	
	A GEAR AND HUB ASSY. IS SERVICED AS A COMPLETE ASSY. ONLY.	
R23513559	GEAR ASSY., CAMSHF/ACSR Y BRG & HUB	AR
23513559	(R) GEAR & HUB ASSY., BULL/CAMSHF DDEC III/IV	1
8929448	BOLT, M12 X 1.75 X 35	4
1.7221	GEAR ASSY., ADJUSTABLE CAMSHAFT IDLER	
8929322	GEAR ASSY. (INCLUDES BUSHING WHICH IS NOT SERVICED SEPARATELY)	1
1.7255	HUB, ADJUSTABLE IDLER GEAR	
8929111	HUB	1
11509607	NUT, M12 X 1.75	3
8929336	PLATE, ADJUSTMENT	1
1.7000B	- ACCESSORY DRIVE	
1.7600	DRIVE ASSY., ACCESSORY	
23524001	DRIVE ASSY., ACSRY 6 GROOVE POLY-V	1
1.7605	PULLEY, ACCESSORY DRIVE	
11509584	NUT, LOCK M24 X 3.0	1

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PART #	NAME AND DESCRIPTION	QUANTITY
1.7000B - ACCESSORY DRIVE		
23523980	PULLEY, ACSRY DRV 6 GROOVE	1
1.7642	GEAR, ACCESSORY DRIVE SHAFT	
8929310	GEAR, ACSRY DRV STL RH 34T	1
1.7650	LOCKRING, ACCESSORY DRIVE	
23509204	LOCKRING	1
23511746	LOCKRING	1
1.7655	BEARING, ACCESSORY DRIVE	
23509203	BEARING, BALL SGL.	1
23511745	BEARING, ROLLER	1
1.7660	SEAL, ACCESSORY DRIVE OIL	
23523985	SEAL OIL ACC DR UNITIZED TEFLON	1
8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1
11504822	BOLT, M8 X 1.25 X 30	5
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
1.8050 HARNESS ASSY., INJECTOR		
23525240	HARNESS ASSY., EDU TO INJ DDEC IV INDST USES 12034222 STRAIGHT SCREW TERMINAL SLOTTED	1
23525278	CLIP, .375ID .68 OFFSET .53 BOLT HOLE	1
11503316	BOLT, M12 1.75 X 35.0	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
23525279	SPACER, 13 X 18 X 12	1
1.8060 ARM ASSY., EXHAUST VALVE ROCKER		
	ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.	
R23523174	ARM & RLR ASSY. EXH RKR W/O OIL HOLE	6
9421740	PLUG, CUP 3/16" (12.9320)	12
1.8075 ARM ASSY., INTAKE VALVE ROCKER		
	ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.	
R23520644	ARM & RLR ASSY., INT RKR W/O OIL HOLE	6
1.8080 ARM ASSY., INJECTOR ROCKER		
	ARM ASSY. INCLUDES BUSHINGS, PINS AND ROLLER ASSY. COMPONENTS NOT SERVICED SEPARATELY.	
R23524771	ARM ASSY., INJ ROCKER CERAMIC ROLLER	6
1.8135 SCREW, ROCKER ARM ADJUSTING		
23520818	SCREW ASSY., INTAKE VALVE ADJUSTING UNITIZED 50/60 (INTAKE POSITION)	12
23520819	SCREW ASSY., EXHAUST VALVE ADJ UNITIZED 50/60 (EXHAUST POSITION)	12
23520820	SCREW ASSY., INJECTOR ADJUSTING UNITIZED 50/60 (INJECTOR POSITION)	6
23514371	NUT, 3/8"-24 HEX JAM	30
1.8160 SHAFT ASSY., ROCKER		
23524767	SHAFT ASSY., ROCKER	2
23526221	STUD, M12 1.75 X 136 L.	2
23521111	SEAL	2
23522975	SEAL, RACETRACK FRT CAMSHAFT CAP	1
8929740	SEAL, RING .134X.074X.480 I.D.	1
23500708	NUT, M12 X 1.75	2
23525734	BOLT, M12 1.75 X 100MM L	6
1.8310 VALVE, EXHAUST		
23525179	VALVE, EXHAUST PYROMET CHROME (MARKED "U1")	12
1.8315 VALVE, INTAKE		
23525180	VALVE, INTAKE EATONITE CHROME (MARKED "A7")	12
1.8320 GUIDE, EXHAUST VALVE		
23523930	SEAL EXH VALVE STEM (4 VLV)	24
1.8330 INSERT, EXHAUST VALVE		
23525004	INSERT, (INTAKE)	12

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PART #	NAME AND DESCRIPTION	QUANTITY
1.8000 - VALVE AND INJECTOR OPERATING MECHANISM		
23525003	INSERT, (EXHAUST)	12
1.8340 SPRING, EXHAUST VALVE		
8929415	SPRING (YELLOW STRIPE)	24
1.8360 SEAT, EXHAUST VALVE SPRING		
8929076	SEAT (2.2MM-2.4MM)	24
8929634	SEAT (2.45MM-2.65MM)	AR
8929635	SEAT (2.70MM-2.90MM)	AR
8929636	SEAT (2.95MM-3.15MM)	AR
1.8365 ROTATOR, VALVE		
8929105	ROTATOR	24
1.8370 LOCK, EXHAUST VALVE SPRING		
8929573	LOCK, KEY EXHAUST VALVE SPRING	48
1.8000A - ROCKER COVER		
1.8450 COVER ASSY., ROCKER		
23525253	COVER RKR LWR AL 1 PC 10 BLT S/SYS	1
1.8455 GASKET, ROCKER COVER		
23522269	GASKET, ROCKER COVER MOD SEAL	1
23511991	GASKET LWR TO INTER UPR LRG GRV.	1
1.8460 BOLT, ROCKER COVER		
11504822	BOLT, M8 X 1.25 X 30	8
23522271	SLEEVE ASSY., ROCKER COVER BOLT MOD SEAL	10
5155596	WASHER, 21/64" SPECIAL COPPER (4.7120)	8
1.8480 PLATE, ROCKER COVER BREATHER HOLE		
23525140	COVER RKR LOW PROFILE W/INT BTHR HSG	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000A - FUEL INJECTOR		
2.1001 INJECTOR ASSY. 5237315	(R) INJECTOR 10MM 9HOLE 2.05 I/MIN FLW	6
2.1040 RING, INJECTOR SEAL	FORMER STYLE EUI INJECTOR BODY USED 2-UPPER AND 2-LOWER SEAL RINGS. CURRENT STYLE EUI INJECTOR BODY USE 1-UPPER AND 2-LOWER SEAL RINGS.	
5234702	RING, SEAL UPPER	1
5234699	RING, SEAL LOWER	2
2.1270 CLAMP, INJECTOR		
8929088	CLAMP	6
8929021	WASHER	6
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	6
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2.1501 MODULE ASSY., ELECTRONIC CONTROL (ECM)		
R23519308	MODULE ELECT CONT MOD 12/24V 8 IN DDECIV	1
23512309	BOLT M8 1.25 SHOULDER 12 PT HD	4
23512307	ISOLATOR, ECM MOUNT	8
2.1512 MODULE, INTERFACE		
R23519565	MODULE, REMANUFACTURED DDEC3	1
2.1514 BRACKET, BOAT BUILDER INTERFACE MODULE		
103334	LOCKWASHER, 5/8"	4
271562	BOLT, 5/8"-11X2 1/4" (12.9001)	4
23525141	BRACKET, STBD MIMM SUPPORT	1
23518117	ISOLATOR ASSY., EMIM MOUNT	4
23518765	LOCKWASHER, 5/16 INT TOOTH STL ZINC	8
23518766	NUT, 1/4-20 HEX FLG SERRATED	8
2.1520 PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD		
23525178	BRACKET, (ECM MOUNT)	1
000933010180		
	BOLT, M10 X 28	1
304017008083		
	BOLT, M8 X 30	3
2.1600 SENSOR, OIL OR FUEL PRESSURE		
23511176	SENSOR, OIL/FUEL PRESSURE	1
5101020	STRAP, NYLON (2.5255)	12
11504986	BOLT, M8 X 1.25 X 14 MM	2
2.1610 SENSOR, MAG. IDLER		
8929387	SENSOR (SRS)	2
	(INCLUDES 1-8928852 SEAL RING)	
2.1620 SENSOR, MAG. CRANKSHAFT		
8929388	SENSOR (TRS)	1
	(INCLUDES 2-8928852 SEAL RINGS)	
11504986	BOLT, M8 X 1.25 X 14 MM	2
2.1630 SENSOR, OIL, FUEL OR COOLANT TEMPERATURE		
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
23515251	SENSOR ASSY., COOL TEMP 3/4 IN. BRS	1
2.1647 SENSOR, AIR TEMPERATURE		
23515250	SENSOR ASSY., AIR TEMP PLSTC DDEC III	1
2.1690 HARNESS, ECM BOAT BUILDER INTERFACE MODULE		
23525135	HARNESS, ECM/EMIM STBD	1
23509136	CLIP, .640" DIA. 3/8" BOLT (2.5146)	2
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1
2.1720 HARNESS, ENGINE SENSORS TO DISCONNECT		
23509135	CLIP, SPRING .490" DIA 3/8" BOLT (4.6040)	2
23525325	HARNESS ENGINE SENSOR DDEC IV S60 MARINE	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.1000B - INJECTOR CONTROLS ELECTRONIC		
2362448	CLIP .688" DIA 3/8" BOLT CTD (12.8554)	1
8929534	CLIP	1
11509511	BOLT, M8 X 1.25 X 20 MM	2
2.2000 - FUEL PUMP		
2.2001 PUMP ASSY., FUEL		
SEE ASSEMBLY BREAKDOWN PAGE A1.		
23525306	PUMP ASSY., FUEL RH GRCASE MT RR MT INLT/OT	1
23523726	CONN, 5/8 SAE TO 3/8 NPTF BRS	1
8929831	CONNECTOR, STRAIGHT 3/8FLD TUBE 3/8 PIPE (12.9480)	1
23506222	BOLT, M8 X 1.25 X 20 12 PT.	3
2.2007 GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY		
5150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)	1
2.2230 COUPLING, FUEL PUMP DRIVE		
8929479	COUPLING	1
2.2240 DRIVE ASSY., FUEL PUMP		
SEE ASSEMBLY BREAKDOWN PAGE B1.		
8929253	SEAL, RING .139" X 4.609" I.D. (2.2280)	1
8929785	DRIVE ASSY.	1
2.2001 DRIVE ASSY., FUEL PUMP		
23513205	ELBOW, 90 DEG. 3/8" FL TUBE 3/8" PIPE	1
8924175	ELBOW, 90 DEG. 3/8" STREET (12.9480)	1
2.2255 GEAR, FUEL PUMP DRIVE		
8929786	GEAR, 15.875 MM I.D.	1
9411502	RING, RETAINING (2.7470)	1
2.2260 ADAPTOR, FUEL PUMP DRIVE		
8929474	ADAPTOR FUEL PUMP BRG SUPT S80	1
2.2292 HUB, FUEL PUMP DRIVE GEAR		
8929787	HUB, 15.875 MM I.D.	1
11504822	BOLT, M8 X 1.25 X 30	5
2.3000A - FUEL FILTER AND STRAINER		
2.3320 ELEMENT, FUEL FILTER		
23518482	FILTER, FUEL SECONDARY	1
2.3390 COVER, FUEL FILTER		
23515571	TEE, 1/4NPT SAE 3/8 FLD TUBE	1
23524615	SENSOR ASSY., OIL/FUEL W/DIN CONNECTOR	1
8925325	BUSHING PIPE RED 3/8 PTF 1/4 ZINC	1
23526131	BASE, FUEL FILTER SPIN ON 3/8" NPTF	1
8923847	PLUG, PIPE 1/4-18" NPTF	1
23526109	VALVE ASSY., FUEL SHUTOFF 90DEG BALL VALVE	1
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
23513204	CONNECTOR, 3/8" FL. TUBE; 3/8" PIPE	1
2.3530 BRACKET, FUEL FILTER MOUNTING		
23525185	BRACKET, FUEL FILTER MOUNT	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
11509528	BOLT, M12 X 1.75 X 30 MM	2
11506101	NUT, M10 X 1.5	2
2.5000A - FUEL LINES AND FUEL COOLER		
2.5060 HOSE, FUEL PUMP INLET		
11513811	BOLT, M12 X 1.75 X 20 MM	1
2419766	CLIP, 1.06" DIA., 3/8" BOLT (4.8040)	1
CCHPO236	HOSE ASSY., #10 X 26.8 L H&P FC234	1
2.5100 TUBE, FUEL PUMP TO FILTER		
CAHPO435	HOSE ASSY., #8 X 45.90" L.	1
2.5110 HOSE, FUEL PUMP OUTLET TO FILTER		
23509136	CLIP, .640" DIA. 3/8" BOLT (2.5146)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
2.5000A - FUEL LINES AND FUEL COOLER		
2.5180	HOSE, FILTER TO CYLINDER HEAD	
CAHP0197	HOSE ASSY., #8 X 22.1 FC234	1
2.5209	VALVE, FUEL DRAIN CHECK	
23518919	VALVE ASSY., CHK FUEL 3/8 NPTF FEMALE #8 SST	1
2.5215	HOSE, FUEL DRAIN	
23518511	FITTING 90 DEG	1
23525350	FITTING, STRAIGHT	1
CALV0715	HOSE ASSY., #6 X 73.9 C&A FC234	1
2.5219	TUBE, WATER DRAIN	
CBLZ0073	HOSE ASSY., #8 X 10.0 L&Z	1
23525293	ELBOW, 90 DEG	1
2.5220	CLIP, FUEL DRAIN	
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
11506101	NUT, M10 X 1.5	1
11507036	NUT, M8 X 1.25	1
11509512	BOLT, M8 X 1.25 X 25 MM	4
11509525	BOLT, M10 X 1.5 X 110 MM	1
5114541	BRACKET (7.1585)	1
5157412	SPACER, 7/8"X13/32"X1/4"	3
23508136	CLIP, .640" DIA. 3/8" BOLT (2.5146)	5
5101020	STRAP, NYLON (2.5255)	3

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PART #	NAME AND DESCRIPTION	QUANTITY
3.5000A - TURBOCHARGER		
3.5001 TURBOCHARGER		
23525406	TURBOCHARGER ASSY., UTM8901 40 TRIM BC15 0.90A/R	1
11501052	NUT, M10X1.5	4
23517240	WASHER TURBO TO EXHAUST MANIFOLD S50G	4
3.5307 GASKET, TURBOCHARGER EXHAUST INLET CONNECTION		
8929529	GASKET, TURBO EXHAUST INLET	1
3.5414 TUBE, TURBOCHARGER AIR OUTLET CONNECTION		
23525390	TUBE, TURBO TO CHRG AIR CLR	1
3.5415 BRACKET, TURBOCHARGER AIR OUTLET TUBE		
23525269	BRACKET, TURBO TUBE SUPPORT	1
11509511	BOLT, M8 X 1.25 X 20 MM	3
11507036	NUT, M8 X 1.25	3
3.5420 HOSE, TURBOCHARGER AIR OUTLET CONNECTION		
23517292	HOSE 3.50 X 3.00 LG S80 BLUE	2
23508857	CLAMP HOSE 3 1/4"-4 1/8" I.D. CONSTANT TORQUE	4
3.5500 TUBE, TURBOCHARGER OIL SUPPLY		
CAHP0346	HOSE ASSY., #6 X 37.0" LG	1
8929837	ELBOW, 45 DEG. 3/8 FLD TUBE 1/4 PIPE (12.9390)	1
8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	1
3.5502 CLIP, TURBOCHARGER OIL SUPPLY TUBE		
23525352	CLIP	1
11513811	BOLT, M12 X 1.75 X 20 MM	1
3.5505 TUBE, TURBOCHARGER OIL RETURN		
23525099	TUBE ASSY., OIL DRAIN (UPPER)	1
2492119	ELBOW, 90 DEG. 1' FLD TUBE 3/4" NPTF	1
8927579	BOLT, 3/8"-16X.88" (W/SEAL PATCH) (12.9001)	2
3.5506 GASKET, TURBOCHARGER OIL RETURN TUBE		
5170468	GASKET (3.5506)	1
3.5507 CLIP, TURBOCHARGER OIL RETURN TUBE		
23509144	CLIP SPRING 1.160 DIA 3/8 BOLT CTD	2
11503454	BOLT, M10 X 1.5 X 20.0	1
3.5526 HOSE, TURBOCHARGER DE-AERATION		
BXHH0535	HOSE ASSY., #4 X 57.58 LG	1
CELLO285	HOSE ASSY., #16 X 31.6 L&L	1
23501883	TEE, 3/4"-18 EXT.X1/4"-18 INT.	1
8924145	CONNECTOR, 1/4" TUBE - 90 DEG.	1
8924147	CONNECTOR	1
23525321	BRACKET, 90 DEG	2
8924140	DRAINCOCK, 1/4" (12.9510)	1
11504986	BOLT, M8 X 1.25 X 14 MM	2
11507036	NUT, M8 X 1.25	2
2488022	CLIP, 3/8" BOLT (12.8554)	2
3.7000 - INTERCOOLER/AFTERCOOLER		
3.7001 INTERCOOLER ASSY./ CHARGE AIR COOLER		
23525384	CAC, MATRIX ASSY.	1
3.7003 BRACKET, INTERCOOLER MOUNTING		
23525319	BRACKET, CAC	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	10
11509522	BOLT, M10 1.5 X 50	2
3.7012 GASKET, HOUSING ADAPTOR		
23525104	GASKET, (CAC COOLER TO HSG)	2
23525388	GASKET, AIR INT MFD STL RUB CTD	3
3.7290 COVER, CHARGE AIR COOLER HOUSING		

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PART #	NAME AND DESCRIPTION	QUANTITY
3.7000	- INTERCOOLER/AFTERCOOLER	
23525102	COVER, (CAC HOUSING)	1
3.7300	HOUSING, INTERCOOLER/AIR COOLER	
23525387	HOUSING (CAC/INTAKE)	1
23522322	SENSOR ASSY. AIR TURBO BOOST DDEC IV	1
23525385	BRACE, CAC HOUSING FRONT	1
23525386	BRACE, CAC HOUSING REAR	1
5182977	RING, SEAL (3.3055)	1
000931012205		
	BOLT, M12 1.75 X 130 10.9	2
11509528	BOLT, M12 X 1.75 X 30 MM	2
23505062	BOLT, M10 X 1.5 X 40	21
23523808	BOLT, M10 X 1.5 X 135	5
304017005024		
	BOLT, M5 X 12	2
3.7305	ELBOW, WATER INLET & OUTLET INTERCOOLER/AIR COOLER	
23525109	ELBOW, (CAC RAW WATER-OUTLET)	1
23525271	ELBOW, 63.0 CAC RAW WAT INLET	1
23525423	ELBOW, 3/8"-18 NPTF 90 DEG VIBRASEAL	1
23525425	VALVE, CHECK 1/8" 1-2 PSI OPENING PRESSURE	1
ADHMK0265	HOSE ASSY., #4	1
AXH580090	HOSE, #4 X 11.3 L	1
23511711	HOSE, 2.50"X3.25" L.	1
23525448	HOSE, #4 X 8'	1
23525424	TEE, 1/8"-18 NPTF X 1/4" TUBE MALE W/VIBRASEAL	1
23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9860)	2
23525105	GASKET, (CAC COOLER/RAW WATER DUCT)	2
8928851	CLAMP, HOSE 1/4" (12.9860)	1
23525110	SLEEVE	2
23525435	ADAPTOR, FEMALE SAE 45 DEG FLARE	1
6525206	SEAL RING, 2 1/4" I.D. (2.7232)	8
5101020	STRAP, NYLON (2.5255)	1
11509513	BOLT, M8 X 1.25 X 40 MM	4
23509135	CLIP, SPRING .490" DIA 3/8" BOLT (4.6040)	2

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000A - OIL PUMP		
4.1001	PUMP ASSY., OIL	
A PUMP ASSY. INCLUDES ITEMS IN 4.1040, 4.1065, 4.1075, 4.1090 AND 4.1220.		
R23505886	REMANUFACTURED 23505886	AR
23505886	PUMP ASSY., RT. SIDE ENGINE	1
23505885	DOWEL, SLEEVE OIL PUMP	1
8929011	PIN, 25L., DOWEL	1
11502826	BOLT, M10 X 1.5 X 40.0	2
8929393	BOLT, M10 X 1.5 X 70.0 (12.9001)	2
4.1003	OVERHAUL KIT, OIL PUMP	
AN OVERHAUL KIT INCLUDES ITEMS IN 4.1065, 4.1075, 4.1520, 4.1590 AND 4.1730		
23511065	OVERHAUL KIT, RT SIDE ENGINE	1
4.1030	SHIM, OIL PUMP	
23508740	SHIM (.0055" THK.)	AR
4.1040	BODY, OIL PUMP	
BODY ASSY. INCLUDES BUSHINGS IN 4.1050.		
23505878	BODY ASSY., RT. SIDE ENGINE	1
4.1050	BUSHING, OIL PUMP BODY	
23505879	BUSHING, SHAFT & DRIVE GEAR	2
4.1065	SHAFT AND GEAR ASSY., OIL PUMP DRIVE	
23505882	SHAFT & GEAR ASSY., OIL PUMP	1
4.1075	SHAFT AND GEAR ASSY., OIL PUMP DRIVEN	
23507337	SHAFT & GEAR ASSY., OIL PUMP	1
4.1090	GEAR, OIL PUMP DRIVE	
23505884	GEAR, 69 TEETH	1
4.1220	COVER, OIL PUMP	
A COVER ASSY. INCLUDES BUSHINGS IN 4.1220		
23505883	COVER ASSY, OIL PUMP	1
23505879	BUSHING, SHAFT & DRIVE GEAR	2
11509511	BOLT, M8 X 1.25 X 20 MM	2
11509514	BOLT, M8 X 1.25 X 50 MM	2
4.1000B - OIL DISTRIBUTION SYSTEM		
4.1510	PIPE, OIL PUMP INLET	
23525020	TUBE ASSY., OIL PUMP INLET	1
11509514	BOLT, M8 X 1.25 X 50 MM	2
4.1520	GASKET, OIL PUMP INLET PIPE	
23505992	GASKET, OIL INLET TUBE TO PUMP	1
4.1540	BRACKET, OIL PUMP SCREEN SUPPORT	
23512920	BRACKET (RH)	1
23512921	BRACKET (LH)	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
11502812	NUT, M10 X 1.5	2
11503454	BOLT, M10 X 1.5 X 20.0	2
4.1580	PIPE, OIL PUMP OUTLET	
23505890	TUBE, OIL PUMP OUTLET	1
23526138	ELBOW ASSY., OIL INLT & PRESS RELIEF 2 PORT	1
23505891	RING SEAL, OIL PUMP OUTLET	1
23505892	RING SEAL, OIL PUMP INLET	1
11504822	BOLT, M8 X 1.25 X 30	2
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
4.1620	SPRING, OIL PUMP OUTLET PIPE BYPASS VALVE	
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1630	VALVE, OIL PUMP OUTLET PIPE BYPASS	

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PART #	NAME AND DESCRIPTION	QUANTITY
4.1000B - OIL DISTRIBUTION SYSTEM		
8922740	VALVE	1
5117957	SEAT	1
4.1000C - OIL PRESSURE REGULATOR		
4.1670 REGULATOR, OIL PRESSURE		
A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		
23512901	REGULATOR ASSY.	1
4.1680 BODY, OIL PRESSURE REGULATOR AND RELIEF		
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8929283	BODY, REGULATOR	1
4.1690 SPRING, OIL PRESSURE REGULATOR		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1700 VALVE, OIL PRESSURE REGULATOR		
8922740	VALVE	1
4.1701 SEAT, OIL PRESSURE REGULATOR		
23512900	SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
4.1671 RELIEF, VALVE OIL PRESSURE		
A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.		
8921086	VALVE ASSY.	1
4.1680 BODY, OIL PRESSURE REGULATOR AND RELIEF		
457008	PIN, 3/16" X 1-1/2" SPRING (12.9270)	1
8921084	BODY, RELIEF	1
4.1690 SPRING, OIL PRESSURE REGULATOR		
5126327	SPRING (2.96" FREE LENGTH, 15 COILS, CLOSED ENDS,	1
4.1700 VALVE, OIL PRESSURE REGULATOR		
8922740	VALVE	1
4.1701 SEAT, OIL PRESSURE REGULATOR		
5117957	SEAT	1
11504822	BOLT, M8 X 1.25 X 30	2
4.2000A - OIL FILTER		
4.2250 ELEMENT, OIL FILTER		
23527033	FILTER, ELEMENT SPIN ON LUBE OIL	2
4.2291 ADAPTOR, OIL FILTER COVER		
8923847	PLUG, PIPE 1/4-18" NPTF	1
4.4000A - OIL COOLER		
4.4005 COOLER ASSY., OIL COOLER		
23525273	COOLER ASSY., OIL MARINE GEAR	1
4.4100 BRACKET, OIL COOLER HOUSING SUPPORT		
23525274	BRACKET, GEAR COOLER	1
23525276	BRACKET, 90 DEG	1
11509512	BOLT, M8 X 1.25 X 25 MM	4
23511786	BOLT, M10 X 1.5 X 25.00MM (12.9001)	1
271586	BOLT, 5/8"-11X3" (12.9001)	3
11507036	NUT, M8 X 1.25	4
4.4280 HOSE, OIL COOLER WATER OUTLET TUBE		
23511711	HOSE, 2.50"X3.25" L.	1
23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)	2
4.4336 HOSE, MARINE GEAR HYDRAULIC PUMP TO COOLER		
5101020	STRAP, NYLON (2.5255)	3
CDLL0480	HOSE ASSY., #12 X 51.20 LG L&L	1
23505039	ELBOW, 90 DEG FLD 3/4 TUBE	2
4.4343 HOSE, MARINE GEAR OIL COOLER TO SELECTOR VALVE		
CDJL0430	HOSE ASSY., #12 X 43.00 LG J&L	1
23505039	ELBOW, 90 DEG FLD 3/4 TUBE	1
23525346	CONNECTOR	1
4.4345 CLIP, OIL COOLER LINES		

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PART #	NAME AND DESCRIPTION	QUANTITY
4.4000A - OIL COOLER		
5141723	CLIP, 1 1/2" TUBE, 3/8" BOLT (4.1522)	1
5145872	BRACKET CLIP, 90 DEG.	1
5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)	2
11505299	BOLT, M10 X 1.5 X 30.0 MM	2
11506101	NUT, M10 X 1.5	3
4.4000A - OIL COOLER		
4.4001 CORE, OIL COOLER ENGINE		
23522415	CORE ASSY., ENG OIL CLR 11 PLT MODINE	1
4.4030 GASKET, OIL COOLER CORE-INNER		
23506247	GASKET, OIL COOLER HOUSING	1
4.4050 HOUSING, OIL COOLER-ENGINE		
23526054	HOUSING ASSY., OIL COOLER	1
4.4050 HOUSING, OIL COOLER-ENGINE		
8922327	PLUG, 1/4" NPTF (12.9550)	1
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4
23511574	PLUG, 1" PIPE SQ. SOC. SCOTCHGRIP	1
23507182	BOLT, SPL M8 X 1.25 X 73.0	3
23507183	BOLT, SPL M8 X 1.23 X 93.0	7
4.4055 GASKET, OIL COOLER HOUSING		
8929289	RING, SEAL	1
4.4066 VALVE, OIL CONTROL (THERMATIC)		
23524520	THERMOSTAT, OIL CONTROL VALVE	1
4.4110 ADAPTOR, OIL COOLER		
AN ADAPTOR ASSY. INCLUDES 4-PLUGS IN 4.4110 PLUS ITEMS IN 4.4140 AND 4.4150		
23521385	ADAPTOR ASSY., OIL FILTER/COOLER DIRECT OIL EXIT	1
4.4110 ADAPTOR, OIL COOLER		
23506722	INSERT, OIL FILTER ADAPTOR 1 5/8"-12	2
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	4
4.4140 VALVE, OIL COOLER BYPASS		
23513896	VALVE, OIL PRESSURE REG RELIEF	1
23513898	RING, VALVE RETAINING	1
23514067	KIT, VALVE BYPASS REPLACEMENT	AR
4.4150 SPRING, OIL COOLER BYPASS VALVE		
23513897	SPRING, LUBE OIL FILTER VALVE	1
23508392	RING, SEAL	2
23516104	PLUG PIPE 1/4-18 HEX HD STL CTD RED	1
23505062	BOLT, M10 X 1.5 X 40	4
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1
4.4115 GASKET, OIL COOLER ADAPTOR TO BLOCK		
23505902	RING, SEAL BYPASS FILTER	1
23508392	RING, SEAL	1
4.6000A - DIPSTICK		
4.6001 DIPSTICK		
23525017	DIPSTICK. OIL	1
4.6020 GUIDE, DIPSTICK		
23525019	GUIDE, OIL LEVEL GAUGE	1
23522976	ADAPTOR, OIL FILL TUBE	1
3290750	HOSE, 1.25"X3.26"L. (5120022)	1
5109157	PLUG, 1-1/4" CUP (5.5001)	1
23516779	CLAMP, 15MM X 37.2MM	2
4.6030 ADAPTOR, DIPSTICK		
23525018	TUBE, OIL FILL/GAUGE LH	1
4.6040 CLIP, DIPSTICK		
5147753	CLIP, 1.18" DIA. 1/2" BOLT (12.8534)	1
23515353	BRACKET CLIP 90DEG	1

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4.6000A - DIPSTICK		
11503454	BOLT, M10 X 1.5 X 20.0	1
11506101	NUT, M10 X 1.5	1
4.6060 PLATE, DIPSTICK ADAPTOR		
23516970	PLATE OIL FILL CVR DCST AL S50/60	1
11509511	BOLT, M8 X 1.25 X 20 MM	4
4.6061 GASKET, DIPSTICK ADAPTOR PLATE		
8929302	GASKET, 4 HOLE (4.5007)	1
4.7000A - OIL PAN		
4.7001 PAN, OIL		
OIL PAN ASSYS. INCLUDE PLUGS, INSERTS, SEAL RINGS, AND NUTS IN 4.7001		
23525011	PAN, OIL AL LOW PROFILE	1
5178994	PLUG, 3/4"-14 NPTF PIPE (4.7080)	4
23522281	SLEEVE ASSY., OIL PAN BOLT MOD SEAL SYS	10
4.7030 GASKET, OIL PAN TO BLOCK		
23522279	GASKET, OIL PAN W/O CORD MOD SEAL SYS	1
4.8000A - VENTILATING SYSTEM		
4.8187 HOSE, OIL DRAIN		
5174924	VALVE ASSY., FUEL CHECK SWING TYPE	1
CAHH0233	HOSE ASSY., #6 X 25.6" LG	1
23505200	ELBOW, 45 DEG FLD TUB 3/4" HOSE (12.9460)	1
8925033	ELBOW, 45 DEG. STREET, 1/4" PIPE (12.9590)	1
8929833	CONNECTOR, 3/8" INV. FL. TUBE; 5/8" PIPE (12.9460)	1
4.8200 COLLECTOR ASSY.		
23525218	COLLECTOR ASSY., 6" DIA.	1
4.8210 FILTER, COLLECTOR		
23515202	FILTER TAPERED 14 IN LG 10 IN AIRSEP	1
23525914	WASHER, WAVE	1
23526477	ADAPTOR	1
5310940006	LID, FILTER 7" DIA	1
5310940052	WASHER, NYLON	1
5310940071	BOLT, BUTTON HEAD	1
5360940068	INDICATOR, RESTRICTION 20"	1
4.8240 LIMITER ASSY., COLLECTOR VACCUM		
23516532	REGULATOR ASM 1.25DX5.9 CLSD C/CASE	1
23505095	HOSE, 1 1/4" (90 DEG.) (3.5439)	1
23525229	HOSE, 90DEG 1.25 ID 2.50 X 4.00	1
23508028	CLAMP, HOSE SNAPPER TYPE SNP-36	4
4.8250 CONNECTIONS, COLLECTOR		
23525032	ADAPTOR, TURBO AIR INLET	1
23525115	HOSE, 7.00 ID X 2.12	2
23525182	HOSE, 6.00 ID X 2.25	1
23504233	CLAMP, 6 7/8"-7 3/4" CLAMP. RANGE (3.1230)	4
23509403	CLAMP, HOSE 6.12"-7.00"	2
5183229	STRAP, 3-53 (10" DIA. CLEANER) (3.2014)	1
11500775	BOLT, M8X1.5X40.0 MM	1
11503454	BOLT, M10 X 1.5 X 20.0	2
11503553	NUT, M8 X 1.25	1
11506101	NUT, M10 X 1.5	2
23517856	SPACER .36 X .54 X 1.44 LG IRON ZINC	1
4.8260 BRACKETS, COLLECTOR		
23525035	BRACKET	1
11504986	BOLT, M8 X 1.25 X 14 MM	4
4.8000A - VENTILATING SYSTEM		
4.8055 SHELL, BREATHER		
23525221	BREATHER, HSG ASSY.	1
23525225	STUD, M6	2

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PART #	NAME AND DESCRIPTION	QUANTITY
4.8000A - VENTILATING SYSTEM		
23520468	WASHER	2
11503749	NUT, M6 X 1.00	2
4.8059 SEAL, BREATHER SHELL		
23519119	SEAL RING .70X .208 I.D. VITON	2
23525226	SEAL, RING	1
4.8060 FILTER UNIT, BREATHER		
23504890	ELEMENT 4" RKR CVR BTHR STL WIRE	1
4.8065 RETAINER, BREATHER PAD		
8929257	RETAINER, ELEMENT	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.1000	- FRESH WATER PUMP	
5.1001	PUMP ASSY., FRESH WATER	
	A PUMP KIT INCLUDES PUMP ASSY. AND SEAL RING.	
23525171	PUMP ASSY., WATER REAR GEARCASE	1
23520377	SEAL O RING WATER PUMP SQ.CUT (VITON)	1
11501798	BOLT, M10 X 1.5 X 180 MM	2
23523608	BOLT, M10 X 1.5 X 135	1
8929169	WASHER (12.9190)	2
5.2000B	- THERMOSTAT	
5.2050	THERMOSTAT ASSY.	
23503827	THERMOSTAT ASSY. (160 DEG. OPENING TEMPERATURE)	2
5.2060	SEAL, THERMOSTAT	
5132155	SEAL	2
5.2090	HOUSING, THERMOSTAT	
23525181	SPACER & TUBE ASSY., THERMOSTAT HOUSING	1
5.2110	GASKET, THERMOSTAT HOUSING	
23525151	GASKET, THERMOSTAT HOUSING	2
5.2120	COVER, THERMOSTAT HOUSING	
8922327	PLUG, 1/4" NPTF (12.9550)	1
23525144	HOUSING, THERMO W/O COOLANT RETURN PORTS	1
23511572	PLUG, 1/2" NPTF SQ. SOC. (12.9550)	1
23511573	PLUG, 3/4" PIPE SQ. SOC. SCOTCHGRIP	1
23516684	BOLT, M10 X 1.5 X 140	4
5.2122	ELBOW, THERMOSTAT HOUSING COVER OUTLET	
8924148	ELBOW, 90 DEG. 1/4" FLARED TUBE, 1/4"NPTF	1
8924147	CONNECTOR	1
5.2124	HOSE, THERMOSTAT HOUSING COVER OUTLET ELBOW	
YHHH0185	HOSE ASSY., NO. 4 X 21.58"L.	1
2488022	CLIP, 3/8" BOLT (12.8554)	1
5.2000C	- WATER BYPASS TUBE	
5.2160	TUBE, WATER BYPASS	
23525051	TUBE, WATER BYPASS 2.00" DIA	1
5.2165	HOSE, WATER BYPASS TUBE	
23514665	HOSE 2.00 X 3.00 SAE 20R1 SLCN BLUE	2
5.2190	CLIP, WATER BYPASS TUBE	
23503066	CLAMP, 1.75"-2.62" DIA. HOSE	4
5.3000B	- WATER CONNECTIONS	
5.3269	TUBE, TURBOCHARGER WATER RETURN	
23525204	TUBE ASSY., TURBO WATER OUTLET	1
23525212	HOSE, 90 DEG 1.00ID X 2.38"	1
23511439	CLAMP, 1.0"-1.75"	6
5.3273	HOSE, TURBOCHARGER WATER INLET	
23525126	TUBE, Y WATER SUPPLY	1
23525235	HOSE, WATER SUPPLY (TURBO)	1
23525326	HOSE 1.50 X 3.50 LG SILICONE	1
5104958	CLAMP, 1 1/2"-2" CLAMPING RANGE (12.9660)	2
2492119	ELBOW, 90 DEG. 1' FLD TUBE 3/4" NPTF	2
5.3275	CONNECTION, THERMOSTAT HOUSING WATER RETURN	
23502122	HOSE, 1.50"X2.26" L. SILICONE	1
23502533	HOSE, 1 1/2" I.D.X3.25" L.	2
23525155	TUBE (WATER RETURN TEE TO THERMOSTAT SPACER)	1
5.3400	TUBE, WATER PUMP TO OIL COOLER	

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PART #	NAME AND DESCRIPTION	QUANTITY
5.3000B - WATER CONNECTIONS		
23525050	TUBE, WATER PUMP TO OIL COOLER	1
23524615	SENSOR ASSY., OIL/FUEL W/DIN CONNECTOR	1
23525150	ELBOW, 90 DEG 37 DEG 1 1/4" FLD TUBE	1
5.3401 HOSE, WATER PUMP TO OIL COOLER		
23506325	HOSE, 2.75"X3.0" L (BLUE)	2
23506962	CLAMP, HOSE 1 1/4"-2 1/8"	2
5.3405 CLIP, WATER PUMP TO OIL COOLER TUBE		
23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE	4
5.3433 TUBE, EXHAUST MANIFOLD WATER INLET		
23525124	HOSE, WATER SUPPLY (EXH MANIFOLD)	1
23520632	ELBOW	1
5.3442 HOSE, EXHAUST MANIFOLD WATER RETURN		
23525154	HOSE (EXH MANIF WAT OUTLET)	1
5.4000A - FAN		
5.4025 SUPPORT, FAN MOUNTING		
8929007	COVER, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
8929130	GASKET, UPPER RIGHT REAR & FRONT CAM ACCESS.	1
11504822	BOLT, M8 X 1.25 X 30	5
11509530	BOLT, M14 X 2.0 X 40 MM	1
11509799	BOLT, M10 X 1.5 X 70 MM	2
8929357	BOLT, M10 X 1.5 X 120 (12.9001)	1
23511257	BOLT, M14 X 2.0 X 80.0 (12.9001)	1
11506101	NUT, M10 X 1.5	1
5.5000A - HEAT EXCHANGER OR KEEL COOLING		
5.5001 TANK, EXPANSION		
23507178	SIGHT, GLASS	2
23519175	SENSOR ASSY., 1/4" OPTICAL CLS	1
5.5003 CORE, HEAT EXCHANGER		
23525399	PLATE, HEAT EXCHANGER COOLANT (LOW THETA TRANTER)	17
23525400	PLATE, HEAT EXCHANGER SEPARATION (TRANTER)	1
23525401	PLATE, HEAT EXCHANGER FUEL (HIGH THETRA TRANTER)	4
23525402	PLATE, HEAT EXCHANGER FUEL END (TRANTER)	1
23525404	GASKET, HEAT EXCHANGER PLATE	26
23525450	GASKET, HEAT EXCHANGER PLATE 4 CORNER	1
5.5010 ELECTRODE, HEAT EXCHANGER		
8517479	ELECTRODE ASSY. (2 1/8" L. ELECT.) (5.5010)	1
5.5030 COVER, HEAT EXCHANGER		
23525398	COVER, HEAT EXCHANGER FRONT	1
23525417	SPACER, HEAT EXCHANGER COVER	2
23525482	SPACER, HT EXCH PLATE PACK 3.53IN	10
23525089	WASHER, 12MM	8
23525481	BOLT, M12 1.75 X 140 HEX HD	10
23525405	SEAL RING HEAT EXCHANGER CORNER	4
5.5070 BRACKET, HEAT EXCHANGER MOUNTING		
23525045	BRACKET, ISOLATOR MOUNT ALUM	2
23525064	BRACKET, SUPPORT ENGINE FRONT HEAT EXHANGER	1
23525065	ISOLATOR, VIBRATION	6
11509513	BOLT, M8 X 1.25 X 40 MM	10
120687	BOLT, #10-24X1/2"	24
8929068	BOLT, M14 X 2.0 X 140 (12.9001)	4
5.5120 NECK, EXPANSION TANK FILLER		
5118060	NECK (1.69" DIA.) (WITH 2 1/16" I.D. CAP)	1
5.5140 CAP, EXPANSION TANK		
6410879	CAP,(7# PRESSURE)	1

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PART #	NAME AND DESCRIPTION	QUANTITY
5.5000A - HEAT EXCHANGER OR KEEL COOLING		
5.5190	TUBE, EXPANSION TANK OVERFLOW	
5158825	TUBE (DEV. L. 4 1/4") (2.2300)	1
8924153	ELBOW, 5/16"-90 DEG. INV. FL. TUBE (12.9480)	1
5.5193	BOTTLE, COOLANT RECOVERY	
23508730	RECOVERY ASSY., COOLANT	1
5.5220	TUBE, HEAT EXCHANGER FRESH WATER INLET CONNECTION	
23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)	4
23511711	HOSE, 2.50"X3.25" L.	2
23514665	HOSE 2.00 X 3.00 SAE 20R1 SLCN BLUE	1
23525411	TUBE, CAC TO HEAT EXCHANGER	1
23525048	TUBE, THERMOSTAT TO HEAT EXCHANGER	1
5.5240	HOSE, HEAT EXCHANGER FRESH WATER INLET CONNECTION	
23514667	HOSE 2.50 X 3.75	2
5.5250	CLAMP, HEAT EXCHANGER FRESH WATER INLET CONNECTION HOSE	
23501941	CLAMP, 2 3/4"-3 5/8" ID HOSE	4
23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)	6
5.5260	TUBE, HEAT EXCHANGER FRESH WATER INLET INTERMEDIATE	
23525062	TUBE ASSY., HEAT EXCHANGER INLET	1
23525059	GASKET, HEAT EXCHANGER WATER INLET	1
11509512	BOLT, M8 X 1.25 X 25 MM	4
5.5300	GASKET, HEAT EXCHANGER FRESH WATER OUTLET CONNECTION	
23525061	GASKET, HEAT EXCHANGER WATER OUTLET	1
5.5325	HOUSING, HEAT EXCHANGER FRESH WATER OUTLET	
23525397	HOUSING, HEAT EXCHANGER (REAR) MARINE	1
23525413	ADAPTOR, HEAT EXCHANGER RAW WATER OUTLET	1
23525414	ADAPTOR, HEAT EXCHANGER RAW WATER INLET	1
23511226	PLUG, PIPE	2
5103186	PLUG, 1/2"-14 PIPE (12.9550)	2
8924380	PLUG, 1/8"-27 PIPE W/SEAL (12.9550)	4
9427118	PLUG, 1 3/4" CUP (12.9320)	5
5.5330	TUBE ASSY., HEAT EXCHANGER FRESH WATER OUTLET	
23525063	TUBE ASSY., HEAT EXCHANGER COOLER OUTLET	1
11509512	BOLT, M8 X 1.25 X 25 MM	4
5.5363	BRACKET, RAW WATER INLET MANIFOLD CLIP	
23525267	BRACKET, RAW WATER TUBE FRONT SUPPORT	1
23525277	BRACKET, R/W TO GR COOLER TUBE SUPPORT RR	1
11509511	BOLT, M8 X 1.25 X 20 MM	3
11507036	NUT, M8 X 1.25	2
5.5440	TUBE, HEAT EXCHANGER WATER INLET	
23525492	TUBE, HEAT EXCHANGER WATER PUMP INLET W/BOSS	1
5.5470	HOSE, HEAT EXCHANGER RAW WATER INLET TUBE	
23525255	HOSE, 3.0 ID X 3.5 L.	2
5.5550	TUBE, HEAT EXCHANGER RAW WATER OUTLET	
8923918	PLUG, 1/2" PIPE (12.9550)	1
23525275	TUBE, HEAT EXCHANGER TO GR COOLER	1
5.5580	HOSE, HEAT EXCHANGER RAW WATER OUTLET TUBE	
23525211	HOSE, 2.50 ID RAW WATER PUMP OIL TO BOSCLR	1
23516589	CLIP, 2.5 ID SPECIAL	2
11504822	BOLT, M8 X 1.25 X 30	2
5.5590	CLAMP, HEAT EXCHANGER RAW WATER OUTLET TUBE HOSE	
23501600	CLAMP, 2 1/4"-3 1/8" CLAMPING RANGE (12.9660)	2
5.6000A - RAW WATER PUMP		

DETROIT DIESEL
CUSTOM PARTS CATALOG 02/25/02
06R0673631

PART #	NAME AND DESCRIPTION	QUANTITY
5.6000A	- RAW WATER PUMP	
5.6001	PUMP ASSY., RAW PUMP	
23525353	PUMP ASSY., RAW WATER	1
5.6001	PUMP ASSY., RAW WATER	
141197	PIN, 1/4"X3/4" DOWEL (12.9290)	1
186678	BOLT, 3/8"-16X1"	6
23525200	PUMP ASSY., RAW WATER PUMP	1
5.6330	GEAR, RAW WATER PUMP DRIVEN	
8929311	GEAR, RIGHT HAND 69T	1
5.6405	FLANGE, RAW WATER PUMP COUPLING DRIVEN SHAFT END	
11505299	BOLT, M10 X 1.5 X 30.0 MM	4
23525219	FLANGE, GEAR RAW WATER PUMP	1
5.6410	PLATE, RAW WATER PUMP DRIVE	
23525375	ADAPTOR, PLATE RAW WATER PUMP	1
5.6010	HOUSING, RAW WATER PUMP DRIVE	
11505299	BOLT, M10 X 1.5 X 30.0 MM	1
23505050	BOLT, M10 X 1.5 X 85	5
5.6572	ELBOW, RAW WATER PUMP OUTLET	
23525270	ELBOW, RAW WATER PUMP OUTLET	1
5137620	CLAMP, 3.82" DIA. (6.2085)	1
5126635	SEAL RING	1
5.6573	ELBOW, RAW WATER PUMP INLET	
23525197	ELBOW, RAW WATER PUMP INLET	1
5137620	CLAMP, 3.82" DIA. (6.2085)	1
5126635	SEAL RING	1
5.6575	ELECTRODE, RAW WATER PUMP	
8517479	ELECTRODE ASSY. (2 1/8" L. ELECT.) (5.5010)	1

**DETROIT DIESEL
CUSTOM PARTS CATALOG 02/25/02
06R0673631**

PART #	NAME AND DESCRIPTION	QUANTITY
6.1000A - EXHAUST MANIFOLD AND/OR CONNECTIONS		
6.1001 MANIFOLD, EXHAUST		
23525494	MANIFOLD, EXHAUST 1 PC SST WAT CLD	1
8924159	BUSHING, 3/4"X3/8" RED. (12.9570)	1
8925710	DRAINCOCK, 3/8" (12.9510)	1
6.1002 BRACKET, EXHAUST MANIFOLD SUPPORT		
23525252	BRACKET, REAR UTILITY	1
23525355	BRACKET, TURBO/EXHAUST MANIFOLD SUPPORT	1
23525114	SPACER, EXHAUST MANIFOLD SUPPORT BRACKET	1
11505299	BOLT, M10 X 1.5 X 30.0 MM	12
8922143	BOLT, 5/8"-11X2.25" (12.9001)	6
11506101	NUT, M10 X 1.5	2
6.1010 GASKET, EXHAUST MANIFOLD		
23525090	GASKET, EXHAUST MANIFOLD	3
6.1022 STUD, EXHAUST MANIFOLD TO TURBOCHARGER		
23507438	STUD, M10 X 1.5 X 44.0	4
6.1025 BOLT, EXHAUST MANIFOLD TO HEAD		
11509526	BOLT, M10 X 1.5 X 130 MM	18
23525495	SPACER, EXHAUST MFD BOLT	18

DETROIT DIESEL
CUSTOM PARTS CATALOG 02/25/02
06R0673631

PART #	NAME AND DESCRIPTION	QUANTITY
7.1000A - BATTERY CHARGING GENERATOR		
7.1575	BELT, GENERATOR DRIVE	
23525184	BELT, POLYVEE 6 RIB	1
7.1580	STRAP, GENERATOR ADJUSTING	
23525426	ROD ALTNR ADJ S60 MARINE	1
23511669	LINK, ADJUSTING ROD	1
103323	LOCKWASHER, 1/2"	1
5132715	WASHER, .53"X.94"X.12" (1.3140)	1
7.1585	GUARD, GENERATOR DRIVE BELT AND PULLEY	
23521979	BOLT, M8 X 1.25 X 16	2
23525127	SHIELD, GENERATOR BELT	1
7.1595	BRACKET, GENERATOR MOUNTING	
103345	WASHER, 5/8"	2
11501055	NUT, M16X2.0	2
11509512	BOLT, M8 X 1.25 X 25 MM	2
11509526	BOLT, M10 X 1.5 X 130 MM	1
23525453	BRACKET ALT ADJ ROD S60 MAR	1
5132715	WASHER, .53"X.94"X.12" (1.3140)	1
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	1
11506101	NUT, M10 X 1.5	1
7.3000A - STARTING MOTOR		
7.3001	MOTOR ASSY., STARTING	
10478911	MOTOR ASSY., START 24V CW INSU ROLLCLU 50MT	1
8922933	BOLT, 5/8"-11X2 1/4" 12 POINT	3
103325	LOCKWASHER, 5/8"	3
7.3004	GASKET, STARTING MOTOR	
5130995	GASKET, STARTER MOTOR	1
7.4000C - SHUT-OFF OR ALARM SYSTEM		
7.4519	SOLENOID, AIR SHUTOFF OR GOVERNOR	
23525117	VALVE & SOLENOID ASSY. AIR SHUTDOWN	1
7.4545	HARNESS, AIR SHUTOFF WIRING	
23518632	HARNESS ASSY., AIR SHUTDOWN PIG TAIL	1

D E T R O I T D I E S E L
CUSTOM PARTS CATALOG 02/25/02
06R0673631

PART #	NAME AND DESCRIPTION	QUANTITY
9.1000A - MARINE GEAR		
9.1001	GEAR ASSY., HYDRAULIC MARINE	
23525286	GEAR ASSY., REV&RED 1.74 TD MG5114SC W/O CLR	1
442733	BOLT, 1/2"-13 X 1.25" (12.9001)	8
23520795	PRESSURE TRANSDUCER	1
23523552	SWITCH, NEUTRAL PRESSURE (9.1159)	1
23512192	HARNESS ASSY.PIGTAIL EMIM TO MAR GEAR	1
23518092	SENSOR ASSY., OIL WATER FUEL & AIR TEMPERATURE	1
106337	BOLT, 7/16"-14X1 3/8"	12
23525278	CLIP, .375ID .68 OFFSET .53 BOLT HOLE	1
5101020	STRAP, NYLON (2.5255)	4
5125108	WASHER, 7/16"X3/4" (2.4030)	1
103323	LOCKWASHER, 1/2"	8
9.2000A - REVERSE & RED GEAR		
9.2036	GEAR ASSY., DRIVE PUMP (TWIN DISC)	
23525382	GEAR ASSY., PTO LIVE	1

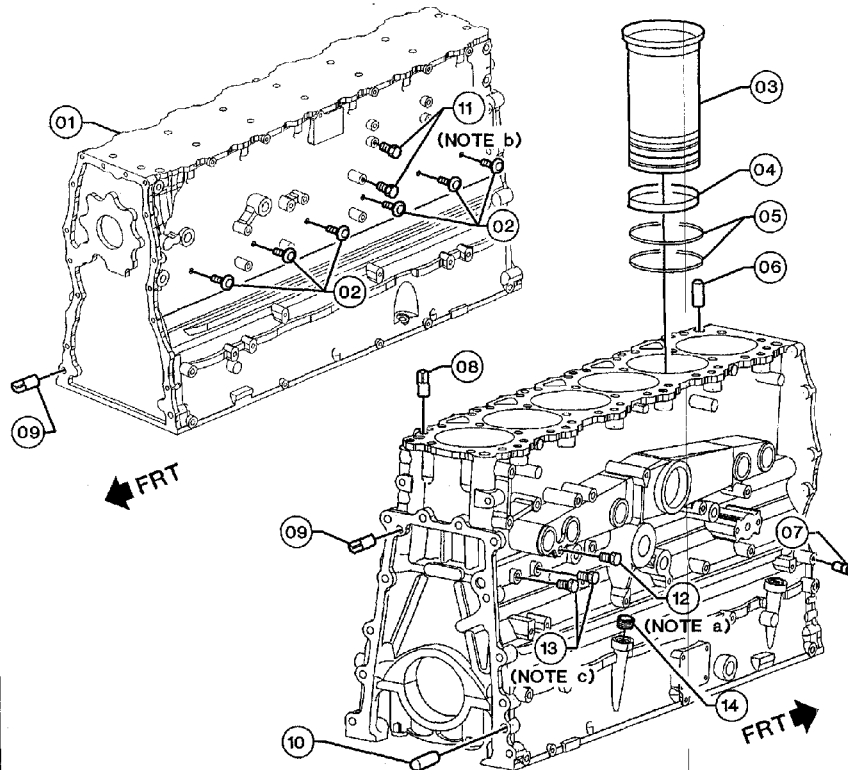
DETROIT DIESEL
CUSTOM PARTS CATALOG 02/25/02
06R0673831

PART #	NAME AND DESCRIPTION	QUANTITY
11.1000A - ENGINE MOUNTING BASE		
11.1010	CUSHION, ENGINE MOUNTING BASE ISOLATION PAD	
23525490	ISOLATOR, ENGINE MOUNT LORD	4
23526404	BOLT, MM16 2.00 X 40.0 10.9	12
11.1070	SUPPORT, ENGINE FRONT	
23522327	BOLT M14 2.00 X 50.0 LG HEX HD	8
23523442	WASHER, M14	8
23525159	BRACKET, LH FRONT ENGINE MOUNT	1
23525160	BRACKET, RH FRONT ENGINE MOUNT	1
8929008	STAND ENG SUPT SHIP (PA) BLACK S60	2
8929068	BOLT, M14 X 2.0 X 140 (12.9001)	4
11.1100	SUPPORT, ENGINE REAR	
23525313	BRACKET LR ENGINE MOUNT 24 HOLES	1
23525314	BRACKET RR ENGINE MOUNT 24 HOLES	1

SECTION 3

ENGINEERING DRAWINGS
FOR
DIESEL ENGINE (DETROIT DIESEL)

BLK CYL WIDE TLC 14MM F/W HOLES
PSTN CLG NOZ 12L S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23528956 BLOCK ASM	01
02	08929432 WEEP PLUG	06
03	23523392 LINER	06
04	08929013 SEAL	06
05	08929176 SEAL	12
06	08929152 PIN	01
07	23509239 STUD	01
08	08929153 PIN	01
09	08929022 PIN	02
10	08929015 PIN	01
11	23515479 PLUG	02
12	23516104 PLUG	01
13	08922327 PLUG	02
14	08923847 PLUG	01

NOTE

(a) REMOVE 08922327 PLUG FROM CYL BLK WAT JKET AFTER TEST TO DRAIN. AFTER COMPLETELY DRAINED INSTALL 23516104.

(b) FOR FINAL SHIPPING ONLY.

(c) INSTALL AFTER TESTING.

GROUP:

06A01

NUMBER:

6031

SHEET:

1 OF 2

PARTS LIST DATE:

02/21/01

REV. DATE:

06/20/01 AV

DRAWN DATE:

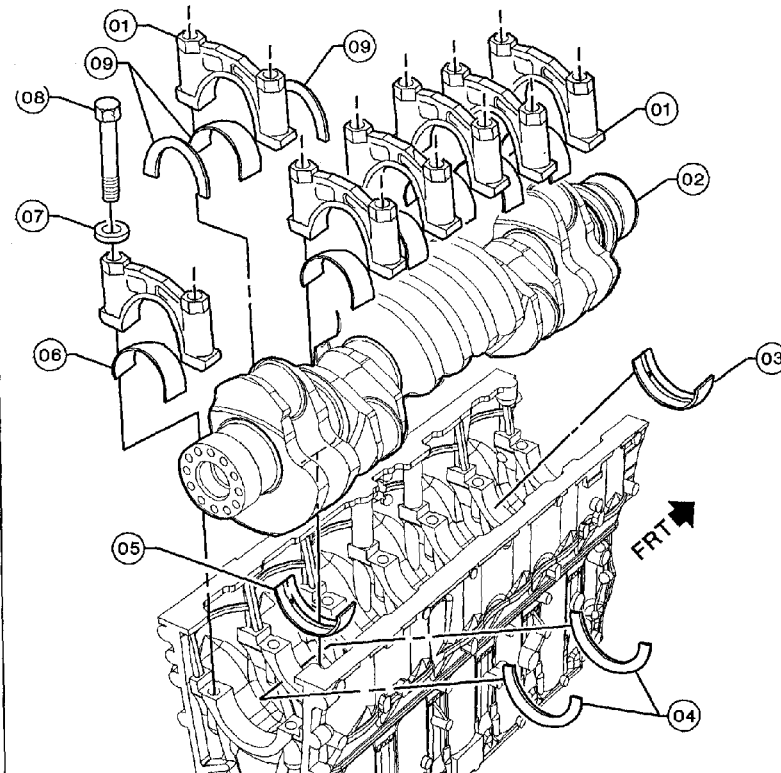
01/05/01

DRAWN BY:

A.VOGWILL



BLK CYL WIDE TLC 14MM F/W HOLES
PSTN CLG NOZ 12L S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	08929276 CAP BRG	07
02	23527965 (REF FROM 06C01)	
03	23515663 MAIN SHELL	06
04	08929085 THR WASHER	02
05	23515665 SHELL THR	01
06	23515737 LWR SHELL	06
07	05151272 WASHER	14
08	08929124 BOLT	14
09	23524154 KIT	01

GROUP:

06A01

NUMBER:

6031

SHEET:

2 OF 2

PARTS LIST DATE:

02/21/01

REV. DATE:

06/20/01 AV

DRAWN DATE:

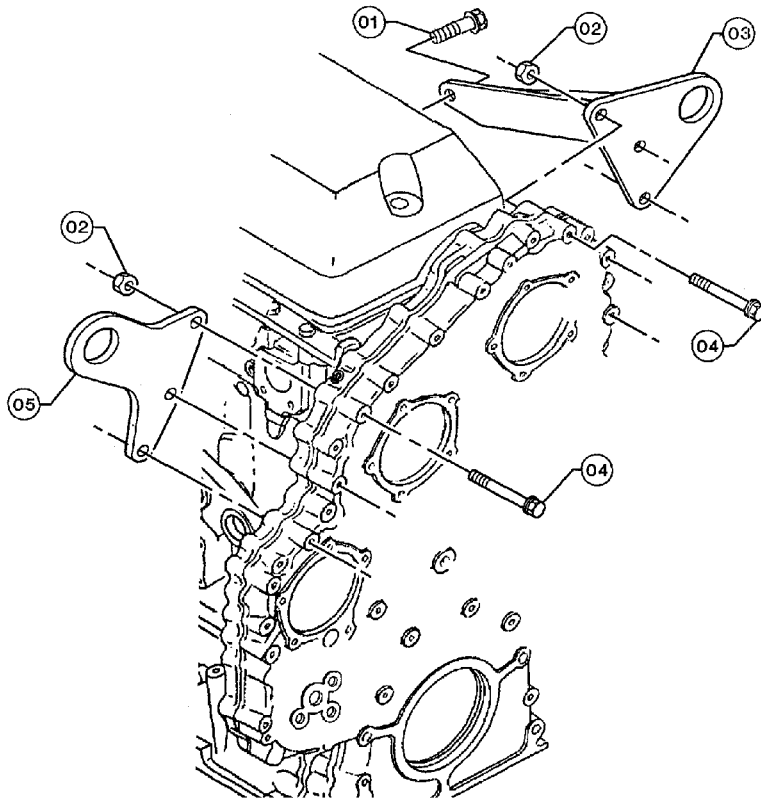
01/05/01

DRAWN BY:

A.VOGWILL



ENGINE LIFTER BRACKET MARINE S60



PART NUMBER	DESCRIPTION	QTY.
01	11505299 BOLT	01
02	11506101 NUT	06
03	23525066 BRACKET	01
04	08929357 BOLT	06
05	23525023 BRACKET	01

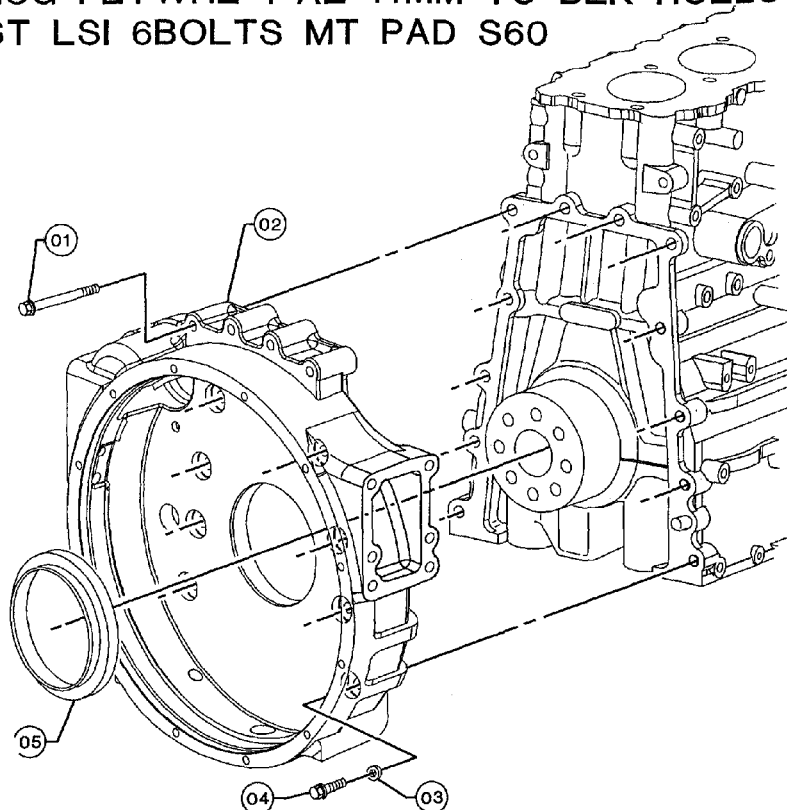
GROUP: 06A05
NUMBER: 6010

SHEET: 1 OF 1

PARTS LIST DATE: 04/17/99
REV. DATE: 07/12/99 DG
DRAWN DATE: 03/01/99
DRAWN BY: R.PAQUETTE



HSG FLYWHL 1 AL 14MM TO BLK HOLES ST LSI 6BOLTS MT PAD S60



PART NUMBER	DESCRIPTION	QTY.
01	11509533 BOLT	04
02	23528371 FLYWHL HSG	01
03	23522326 WASHER	08
04	23522327 BOLT	08
05	23519651 SEAL	01

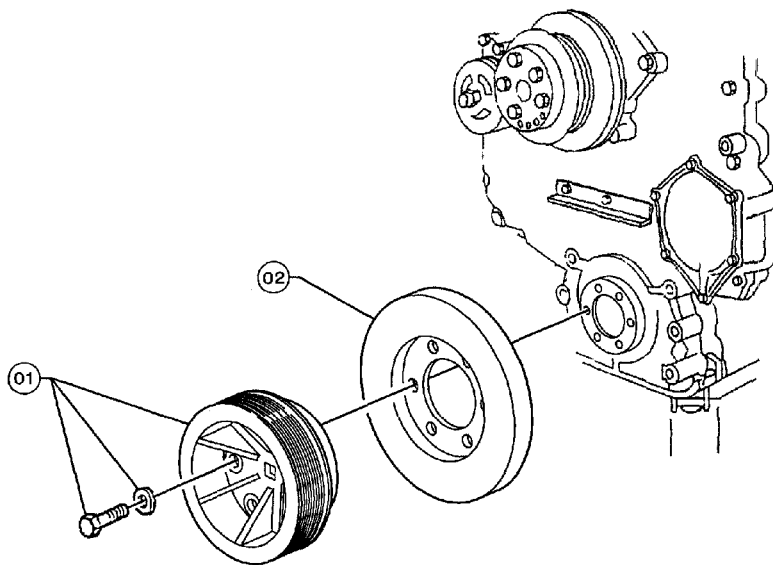
GROUP: 06B00
NUMBER: 6042

SHEET: 1 OF 1

PARTS LIST DATE: 08/10/00
REV. DATE: 08/23/00 JJ
DRAWN DATE: 11/01/99
DRAWN BY: R.PAQUETTE



DMP VIB CR/SHF TUNED 11L & 12L S60



PART NUMBER	DESCRIPTION	QTY.
01	(REF FROM 06K01A)	
02	08929502 DAMPER	01

GROUP:

06C02

NUMBER:

6002

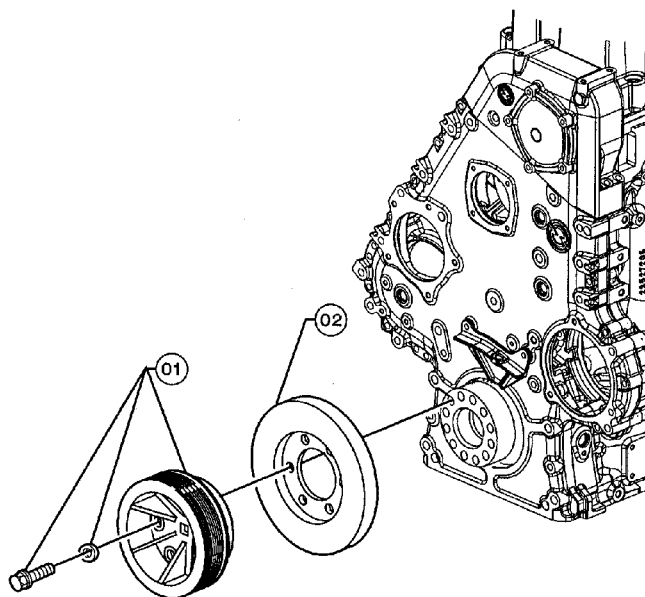
SHEET:

1 OF 2

PARTS LIST DATE: 11/20/97
REV. DATE: 11/13/01 AV
DRAWN DATE: 07/18/92
DRAWN BY: M.MCCABE



DAMPER VIB CR/SHF TUNED 11L & 12L S60



PART NUMBER	DESCRIPTION	QTY.
01	(REF FROM 06K01A)	
02	08929502 DAMPER	01

GROUP:

06C02

NUMBER:

6002

EQUINOX

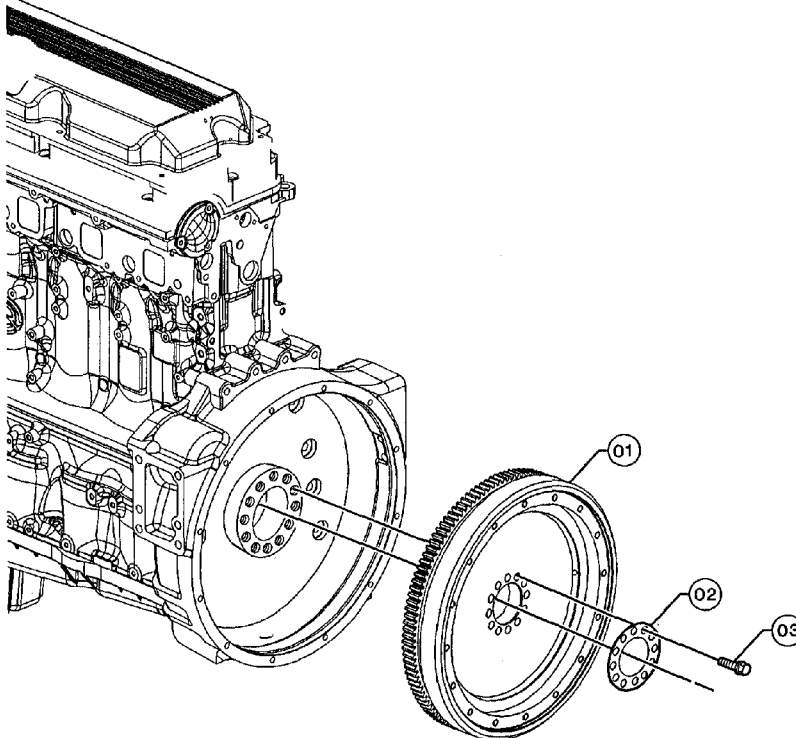
SHEET:

2 OF 2

PARTS LIST DATE: 11/20/97
REV. DATE: X
DRAWN DATE: 11/13/01
DRAWN BY: A.VOGWILL



FLYWHL NO 1 23516162 TDISC SP214
IBF214 IBF314 PTO S60



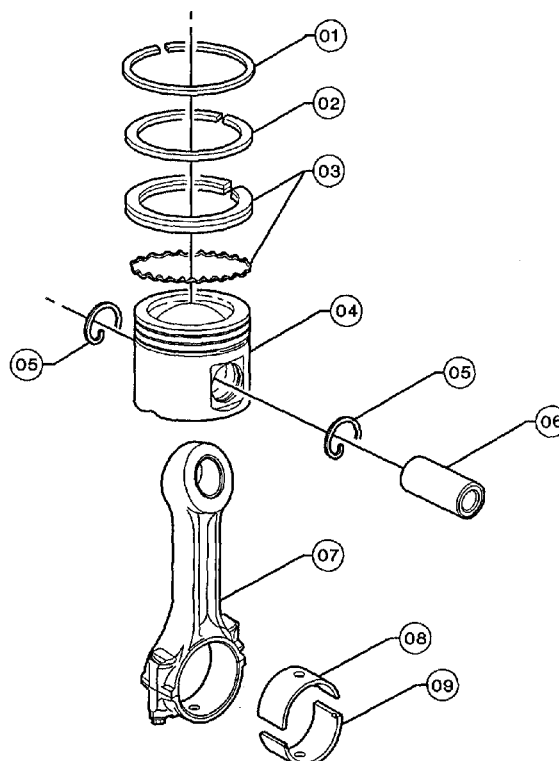
PART NUMBER	DESCRIPTION	QTY.
(01) 23516162	FLYWHEEL	01
(02) 05107251	PLATE	01
(03) 08929795	BOLT	12

PARTS LIST DATE:
10/19/00
REV. DATE:
X
DRAWN DATE:
09/13/01
DRAWN BY:
A.VOGWILL



GROUP: 06C03 6022 EQUINOX 1 OF 1

PSTN & CONN ROD STL PSTN 15:1
TRI-METAL UPR BRG 12L S60M



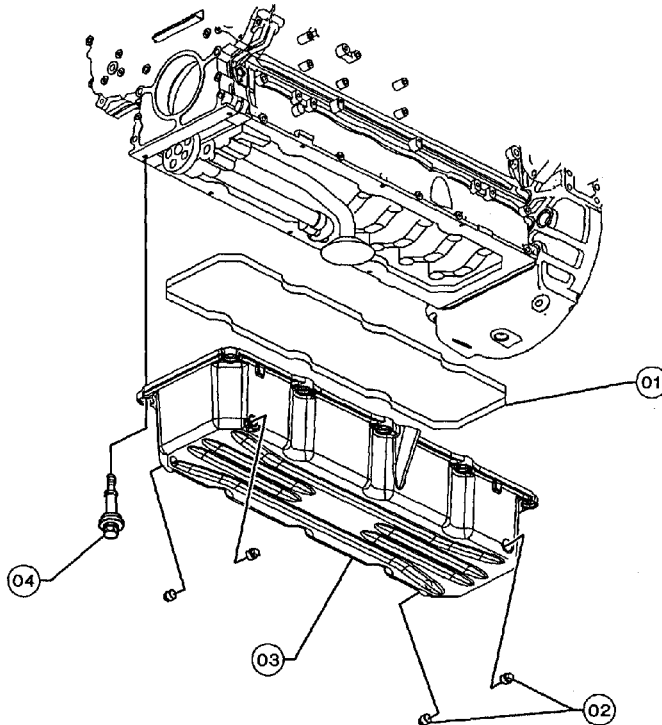
PART NUMBER	DESCRIPTION	QTY.
(01) 23525418	RING	06
(02) 08929845	RING	06
(03) 23525419	RING & EXPND	06
(04) 23525416	DOMES & SKRT	06
(05) 23521781	RETAINER	12
(06) 23525168	PIN	06
(07) 23526078	ROD ASM	06
(08) 23526079	SHELL	06
(09) 23525169	SHELL LWR	06

PARTS LIST DATE:
01/31/00
REV. DATE:
X
DRAWN DATE:
02/03/00
DRAWN BY:
R.PAQUETTE



GROUP: 06D00 6059 SHEET: 1 OF 1

OIL PAN S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
(01) 23522279	GASKET	01
(02) 05178994	PLUG	04
(03) 23525011	OIL PAN	01
(04) 23522281	SLEEVE ASM	10

GROUP:

06E00

NUMBER:

6051

SHEET:

1 OF 1

PARTS LIST DATE:

04/17/99

REV. DATE:

07/12/99 DG

DRAWN DATE:

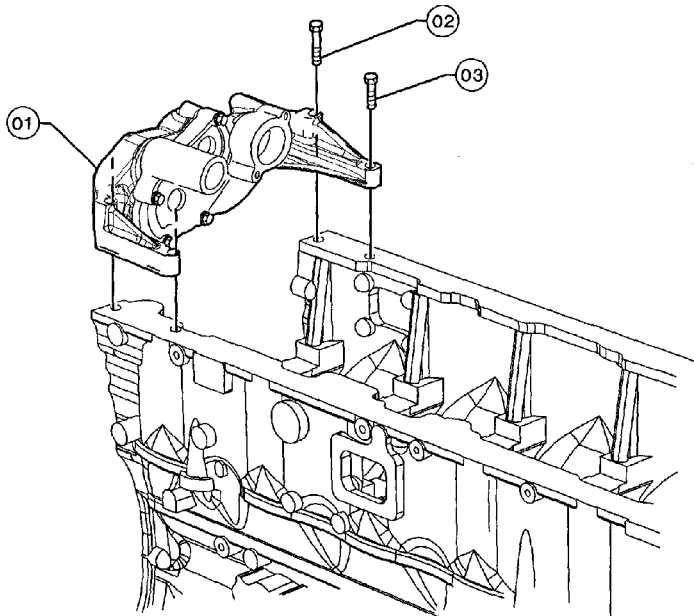
03/12/99

DRAWN BY:

T. CIESLA



PUMP OIL GR DRVN MOD RT SI ENG CHGS S60



PART NUMBER	DESCRIPTION	QTY.
(01) 23505886	PUMP	01
(02) 08929393	BOLT	02
(03) 23505062	BOLT	02

GROUP:

06F01

NUMBER:

6001

EQUINOX

SHEET:

1 OF 1

PARTS LIST DATE:

04/06/99

REV. DATE:

X

DRAWN DATE:

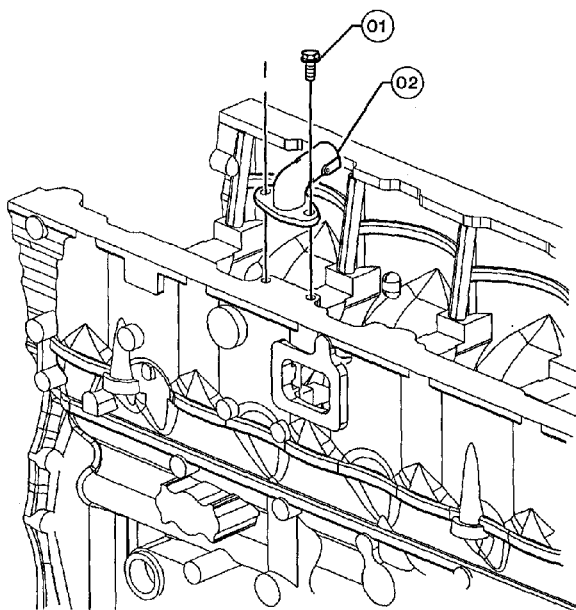
08/23/01

DRAWN BY:

K. PAGELS



REG OIL PRESS & RELIEF VLV S60



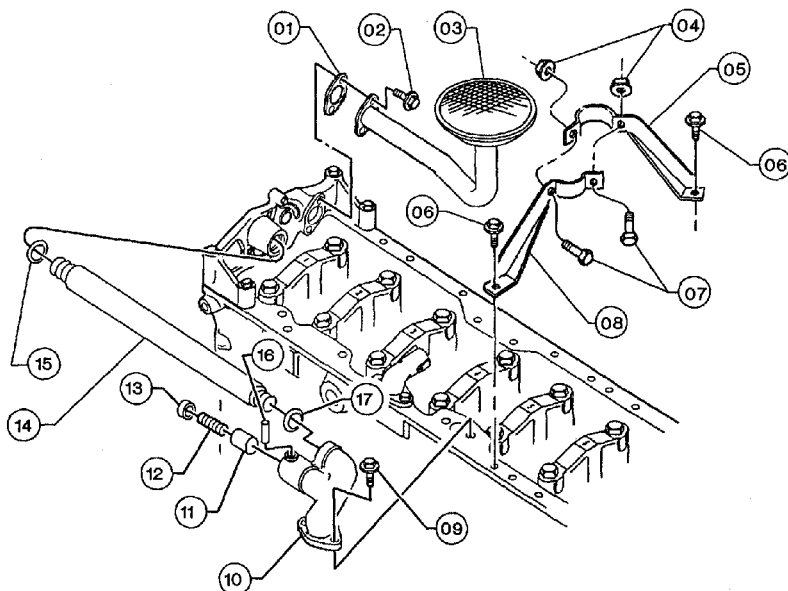
PART NUMBER	DESCRIPTION	QTY.
01	11504822 BOLT	02
02	23512901 VALVE	01

PARTS LIST DATE: 11/12/97
 REV. DATE: X
 DRAWN DATE: 12/13/01
 DRAWN BY: K. PAGELS



GROUP: 06F02	NUMBER: 6001	EQUINOX	SHEET: 1 OF 1
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OIL DISTRIBUTION SYSTEM



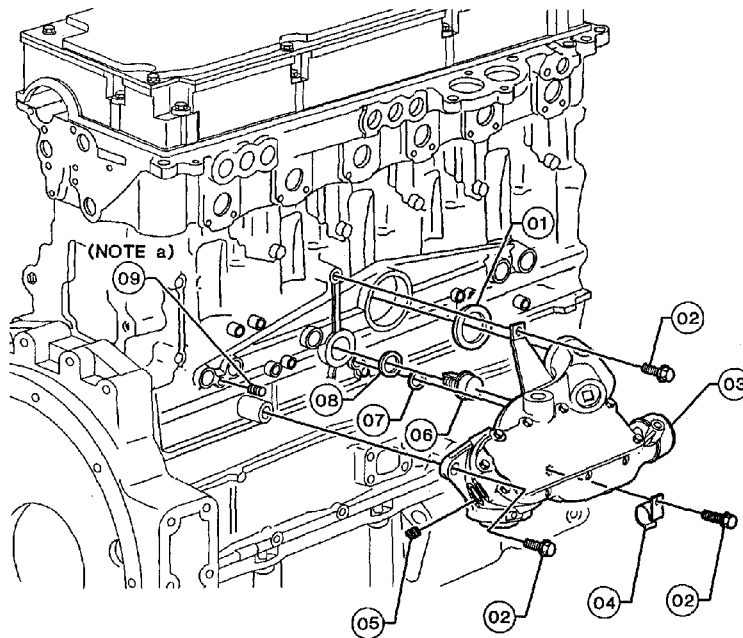
PART NUMBER	DESCRIPTION	QTY.
01	23505992 GASKET	01
02	11509514 BOLT	02
03	23525020 TUBE ASSY	01
04	11502812 NUT	02
05	23512921 BRACKET	01
06	11503454 BOLT	02
07	11505299 BOLT	02
08	23512920 BRACKET	01
09	11504822 BOLT	02
10	23526050 ELBOW	01
11	08922740 VALVE	01
12	05126327 SPRING	01
13	05117957 SEAT	01
14	23505890 TUBE	01
15	23505891 SEAL	01
16	00457008 PIN	01
17	23505892 SEAL	01

PARTS LIST DATE: 06/24/99
 REV. DATE: 07/13/99 DG
 DRAWN DATE: 03/05/99
 DRAWN BY: G.BUSH



GROUP: 06G01	NUMBER: 6019	SHEET: 1 OF 1
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CLR OIL & HSG 11PLT THERM MTD FLTRS IMPROVED COOL FLOW 11L S60 MAR



PART NUMBER	DESCRIPTION	QTY.
(01)	08929289 SEAL RING	01
(02)	23505062 BOLT	04
(03)	(REF SHEET 2)	
(04)	(REF FROM 06M07C)	
(05)	23511573 PLUG	01
(06)	23524520 THERMOSTAT	01
(07)	23508392 SEAL RING	01
(08)	23505902 SEAL RING	01
(09)	23516104 PLUG	01

NOTE

(a) REMOVE 8922327 PLUG FROM CYL BLOCK WATER HOLE AFTER TEST. DRAIN COMPLETELY AND INSTALL 23516104 PLUG.

PARTS LIST DATE:
08/24/99
REV. DATE:
X
DRAWN DATE:
11/15/99
DRAWN BY:
T. CIESLA



GROUP:

06G03

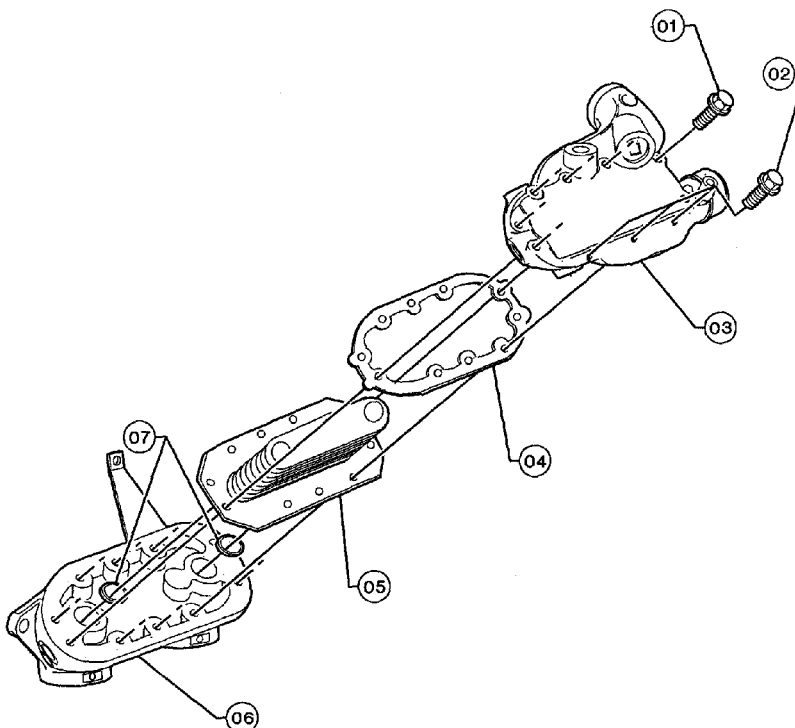
NUMBER:

6041

SHEET:

1 OF 2

CLR OIL & HSG 11PLT RR & REM MTD FLTRS IMP COOL FLOW S60 MAR



PART NUMBER	DESCRIPTION	QTY.
(01)	23507183 BOLT	07
(02)	23507182 BOLT	03
(03)	23526054 HOUSING	01
(04)	23506247 GASKET	01
(05)	23522415 CORE	01
(06)	23521365 ADAPTER	01
(07)	23508392 SEAL RING	02

PARTS LIST DATE:
08/24/99
REV. DATE:
X
DRAWN DATE:
11/15/99
DRAWN BY:
T. CIESLA



GROUP:

06G03

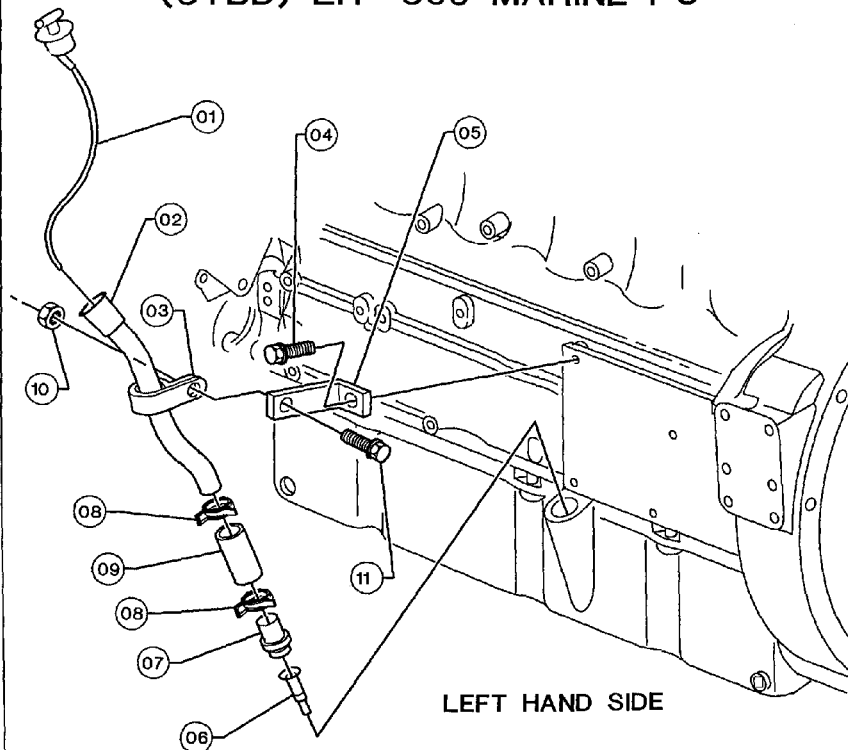
NUMBER:

6041

SHEET:

2 OF 2

ROD LPAN OIL FILL/GAGE (STBD) LH -S60 MARINE PC



PART NUMBER	DESCRIPTION	QTY.
01	23525017 OIL GAUGE	01
02	23525018 TUBE	01
03	05147753 CLIP	01
04	(REF FROM 06N04)	
05	23515353 BRACKET	01
06	23525019 GUIDE	01
07	23522976 ADAPTOR	01
08	23516779 CLAMP	02
09	03290750 HOSE	01
10	11506101 NUT	01
11	11503454 BOLT	01

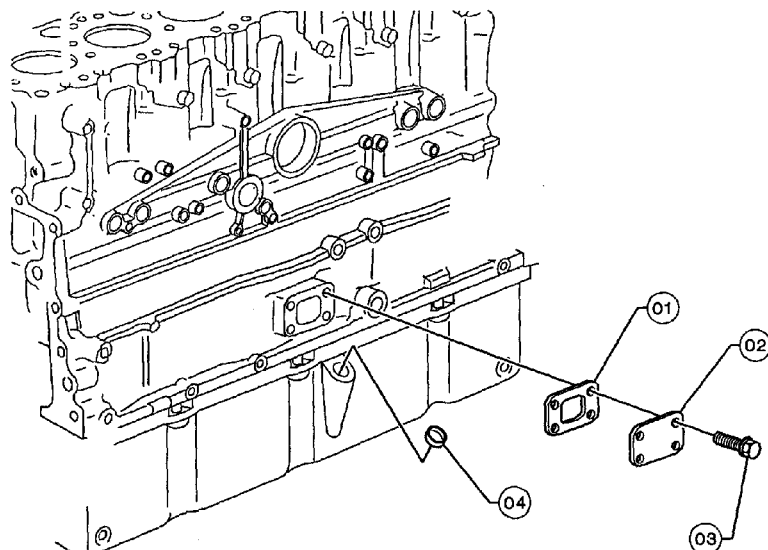
GROUP: 06G04 NUMBER: 6067

SHEET: 1 OF 2

PARTS LIST DATE: 07/12/99
REV. DATE: 04/05/00 JJ
DRAWN DATE: 04/09/99
DRAWN BY: GBUSH



ROD LPAN OIL FILL/GAGE (STBD) LH -S60 MARINE PC



PART NUMBER	DESCRIPTION	QTY.
01	08929302 GASKET	01
02	23516970 PLATE	01
03	11509511 BOLT	04
04	05109157 PLUG	01

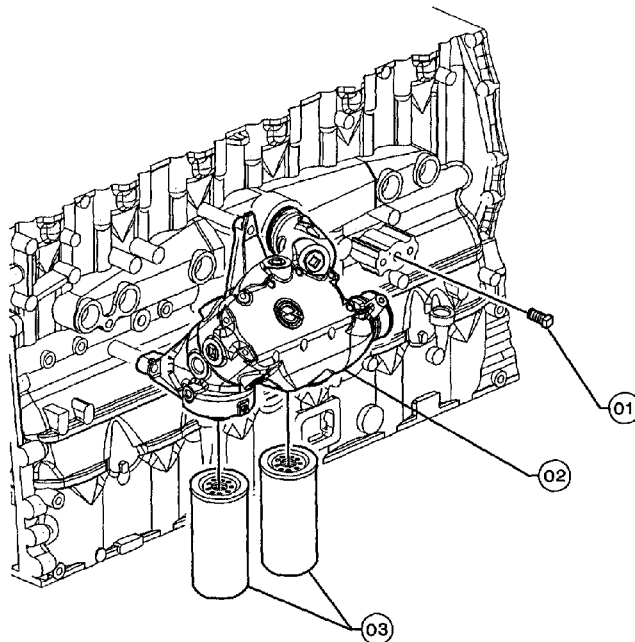
GROUP: 06G04 NUMBER: 6067

SHEET: 2 OF 2

PARTS LIST DATE: 07/12/99
REV. DATE: 04/05/00 JJ
DRAWN DATE: 04/09/99
DRAWN BY: GBUSH



PAN OIL RR SUMP AL SHALLOW MOD SEAL SYS S60



PART NUMBER	DESCRIPTION	QTY.
01	08923847 PLUG	01
02	(REF FROM 06G03)	
03	23527033 FILTER	02

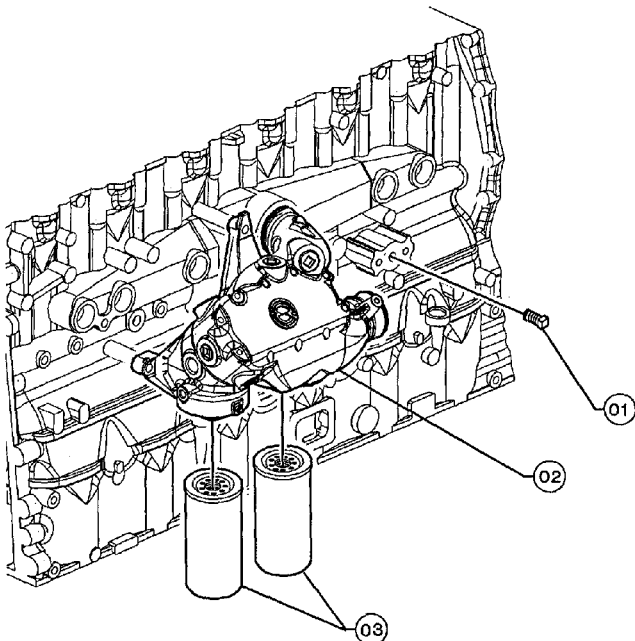
GROUP: 06G05 NUMBER: 6011

SHEET: 1 OF 2

PARTS LIST DATE: 03/15/01
REV. DATE: 11/26/01 KRP
DRAWN DATE: 11/19/01
DRAWN BY: K. PAGELS



PAN OIL RR SUMP AL SHALLOW MOD SEAL SYS S60



PART NUMBER	DESCRIPTION	QTY.
01	08923847 PLUG	01
02	(REF FROM 06G03)	
03	23527033 FILTER	02

GROUP: 06G05 NUMBER: 6011

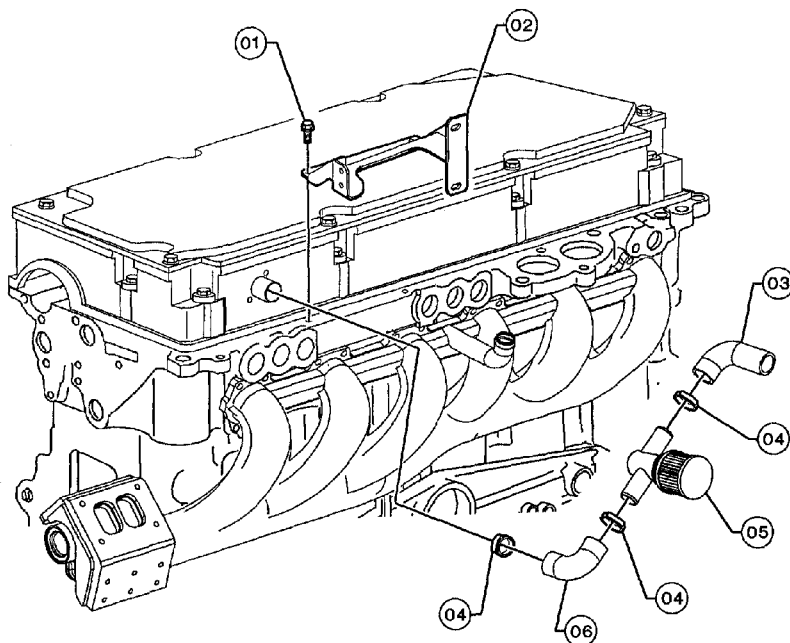
EQUINOX

SHEET: 2 OF 2

PARTS LIST DATE: 03/15/01
REV. DATE: 11/26/01 KRP
DRAWN DATE: 11/19/01
DRAWN BY: K. PAGELS



BREATHER TUBE S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01 11504986	BOLT	02
02 23525035	BRACKET	01
03 23525229	HOSE	01
04 23508028	CLAMP	03
05 23516532	REGULATOR	01
06 23505095	HOSE	01

PARTS LIST DATE: 06/24/99
REV. DATE: 08/25/99 CC
DRAWN DATE: 04/22/99
DRAWN BY: D.GOLEC



GROUP:

06H00

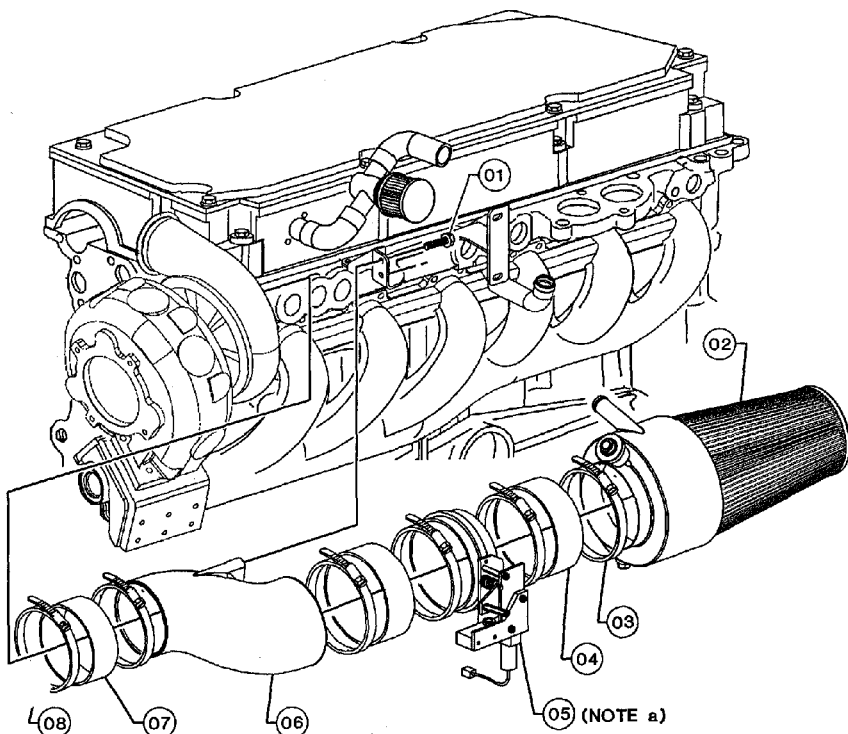
NUMBER:

6016

SHEET:

1 OF 3

BREATHER TUBE S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01 11504986	BOLT	02
02 23525218	COLLECTOR	01
03 23504233	CLAMP	04
04 23525115	HOSE	02
05 (REF FROM 06M10A)		
06 23525032	ADAPTER	01
07 23525182	HOSE	01
08 23509403	CLAMP	02

NOTE:

(a) INDEX TO AVOID CONTACT WITH Y-TUBE FROM 06K02A

PARTS LIST DATE: 06/24/99
REV. DATE: 08/25/99 CC
DRAWN DATE: 04/22/99
DRAWN BY: D.GOLEC



GROUP:

06H00

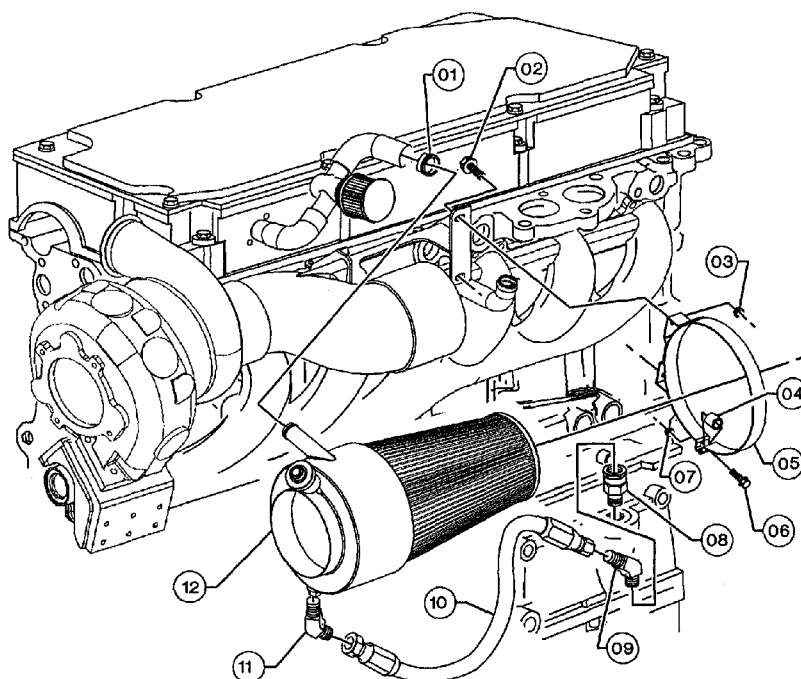
NUMBER:

6016

SHEET:

2 OF 3

BREATHER TUBE S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23508028 CLAMP	01
02	11503454 BOLT	02
03	11506101 NUT	02
04	23525312 SPACER	01
05	05183229 CLAMP	01
06	11509516 BOLT	01
07	11503553 NUT	01
08	05174924 VALVE	01
09	08929837 ELBOW	01
10	PAHHQ248 HOSE	01
11	23505200 ELBOW	01
12	23525218 (REF SHT 2)	

GROUP:

06H00

NUMBER:

6016

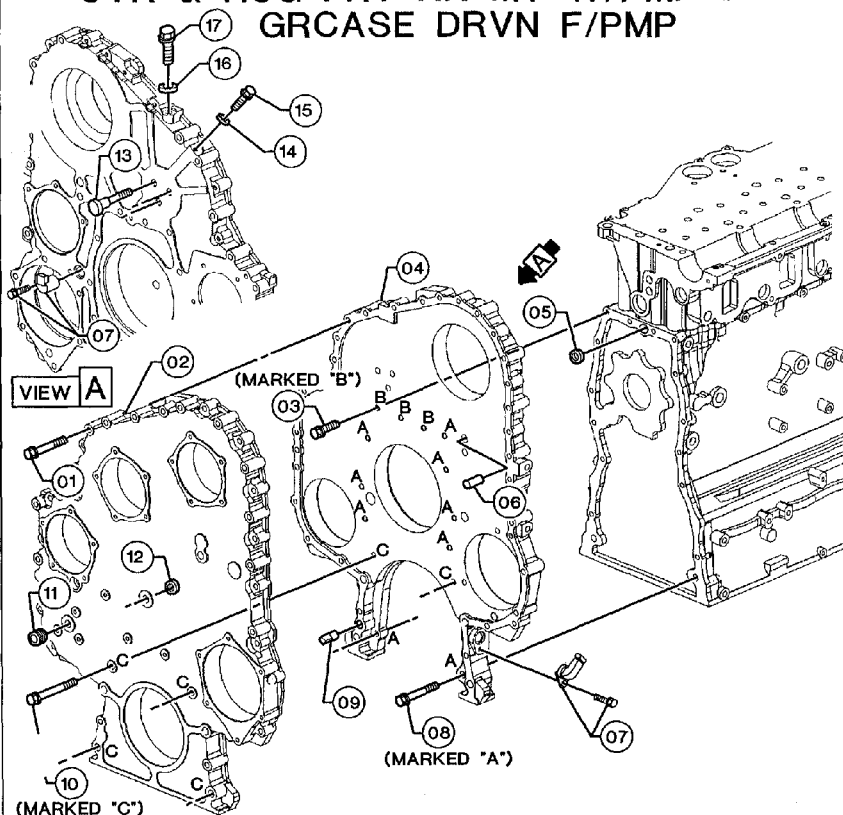
SHEET:

3 OF 3

PARTS LIST DATE: 06/24/99
REV. DATE: 08/25/99 CC
DRAWN DATE: 04/22/99
DRAWN BY: D.GOLEC



CVR & HSG FRT RR MT W/PMP & GRCASE DRVN F/PMP



PART NUMBER	DESCRIPTION	QTY.
01	11509523 BOLT	14
02	23505876 COVER	01
03	11505299 BOLT	03
04	23506682 GEAR CASE	01
05	08929740 SEAL	01
06	08929015 PIN	01
07	(REF FROM 06N04)	
08	23505062 BOLT	09
09	08929022 PIN	01
10	11509525 BOLT	04
11	08924517 PLUG	01
12	05141452 SEAL RING	01
13	08929333 BOLT	03
14	05180370 WASHER	01
15	11513811 BOLT	01
16	05155596 WASHER	01
17	00181333 BOLT	01

GROUP:

06J00

NUMBER:

6026

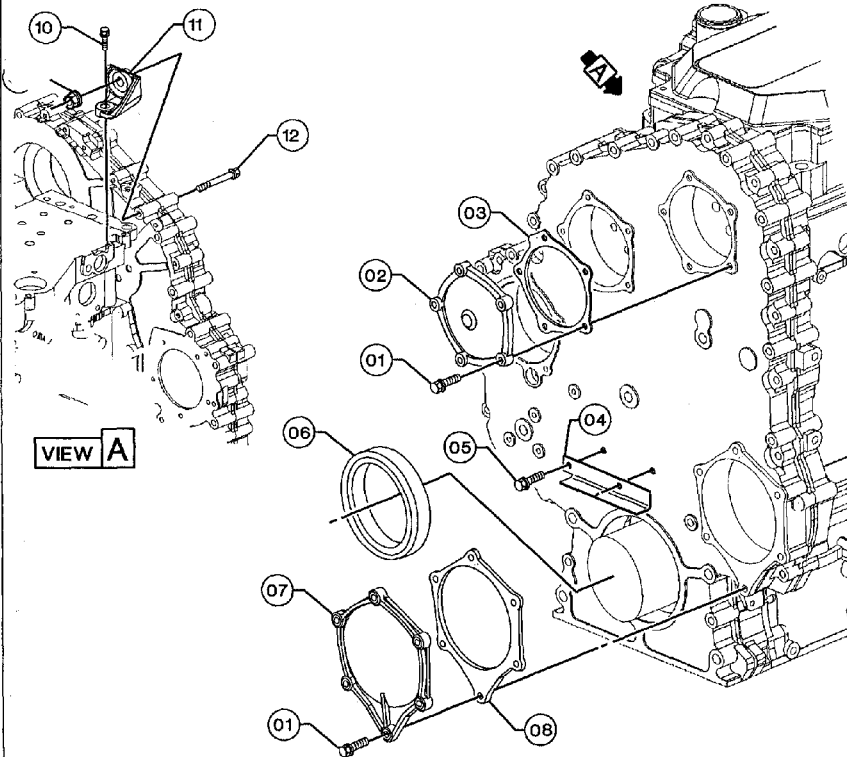
SHEET:

1 OF 2

PARTS LIST DATE: 12/06/01
REV. DATE: 12/07/01 KP
DRAWN DATE: 09/07/99
DRAWN BY: AV/T.GIESLA



CVR & HSG FRT RR MT W/PMP & GRCASE DRVN F/PMP



PART NUMBER	DESCRIPTION	QTY.
01 11504822	BOLT	11
02 23514714	COVER	01
03 08929130	GASKET	01
04 23507422	GUARD BOLT	01
05 11504986	BOLT	02
06 23518355	SEAL	01
07 08929099	COVER	01
08 08929299	GASKET	01
09 11506101	NUT	01
10 23511786	BOLT	01
11 23528306	BRACKET	01
12 11505299	BOLT	01

GROUP:

06J00

NUMBER:

6026

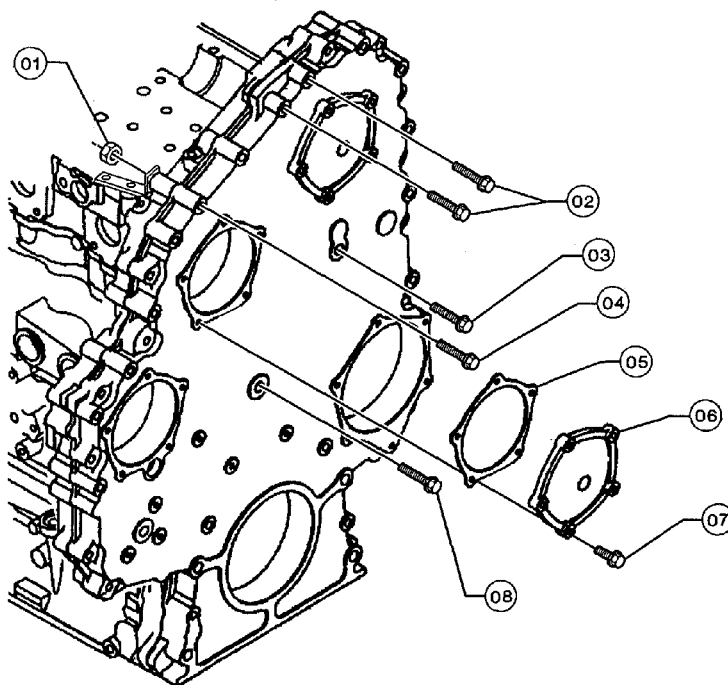
SHEET:

2 OF 2

PARTS LIST DATE: 12/06/01
REV. DATE: 12/07/01 KP
DRAWN DATE: 09/07/99
DRAWN BY: AV/T. CIESLA



REQ COVER ONLY LESS FAN & SPINDLE SERIES 60



PART NUMBER	DESCRIPTION	QTY.
01 11506101	NUT	01
02 11509799	BOLT	02
03 23411257	BOLT	01
04 08929357	BOLT	01
05 08929130	GASKET	01
06 23514714	COVER	01
07 11504822	BOLT	05
08 11509530	BOLT	01

NOTE

REFER TO BUILD DOCUMENT FOR ORIENTATION.

PARTS LIST DATE: 06/24/98
REV. DATE: 01/14/00 TC
DRAWN DATE: 02/16/96
DRAWN BY: BRIGUGLIO/TC



GROUP:

06K01

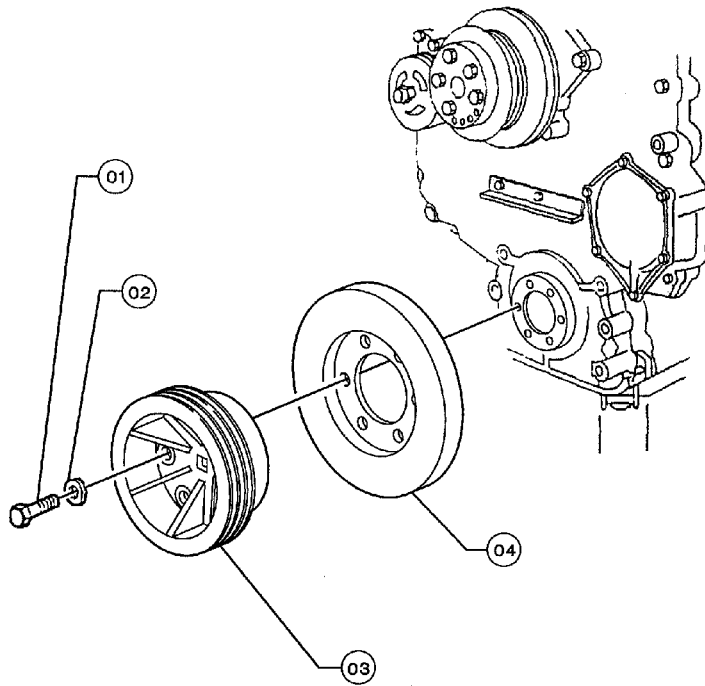
NUMBER:

6014

SHEET:

1 OF 1

PUL CRSHF DO7400 G4W50 S60



PART NUMBER	DESCRIPTION	QTY.
01	08929222 BOLT	06
02	05133981 WASHER	06
03	08929077 PULLEY	01
04	(REF FROM 06C02)	01

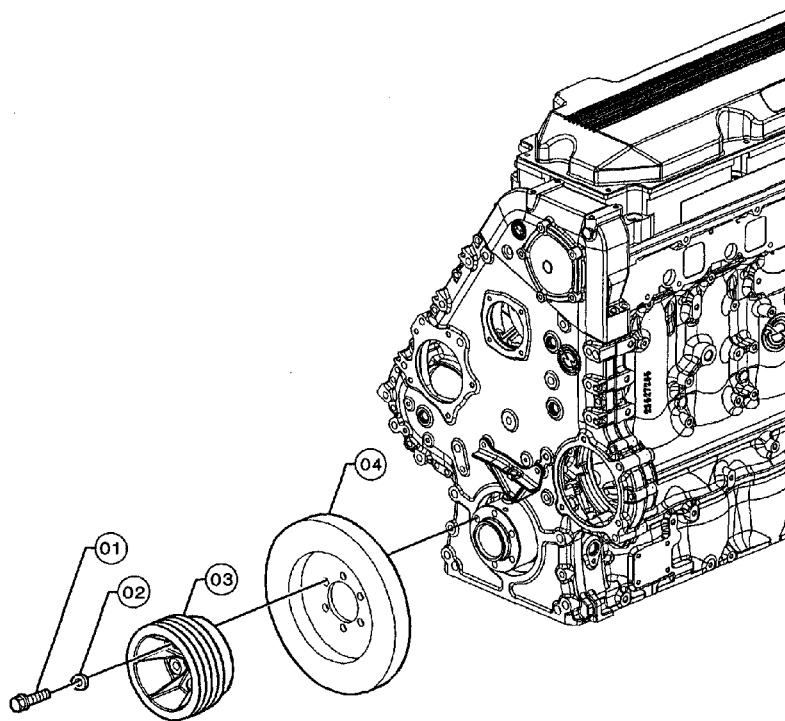
GROUP: 06K01A NUMBER: 6001

SHEET: 1 OF 2

PARTS LIST DATE: 01/04/01
REV. DATE: 11/20/01 AV
DRAWN DATE: 09/11/98
DRAWN BY: T.CIESLA



PUL CRSHF D07400 G4W50 S60



PART NUMBER	DESCRIPTION	QTY.
01	08929222 BOLT	06
02	05133981 WASHER	06
03	08929077 PULLEY	01
04	(REF FROM 06C02)	

GROUP: 06K01A NUMBER: 6001

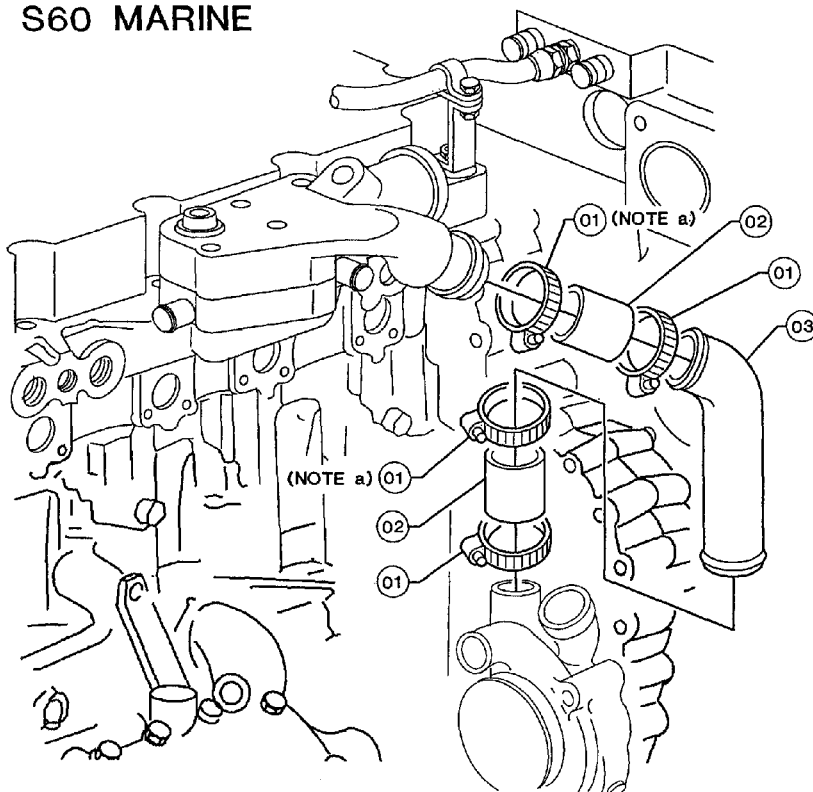
EQUINOX

SHEET: 2 OF 2

PARTS LIST DATE: 01/04/01
REV. DATE: X
DRAWN DATE: 11/20/01
DRAWN BY: A.VOGWILL



WATER BYPASS TUBE THERM TO PUMP S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23503066 CLAMP	04
02	23514665 HOSE	02
03	23525051 TUBE	01

NOTE:
(a) INDEX CLAMPS AS SHOWN

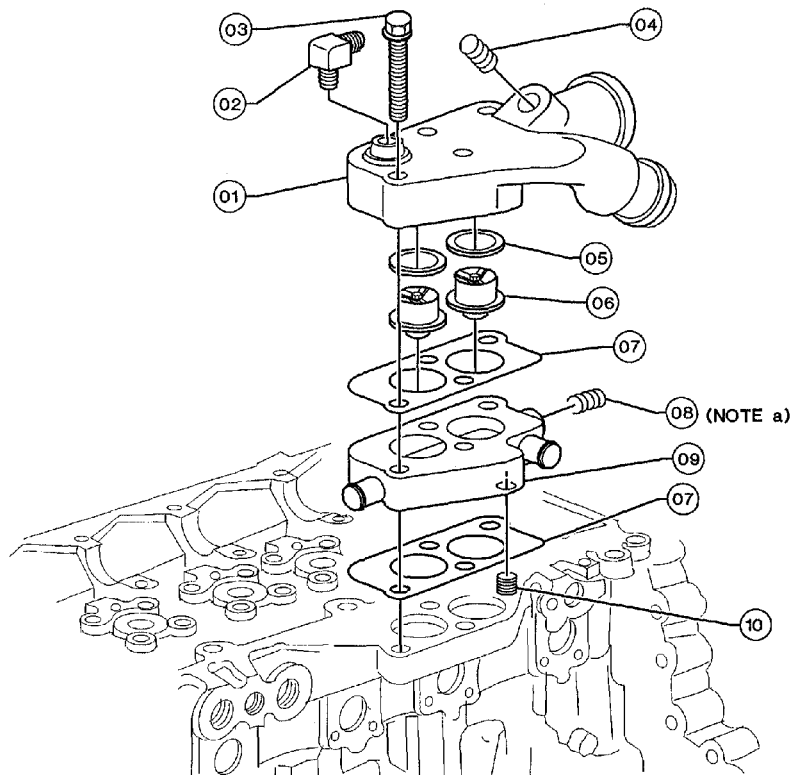
GROUP: 06K03A
NUMBER: 6010

SHEET: 1 OF 1

PARTS LIST DATE: 05/18/99
REV. DATE: 07/12/99 DG
DRAWN DATE: 04/16/99
DRAWN BY: T. CIESLA



HSG & THERM (160) S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525144 HOUSING	01
02	08924146 ELBOW	01
03	23516684 BOLT	04
04	23511572 PLUG	01
05	05132155 SEAL	02
06	23503827 THERMOSTAT	02
07	23525151 GASKET	02
08	23511573 PLUG	01
09	23525181 SPACER	01
10	08924517 PLUG	01

NOTE:
(a) REFERENCE 06Y02C
HEATER ELEMENT

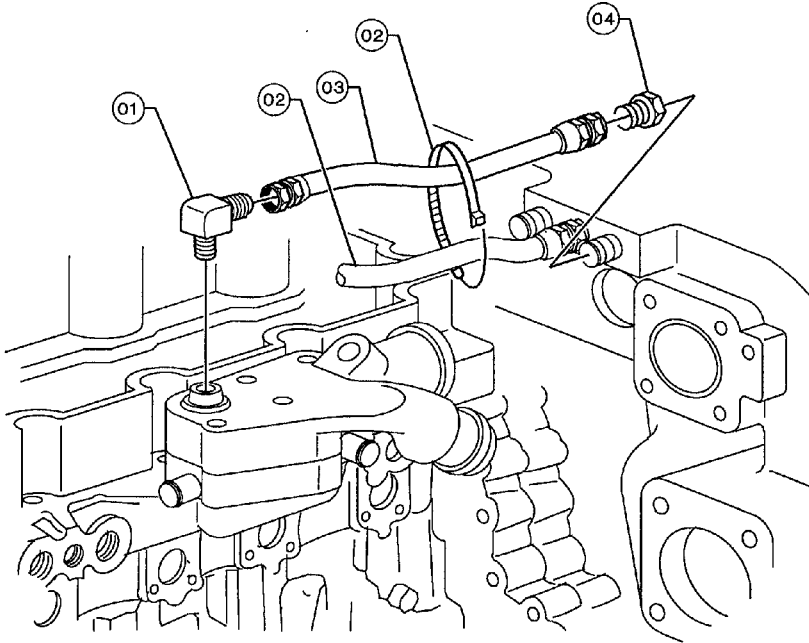
GROUP: 06K03B
NUMBER: 6007

SHEET: 1 OF 2

PARTS LIST DATE: 01/07/00
REV. DATE: 01/21/00 TC
DRAWN DATE: 03/31/99
DRAWN BY: T. CIESLA



HSG & THERM (160) S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	08924146 (REF SHT 1)	
02	(REF FROM 06M07C)	
03	BXHHH0185 HOSE	01
04	08924147 CONN	01

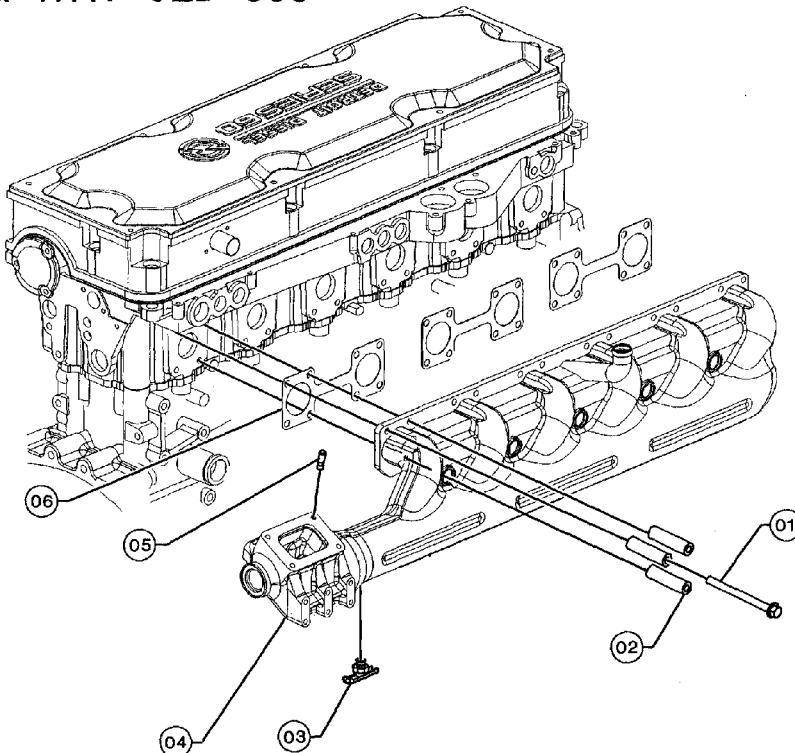
GROUP: 06K03B NUMBER: 6007

SHEET: 2 OF 2

PARTS LIST DATE: 01/07/00
REV. DATE: 01/21/00 TC
DRAWN DATE: 03/31/99
DRAWN BY: T. CIESLA



MANIF EXH 1 PC STAINLESS STL MARINE & WAT CLD S60



PART NUMBER	DESCRIPTION	QTY.
01	11509526 BOLT	18
02	23525495 SPACER	18
03	08924140 DRN COCK	01
04	23525494 MANIFOLD	01
05	23507438 STUD	04
06	23525090 GASKET	03

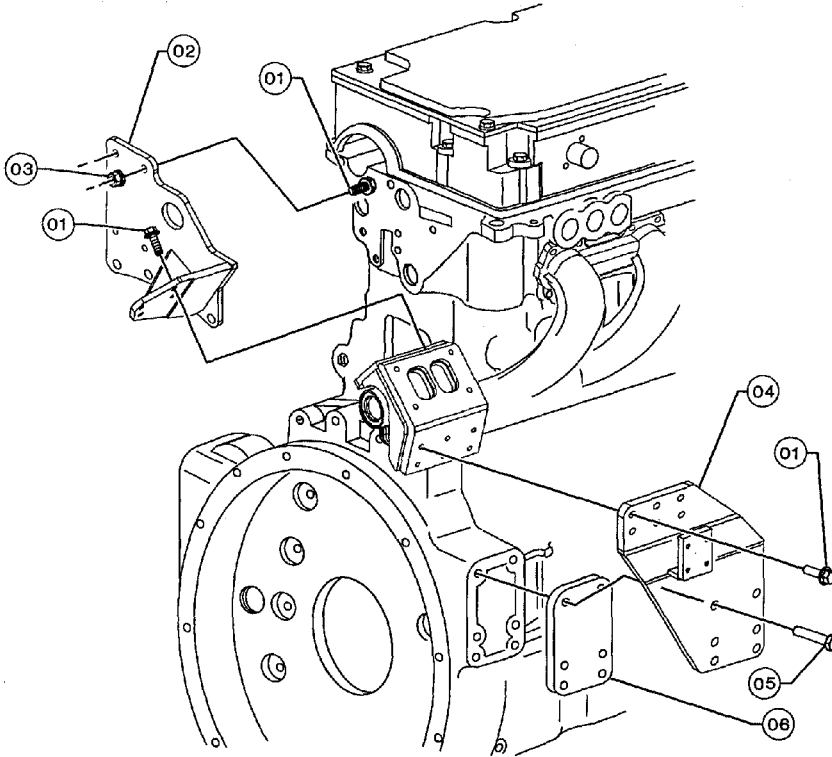
GROUP: 06L00 NUMBER: 6049

SHEET: 1 OF 2

PARTS LIST DATE: 12/19/01
REV. DATE: 01/07/02 JJ
DRAWN DATE: 03/08/01
DRAWN BY: K. PAGELS



MANIF EXH 1PC STAINLESS STL MARINE & WAT CLD S60



PART NUMBER	DESCRIPTION	QTY.
01 11505299	BOLT	12
02 23525252	BRACKET	01
03 11506101	NUT	02
04 23525355	BRACKET	01
05 08922143	BOLT	06
06 23525114	SPACER	01

GROUP:

06L00

NUMBER:

6049

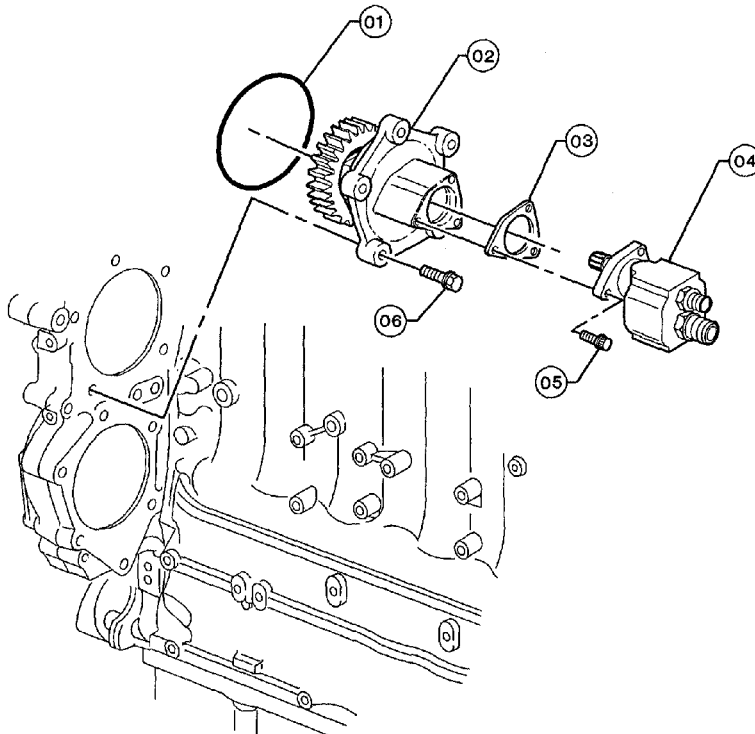
SHEET:

2 OF 2

PARTS LIST DATE:
12/19/01
REV. DATE:
01/07/02 JJ
DRAWN DATE:
03/08/01
DRAWN BY:
K.PAGELS



PMP FUEL LH 2 PORT BARNES GEAR CASE DRIVEN S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01 08929253	SEAL	01
02 23523751	DRIVE ASM	01
03 05150193	GASKET	01
04 (REF 06M04 23525324)		
05 23506222	BOLT	03
06 11504822	BOLT	05

GROUP:

06M04

NUMBER:

6042

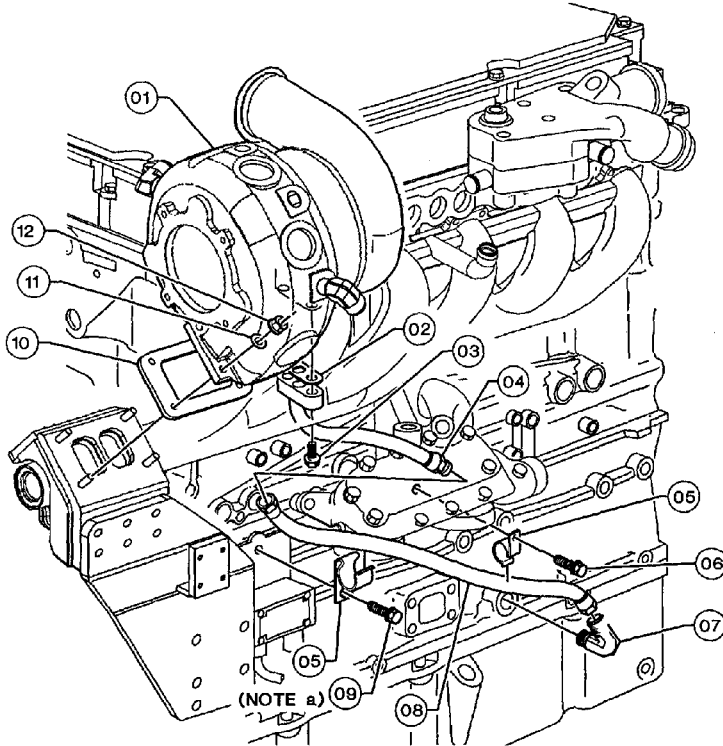
SHEET:

1 OF 1

PARTS LIST DATE:
01/07/00
REV. DATE:
01/14/00 TC
DRAWN DATE:
08/13/99
DRAWN BY:
T. CIESLA



**TURB UTW8503 0.90 A/R 117MM 52TRIM
BCI-4 TURB HSG S60 MARINE**



PART NUMBER	DESCRIPTION	QTY.
01	23525406 TURBO	01
02	05170468 GASKET	01
03	08927579 BOLT	02
04	23525099 TUBE	01
05	23509144 CLIP	02
06	(REF FROM 08G03)	
07	02492119 ELBOW	01
08	CELL0285 HOSE	01
09	(REF FROM 06Y02C)	
10	08929529 GASKET	01
11	23517240 WASHER	04
12	11501052 NUT	04

NOTE

(a) INSTALL (1)11503454 BOLT
WHEN 06Y02C IS NOT INSTALLED

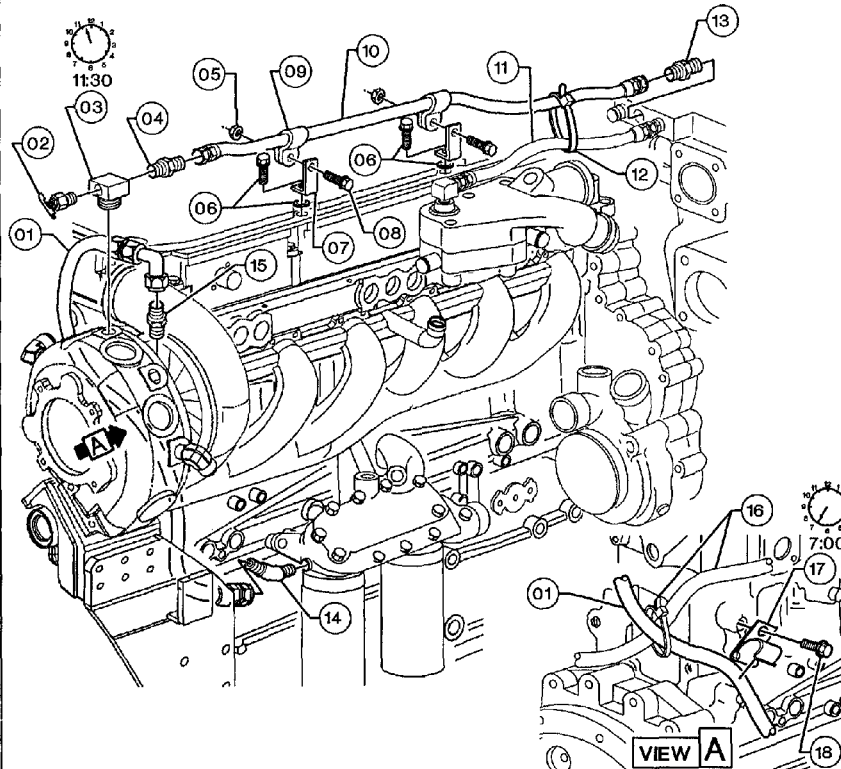
GROUP: 06M07C
NUMBER: 6308

SHEET: 1 OF 2

PARTS LIST DATE: 02/02/00
REV. DATE: X
DRAWN DATE: 03/23/00
DRAWN BY: J.JAMIESON



**TURB UTW8503 0.90 A/R 117MM 52TRIM
BCI-4 TURB HSG S60 MARINE**



PART NUMBER	DESCRIPTION	QTY.
01	CAHP0346 HOSE	01
02	08924140 COCK	01
03	23501883 TEE	01
04	08924145 CONN	01
05	11507036 NUT	02
06	(REF FROM 06X03A)	
07	23525321 BRKT	02
08	11504986 BOLT	02
09	02488022 CLIP	02
10	BXHHH0535 HOSE	01
11	(REF FROM 06K03B)	
12	5101020 STRAP	01
13	08924147 CONN	01
14	08929837 45 ELBOW	01
15	08929833 CONN	01
16	(REF FROM 06M07D)	
17	23525352 CLIP	01
18	11513811 BOLT	01

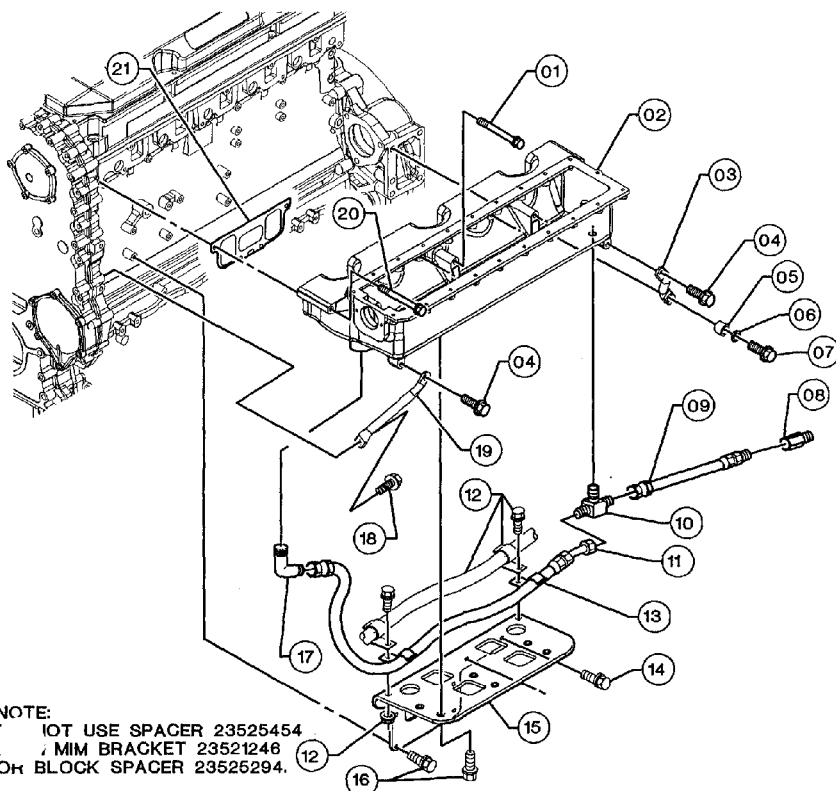
GROUP: 06M07C
NUMBER: 6308

SHEET: 2 OF 2

PARTS LIST DATE: 02/02/00
REV. DATE: X
DRAWN DATE: 03/23/00
DRAWN BY: J.JAMIESON



CHRG CLG SYS S60 MARINE



NOTE:
1. NOT USE SPACER 23525454
2. MIM BRACKET 23521246
3. OR BLOCK SPACER 23525294.

PART NUMBER	DESCRIPTION	QTY.
01	23523608 BOLT	05
02	23525387 HOUSING	01
03	23525386 BRACE	01
04	11509528 BOLT	01
05	23525454 SPACER	01
06	00103334 WASHER	01
07	00271562 BOLT	01
08	23525425 CHK VALVE	01
09	AXH560090 HOSE	01
10	23525424 TEE	01
11	ADHHK0265 HOSE	01
12	(REF FROM 06M09)	
13	23509135 CLIP	02
14	11509522 BOLT	02
15	23525319 BRACKET	01
16	11505299 BOLT	10
17	23525423 ELBOW	01
18	(REF FROM 13H00)	
19	23525385 BRACE	01
20	000931012205 BOLT	02
21	23525388 GASKET	03

PARTS LIST DATE: 11/15/00
REV. DATE: 03/14/01 AV
DRAWN DATE: 05/03/00
DRAWN BY: J.JAMIESON



GROUP:

06M07D

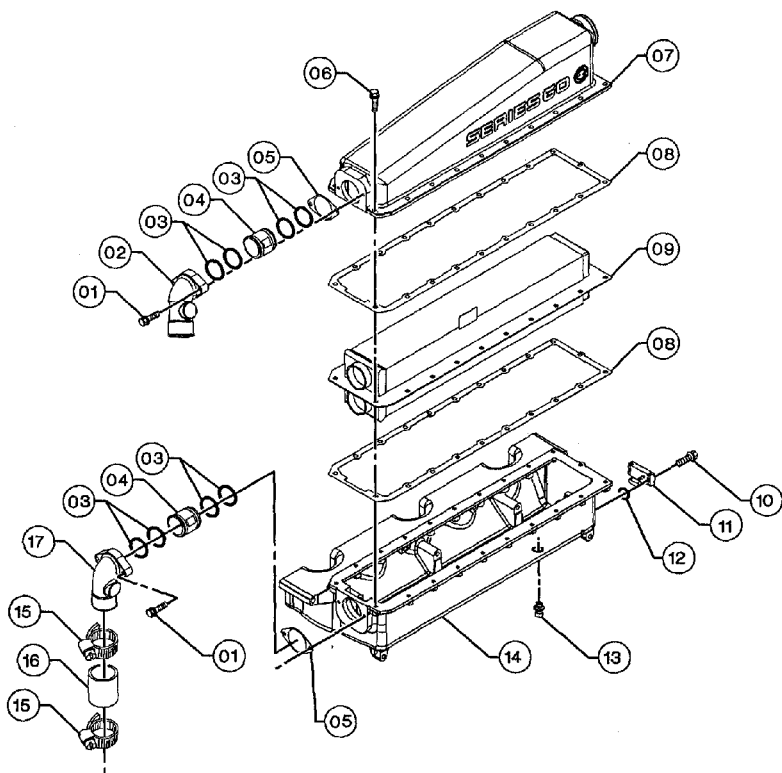
NUMBER:

6007

SHEET:

1 OF 2

CHRG CLG SYS S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	11509513 BOLT	04
02	23525109 ELBOW	01
03	06525206 SEAL RING	08
04	23525110 SLEEVE	02
05	23525105 GASKET	02
06	23505062 BOLT	21
07	23525420 COVER	01
08	23525433 GASKET	02
09	23525384 CAC	01
10	304017005024 BOLT	02
11	23522322 SENSOR	01
12	05182977 SEAL RING	01
13	(REF FROM 06N04)	
14	23525387 (REF SHT 1)	
15	23501600 CLAMP	02
16	23511711 HOSE	01
17	23525271 ELBOW	01

NOTE
THESE PARTS SHIP LOOSE.
23525435 ADAPTOR 01
23525448 HOSE 01
08928651 CLAMP 01

PARTS LIST DATE: 11/15/00
REV. DATE: 03/14/01 AV
DRAWN DATE: 05/03/00
DRAWN BY: J.JAMIESON



GROUP:

06M07D

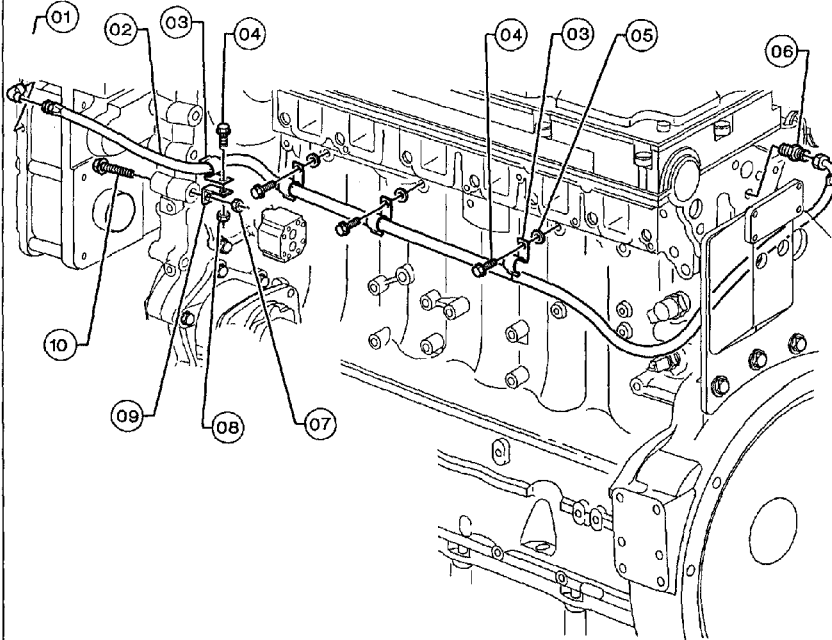
NUMBER:

6007

SHEET:

2 OF 2

FLTR & HOSES SEC ONLY LT RR 0.080R S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525293 ELBOW	01
02	CALV0715 HOSE	01
03	23509136 CLIP	04
04	11509512 BOLT	04
05	05157412 SPACER	03
06	23525350 FITTING	01
07	11506101 NUT	01
08	11507036 NUT	01
09	05114541 BRACKET	01
10	11509525 BOLT	01

GROUP:

06M09

NUMBER:

6200

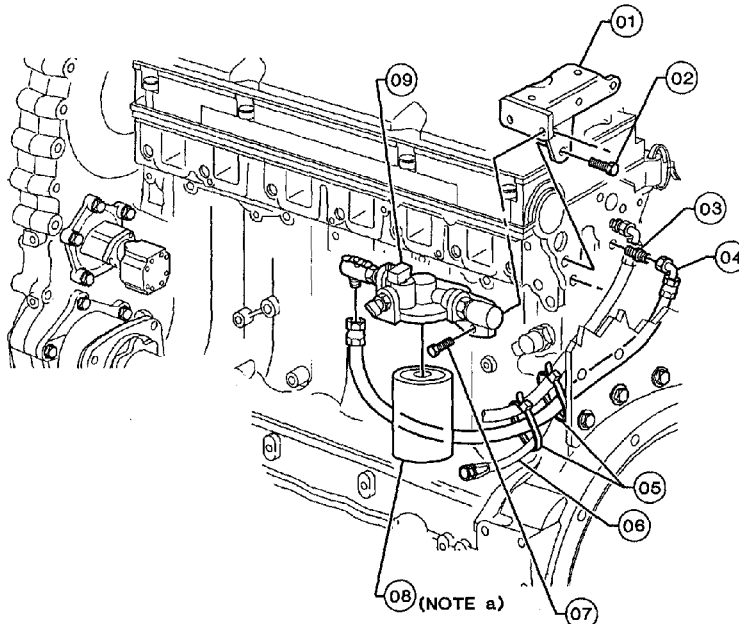
SHEET:

1 OF 4

PARTS LIST DATE:
02/19/00
REV. DATE:
04/03/00 JJ
DRAWN DATE:
09/29/99
DRAWN BY:
T. CIESLA



FLTR & HOSES SEC ONLY LT RR 0.080R S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525185 BRACKET	01
02	11509528 BOLT	02
03	23513204 CONN	01
04	WAHP0197 HOSE	01
05	05101020 STRAP	02
06	(REF FROM 06M07D)	
07	11505299 BOLT	02
08	23518482 FILTER	01
09	(REF 06M09 23525374)	

NOTE
(a) INSTALL (1) 23518482 FILTER
AFTER TEST.

GROUP:

06M09

NUMBER:

6200

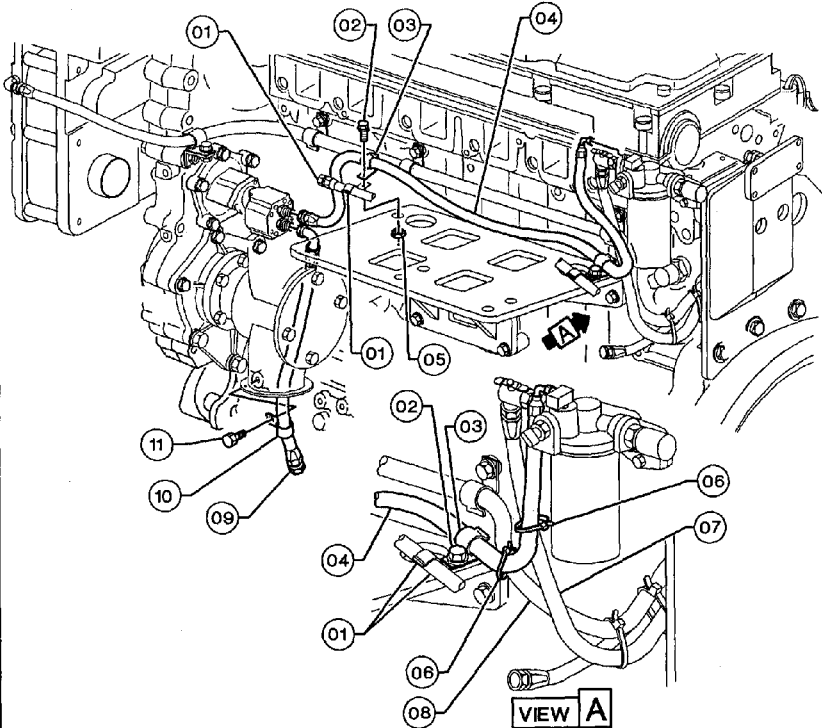
SHEET:

2 OF 4

PARTS LIST DATE:
02/19/00
REV. DATE:
04/03/00 JJ
DRAWN DATE:
09/29/99
DRAWN BY:
T. CIESLA



FLTR & HOSES SEC ONLY LT RR 0.080R S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	(REF FROM 06M07D)	
02	11505299 BOLT	02
03	23509136 CLIP	02
04	CAHP0435 HOSE	01
05	11506101 NUT	01
06	05101020 STRAP	02
07	WAHP0197 (REF SHT 2)	
08	CALV0715 (REF SHT 1)	
09	WCHP0236 HOSE	01
10	02419766 CLIP	01
11	11513811 BOLT	01

GROUP:

06M09

NUMBER:

6200

SHEET:

3 OF 4

PARTS LIST DATE:

02/19/00

REV. DATE:

04/03/00 JJ

DRAWN DATE:

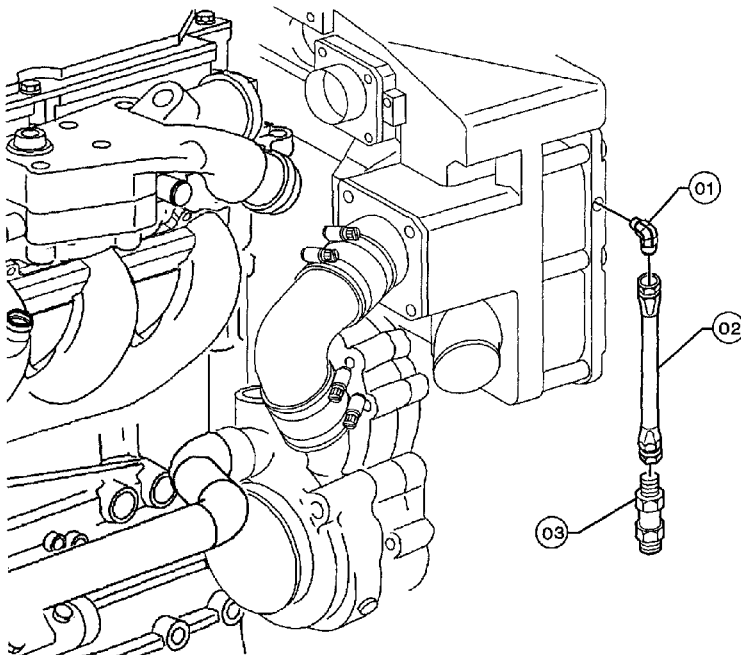
09/29/99

DRAWN BY:

T. CIESLA



FLTR & HOSES SEC ONLY LT RR 0.08R S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23518511 ELBOW	01
02	WBLZ0073 HOSE	01
03	23516919 VALVE	01

GROUP:

06M09

NUMBER:

6200

SHEET:

4 OF 4

PARTS LIST DATE:

02/19/00

REV. DATE:

04/03/00 JJ

DRAWN DATE:

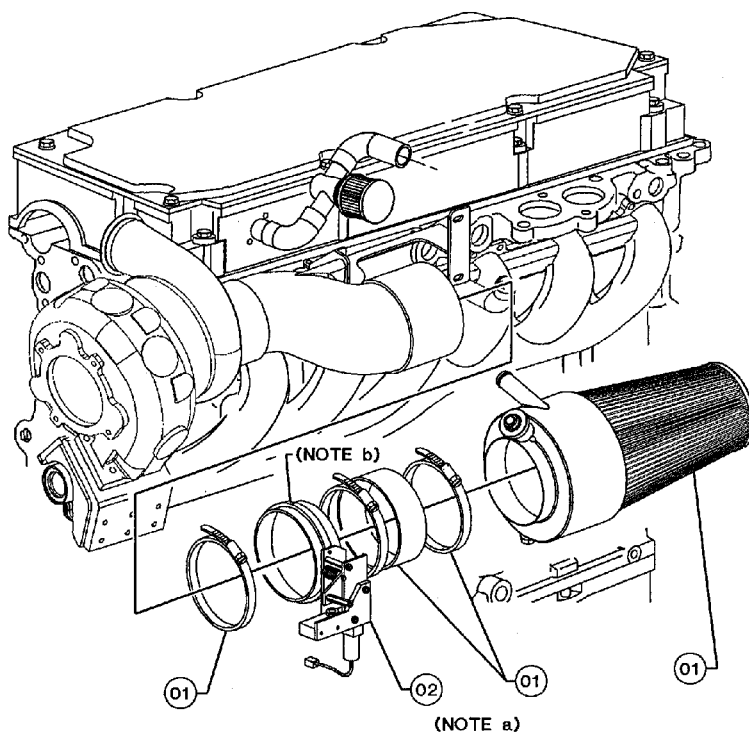
09/29/99

DRAWN BY:

T. CIESLA



VALVE & SOLENOID ASM S60 MARINE PC



PART NUMBER	DESCRIPTION	QTY.
01	(REF FROM 06H00)	
02	23525117 VLV SOLND	01

NOTE

(a) INDEX TO AVOID CONTACT WITH Y-TUBE FROM 06K02A

(b) INSTALL WITH ARROW ON TOP AND FACING REAR OF ENGINE

SHIP LOOSE:

23518632 HARNESS ASM

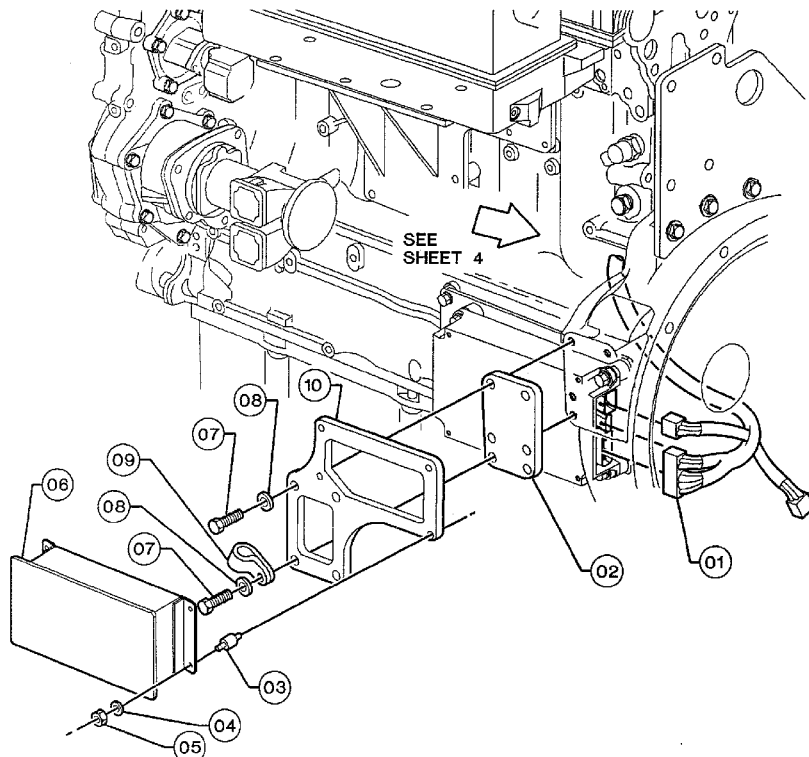
GROUP: 06M10A NUMBER: 6001

SHEET: 1 OF 1

PARTS LIST DATE: 02/02/99
REV. DATE: 12/09/99 TC
DRAWN DATE: 04/23/99
DRAWN BY: T. CIESLA



ELEC INJ CONT (STBD) DDEC4 ECM MIM STBD S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525135 HARNESS	01
02	23525114 SPACER	01
03	23518117 ISOLATOR	04
04	23518765 LW	04
05	23518766 NUT	04
06	23519565 MIM	01
07	00271562 BOLT	04
08	00103344 LW	04
09	23525372 CLIP	01
10	23525141 BRACKET	01

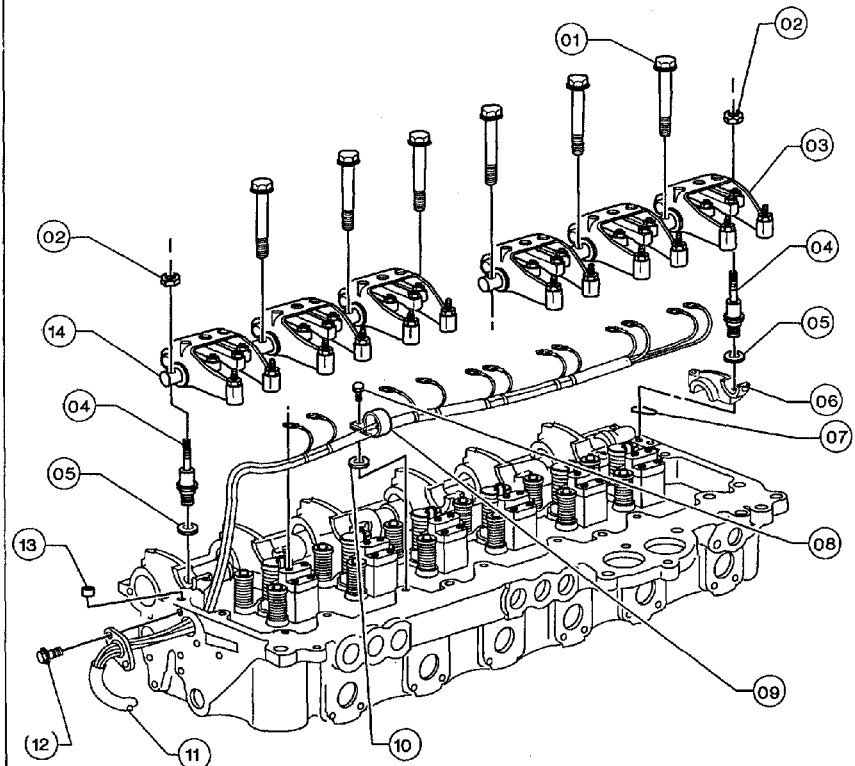
GROUP: 06N04 NUMBER: 6167

SHEET: 3 OF 5

PARTS LIST DATE: 10/26/99
REV. DATE: X
DRAWN DATE: 02/01/00
DRAWN BY: T. CIESLA



MECH VLV & INJ OPER CER RLR RACETRK S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525734 BOLT	06
02	23500708 NUT	02
03	23524772 RKR FRONT	01
04	23526221 STUD	02
05	23521111 SEAL	02
06	(REF FROM 06X01B)	
07	23522975 SEAL	01
08	11503316 BOLT	01
09	23525278 CLIP	01
10	23525279 SPACER	01
11	23525240 HARNESS	01
12	11509511 BOLT	02
13	08929740 SEAL	01
14	23524773 RKR REAR	01

GROUP:

06X03

NUMBER:

6147

SHEET:

1 OF 1

PARTS LIST DATE:

11/11/99

REV. DATE:

01/21/00 TC

DRAWN DATE:

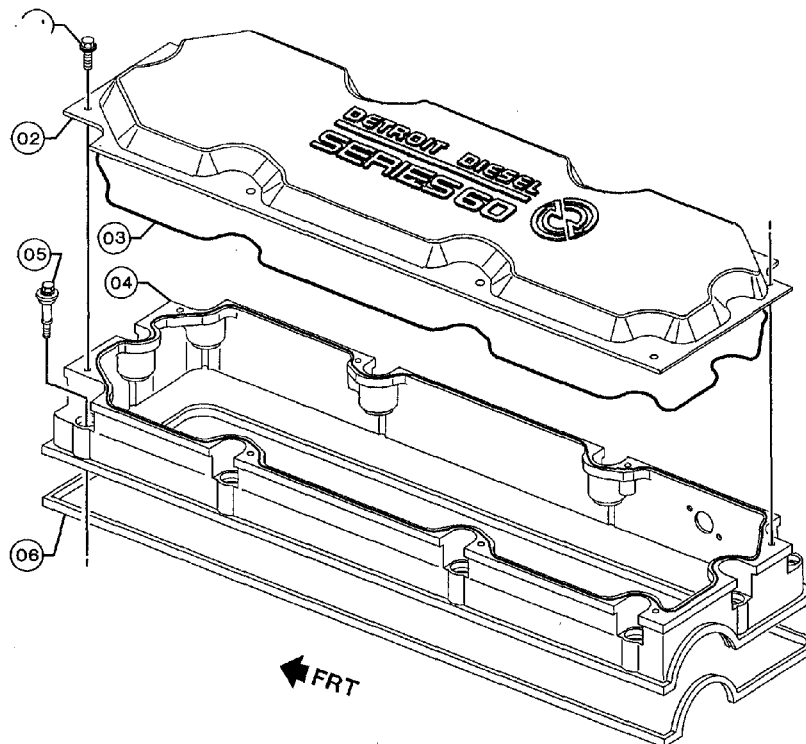
01/14/00

DRAWN BY:

T. CIESLA



CVR VLV RKR 2PC NON-CHR AL W/R INT BRTH S/SYS S60



PART NUMBER	DESCRIPTION	QTY.
01	11504822 BOLT	08
02	23525140 COVER-UPR	01
03	23511991 GASKET	01
04	23525253 COVER-LWR	01
05	23522271 BOLT ASM	10
06	23522269 GASKET	01

GROUP:

06X03A

NUMBER:

6052

SHEET:

1 OF 4

PARTS LIST DATE:

08/23/00

REV. DATE:

01/23/02 AV

DRAWN DATE:

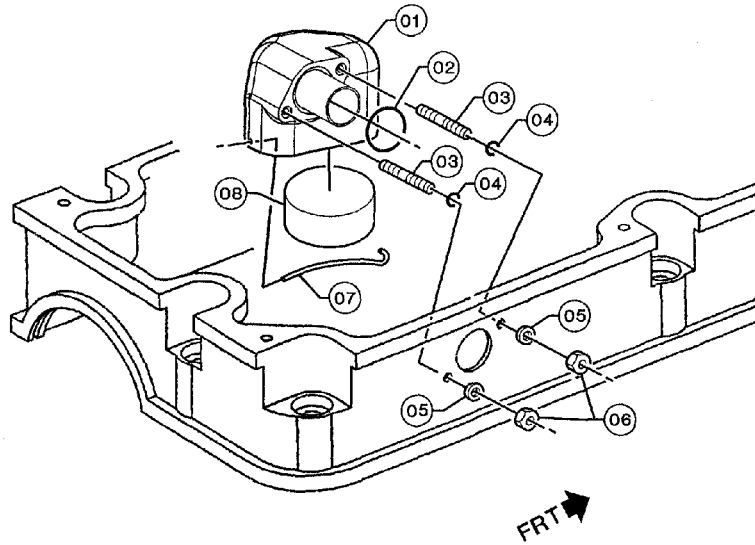
08/22/00

DRAWN BY:

R.PAQUETTE



CVR VLV RKR 2PC NON-CHR AL W/R INT
BRTH S/SYS S60



PART NUMBER	DESCRIPTION	QTY.
01 23525221	BREATHER	01
02 23525226	RING SEAL	01
03 23525225	STUD	02
04 23519119	SEAL RING	02
05 23520468	WASHER	02
06 11503749	NUT	02
07 08929257	RETAINER	01
08 23504890	ELEMENT	01

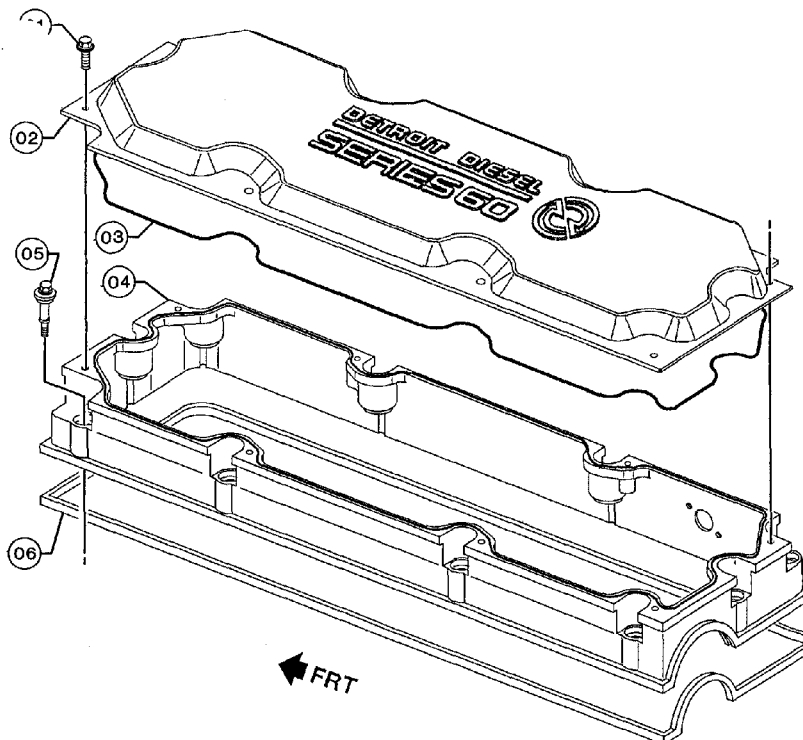
GROUP: 06X03A NUMBER: 6052

SHEET: 2 OF 4

PARTS LIST DATE: 08/23/00
REV. DATE: 01/23/02 AV
DRAWN DATE: 08/22/00
DRAWN BY: R.PAQUETTE



CVR VLV RKR 2PC NON-CHR AL W/R INT
BRTH S/SYS S60



PART NUMBER	DESCRIPTION	QTY.
01 11504822	BOLT	08
02 23525140	COVER-UPR	01
03 23511991	GASKET	01
04 23525253	COVER-LWR	01
05 23522271	BOLT ASM	10
06 23522269	GASKET	01

GROUP: 06X03A NUMBER: 6052

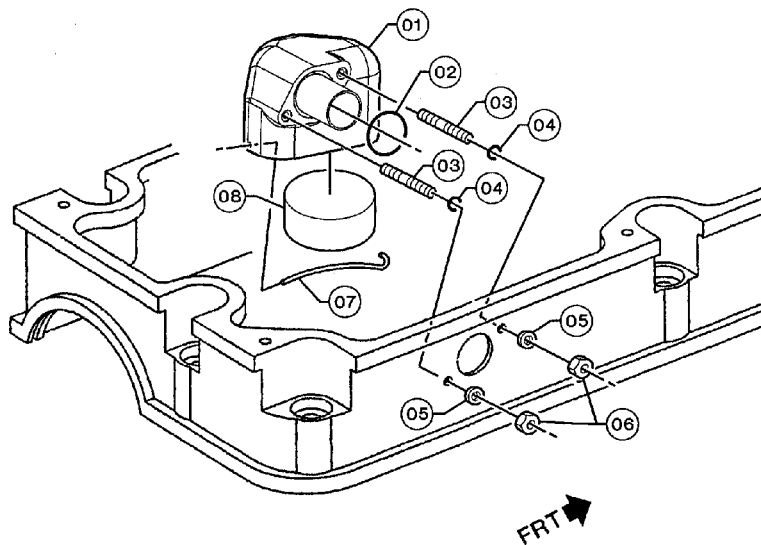
EQUINOX

SHEET: 3 OF 4

PARTS LIST DATE: 08/23/00
REV. DATE: 01/23/02 AV
DRAWN DATE: 08/22/00
DRAWN BY: R.PAQUETTE



CVR VLV RKR 2PC NON-CHR AL W/R INT
BRTH S/SYS S60



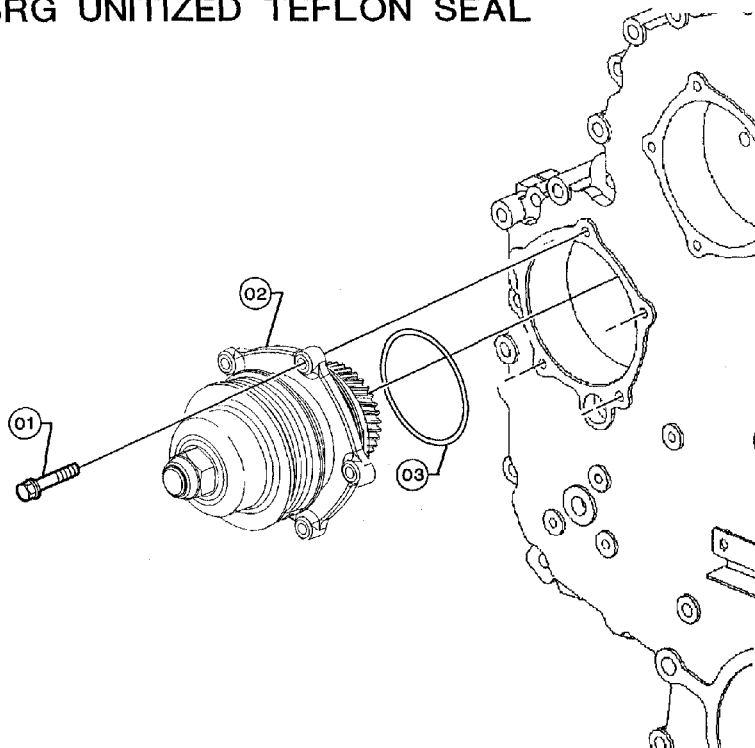
PART NUMBER	DESCRIPTION	QTY.
(01) 23525221	BREATHER	01
(02) 23525226	RING SEAL	01
(03) 23525225	STUD	02
(04) 23519119	SEAL RING	02
(05) 23520468	WASHER	02
(06) 11503749	NUT	02
(07) 08929257	RETAINER	01
(08) 23504890	ELEMENT	01

GROUP: 06X03A NUMBER: 6052 EQUINOX SHEET: 4 OF 4

PARTS LIST DATE: 08/23/00
REV. DATE: 01/23/02 AV
DRAWN DATE: 08/22/00
DRAWN BY: R.PAQUETTE



DRV ACSRY 6 GRV POLY-V PUL LRG
BRG UNITIZED TEFLON SEAL



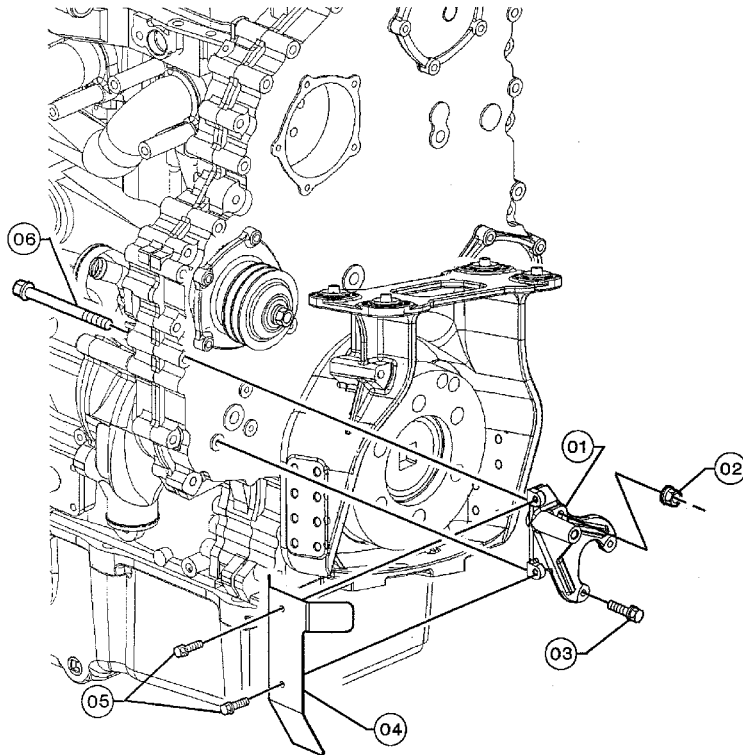
PART NUMBER	DESCRIPTION	QTY.
(01) 11504822	BOLT	05
(02) 23523998	DRIVE ASM	01
(03) 08929253	SEAL RING	01

GROUP: 06X04 NUMBER: 6044 SHEET: 1 OF 1

PARTS LIST DATE: 08/07/00
REV. DATE: X
DRAWN DATE: 01/12/01
DRAWN BY: A.VOGWILL



GEN CHRG 24100A DELCO 34SI INCL BRKTS & SHEILD S60 MAR



PART NUMBER	DESCRIPTION	QTY.
01 23525453	BRACKET	01
02 11506101	NUT	01
03 11509512	BOLT	02
04 23525127	SHIELD	01
05 23521979	BOLT	02
06 11509526	BOLT	01

GROUP:

06Y01

NUMBER:

6098

SHEET:

1 OF 2

PARTS LIST DATE:

01/04/01

REV. DATE:

06/25/01 AV

DRAWN DATE:

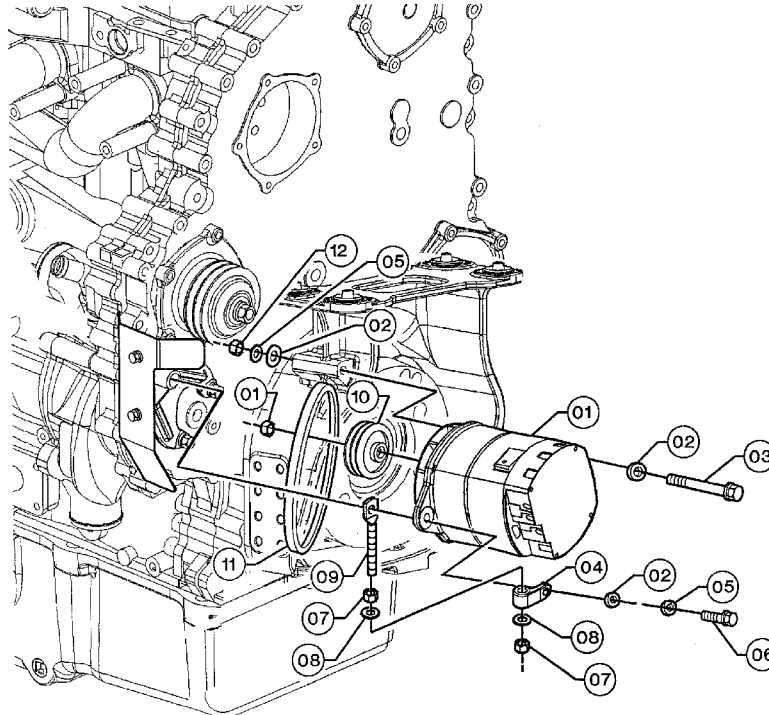
08/13/99

DRAWN BY:

T.C/A.VOGWILL



GEN CHRG 24100A DELCO 34SI INCL BRKTS & SHEILD S60 MAR



PART NUMBER	DESCRIPTION	QTY.
01 19011168	ALTERNATOR	01
02 05132715	WASHER	03
03 09427945	BOLT	01
04 23511669	LINK	01
05 00103323	LW	02
06 00442733	BOLT	01
07 11501055	NUT	02
08 00103345	WASHER	02
09 23525426	ROD ASM	01
10 23525166	PULLEY	01
11 23525184	BELT	01
12 00102637	NUT	01

GROUP:

06Y01

NUMBER:

6098

SHEET:

2 OF 2

PARTS LIST DATE:

01/04/01

REV. DATE:

06/25/01 AV

DRAWN DATE:

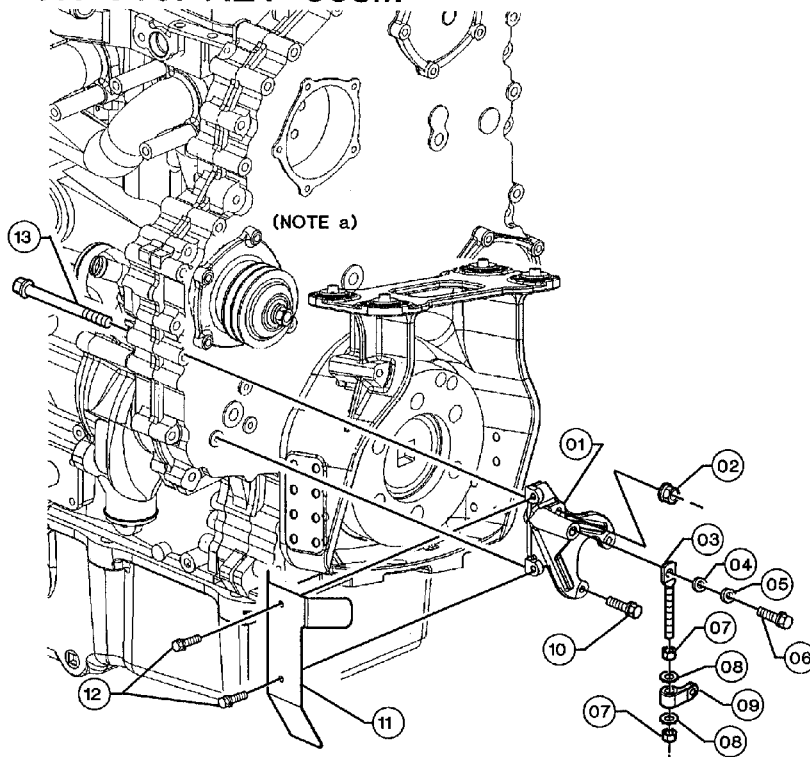
08/13/99

DRAWN BY:

T.C/A.VOGWILL



BRKT LINK ADJ ROD SHLD W/ATCH PTS FOR 34SI ALT S60M



PART NUMBER	DESCRIPTION	QTY.
01	23525453 BRACKET	01
02	11506101 NUT	01
03	23525426 ROD ASM	01
04	05132715 WASHER	02
05	00103323 LW	01
06	00442733 BOLT	01
07	11501055 NUT	02
08	00103345 PW	02
09	23511669 LINK	01
10	11509512 BOLT	01
11	23525127 SHIELD	01
12	23521979 BOLT	02
13	11509526 BOLT	01

NOTE:
(a)23525184 BELT SHIPPED LOOSE

GROUP:

06Y01

NUMBER:

6111

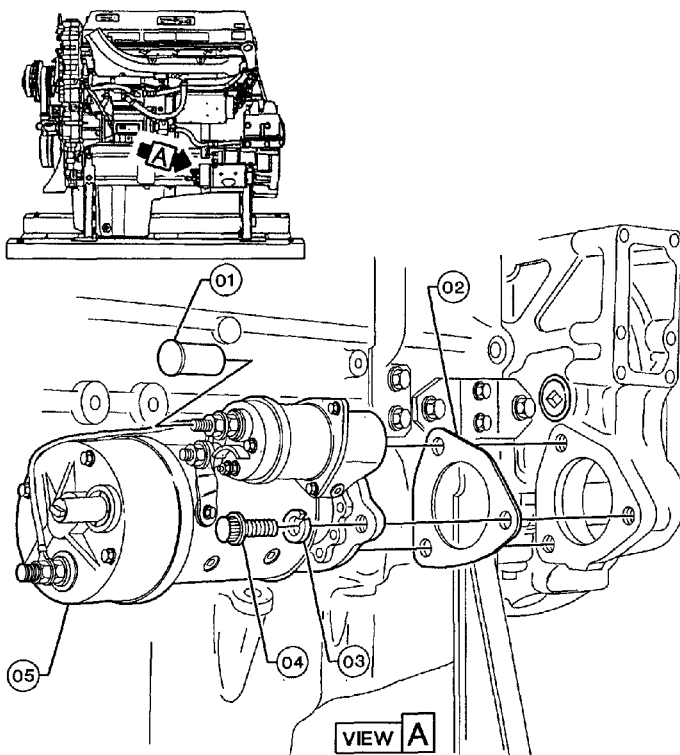
SHEET:

1 OF 1

PARTS LIST DATE:
01/27/01
REV. DATE:
06/25/01 AV
DRAWN DATE:
06/19/01
DRAWN BY:
A.VOGWILL



MTR ELEC START 24V CW INSUL W/O BRKTS S60M



PART NUMBER	DESCRIPTION	QTY.
01	23526744 CAP	01
02	05130995 GASKET	01
03	00103325 LW	03
04	08922933 BOLT	03
05	10478911 MOTOR	01

GROUP:

06Y02A

NUMBER:

6015

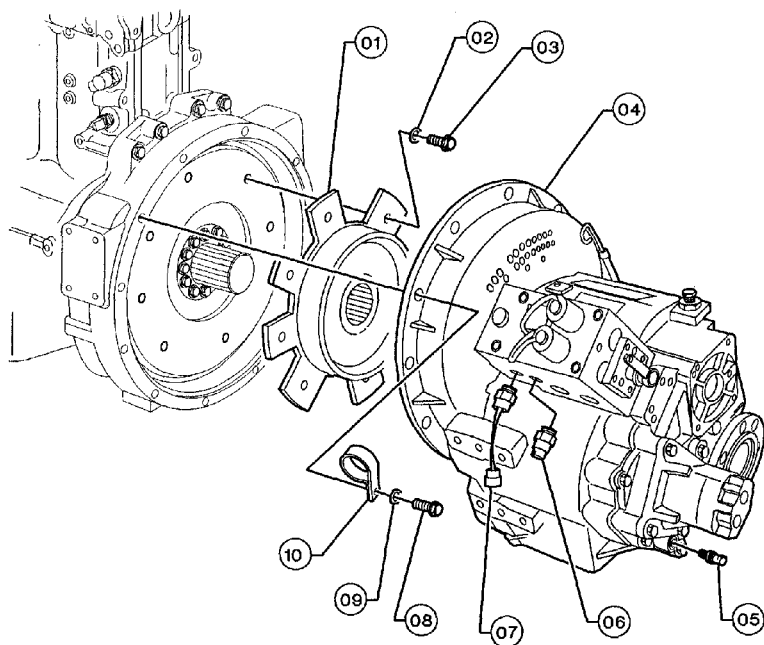
SHEET:

1 OF 1

PARTS LIST DATE:
08/20/99
REV. DATE:
X
DRAWN DATE:
03/02/00
DRAWN BY:
R.PAQUETTE



GEAR REV & RED 1.74:1 TD MG5114SC W/O CLR S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	DRIVE RING PIA GEAR	
02	00103323 LW	08
03	00442733 BOLT	08
04	23525286 GEAR ASM	01
05	23518092 SENSOR	01
06	23520795 SENSOR	01
07	23523552 SWITCH	01
08	00106337 BOLT	12
09	05125108 PW	01
10	23525278 CLIP	01

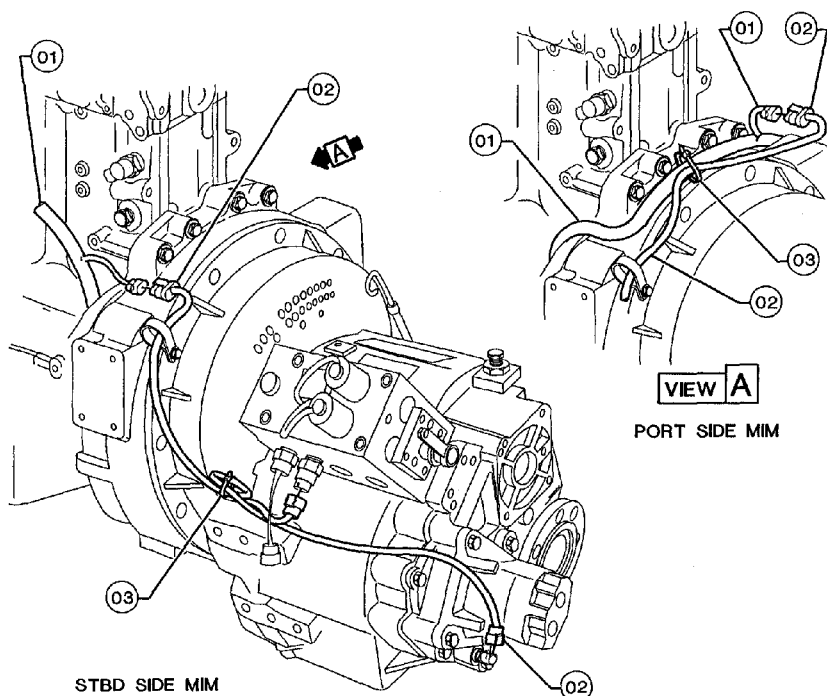
GROUP: 07B05 NUMBER: 6092

SHEET: 1 OF 2

PARTS LIST DATE: 06/24/99
REV. DATE: X
DRAWN DATE: 03/15/00
DRAWN BY: J.JAMIESON



GEAR REV & RED 1.74:1 TD MG5114SC W/O CLR S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	(REF FROM 06N04)	
02	23512192 HARNESS	01
03	05101020 STRAP	04

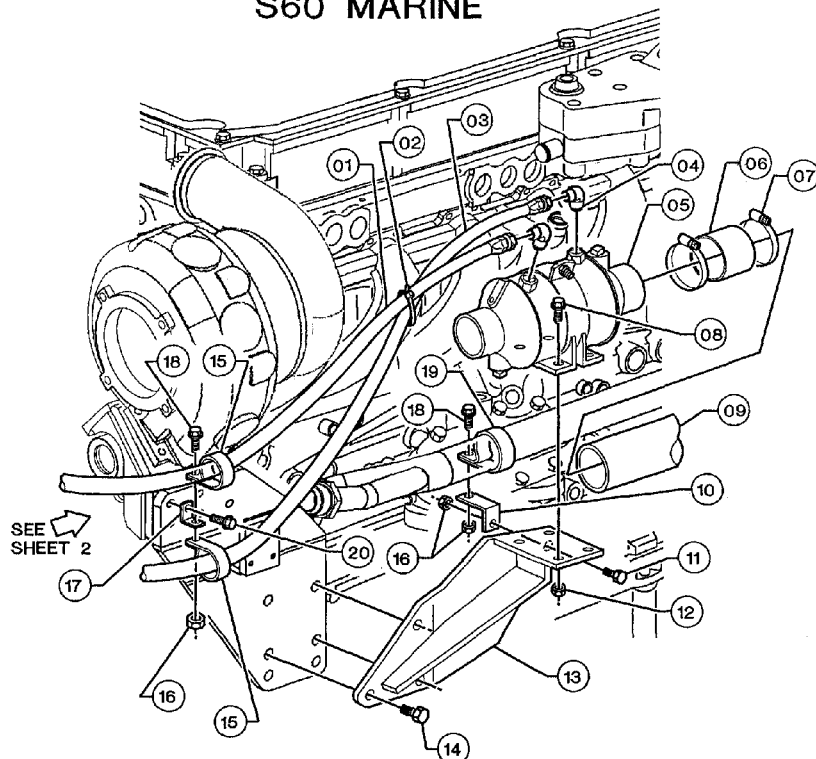
GROUP: 07B05 NUMBER: 6092

SHEET: 2 OF 2

PARTS LIST DATE: 06/24/99
REV. DATE: X
DRAWN DATE: 03/15/00
DRAWN BY: J.JAMIESON



HOSE & COOLER FOR MG5114SC S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
(01) WDLL0480	HOSE	01
(02) 05101020	STRAP	02
(03) WDJL0430	HOSE	01
(04) 23505039	ELBOW	02
(05) 23525273	COOLER ASM	01
(06) 23511711	HOSE	01
(07) 23501600	CLAMP	02
(08) 11509512	BOLT	04
(09)	(REF FROM 13D00)	
(10) 23525276	BRACKET	01
(11) 23511786	BOLT	01
(12) 11507036	NUT	04
(13) 23525274	BRACKET	01
(14) 00271566	BOLT	03
(15) 05147753	CLIP	02
(16) 11506101	NUT	03
(17) 05145872	BRACKET	01
(18) 11505299	BOLT	02
(19) 05141723	CLIP	01
(20)	(REF FROM 06L00)	

PARTS LIST DATE:
09/22/99
REV. DATE:
X
DRAWN DATE:
11/01/99
DRAWN BY:
T.CIESLA



GROUP:

07B05A

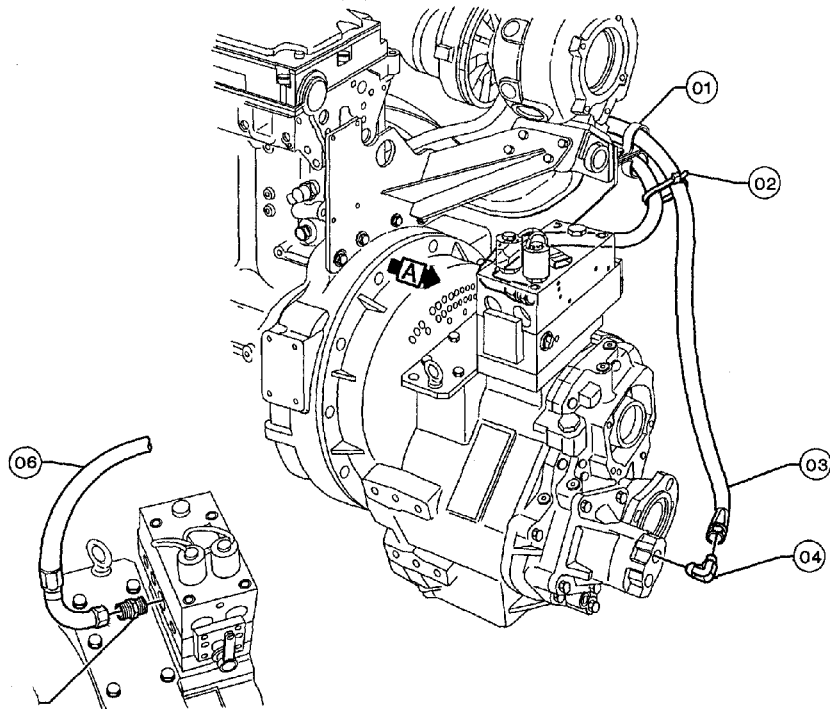
NUMBER:

6002

SHEET:

1 OF 2

GEAR REV & RED 1.48:1 TD MG5114SC S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
(01) 05147753	(REF SHEET 1)	
(02) 05101020	STRAP	01
(03) WDLL0480	(REF SHEET 1)	
(04) 23505039	ELBOW	01
(05) 23525346	CONN	01
(06) WDJL0430	(REF SHEET 1)	

PARTS LIST DATE:
09/22/99
REV. DATE:
X
DRAWN DATE:
11/01/99
DRAWN BY:
T.CIESLA



GROUP:

07B05A

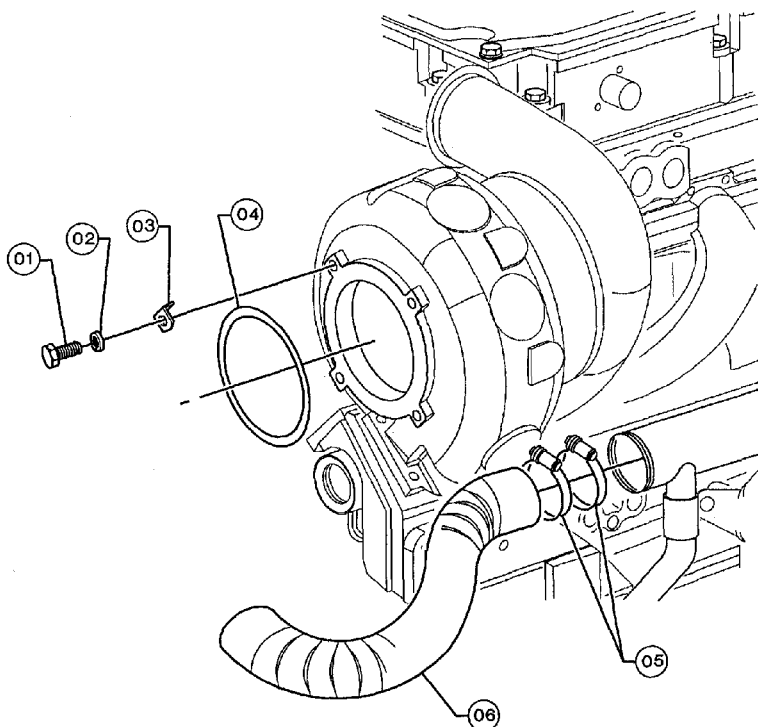
NUMBER:

6002

SHEET:

2 OF 2

GSKT & CRAB ONLY EXH ELBOW S60 PC MARINE



PART NUMBER	DESCRIPTION	QTY.
(01) 00186622	BOLT	04
(02) 00103321	LW	04
(03) 23501148	CLAMP	04
(04) 23501147	GASKET	01
(05) 23501600	CLAMP	02
(06) 23525301	HOSE	01

GROUP:

08C00

NUMBER:

6007

SHEET:

1 OF 1

PARTS LIST DATE:

06/30/99

REV. DATE:

X

DRAWN DATE:

12/20/99

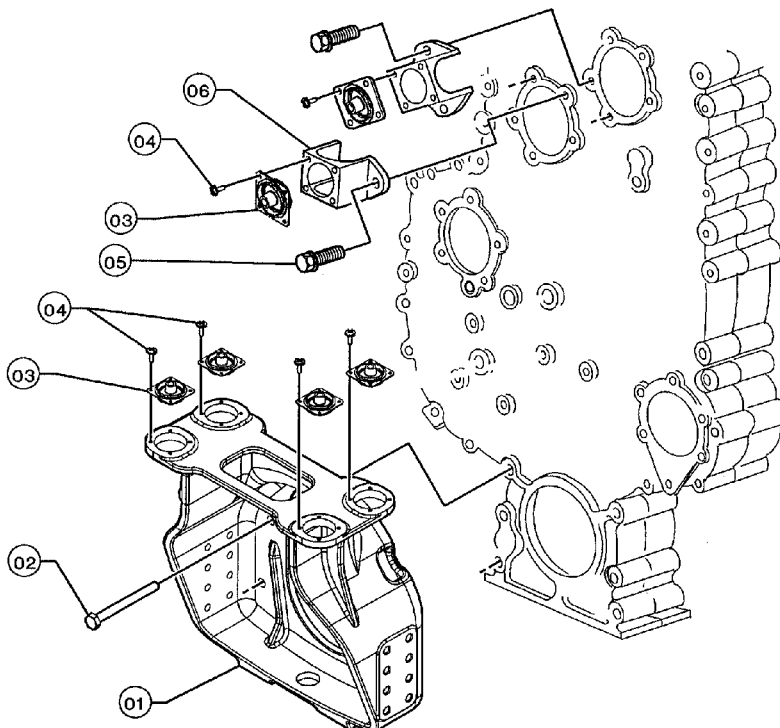
DRAWN BY:

T. CIESLA

DDC
IMAGE

DETROIT DIESEL
CORPORATION

EXCH HEAT & FUEL COOLER S60 MAR



PART NUMBER	DESCRIPTION	QTY.
(01) 23525064	BRACKET	01
(02) 08929068	BOLT	04
(03) 23525065	ISOLATOR	06
(04) 00120687	SCREW	24
(05) 11509513	BOLT	04
(06) 23525045	BRACKET	02

GROUP:

13D00

NUMBER:

6005

SHEET:

1 OF 4

PARTS LIST DATE:

02/14/01

REV. DATE:

03/15/01 KRP

DRAWN DATE:

01/08/01

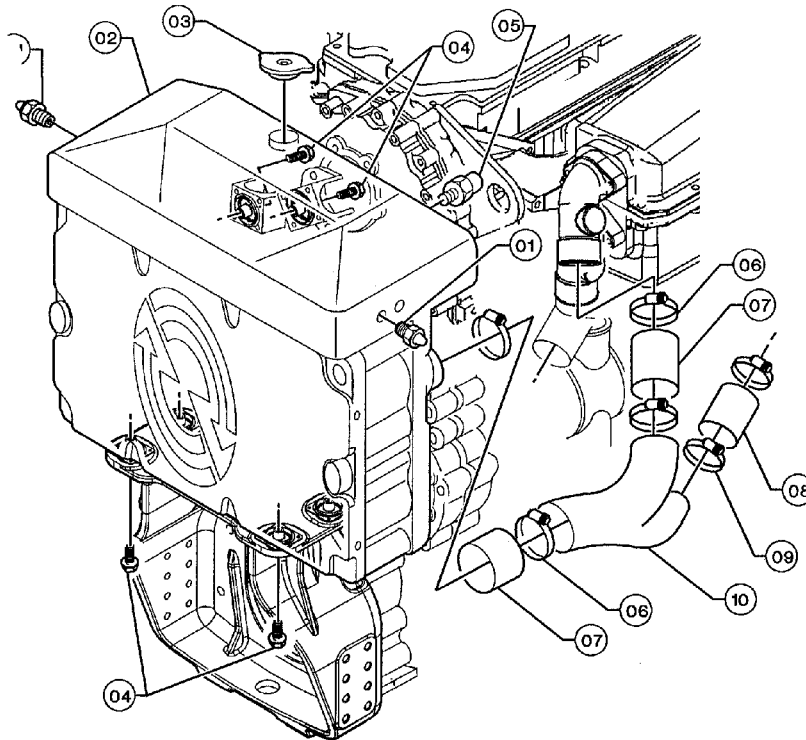
DRAWN BY:

A. VOGWILL

DDC
IMAGE

DETROIT DIESEL
CORPORATION

EXCH HEAT & FUEL COOLER S60 MAR



PART NUMBER	DESCRIPTION	QTY.
01	23507178 GLASS	02
02	23525480 HEAT EXCH	01
03	06410879 CAP	01
04	11509513 BOLT	06
05	23519175 SENSOR	01
06	23501600 CLAMP	04
07	23511711 HOSE	02
08	23514665 HOSE	01
09	23503066 CLAMP	02
10	23525411 TUBE	01

GROUP:

13D00

NUMBER:

6005

SHEET:

2 OF 4

PARTS LIST DATE:

02/14/01

REV. DATE:

03/15/01 KRP

DRAWN DATE:

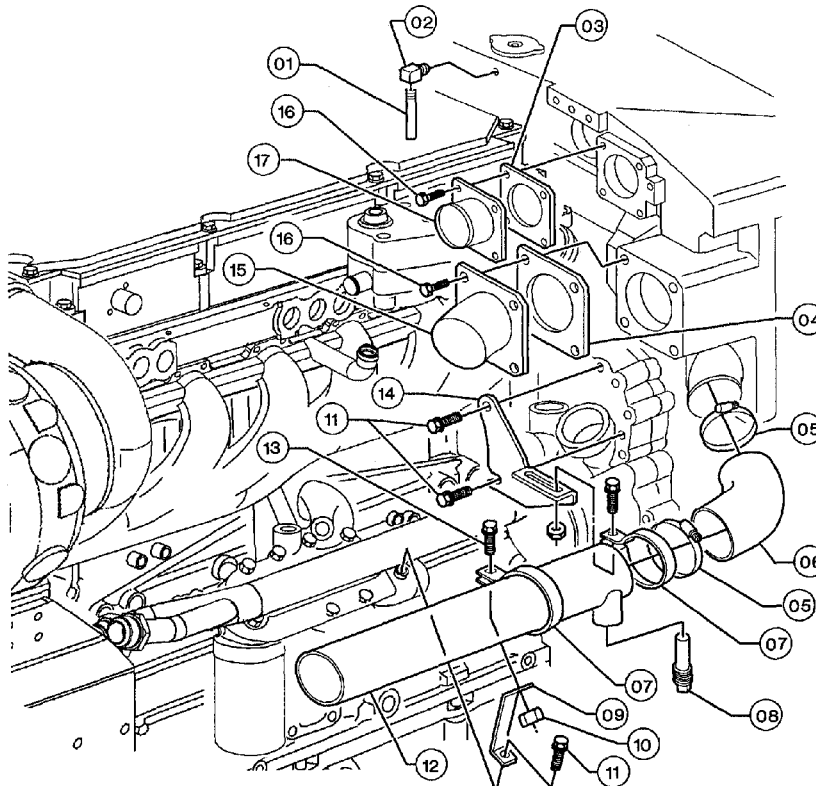
01/08/01

DRAWN BY:

A.VOGWILL



EXCH HEAT & FUEL COOLER S60 MAR



PART NUMBER	DESCRIPTION	QTY.
01	05158825 TUBE	01
02	08924153 ELBOW	01
03	23525059 GASKET	01
04	23525061 GASKET	01
05	23501600 CLAMP	02
06	23525211 TUBE ASM	01
07	23516589 CLIP	03
08	08517479 ZINC	01
09	23525277 BRACKET	01
10	11507036 NUT	02
11	11509511 BOLT	03
12	23525275 TUBE ASM	01
13	11504822 BOLT	02
14	23525267 BRACKET	01
15	23525063 TUBE ASM	01
16	11509512 BOLT	08
17	23525062 TUBE	01

GROUP:

13D00

NUMBER:

6005

SHEET:

3 OF 4

PARTS LIST DATE:

02/14/01

REV. DATE:

03/15/01 KRP

DRAWN DATE:

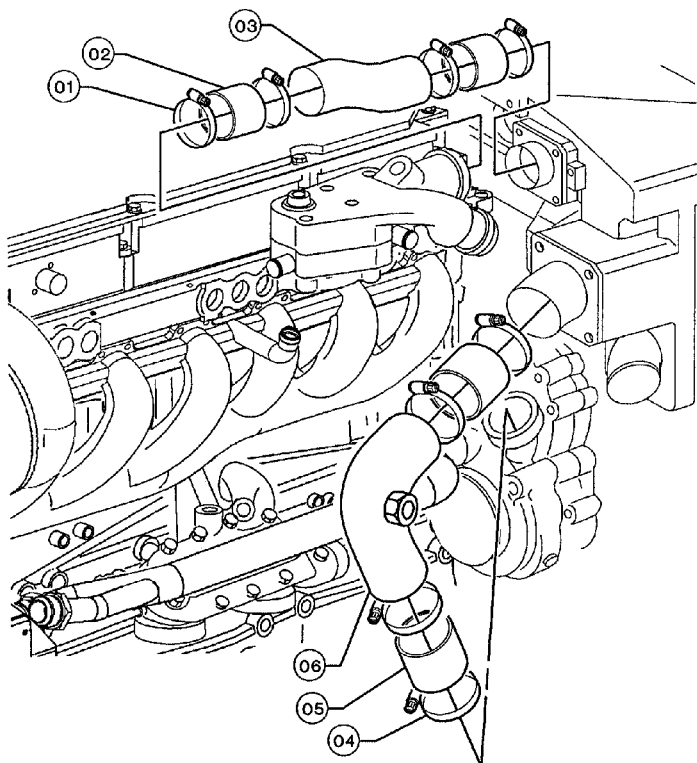
01/08/01

DRAWN BY:

A.VOGWILL



EXCH HEAT & FUEL COOLER S60 MAR



PART NUMBER	DESCRIPTION	QTY.
01	23501600 CLAMP	04
02	23514667 HOSE	02
03	23525046 TUBE	01
04	23501941 CLAMP	04
05	23525255 HOSE	02
06	23525492 TUBE	01

GROUP:

13D00

NUMBER:

6005

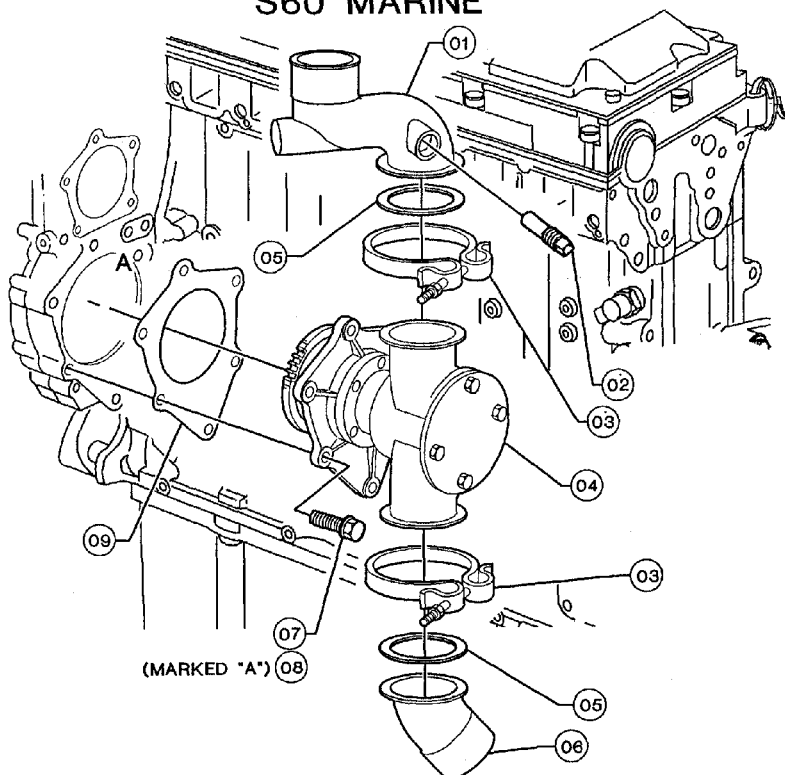
SHEET:

4 OF 4

PARTS LIST DATE: 02/14/01
REV. DATE: 03/15/01 KRP
DRAWN DATE: 01/08/01
DRAWN BY: A.VOGWILL



PMP RAW WTR & PPG JABSCO 17540-0001 S60 MARINE



PART NUMBER	DESCRIPTION	QTY.
01	23525270 ELBOW	01
02	08517479 ZINC	01
03	05137620 CLAMP	02
04	(REF 13H00 23525353)	
05	05126635 SEAL	02
06	23525197 ELBOW	01
07	23505050 BOLT	05
08	11505299 BOLT	01
09	08929299 GASKET	01

GROUP:

13H00

NUMBER:

6004

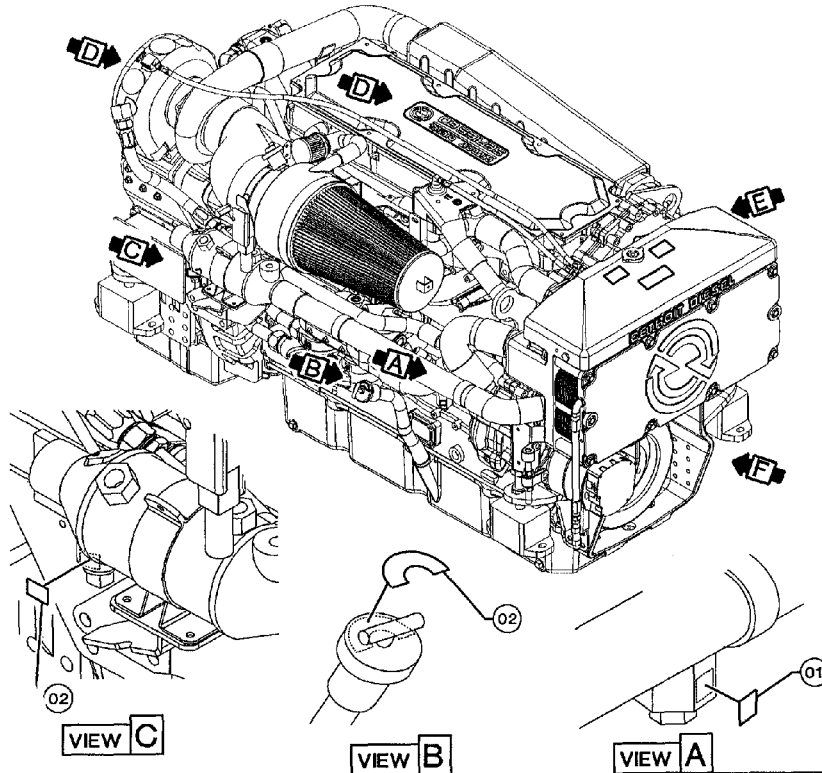
SHEET:

1 OF 1

PARTS LIST DATE: 10/01/99
REV. DATE: X
DRAWN DATE: 02/04/00
DRAWN BY: T. CIESLA



PLT NA & LABELS PLEASURE CRAFT MARINE S60



GROUP: 14B08 NUMBER: 6017 SHEET: 1 OF 2

PART NUMBER	DESCRIPTION	QTY.
01	23509873 ZINC HERE	02
02	23524652 LABEL OIL	01

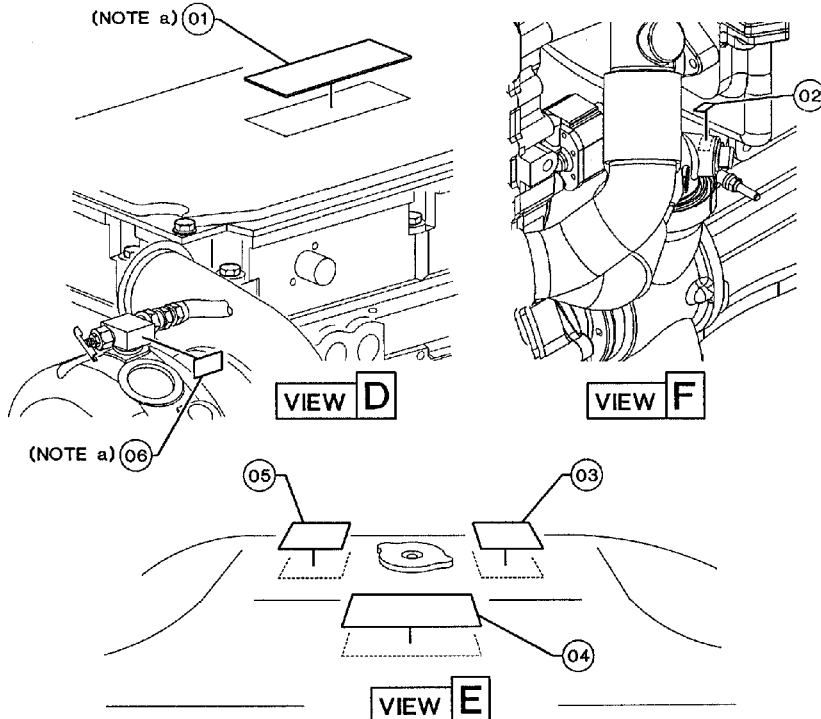
NOTE

SEE SHEET 2 FOR
VIEWS D, E & F

PARTS LIST DATE:
10/21/99
REV. DATE:
12/17/99 TC
DRAWN DATE:
08/03/99
DRAWN BY:
JJ/T.CIESLA



PLT NA & LABELS PLEASURE CRAFT MARINE S60



GROUP: 14B08 NUMBER: 6017 SHEET: 2 OF 2

PART NUMBER	DESCRIPTION	QTY.
01	23505110 PLATE	01
02	23509873 ZINC HERE	01
03	23509674 CAUTION	01
04	23523116 POWER COOL	01
05	23514156 COOLANT NOTICE	01
06	23509872 VENT HERE	01

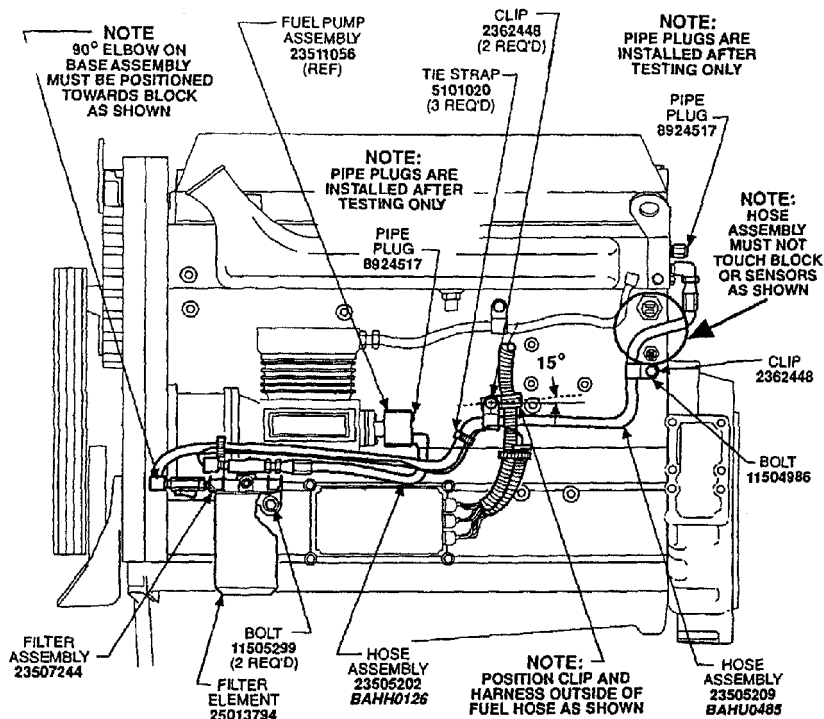
NOTE

(a) INSTALL LABEL
FACING INBOARD

PARTS LIST DATE:
10/21/99
REV. DATE:
12/17/99 TC
DRAWN DATE:
07/28/99
DRAWN BY:
JJ/T. CIESLA



FUEL FILTERS & LINES 60



PART NUMBER	DESCRIPTION	QTY.
01	X	01
02	X	01
03	X	01
04	X	01
05	X	01
06	X	01
07	X	01
08	X	01
09	X	01
10	X	01
11	X	01
12	X	01
13	X	01
14	X	01
15	X	01
16	X	01
17	X	01
18	X	01
19	X	01
20	X	01

PARTS LIST DATE:
9-13-93
REV. DATE:
11-12-93
DRAWN DATE:
8-6-93
DRAWN BY:
TAYLOR



GROUP:

6M9

NUMBER:

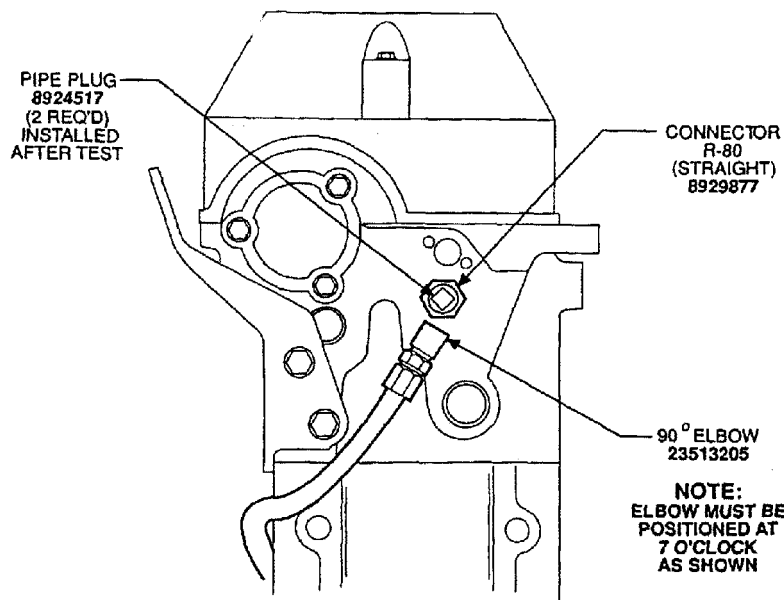
6029

SHEET:

1 OF 2

FUEL FILTERS & LINES 60

REAR VIEW OF ENGINE



PART NUMBER	DESCRIPTION	QTY.
01	X	01
02	X	01
03	X	01
04	X	01
05	X	01
06	X	01
07	X	01
08	X	01
09	X	01
10	X	01
11	X	01
12	X	01
13	X	01
14	X	01
15	X	01
16	X	01
17	X	01
18	X	01
19	X	01
20	X	01

PARTS LIST DATE:
9-13-93
REV. DATE:
11-12-93
DRAWN DATE:
8-6-93
DRAWN BY:
TAYLOR



GROUP:

6M9

NUMBER:

6029

SHEET:

2 OF 2

SECTION 4

SUPPLEMENTAL PARTS DATA FOR DIESEL ENGINE (DETROIT DIESEL)

Heavy Duty Parts Catalog of Systems,
Replacement Parts, and Accessories



KBI®
STARTING FLUID SYSTEMS

KBI - A Leader In The Industry

The only product that KBI manufactures is diesel engine starting fluid injection systems . . . and they do it right! Years of ongoing cold room and field experience worldwide, with every size of diesel engine in the widest range of applications, have given KBI engineers a wealth of knowledge about diesel engine cold starting problems -- and their solutions! From its inception to the present, KBI has offered a complete customized service to engine and equipment manufacturers and users that is just not available elsewhere.

KBI is generally recognized as the technical leader in the highly specialized field of safe and effective diesel engine starting fluid injection systems.

Customer Service

Undoubtedly, the most underlying factor accounting for KBI's successful growth over the last 20 years, has been its responsiveness to customers' needs. The simple fact of taking a customer's problem and developing/adapting the products or services to resolve the problem is basic, but it has and will continue to be, KBI's approach to enhancing its products and maintaining its leadership in the industry.

KBI's customer service can be reached Monday through Friday between 8:00 a.m. and 5:00 p.m. (CST) at the following numbers:

Toll free: (800) 527-8278
Phone: (847) 658-8561
Fax: (847) 658-9280

Cold Starting -- The Solutions



In the early 1970's, KBI developed and introduced DIESEL START, a measured shot, metered flow, operator controlled high pressure fluid starting system. With a DIESEL START System, a chambered valve controls the quantity of starting fluid injected with each activation while an orifice in the nozzle restricts the rate of flow to a safe, effective rate. Operation of a DIESEL START, measured shot metered flow system requires an operator to press and release an electric push button switch or pull and release a control cable while an engine is being cranked. With the electric systems, a temperature sensitive switch may be installed (a KBI Thermo-Guard), which makes the fluid starting system inoperative on a warm engine, preventing potentially damag-

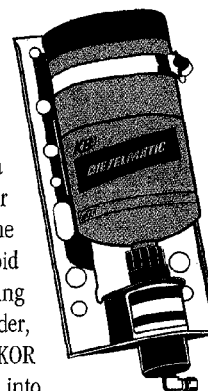
ing injection of starting fluid. Additional shots of starting fluid can be safely injected immediately after cranking to eliminate white smoke and get an engine running on all cylinders.

Major advantages of the KBI DIESEL START Measured Shot Metered Flow System include:

- * Safe, effective starting to temperatures of 0°F (-18°C), and lower.
- * Simple, one man operation from the cab.
- * Controlled metered flow which prevents ether lockup or over speeding of a cold engine.

KBI DIESELMATIC SYSTEMS

More recently, KBI developed and introduced the DIESELMATIC System, a totally automatic fluid starting system which revolutionizes the state-of-the-art. The DIESELMATIC System is wired to the cranking circuit and is controlled by a precision engine temperature sensor (ETS), switch. When the operator turns the starter key under cold conditions, a solenoid valve opens automatically, allowing starting fluid to flow out of a pressurized cylinder, through the exclusive patented BLOCKOR (flow restricting vaporizing orifice), and into the engine air intake. A reservoir is built into the valve to maintain a flow of starting fluid for several seconds after the engine starts, to prevent the just started engine from faltering.



Major advantages of the automatic KBI DIESELMATIC System include:

- * Simplified starting instructions -- simply turn the key, regardless of temperature.
- * Functions only when needed -- The Engine Temperature Sensor (ETS), prevents the DIESELMATIC System from functioning when starting a warm engine.
- * Impossible to abuse -- there is no way for an operator to inject starting fluid into a warm engine.
- * Extended cranking motor and battery life.
- * Effective to temperatures of -30°F and colder.

Check out KBI's web site at www.koldban.com

KBI KOLD BAN INTERNATIONAL, LTD., 8390 PINGREE ROAD, LAKE IN THE HILLS, IL 60102-9637 U.S.A.,
(800) 527-8278, (847) 658-8561, Fax (847) 658-9280, www.koldban.com

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DIESELMATIC EC	2
"Ready-Mount" Truck Systems	2
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NOTES:

KBI, DIESELSTART, DIESELMATIC, BLOCKOR, and KOMPAC are registered Trademarks of Kold Ban International, Ltd. KBI was established in the late 1960's and its only business is the manufacture, research, and development of starting aids for cold diesel engines. KBI products are O.E.M. approved and installed by most engine and equipment manufacturers.

KBI KOLD BAN INTERNATIONAL, LTD., 8390 PINGREE ROAD, LAKE IN THE HILLS, IL 60102-9637 U.S.A.,
 (800)527-8278, (847)658-8561, Fax (847)658-9280, www.koldban.com

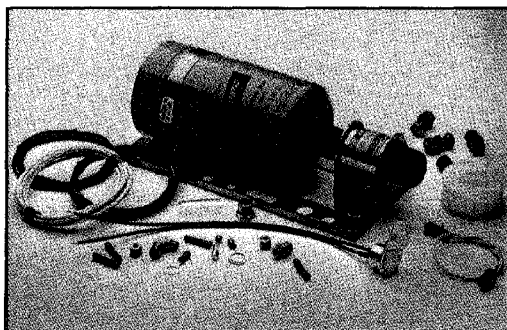
How The KBI DIESELMATIC System Works:

KBI's DIESELMATIC System is a fully automatic Engine Starting Fluid System designed to spray a controlled amount of starting fluid into the air intake system of an engine during and immediately after cranking.

The System's engine temperature sensor (ETS), switch determines when the DIESELMATIC system should function. When needed, the Solenoid Valve is activated automatically during engine cranking, then starting fluid is released from the pressurized Fluid Cylinder, flows through the Valve, through the patented BLOCKOR vaporizing fitting, through the nylon tubing, and out of an Injector Nozzle located in the engine's air intake system. A reservoir in the Valve maintains a flow of starting fluid after cranking to prevent the just started engine from faltering or dying.

NOTE: At very cold temperatures, additional cranking cycles may be necessary because the engine will start and then die after running a short period of time. To eliminate the need for this type of additional cranking cycle, an accessory (KBI Arctic Kit assembly), may be purchased and installed. Contact KBI for further information about the Arctic Kit assembly.

Some diesel engine injection systems are equipped with mechanisms to advance timing or inject extra fuel for cold weather starting. Check your engine manual to determine the proper procedure and throttle setting for cold weather starting of your engine.



DIESELMATIC Systems

Complete deluxe Ready-Mount Style Systems. Kits are pre-assembled and contain all the necessary mounting hardware, Starting Fluid Cylinder (unless otherwise noted), Wire, Fuse, and Terminals required for retrofit installation.

12-Volt Systems

- 62034 Engine size 3.70 - 12.13 Liters (226-740 CID),
Without Starting Fluid Cylinder
- 62035 Engine size 12.14 - 19.67 Liters (741-1200 CID)*,
Without Starting Fluid Cylinder
- 62048 Engine size 0.82 - 3.69 Liters (50-225 CID)
- 62008 Engine size 3.70 - 12.13 Liters (226-740 CID)
- 62019 Engine size 12.14 - 19.67 Liters (741-1200 CID)*

24-Volt Systems

- 64007 Engine size 3.7 - 12.13 Liters (226-740 CID),
Without Starting Fluid Cylinder
- 64018 Engine size 12.14 - 19.67 Liters (741-1200 CID)*,
Without Starting Fluid Cylinder
- 64048 Engine size 0.82 - 3.69 Liters (50-225 CID)
- 64006 Engine size 3.7 - 12.13 Liters (226-740 CID)
- 64017 Engine size 12.14 - 19.67 Liters (741-1200 CID)*

* 12.14 - 19.67 Liters (741-1200 CID) kits now contain a Straight Side Orifice Nozzle.



KOMPAC DIESELMATIC Systems

Complete deluxe Ready-Mount Style, Mini-Sized Systems. Kits are pre-assembled and contain all the necessary mounting hardware, Starting Fluid Cylinder (unless otherwise noted), Wire, Fuse, and Terminals required for retrofit installation.

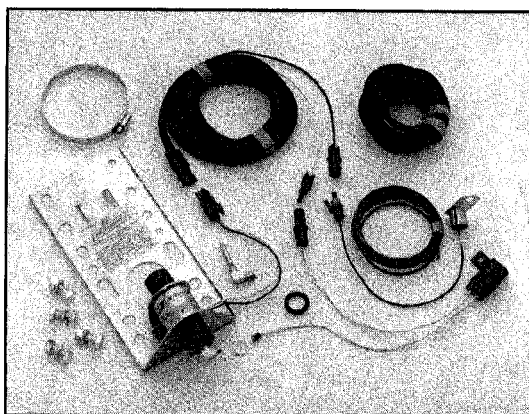
12-Volt Systems

- 22002 Engine size 0.82 - 3.69 Liters (50-225 CID),
Without Starting Fluid Cylinder
- 22003 Engine size 0.82 - 3.69 Liters (50-225 CID)
- 22008 Engine size 3.7 - 12.13 Liters (226-740 CID),
Without Starting Fluid Cylinder
- 22009 Engine size 3.7 - 12.13 Liters (226-740 CID)
- 22017 Engine size 12.14 - 19.67 Liters (741-1200 CID)*

24-Volt Systems

- 24002 Engine size 0.82 - 3.69 Liters (50-225 CID)
- 24010 Engine size 3.7 - 12.13 Liters (226-740 CID)
- 24011 Engine size 3.7 - 12.13 Liters (226-740 CID),
Without Starting Fluid Cylinder
- 24018 Engine size 12.14 - 19.67 Liters (741-1200 CID)*

For engines smaller than 0.82 Liters (50 CID) or larger than 19.67 Liters (1200 CID), special applications, including custom-designed DIESELMATIC and DIESEL START Systems, other voltages, and unique engine applications, contact the KBI Sales Engineering Department directly at (800)527-8278, or Fax (847)658-9280.



"Engineered Kit" Systems

"Engineered Kit" Systems are Premium retrofit Systems (without Starting Fluid Cylinder), with an installation time of approximately 30 minutes. Kits are fully engineered with electrical components equipped with OEM quality weatherproof connectors and a universal wiring harness to accommodate all installations (no additional wiring required). SAE-level integrity of electrical circuit.

12-Volt DIESELMATIC Systems

62100 Engine size 12.13 Liters (740 CID) and under, ETS 40°F (4°C)
 62114 Engine size 12.13 Liters (740 CID) and under, ETS 17°F (-8.3°C)
 62235 Engine size 12.14 Liters (741 CID) and over, ETS 40°F (4°C)

24-Volt DIESELMATIC Systems

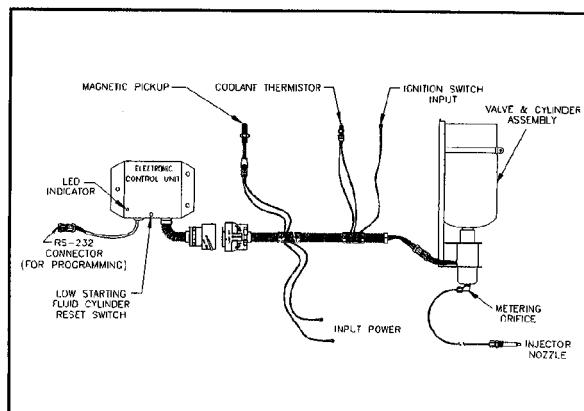
64057 Engine size 12.13 Liters (740 CID) and under, ETS 40°F (4°C)
 64235 Engine size 12.14 Liters (741 CID) and over, ETS 40°F (4°C)

12-Volt KOMPAC DIESELMATIC System

22045 Engine size 12.13 Liters (740 CID) and under, ETS 40°F (4°C)

24-Volt KOMPAC DIESELMATIC System

24026 Engine size 12.13 Liters (740 CID) and under, ETS 40°F (4°C)



DIESELMATIC EC

DIESELMATIC EC is a fully automatic starting fluid system that incorporates a microprocessor programmed to affect a PERFECT engine start every time regardless of the ambient temperature.

The microprocessor receives inputs from the engine sensors and activates the DIESELMATIC to inject a precisely controlled amount of vaporized starting fluid into the engine's air intake system to initiate the optimal engine start and a smooth engine warm-up while eliminating the white smoke and other undesirable characteristics usually associated with a cold start.

The DIESELMATIC EC Will:

1. Decrease initial cranking time to "First Fire".
2. Eliminate additional cranking cycles on cold soaked engines.
3. Lessen engine vibration due to uneven combustion chamber firing by monitoring the entire "Warm-Up" period and providing starting fluid until the engine is running smoothly.
4. Help prevent dilution of engine lube oil from unburnt fuel by reducing the time combustion chambers are not firing.
5. Reduce exhaust "White Smoke" by shortening the time combustion chambers are not firing.
6. Indicate when the Starting Fluid Cylinder is low by activating a "Low Cylinder" light.
7. Totally eliminate operator error or abuse through fully-automatic controls that cannot be overridden.

Contact KBI for specific applications.

How The KBI DIESEL START System Works:

With a KBI DIESEL START System installed, the operator presses and releases the KBI System Button on the vehicle dashboard. Pressing this button, activates the system and releases starting fluid from the high-pressure Fluid Cylinder to the Valve. The Valve then delivers this precisely measured shot to the Atomizer. The engine-matched Atomizer meters this shot as a spray mist at the proper rate for the air intake of the specific engine, assuring a quick, safe

start. The Thermo-Guard engine temperature sensing unit "locks out" the system when the engine reaches normal operating temperature, thus preventing operator engine abuse.

For engines over 18.03 liters (1100 CID), a KBI DIESELMATIC System is recommended.

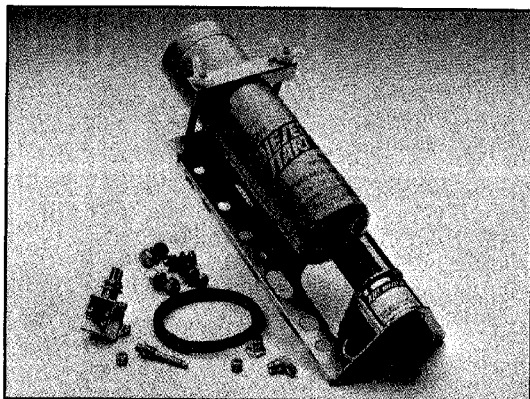
"Ready-Mount" Truck Systems

Complete Deluxe 12-Volt Systems with electrical accessories for all size engines up to 18.03 Liters (1100 CID). "Ready-Mount" Truck System Kits contain: Single assembly consisting of Uni-Bracket valve pre-assembled with Starting Fluid Cylinder (unless otherwise noted), Heavy Duty Cylinder Clamp, Set of three Atomizers and Adapter Bushing, 60" Nylon Atomizer Tubing, Electric Switch, Surface-Mount Thermo-Guard, Wiring and Connector Kit, Mounting Nuts and Bolts, Panel Label, and Installation Instructions.

12-Volt Systems

43403 Truck Ready-Mount
 43511 Truck Ready-Mount, Without Starting Fluid Cylinder





"Ready-Mount" General Purpose Systems

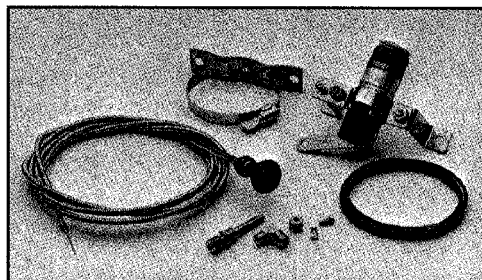
"Ready-Mount" General Purpose Systems for all on-or-off Road Industrial, Construction, and Agricultural Equipment. "Ready-Mount" General Purpose System Kits contain: Single assembly consisting of Uni-Bracket Valve (12 or 24 Volt), pre-assembled with Starting Fluid Cylinder (unless otherwise noted), Heavy Duty Cylinder Clamp, Atomizer and Adapter Bushing, 60" Nylon Atomizer Tubing, Electrical Switch, Mounting Nuts and Bolts, Panel Label, and Installation Instructions.

12-Volt Systems

- 62094 Engine size 1.64 - 3.28 Liters (100 - 200 CID)
- 62194 Engine size 3.29 - 8.19 Liters (201 - 500 CID)
- 62213 Engine size 3.29 - 8.19 Liters (201 - 500 CID),
Without Starting Fluid Cylinder
- 62483 Engine size 8.21 - 18.03 Liters (501 - 1100 CID),
Without Starting Fluid Cylinder
- 62494 Engine size 8.21 - 18.03 Liters (501 - 1100 CID)

24-Volt Systems

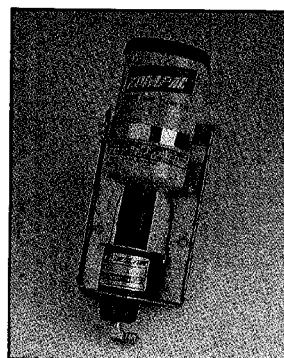
- 64094 Engine size 1.64 - 3.28 Liters (100 - 200 CID)
- 64180 Engine size 3.29 - 8.19 Liters (201 - 500 CID),
Without Starting Fluid Cylinder
- 64194 Engine size 3.29 - 8.19 Liters (201 - 500 CID)
- 64481 Engine size 8.21 - 18.03 Liters (501 - 1100 CID),
Without Starting Fluid Cylinder
- 64494 Engine size 8.21 - 18.03 Liters (501 - 1100 CID)



Economy Cable Control Systems

Economy Cable-Control Systems Contain: Cable-Actuated Valve, Cylinder Clamp, Matched Atomizer, 48" Nylon Atomizer Tubing, Control Cable, Panel Label, and Installation Instructions. Fluid Cylinder not included in Economy Kits.

- 80152 Engine size 1.64 - 3.28 Liters (100-200 CID)
- 80253 Engine size 3.29 - 8.19 Liters (201-500 CID)
- 80554 Engine size 8.21 - 18.03 Liters (501-1100 CID)

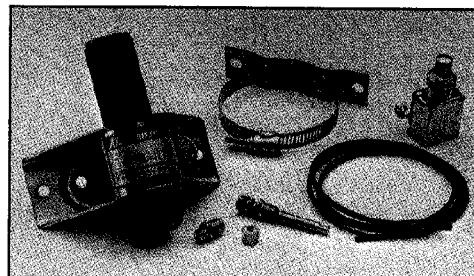


MINI-START Systems

The KBI MINI-START System is a unique operator controlled Starting Fluid System designed for small displacement diesel engines (under 8.19 Liters (500 CID), with 1, 2, 3 or 4 cylinder configuration), that are very sensitive to the volume of starting fluid used during the cold start process. MINI-START is particularly adaptable to equipment where a parasitic load is directly connected to the engine. Mini-Start System Kits are pre-assembled and contain all the necessary mounting hardware, Starting Fluid Cylinder, wire, fuse and terminals required for retrofit installation.

12-Volt Systems

- 22101 Engine size 3.28 Liters (200 CID) and under
- 22102 Engine size 3.29 - 8.19 Liters (201-500 CID)



Economy Systems

Economy Electrical Systems contain: Solenoid Actuated Valve, Matched Atomizer, Cylinder Clamp, 48" Nylon Atomizer Tubing, Electric Switch, Panel Label, and Installation Instructions. Fluid Cylinder not included in Economy Kits.

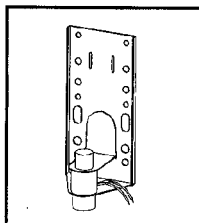
12-Volt Systems

- 73105 Engine size 1.64 - 3.28 Liters (100-200 CID)
- 73110 Engine size 3.29 - 8.19 Liters (201-500 CID)
- 73400 Engine size 8.21 - 18.03 Liters (501-1100 CID)

24-Volt Systems

- 75105 Engine size 1.64 - 3.28 Liters (100-200 CID)
- 75110 Engine size 3.29 - 8.19 Liters (201-500 CID)
- 75400 Engine size 8.21 - 18.03 Liters (501-1100 CID)

Valve Assemblies



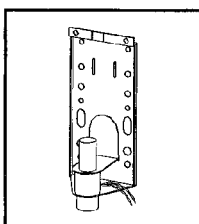
DIESELMATIC Valve Assemblies

12-Volt Valves

412000 Engine size 12.13 Liters (740 CID) and under
412600 Engine size 12.14 Liters (741 CID) and over

24-Volt Valves

424000 Engine size 12.13 Liters (740 CID) and under
424600 Engine size 12.14 Liters (741 CID) and over



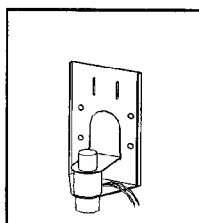
"Ready-Mount" Valve Assemblies

12-Volt Valves

312100 Engine size 1.64 - 3.28 Liters (100-200 CID)
312300 Engine size 3.29 - 8.19 Liters (201-500 CID)
312500 Engine size 8.21 - 18.03 Liters (501-1100 CID)

24-Volt Valves

324100 Engine size 1.64 - 3.28 Liters (100-200 CID)
324300 Engine size 3.29 - 8.19 Liters (201-500 CID)
324500 Engine size 8.21 - 18.03 Liters (501-1100 CID)



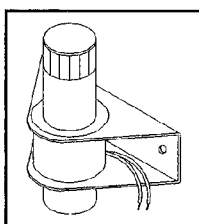
KOMPAC Valve Assemblies

12-Volt Valves

212000 Engine size 12.13 Liters (740 CID) and under
212600 Engine size 12.14 Liters (741 CID) and over

24-Volt Valves

224000 Engine size 12.13 Liters (740 CID) and under
224600 Engine size 12.14 Liters (741 CID) and over



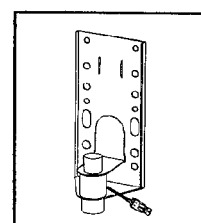
Economy System Valve Assemblies

12-Volt Valves

42000 Engine size 1.64 - 3.28 Liters (100-200 CID)
42100 Engine size 3.29 - 8.19 Liters (201-500 CID)
42500 Engine size 8.21 - 18.03 Liters (501-1100 CID)

24-Volt Valves

44000 Engine size 1.64 - 3.28 Liters (100-200 CID)
44100 Engine size 3.29 - 8.19 Liters (201-500 CID)
44500 Engine size 8.21 - 18.03 Liters (501-1100 CID)



"Engineered Kit" Valve Assemblies

12-Volt DIESELMATIC Valves

412021 Engine size 12.13 Liters (740 CID) and under
412621 Engine size 12.14 Liters (741 CID) and over

24-Volt DIESELMATIC Valves

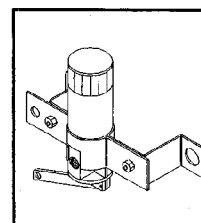
424013 Engine size 12.13 Liters (740 CID) and under
424621 Engine size 12.14 Liters (741 CID) and over

12-Volt KOMPAC DIESELMATIC Valves

212015 Engine size 12.13 Liters (740 CID) and under

24-Volt KOMPAC DIESELMATIC Valves

224005 Engine size 12.13 Liters (740 CID) and under



Cable Control Valve Assemblies

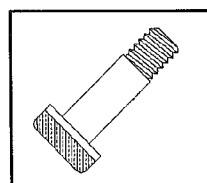
21149 Engine size 1.64 - 3.28 Liters (100-200 CID)
21249 Engine size 3.29 - 8.19 Liters (201-500 CID)
21549 Engine size 8.21 - 18.03 Liters (501-1100 CID)

BLOCKOR Fittings

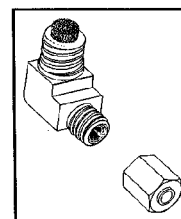
NOTE: BLOCKOR's are used and can only be used on all KBI DIESELMATIC Systems! The KBI BLOCKOR Fitting is the heart of a DIESELMATIC System. A BLOCKOR controls the flow rate of starting fluid being injected into the engine and is also responsible for vaporizing the fluid in the most efficient manner possible. The BLOCKOR is the left hand threaded brass elbow fitting located at the bottom of every DIESELMATIC Valve Assembly. Refer to the KBI Installation - Operation Manual, KBI Form Number 130533, for more detailed information.

KBI has created a new BLOCKOR fitting that incorporates a threaded filter design as opposed to the O-Ring filter design used in the older style BLOCKOR fitting. This threaded design will eliminate the damage caused to the filter and therefore the metering orifice, from vibration and prolonged exposure to the elements. The new design also incorporates a tubular shaft that has the filter element mounted at one end, creating an annular chamber inside the fitting which will accumulate and trap the particles normally found to have clogged the older filter design. When servicing is required, the new filter can be removed by gently unscrewing the filter unit with a pliers.

- KBI will supersede all BLOCKOR Fittings with the new Patented filter design.
- This new design will greatly enhance the life expectancy of the filter and may actually eliminate the need to service the assembly.
- New BLOCKOR fittings can be identified by the 250XXX part number designation. The old designs were designated as 240XXX part numbers.
- The new BLOCKOR fittings can also be identified by the additional Patent Number stamping of 5,474,678 that can be found on every fitting.



301876 Replacement BLOCKOR Filter, for use in new style BLOCKOR 250XXX Series.



250002 Engine size 29.51 - 39.33 Liters (1801 - 2400 CID)
250003 Engine size 19.68 - 29.5 Liters (1201 - 1800 CID)
250005 Engine size 3.7 - 19.67 Liters (226 - 1200 CID)
250007 Reduced flow rate
250009 Engine size 0.82 - 3.69 Liters (50 - 225 CID)

Starting Fluid Cylinders

- NOTE:**
- 1) Replace Valve Gasket in top of valve each time the Starting Fluid Cylinder is removed, KBI part number 300012 (see page 9). Inside the protective cap on all replacement Starting Fluid Cylinders, is a replacement Valve Gasket. **BE SURE ONLY ONE VALVE GASKET IS USED.** Spread a light film of clean oil on new Valve Gasket when installing.
 - 2) All KBI Starting Fluid Cylinders contain a Dirt & Moisture Seal and Rust Inhibitor End Cap.
 - 3) All KBI Starting Fluid Cylinders are the industry standard 1 inch threads.

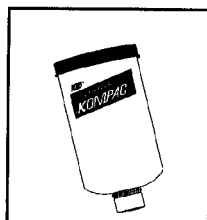


DIESELMATIC Cylinders - 020020

21 Ounces - Premium Engine Starting Fluid

20020 Twelve Pack of 020020

20030 Single Pack of 020020

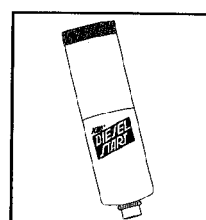


KOMPAC Cylinders - 020041

8 Ounces - Premium Engine Starting Fluid

20041 Twelve Pack of 020041

20051 Single Pack of 020041



DIESEL START Cylinders - 020011

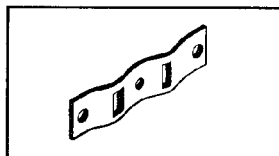
18 Ounces - Premium Engine Starting Fluid

20011 Twelve Pack of 020011

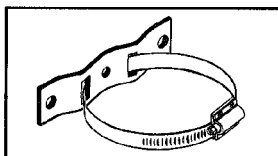
20021 Single Pack of 020011

See Page 10 for Details on KBI's Cylinder Recycling Program

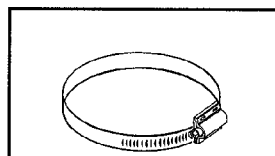
Cylinder Clamps



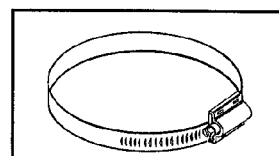
300014 DIESEL START Cylinder Cradle



300179 DIESEL START Clamp Assembly, 3" diameter



301009 KOMPAC and DIESEL START Cylinder Clamp, 3" diameter

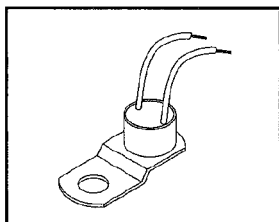


301082 DIESELMATIC Heavy-Duty Cylinder Clamp, 4" diameter

Engine Temperature Sensors (ETS) & Thermo-Guards

ETS—For DIESELMATIC Systems

Thermo-Guard—For DIESEL START Systems



Surface Mount

300029 Thermo-Guard

300329 Grounded Thermo-Guard

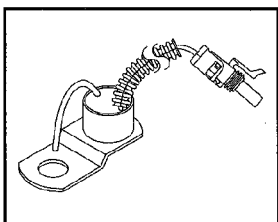
300731 ETS 55°F (13°C)

300789 ETS 40°F (4°C)

300803 ETS Arctic 23°F (-5°C)

301062 ETS Hermetically Sealed Arctic Sensor 14°F (-10°C)

301066 ETS 32°F (0°C)

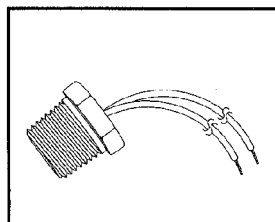


Surface Mount

"Engineered Kit"

301417 ETS 40°F (4°C), with Weatherpack Connector

301687 ETS 17°F (-8.3°C), with Weatherpack Connector

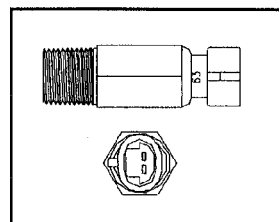


Screw-In (½ Inch NPT)

300201 Thermo-Guard

300800 ETS 55°F (13°C)

300849 ETS 40°F (4°C)



Snap Action with
Integral Connector

Mates with Packard Metri-Pack Connector #12040753. Available Threads:

3/8 NPT

1/4 NPT

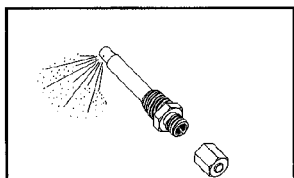
M12

M10

Contact KBI for specific temperature settings.

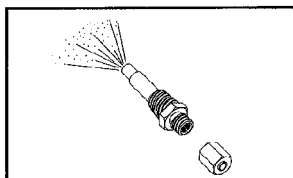
Atomizers

Atomizers are used in DIESEL START Systems Only
U.S.A. Standard Atomizers' Threads Are - 1/8 NPT



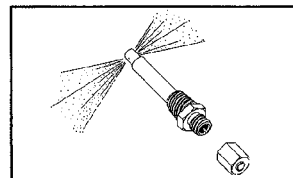
Straight Side Orifices

220451 Engine size 3.29 - 8.19 Liters (201-500 CID)
220074 Engine size 8.21 - 18.03 Liters (501-1100 CID)
220380 Engine size 18.04 - 27.86 Liters (1101-1700 CID)
220211 Truck Ready-Mount, code yellow
220212 Truck Ready-Mount, code black



Straight End Orifices

220336 Engine size 3.29 - 8.19 Liters (201-500 CID)
220464 Engine size 8.21 - 18.03 Liters (501-1100 CID)
220149 Engine size 18.04 - 27.86 Liters (1101-1700 CID)



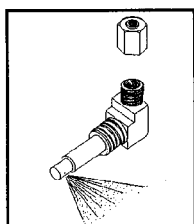
Straight 180o Orifices

220441 Engine size 3.29 - 8.19 Liters (201-500 CID)
220282 Engine size 8.21 - 18.03 Liters (501-1100 CID)
220097 Engine size 18.04 - 27.86 Liters (1101-1700 CID)
220210 Truck Ready-Mount, code white

Injector Nozzles

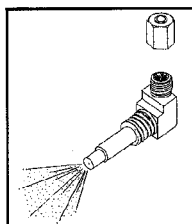
Injector Nozzles are used in DIESELMATIC Systems Only
U.S.A. Standard Injector Nozzles' Threads are 1/8 NPT

- NOTE:**
- 1) Use the correct replacement Injector Nozzle to insure the proper distribution of starting fluid vapors to all your engine's cylinders.
 - 2) Whenever possible the straight brass fitting "Injector Nozzle" supplied with your DIESELMATIC system should be used. An elbow fitting substituted in place of the straight fitting will interfere with proper vaporization of starting fluid. If an elbow fitting installation is necessary, use KBI Special Injector Nozzle P/N 220424 (end orifice) or P/N 220475 (side orifice) for engines over 12.14 Liters (741 CID); for engines under 12.13 Liters (740 CID) use KBI P/N 220401 (end orifice) or P/N 220375 (side orifice).



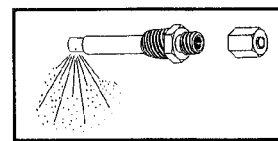
90o Elbow Side Orifices

220375 Engine size 12.13 Liters (740 CID) and under
220475 Engine size 12.14 Liters (741 CID) and over



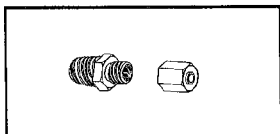
90o Elbow End Orifices

220401 Engine size 12.13 Liters (740 CID) and under
220424 Engine size 12.14 Liters (741 CID) and over



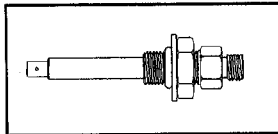
Straight Side Orifices

220315 Engine size 12.13 Liters (740 CID) and under
220460 Engine size 12.14 Liters (741 CID) and over



DIESELMATIC Straight Fitting

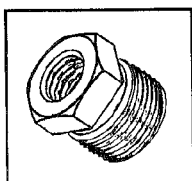
220295 Injector Nozzle



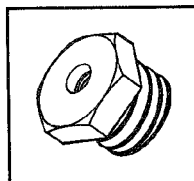
ISO Standard Nozzles and Atomizers

Available - Contact KBI for Application.

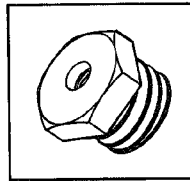
Atomizer/Nozzle Adapter Bushings



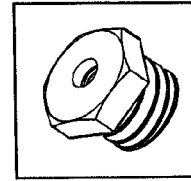
100015 Adapter Bushing
1/8 - 1/4 NPT



300632 Adapter Bushing
1/8 - 7/8 (14 UNF)

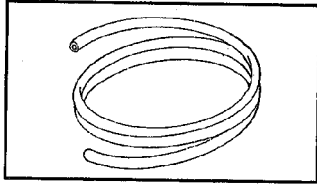


300974 Metric Reducer
1/8 - M22 X 1.5

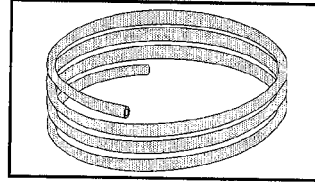


301040 Metric Reducer
1/8 - M20 X 1.5

Tubing

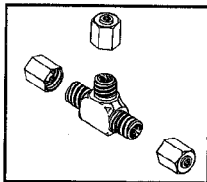


- 100165 Bulk High Temperature Tubing - Per Foot (use with 100166 High Temperature Nut and Sleeve)
300017 Nylon Atomizer Tubing - 48"
300045 Nylon Atomizer Tubing - 60"
300410 Bulk Nylon Atomizer Tubing - Per Foot

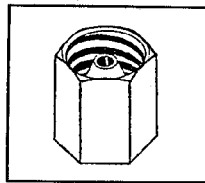


- 100260 Protective Sheathing for Tubing - Per Foot
301447 Protective Sheathing for Tubing - 5 Feet

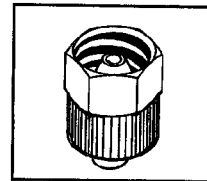
Valve/Tubing Fittings



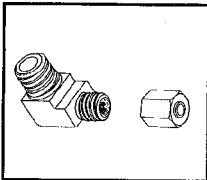
- 100009 Atomizer Tubing "T" Fittings with Nuts and Sleeves



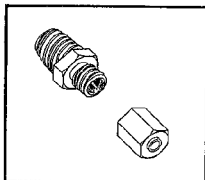
- 10010 Nut and Sleeve



- 100166 High Temperature Nut and Sleeve, for use with 100165 Tubing or Military Spec. Tubing

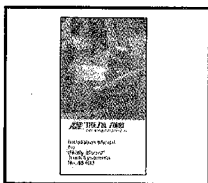


- 300040 Valve Fitting, 90° Elbow with Nut and Sleeve



- 300814 Valve Fitting, Straight with Nut and Sleeve

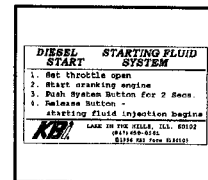
Instructions and Dash Labels



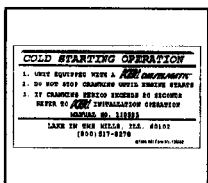
- 130089 "Ready-Mount" Instructions



- 130090 Economy DIESEL START Instruction Book



- 130109 DIESEL START Dash Label



- 130492 DIESELMATIC Dash Label

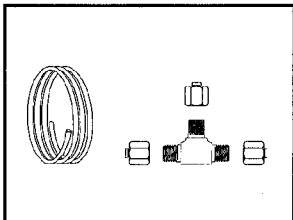


- 130497 DIESELMATIC Air Filter Label

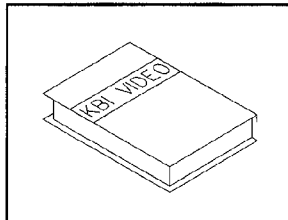


- 130533 DIESELMATIC Instruction Book

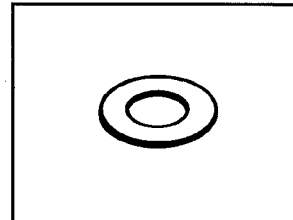
Miscellaneous Items



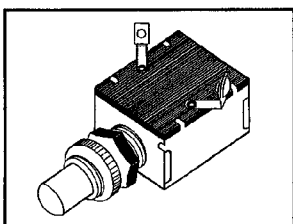
29999 Universal Dual Manifold Adaptor Kit



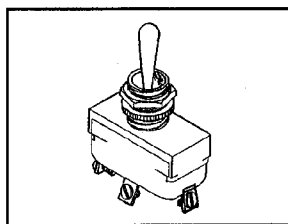
130496 1/2" VHS video, 20 minutes explaining unique features, installation, and servicing techniques of the DIESELMATIC



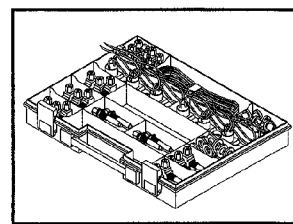
300012 Valve Gasket for all Cylinders



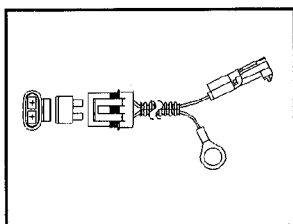
300027 Push Button Switch for Diesel Start Systems



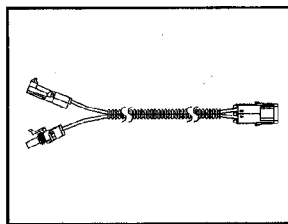
300787 Arctic Kit for DIESELMATIC Systems (includes dash label and wiring schematic)



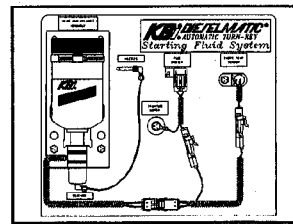
301341 DIESELMATIC Replacement Parts Kit contains:
3 (220315), 25 (100010), 2 (130533), 3 (220375),
3 (220460), 3 (220475), 5 (240005), 3 (240007),
3 (240009), 30 (300012), 5 (300045), 3 (300731),
3 (300789), 10 (300813) *



301567 Fuse Harness, "Engineered Kit"



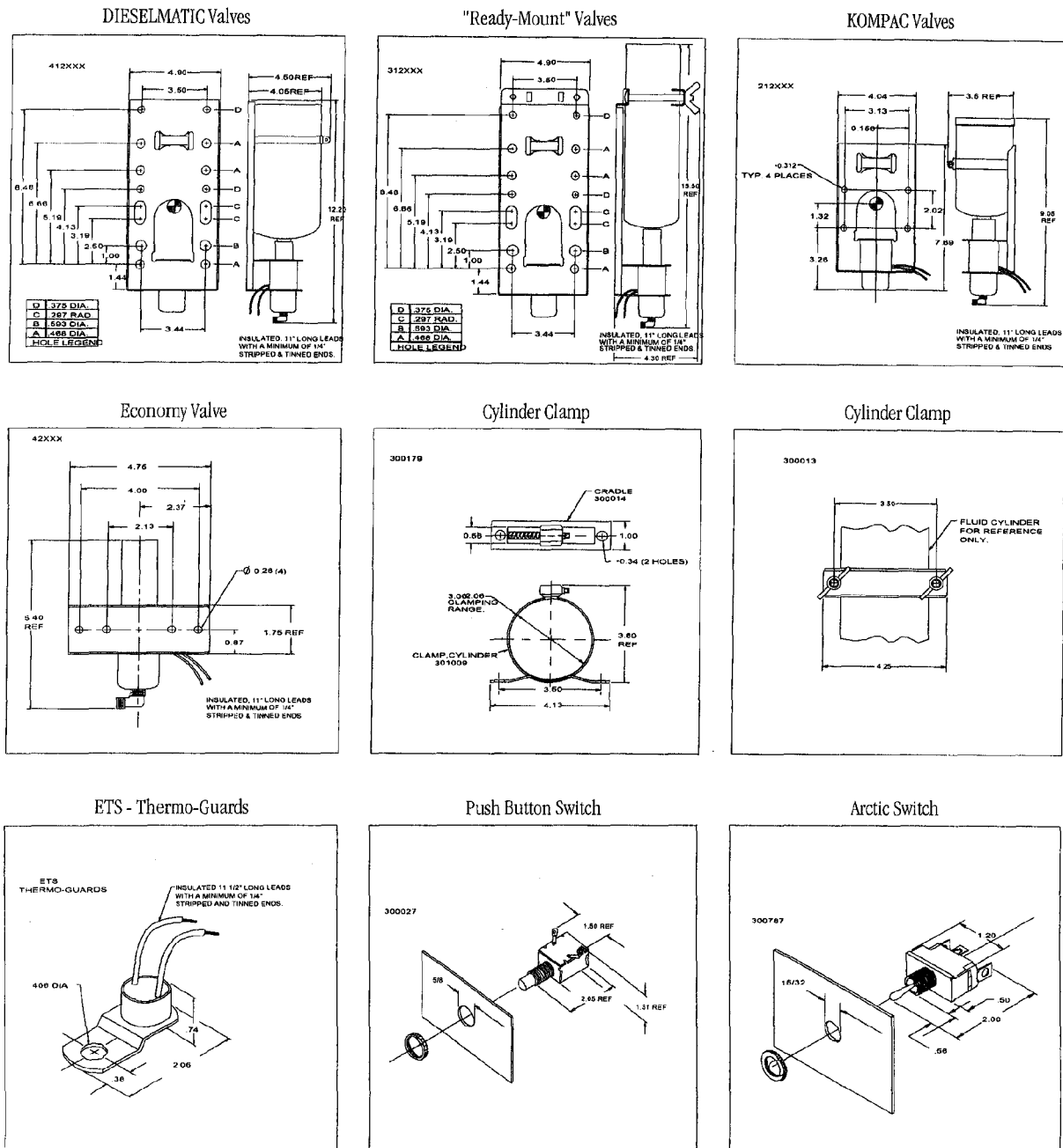
301568 Wiring Harness, "Engineered Kit"



301919 Display Board of DIESELMATIC System

* NOTE: Numbers in parenthesis are standard KBI part numbers

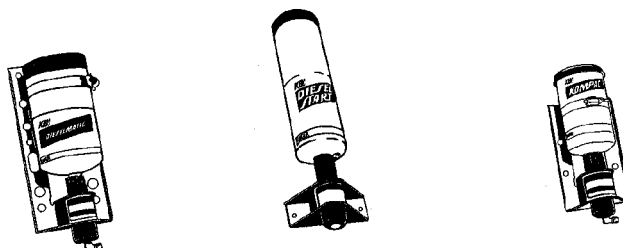
Mounting Dimensions



NOTE:  Represents the center of mass.

DON'T KNOW WHAT TO DO WITH YOUR USED STARTING FLUID CYLINDERS?

Use the **KBI** Cylinder Recycling  Program!



KBi was the first and only to develop a fully Automatic Starting Fluid (Ether), System - the DIESELMATIC. Now KBi is the first and only to offer its' current and future customers a Recycling Program for the empty/used ether bottles that are used on all Ether Start Systems.

Cylinder Recycling:

With so much emphasis on the environment and the possible impact that hazardous material may have on it, KBi has taken the lead in providing their current and future customers with a quick and effective means for recycling their used high pressure starting fluid cylinders. This program was developed to help KBi's customers alleviate any concerns on the proper disposal of Starting Fluid (ether), Cylinders. All of the proper documents and procedures needed are provided by KBi.

Participation:

Call KBi at (800) 527-8278, for a Return Authorization Number. KBi will then provide a packet of labels and documents for the shipment of the "USED" Starting Fluid Cylinders. If at all possible, use the same case cartons in which the new Starting Fluid Cylinders were originally shipped. No Starting Fluid Cylinders will be accepted by KBi without a Return Authorization Number.

Recycling Costs:

There are no processing fees assessed for recycling Starting Fluid Cylinders when an order is placed for an equal number of KBi Brand Starting Fluid Cylinders or a "Proof of Purchase" (invoice showing purchase of an equal number of KBi Brand Starting Fluid Cylinders), is provided. Without purchasing an equal number of KBi Brand Starting Fluid Cylinders (or "Proof of Purchase"), a recycling charge per cylinder will be assessed. Call KBi at (800) 527-8278 for more information on recycling of Starting Fluid Cylinders. All Starting Fluid Cylinders must be shipped to KBi freight prepaid.

Qualifications:

KBi's Cylinder Recycling Program applies only to DOT39NRC Starting Fluid Cylinders. Competitive brands of Starting Fluid Cylinders will be accepted by KBi for recycling. No other high pressure cylinders, other than Starting Fluid (ether), Cylinders will be accepted by KBi for recycling.

REMEMBER KBi . . . THE LEADER FOR COLD WEATHER STARTING!!!

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Cross Reference of KBI Part Numbers and Catalog Page Number:

Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
20011	5	42000	4	64017	1	100166	7	220380	6	300179	5	301687	5
20020	5	42100	4	64018	1	100260	7	220401	6	300201	5	301876	4
20021	5	42500	4	64048	1	130089	7	220424	6	300329	5	301919	8
20030	5	43403	2	64057	2	130090	7	220441	6	300410	7	312100	4
20041	5	43511	2	64094	3	130109	7	220451	6	300632	6	312300	4
20051	5	44000	4	64180	3	130492	7	220460	6	300731	5	312500	4
21149	4	44100	4	64194	3	130496	8	220464	6	300787	8	324100	4
21249	4	44500	4	64235	2	130497	7	220475	6	300789	5	324300	4
21549	4	62008	1	64481	3	130533	7	224000	4	300800	5	324500	4
22002	1	62019	1	64494	3	212000	4	224005	4	300803	5	412000	4
22003	1	62034	1	73105	3	212015	4	224600	4	300814	7	412021	4
22008	1	62035	1	73110	3	212600	4	250002	4	300849	5	412600	4
22009	1	62048	1	73400	3	220074	6	250003	4	300974	6	412621	4
22017	1	62094	3	75105	3	220097	6	250005	4	301009	5	424000	4
22045	2	62100	2	75110	3	220149	6	250007	4	301040	6	424013	4
22101	3	62114	2	75400	3	220210	6	250009	4	301062	5	424600	4
22102	3	62194	3	80152	3	220211	6	300012	8	301066	5	424621	4
24002	1	62213	3	80253	3	220212	6	300014	5	301082	5		
24010	1	62235	2	80554	3	220282	6	300017	7	301341	8		
24011	1	62483	3	100009	7	220295	6	300027	8	301417	5		
24018	1	62494	3	100010	7	220315	6	300029	5	301447	7		
24026	2	64006	1	100015	6	220336	6	300040	7	301567	8		
29999	8	64007	1	100165	7	220375	6	300045	7	301568	8		

Limited Warranty

All products are guaranteed against defects in material and workmanship for one year from date of purchase. The Valve and Engine Temperature Sensor (ETS), Switch are sealed units. If these components do not operate properly, they must be returned to the factory, prepaid, for replacement. If factory inspection determines the product to be defective under the terms of this warranty, it will be replaced without charge.

Failure due to accident, abuse, neglect, improper installation or maintenance, mishandling, and repairs or attempted repairs which have been made by others, are not covered under the terms of this warranty.

Kold Ban International, Ltd., shall not be liable for loss of use of the System or other incidental or consequential costs, expenses, or damages incurred by the purchaser or user.

This warranty does not include labor for repair or replacement, nor does it apply to used fluid cylinders or BLOCKOR fittings, injector nozzles, and atomizers clogged by dirt.

Kold Ban International, Ltd.

8390 Pingree Road

Lake In the Hills, Illinois 60102-9637

KBI'S DIESELMATIC PRODUCTS ARE PROTECTED BY ONE OR MORE OF THE FOLLOWING U.S. PATENT NUMBERS: 4202309, 4326485, 4346683, 5301873, 5095866, 5474678. CANADIAN Patent Number 1,120,352, U.K. PATENT NUMBER 2026096 AND OTHER U.S. AND FOREIGN PATENTS PENDING.

The KBI Cold Room for Unique or New Applications



Technicians monitor and record all specified data.

To aid in the development and testing of fluid starting systems for unique or new applications, KBI offers the industry its own Cold Testing Facilities, where starting tests can be conducted at temperatures as low as -50°F (-46°C). KBI engineers have developed practical fluid starting systems for engines ranging from hand crank 14 CID (229 ml), to engines over 3,000 CID (49 l).

Preparation

Whenever possible, it is recommended that engines or machines be tested with the loads or accessories that affect cold starting in the real world. This may include alternators, hydraulic pumps, automatic transmissions, etcetera.

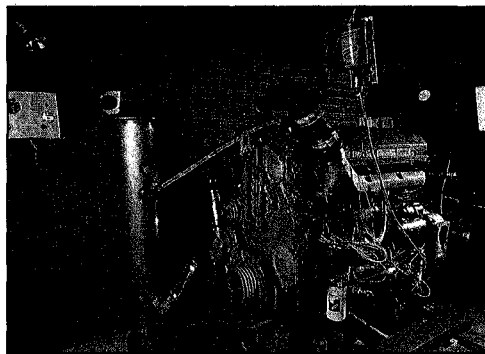
Normal testing procedures include a thorough preparation of the test engine or machine for cold temperature operations, in accordance with the manufacturer's recommendations. This may include draining and refilling of the crankcase, fuel system and coolant. Batteries are selected in accordance with the manufacturer's recommendation or as supplied by the customer. Before engines or machines are moved into the Cold Room, they are started and run at warm temperatures to assure that all components are functioning properly.

Test Procedure

Starting tests are normally conducted at 24 hour intervals to assure thorough cold soaking before each test. Batteries are cold soaked with the engine. Before each test, Cold Room air temperatures and engine fluid temperatures are recorded. Each start is monitored on a recording oscillograph with channels showing starter current draw, engine speed, engine oil pressure, etcetera.

Data is also collected on a data acquisition system. With 30 channel data recording capabilities at a frequency up to 130 microseconds, accurate and complete collection of essential test data is assured. Recorded data may include any combination of temperature measurements, smoke opacity, pressure measurements, DC voltages, RPM's, etcetera. The data acquisition system is "interactive" with eight channel analog output capability, and may be programmed to automatically control items under test.

Data collected during tests is collected on a RAM DISC and may be reviewed on a personal computer screen, printed or permanently recorded on 5 1/4" or 3 1/2" floppy discs. Test data can be sent to remote locations equipped with IBM compatible terminals via modem for off-site evaluation or review. Data from any channels can be conveniently summarized in graphic form.



Various engines are available for instrumentation and application of a client's products and/or requirements.

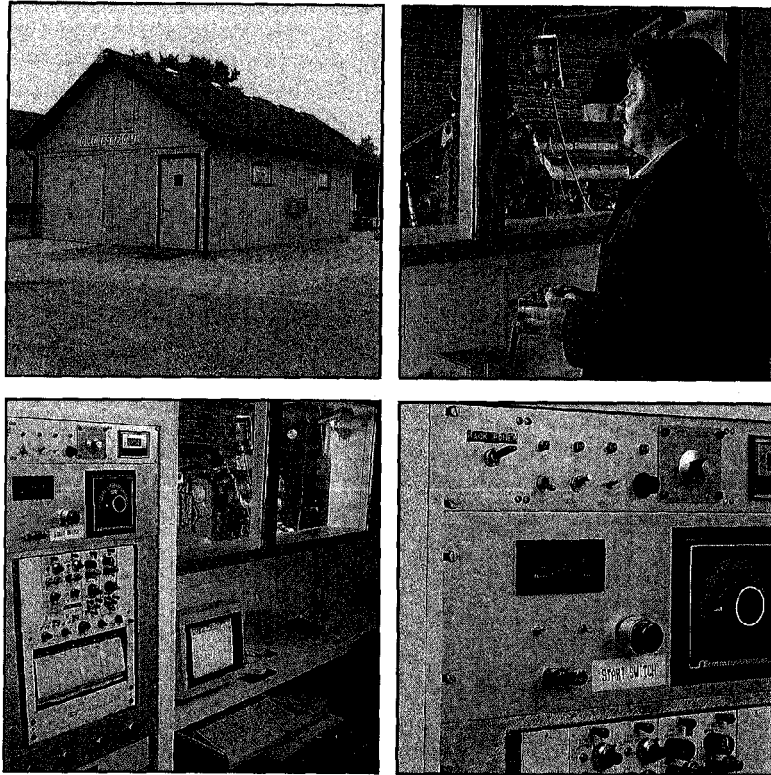
Normal Test Series

Each series of tests is discussed and reviewed in advance with the customer. Tests are conducted to determine the following:

1. The lowest temperature at which an engine will start and run without starting aids.
2. The effectiveness of built-in or manufacturer recommended starting aids in lowering the starting threshold. These may include manifold pre-heaters, glow plugs, block heaters, or various other types of fluid starting systems.
3. The effectiveness of various KBI DIESEL START or DIESELMATIC products.

Depending upon test results, testing at particular temperatures may be repeated, varying the crankcase lubricant, battery capacity, etcetera, to study their effects on cold starting.

COLD TEST FACILITY



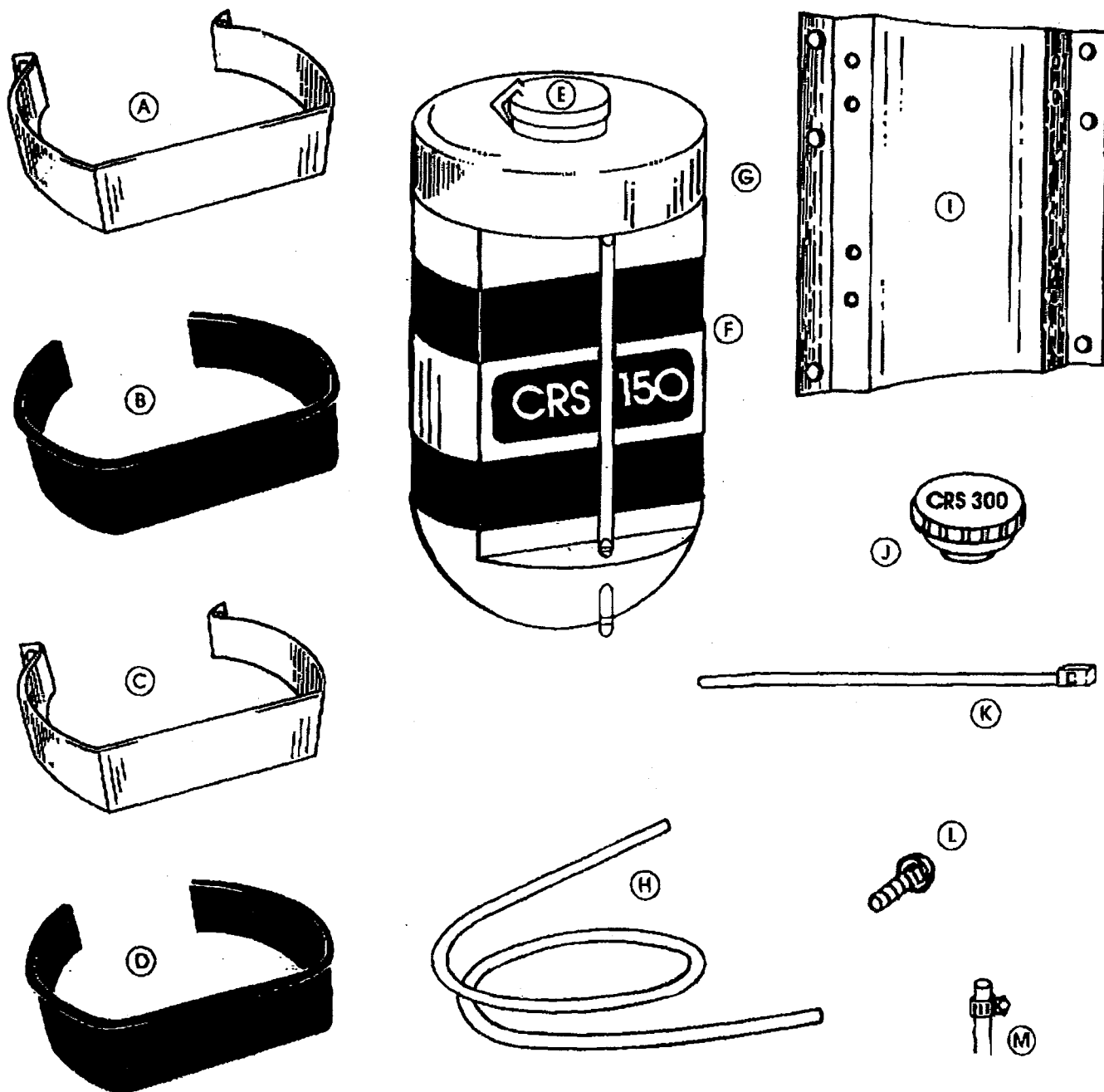
KBi's Cold Test Facility Aids the Development of Diesel Engine Starting Systems.

KBi, Ltd. manufactures and markets Diesel Starting Fluid Systems worldwide. Its patented DIESEL-MATIC and DIESEL-MATIC KOMPAC Starting Fluid Systems have been developed with the help of research conducted in the company's own Cold Room. Tests show that KBi's DIESEL-MATIC systems provide reliable starts at -25°F and below for all sizes and makes of diesel engines.

During the last ten years, KBi's Cold Test Facility, one of the very few in the industry, has permitted the monitoring of cold-weather starting of diesel engines from 0.23 Liters (14 CID) to over 18.03 Liters (1100 CID) under precise scientific conditions. KBi has a policy of leasing the Cold Test Facility to organizations with related research projects.

For more information concerning research data or leasing of the KBi Cold Test Facility, contact:

Mr. James O. Burke
KBi, Ltd.
8390 Pingree Road
Lake In The Hills, IL 60102-9637
(847)658-8561, Fax (847)658-9280



COOLANT OVERFLOW RESEVOIR

CAGE 0U3L8

- (A) MOUNTING BRACKET - 2751-1L
- (B) CUSHION STRAP - 2952-S
- (C) MOUNTING BRACKET - 2751-1L
- (D) CUSHION STRAP - 2952-L
- (E) RESERVOIR CAP - 1951
- (F) RESERVOIR - 1950
- (G) SIGHT TUBE - 2953

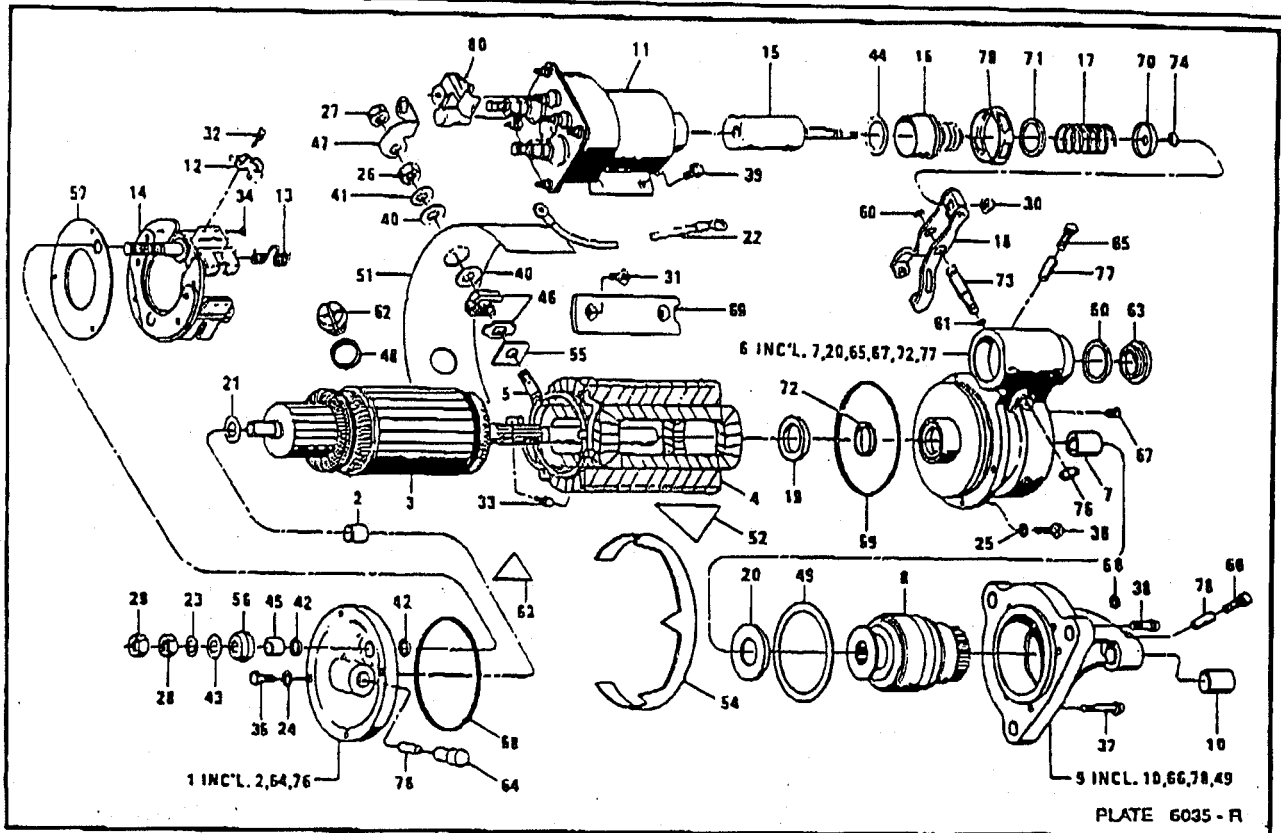
- (H) TRANSFER HOSE (12 FEET) - 1650
- (I) BACK PLATE - 1750-LB
- (J) CRS 300 RADIATOR CAP - N/A
- (K) NYLON TIES (4) - NPN
- (L) HEX HEAD SHEET METAL SCREW - NPN
- (M) WORM-GEAR CLAMP - NPN

TABLE OF SUPPLEMENTAL VENDOR PARTS DATA

PART NUMBER	VENDOR	SOURCE	DESCRIPTION	QTY	Remarks
FUEL SYSTEM					
2650	PARKER		Check valve	1	Shipped loose
1000MA		KUDINGER	Primary filter	1	Shipped loose
9040-10-12		KUDINGER	Fuel Fitting	2	Shipped loose
TR2-10106	Anderson	HyQuip	Reducing tee	1	In Fuel Suction hose LH Side
4401-6S	Aeroquip	HyQuip	Fitting	1	
FC234-6	Aeroquip	HyQuip	Hose/ft	1	
4401-6	Aeroquip	HyQuip	Fitting	1	
	Aeroquip	HyQuip	Adaptor	1	To Suction side of pump
5110760	DDC	DDC	Priming pump	1	To Brkt
31879	Inland	Inland	Prime pump mounting brkt	1	Mount on bottom of CAC hsg forward side
8924151	DDC	DDC	1/8" 90deg bras street elbow	1	To outlet side of prime pump
2003-2-6	Aeroquip	HyQuip	Adaptor	1	To brass 1/8" street elbow
4401-6	Aeroquip	HyQuip	Fitting	1	
FC234-6	Aeroquip	HyQuip	Hose/ft	1	
4401-6	Aeroquip	HyQuip	Fitting	1	
2007-4-6	Aeroquip	HyQuip	Adaptor	1	Mount in secondary filter inlet side
INSTRUMENT SENDERS					
323-478	DAVIDSON	VDO	Water temp sender	1	Mount in thermostat housing 45 deg 1/2" port
360-410	DAVIDSON	VDO	Oil pressure sender	1	In bushing LH rear oil pressure point
240-803	DAVIDSON	VDO	Bushing Kit	1	In LH lower oil press port of block
323-485	DAVIDSON	VDO	Oil temperature sender	1	In 3/4 X 3/8 bush
115224	DDC	DDC	3/4 X 3/8 reducer bushing	1	In LH rear corner of oil pan
ETHER START					
64014	KBI	KBI	Ether start kit	1	Remove exsisting temperature siwitch from kit
300803	KBI	KBI	Temperature switch	1	mount 300803 between CAC support brkt and RH side. Tap air intake pipe for 1/8" NPT and install eth from kit.
BATTERY CHARGING ALTERNATOR					
98-24-220-BL	BALMAR	BALMAR	24V-220A Alternator	1	Remove and discard belt guard, adjusting rod
23525166	DDC	DDC	Pulley	1	and adjusting rod.
23518180	DDC	DDC	Adjusting rod	1	Install alternator pulley and belt. Install 31780 I
31880	INLAND	INLAND	Generator rod support	1	on gen DE side facing rear of engine
NPN		Std hardware	1/2-NC X 1-1/4 hx hd bolt	3	Install adjusting rod locating it in gear case ho
NPN			1/2-NC X 6 hx hd bolt	1	hole above accessory drive cover.
NPN			1/2 Lock washer	4	Tension belt using exsisting adjustment link.
NPN			1/2 Flatwasher	2	
NPN			1/2-NC Hex hhead nut	2	
NPN			7/16-NC X 4-1/2 hx hd bolt	1	
NPN			7/16-NC hx hd nut	1	

TABLE OF SUPPLEMENTAL VENDOR PARTS DATA (CONT.)

PART NUMBER	VENDOR	SOURCE	DESCRIPTION	QTY	Remarks
N			7/16 L/W	1	
NPN			7/16 L/W	1	
MC-612-H	BALMAR	BALMAR	Regulator	1	Ship loose
MC-TS-A	BALMAR	BALMAR	Wire Harness	1	ship loose
S/P-3003	BALMAR	BALMAR	Isolation transformer	1	Ship loose
ELECTRICAL JB BOX AND HARNESES					
31881	INLAND	INLAND	JB MOUNTING PANEL	1	
331-020	DAVIDSON	VDO	HOUR METER	1	
KR2RH6	BOGGIS JOHNSON	SQUARE D	SQUARE D STOP BUTTON	1	
KN202	BOGGIS JOHNSON	SQUARE D	SQUARE D LEGEND PLATE	1	
37C-00-841-01	STURDY	STURDY	SIGNAL GENERATOR	1	
75027	WAYTEK	BOSCH	BOSCH RELAY	4	
VF7-11H11-S05	Potter Brumfield		STARTER RELAY	1	
70456	SCHOFIELD	SCHOFIELD	Wire Harness	1	
70457	SCHOFIELD	SCHOFIELD	Wire Harness	1	
MARINE GEAR					
112578	DDC	DDC	Pipe plug	1	Remove 23523552 Switch (Nason) and intsa
5101140	DDC	DDC	Wier and lead seal	1	Position manual lever to center off engine an Wire and seal
AIR CHARGE COOLER					
Knock out check valve					



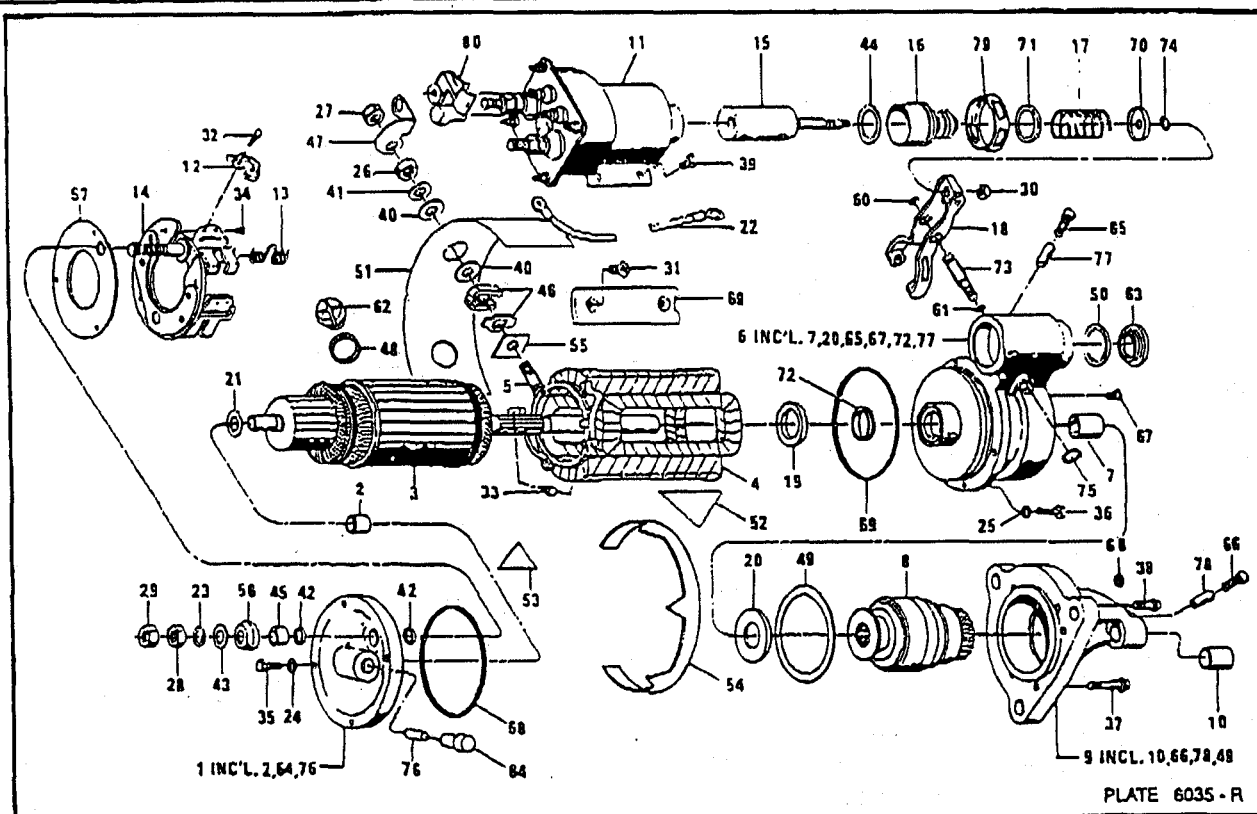
Illustrations are of typical Parts only. For Parts not illustrated or in columns see Minor Parts Section

Model	FRAME/C.E.	BUSHING/ C.E. FRAME	ARMATURE	FIELD COIL (6 COILS)	STUD TERMINAL	HOUSING LEVER	BUSHING/ LEVER HOUSING	DRIVE ASSEMBLY	HOUSING DRIVE	BUSHING/ DRIVE HOUSING	SWITCH
	1	2	3	4	5	6	7	8	9	10	11
10478827	1945848	1894838	1967349	1967345	1950561	1979870	1894637	830620 2	10474848	1894835	1115567 1
10478828	1945848	1894838	1967349	1967345	1950561	1979870	1894637	830620 2	10474848	1894835	1115567 1
10478829	1945848	1894838	1967349	1970247	1950561	1979870	1894637	830620 2	10474848	1894835	1115567 1
10478875	1952133	1894838	1945913	1945853	1950561	1979870	1894637	830621 2	1888438	1894835	1115567 1
10478883	1945848	1894838	1945840	1945853	1950561	1979870	1894637	830620 2	1888137	1894835	1115558 1
10478884	10478200	1894638	1945840	1945853		10478324	1894637	830820 2	1888137	1894835	1115559 1
10478887	1945848	1894838	1945840	1945863	1850661	10476532	1894637	830620 2	1888137	1894635	1115559 1
10478888	1945848	1894638	1945840	1945853	1850561	10475532	1894637	830620 2	1888137	1894635	1115559 1
10478903	1945848	1894638	1945840	1945853	1950561	10475532	1894637	1893560 2	1888137	1894635	1115559 1
10478905	1945848	1894638	1945840	1945853	1950561	10475532	1894637	830620 2	1888748	1894635	1115559 1
10478906	1945848	1894638	1977818	1977820	1950561	10475532	1894637	830620 2	1888137	1894835	1115559 1
10478907	1945848	1894638	1945840	1945853	1950561	10475532	1894637	830620 2	1888438	1894835	1115559 1
10478908	1945848	1894638	1945840	1945853	1950561	10475532	1894637	830620 2	1888438	1894835	1115559 1
10478909	1945848	1894838	1945840	1945853	1950561	10475532	1894637	830620 2	1888438	1894835	1115559 1
10478910	1945848	1894638	1977818	1977820	1950561	10475532	1894637	830620 2	1888137	1894835	1115558 1
10478911	1945848	1894638	1945840	1945853	1950561	10475532	1894637	830620 2	1888137	1894835	1115559 1
10478912	1945848	1894638	1945840	1945853	1950561	10475532	1894637	830620 2	1888438	1894835	1115559 1
10478915	1945848	1894638	1967349	1967345	1950561	10475532	1894637	830620 2	1888438	1894835	1115560 1
10478916	1945848	1894638	1967349	1970247	1850661	10475532	1894637	830620 2	10476285	1894835	1115567 1
10478917	1945848	1894638	1977818	1977820	1850561	10475532	1894637	830620 2	1888137	1894835	1115568 1

1 FOR PARTS SEE SWITCH GROUP 101-B.

2 SERVICE BY COMPLETE REPLACEMENT.

Delco Remy SERVICE PARTS CATALOG



Illustrations are of typical Parts only. For Parts not illustrated or in columns see Minor Parts Section.

Plate 6035-R

Model No.	Brush	Spring Brush	Brush Plate Asm.	Plunger	Boot	Spring Plunger	Lever Shift	Washer Space	Washer Brake	Washer Thrust CE	Lead & Term.
	12	13	14	15	16	17	18	19	20	21	22
10478827	1906989	1861785	1967354	1948522	1984586	1948521	1945484	1936466	1911644	1953237	10497104
10478828	1852886		"	"	801077	"	"	"	"	"	"
10478829		1861785	"	"	1984586	"	"	"	"	"	"
10478875	1852886	1984979	1984974	"	801077	"	"	"	"	"	"
10478883	"	"	"	"	"	"	"	"	"	"	"
10478884	"	"	1985068	"	"	"	"	"	"	"	"
10478887	"	"	1984974	"	"	"	"	"	"	"	"
10478888	"	"	"	"	"	"	"	"	"	"	"
10478903	"	"	"	"	"	"	"	"	"	"	"
10478905	"	"	"	"	"	"	"	"	"	"	"
10478906	1852887	"	"	"	"	"	"	"	"	"	"
10478907	1852888	"	"	"	"	"	"	"	"	"	"
10478908	"	"	"	"	"	"	"	"	"	"	"
10478909	"	"	"	"	"	"	"	"	"	"	"
10478910	"	"	"	"	"	"	"	"	"	"	"
10478911	"	"	"	"	"	"	"	"	"	"	"
10478912	"	"	"	"	"	"	"	"	"	"	"
10478915	"	"	1985065	"	"	"	"	"	"	"	"
10478916	"	"	"	"	"	"	"	"	"	"	"
10478917	1852887		1984974	"	"	"	"	"	"	"	10497104
10478919	1852886	1861785	1967354	"	"	"	"	"	"	"	"

♦For parts see Misc. Brush Plate Group 2.

Parts not listed in this Catalog will not be sold separately.

Delco Remy

CRANKING MOTOR—Group 93-A

Revised to February 1, 1995

SERVICE PARTS CATALOG

MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lock washers, woodruff keys, and coner pins are Standard Hardware items and are not available from Delco Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used on Models
23	LOCK WASHERS Lock Washer—Term. Stud—CE	9421427	All except 10478884
	NUTS		
28	Nut—Field Term. Stud (3/16 thk)	9441934	All
27	Nut (& Washer)—Field Term. Stud	1979451	All
28	Nut—C.E. Term. Stud(3/16 Hex x 3/16 Thk.)	9441934	All
29	Nut (& Washer)—C.E. Term. Stud	1979451	All
29	Nut & Washer Asm.—Fld. Connector to Sw. Atch.	1979451	10478875; 83-4-7-8; 10478903-5-6-7-8-9; 10; 11; 12; 19
29	Nut & Washer Asm.—Lead to Solenoid Atch.	1979365	10478883-7-8; 10478903-5-6-7-8-9; 11; 19
30	Nut—Plunger Rod Guide Adjusting	9412305	All
30	Nut Asm.—Shunt Lead to Switch Atch.	1979365	10478875; 84; 10478915; 16
	SCREWS		
31	Screw—Pole Shoe	10499632	All except 10478827-8-9; 84
31	Screw—Pole Shoe	10499638	10478884
31	Screw—Pole Shoe	1968396	10478827-8-9
32	Screw—Brush Lead Atch.	1968998	All
33	Screw—Fld. Coll Lead to Br. Hldr. Atch.	1968998	All except 10478919
34	Screw (& Lock Washer)—Brush Plate Atch.	1847807	All
35	Screw—CE Frame Atch.	10499639	All
35	Screw—CE Frame Atch.	1914889	10478827-8-9
36	Screw—Lever Hsg. Atch.	10498639	All
36	Screw—Lever Hsg. Atch.	1914869	10478827-8-8
37	Screw—Drive Hsg. Atch. (3/16-18x1 1/2")	10475536	10478875; 83-4; 10478903-6-7-8; 11; 12
37	Screw—Drive Hsg. Atch. (3/16-18x1 1/2")	1948536	10478827-8-9
37	Screw—Drive Hsg. Atch. (3/16-18x1 1/2")	10476097	10478887-8; 8905-9; 10; 15; 16; 19
38	Screw—Drive Hsg. Atch. (3/16-18x3/4")	10499643	10478875; 83-4; 10478903-6-7-8; 11; 12
38	Screw—Drive Hsg. Atch. (3/16-18x3/4")	1948537	10478827-8-9
38	Screw—Drive Hsg. Atch. (3/16-18x3/4")	10499637	10478887-8; 10478905; 9; 10; 15; 16; 19
39	Screw (& Lock Washer)—Switch Atch.	10475535	All
39	Screw (& Lock Washer)—Switch Atch.	1830611	10478827-8-9
	WASHERS		
40	Washer—Insul.—Fld. Term. Stud	1922457	All
41	Washer—Plain—Fld. Term. Stud	1914647	All
42	Washer—Insul.—CE Term. Stud (3/4 O.D.)	1861791	All
43	Washer—Plain—CE Term. Stud	1914647	All
44	Washer—Plunger Spring Retainer	1948518	All
	MISCELLANEOUS		
—	BUSHING—Rubber—Insul. Term. Stud—CE	1	10478915-7
47	CONNECTOR—Term. to Switch	1977835	10478906; 10; 17
47	CONNECTOR—Term. to Switch	1945862	10478875; 83-4-7-8; 8906; 10
48	GASKET—CE Inspection Plug	1964857	All
49	GASKET—Between Lever & Drive Hsg.	1945476	10478827-8-9

Parts not listed in this Catalog will not be sold separately.

Deico Remy

SERVICE PARTS CATALOG

MINOR PARTS SECTION

NOTE: Most screws, bolts, nuts, lock washers, woodruff keys, and cotter pins are Standard Hardware items and are not available from Deico Remy. Refer to Standard Hardware sheets in catalog miscellaneous section for dimensions and description.

Illus. No.	Name	Part No.	Used on Models
	MISCELLANEOUS (Contd.)		
50	GASKET—Lever Hsg. Inspect Plug	1964857	All
51	INSULATOR—Fld. Coil—CE	1967355	10478916
51	INSULATOR—Fld. Coil—CE	1955989	All except 10478916
52	INSULATOR—Fld. Coil—DE (Triangle)	1914873	All
53	INSULATION—Washer—Pkg. Fld.	1966472	All
54	INSULATION—Fld. Coil—DE	1970188	10478915; 16: 19: 27-8-9
55	INSULATOR—Fld. Term. (Inside Frame)	1967356	10478915; 16: 19: 27-8-9
57	INSULATOR (.015 Glass Cloth) Brush Plate	1964516	All except 10478884; 10478910
—	INSULATOR—Fld. Coil—DE	1955989	10478917
—	INSULATOR—Term. Stud—CE	1	10478915-7
58	"O" RING—CE	1945860	All except 10478827-8-9
59	"O" RING—Between Lever Hsg. & Dr. Hsg.	1851960	All
60	"O" RING—Shift Lever Shaft (1½" Dia.)	1894643	All
61	"O" RING—Shift Lever Shaft (¾" Dia.)	1894642	All
—	"O" RING—Between Lever Hsg. & Frame	1945860	10478917
62	PLUG—Brush Inspection—CE	1945356	All
63	PLUG—Lever Housing Inspection	1945356	All
64	PLUG—Oil Reservoir—CE	1978756	All except 10478916
65	PLUG—Oil Reservoir—Lever Hsg.	1978756	All except 10478827-8-9
66	PLUG—Oil Reservoir—DE	1978756	All except 10478827-8-9
66	PLUG—Oil Reservoir	103885	10478916
68	PLUG—Drive Hsg. Mounting Holes	1848619	10478883-4-7-8; 8903-6; 10: 11: 19
69	POLE SHOE	1869747	All
70	RETAINER—Plunger Spring (1½" Hole)	1948526	All
70	RETAINER—Plunger Spring (1½" Hole)	1948520	10478917
71	RETAINER—Plunger Spring (1½" Hole)	1948520	All
72	SEAL—Oil—Lever Hsg.	1918047	All except 10478909
72	SEAL—Oil—Lever Hsg.	1891143	10478909
73	SHAFT—Shift Lever	1948529	All
74	SNAP RING—Plunger Asm.	9416374	All
75	SNAP RING—Shift Lever Shaft	9416374	All
76	WICK—CE	1972977	All
77	WICK—Felt—Lever Hsg.	1978754	All except 10478827-8-9
78	WICK—Felt—DE	1978754	All except 10478827-8-9
78	WICK—Felt—DE	1972977	10478827-8-9
79	CLAMP—BOOT—Plunger	801076	10478884-7

*Use 1851632 Terminal Insulator Package.

SECTION 5

SPECIAL TOOLS LIST FOR DIESEL ENGINE (DETROIT DIESEL)

**OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT
ENGINE, DIESEL (DETROIT DIESEL)
SPECIAL TOOLS LIST**

(1) ITEM NO.	(2) NSN	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
1			J 36024-C	Accessory Drive Tool Set	
2	4910-01-353-8518	33287	J-39164	Adapter, Dial Indicator	
3			J 34158	Adapter, Oil Seal	
4			J 35635-A	Adaptor, Engine Stand	
5	5120-01-322-8885	33287	J35596	Adjuster, Lash, Cam-Idler Gear	
6			CP 715	Air Chisel	
7			J 36310-A	Air Compressor Fan Drive Service Tool Set	
8	5120-01-322-3503	33287	J35785	Alignment Stud Set	
9	5120-01-322-3498	33287	J36237	Barring Tool, Engine	
10			J 35517	Bearing Tool Set (Part Of)	
11			J 35988-18	Bearing Tool Set (Part Of)	
12			J 35988-1A	Bearing Tool Set (Part Of)	
13			J 35988-5	Bearing Tool Set (Part Of) Adapter	
14			J 35988-3A	Bearing Tool Set (Part Of) Remover	
15			J 41251-13	Belt Tensioning Tool	
16	5306-01-319-1987	33287	J35595	Bolt, Eye	
17			J 35641-A	Bracket, Lifting, Cylinder Head	
18	5120-00-766-2141	33287	J-5437	Brush, Cleaning, Valve Guide	
19			J 36003-A	Camshaft Socket Tool	
20	5120-01-353-2520	33287	J 38662	Checker, Gear Lash	
21			J 23479-100A	Collect, Machine	
22	3460-01-355-3553	33287	J23479-29	Collect, Machine	
23	5120-01-322-1127	33287	J35580	Compressor, Valve Spring	
24	5120-00-254-5049	33287	J8062	Compressor, Valve Spring	
25			J 43661	Connecting Rod Bolt Protectors	
26			J 35317	Connecting Rod Bolt Protectors	
27			J 43661	Connecting Rod Guide (Cast Iron)	
28			J 43661	Connecting Rod Guide (Forged Steel)	

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(1) ITEM NO.	(2) NSN	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
29			J 37075-A	Crankshaft Oil Sleeve Remover	
30			J 36326	Cup Plug Tool	
31			J 39652	Cylinder Head Engine Stand Adapter	
32			J 43396	Cylinder Kit Removal Tool	
33			J 38500-D	Diagnostic Data Recorder Kit	
34	5210-00-937-7284	33287	J-9737-C	Dial Indicator Bore & Concentricity Set	
35	5120-01-353-8514	33287	J 35988-2	Fixture, Holding	
36			J 38767-1	Fixture, Holding, Fuel Pump	
37	5120-00-711-1920	33287	J5286-6	Flaring Tool, Tube, Hand	
38			J 36375-A	Flywheel Lock	
39			J 38767-A	Fuel Pump Tool Set	
40	5120-00-353-2535	33287	J 33880-20	Gage Block	
41			J 35884-A	Gage, 2.5 MM. Step	
42	5210-01-070-4543	33287	J 5347-B	Gage, Cylinder	
43	5120-00-023-4798	33287	J22273-01	Gage, Cylinder	
44	4910-00-779-7103	33287	J8165-2	Gage, Dial, Valve Sea	
45	5120-01-355-6424	33287	J 33880-7	Gage, Height	
46	5120-01-337-4412	33287	J38609	Gage, Profile	
47	5220-01-319-6604	33287	J35637	Gage, Profile	
48	5220-01-440-0686	33287	J39697	Gage, Profile	
49	4910-00-254-5048	33287	J7040A	Grinder, Valve Seat	
50	5120-01-322-3502	33287	J35784	Guide Stud Set	
51	5120-01-322-3505	33287	J36107	Guide Stud Set	
52	5120-01-322-3508	33287	J 35945	Guide, Connect Rod	
53	5120-00-977-5578	33287	J7079-2	Handle, Driver	
54	5120-00-970-9030	33287	J1508-8	Handle, Oil Seal Installer	
55			J 38189	Head Bolt Counterbore Resurface Tool	
56	5120-01-322-3497	33287	J36211	Holding Fixture, Piston Connecting Rod	
57			J 39227	Hooked Pick	
58			J 41454	Hose Clamp Installer Tool	

(1) ITEM NO.	(2) NSN	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
59			J 35951-1	Hydraulic Ram	
60	5120-00-023-4798	33287	J 7872	Indicator Dial	
61	5120-01-354-2771	33287	J-35988-14	Impeller, Installer	
62	5120-01-353-8568	33287	J-35686-1	Insertor, Seal	
63	5120-01-365-4079	33287	J38858	Insertor, Seal	
64	5120-01-354-2944	33287	J-35686-2	Insertor, Stud	
65	5120-01-353-7060	33287	J 36310-1	Installation Tool, Bearing Staking	
66	5120-01-354-0470	33287	J 36310-2	Installation Tool, Seal	
67	5120-01-322-2359	33287	J35653	Installer Set, Cup Plug	
68			J 33854	Installer, Bearing	
69			J 36310-A	Installer, Bearing Kit	
70			J 36236	Installer, Cup Plug	
71	5120-01-354-2775	33287	J-36224-1	Installer, Dowel	
72	5120-01-354-2776	33287	J-36224-2	Installer, Dowel	
73			J 38767-8	Installer, Needle Bearing	
74	4940-00-711-1919	33287	J5286-5	Installer, Pilot, Injection	
75	5120-00-977-5579	33287	J8550	Installer, Seal	
76			J 39109	Installer, Valve Stem Seal	
77	5120-01-354-0426	33287	J 33880-4	Installing Tool, Tube Packing Ring	
78	5120-01-132-5447	33287	J-25026	Lifting Sling, Flywheel	
79	4910-01-158-3976	33287	J7872-2	Magnetic Clamp, Indicator	
80			J 36187	Main Bearing Shell Remover	
81			J 33853	Needle Bearing Remover	
82			J 41329	Oil Seal Removal Tool	
83			J 35623-A	Pilot	
84			J35906	Pilot, Camshaft Gear	
85	5120-00-353-7039	33287	J 33880-3	Pilot, Seat Reamer	
86	5120-00-353-7040	33287	J 33880-10	Pilot, Tip Reamer	
87	5315-01-333-2771	33287	J36235	Pin, Shoulder, Headless	
88	5315-01-475-5229	33287	J43431	Pin, Straight, Threaded	

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(1) ITEM NO.	(2) NSN	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
89			J 35598-A	Piston Ring Compression Tool	
90			J 43397	Piston Ring Compressor	
91	3460-01-319-5533	33287	J35651	Plate, Indexing Fixture	
92	3040-01-319-0848	33287	J35652	Plate, Retaining Shaft	
93	5120-01-142-2459	33287	J22405-02	Pliers, Piston Ring	
94			J 22380	Pliers, Retaining Ring	
95			J 23432	Pliers, Retaining Ring	
96	5120-01-322-6888	33287	J36347	Pliers, Retaining Ring	
97	5120-00-293-2513	33287	J4880	Pliers, Retaining Ring	
98	5120-01-356-1649	33287	J 35642-1	Post, Base	
99	3449-01-319-5599	33287	J35597	Press, Cylinder Liner	
100	2815-01-321-9248	33287	J35994	Protector, Crankshaft	
101	5120-01-322-1128	33287	J35791	Puller, Mechanical	
102	4320-01-320-4618	33287	J35951-175	Pump, Hydraulic Ram, Hand Driven	
103	5110-01-355-0637	33287	J 33880-1	Reamer, Hand	
104	5120-01-355-0636	33287	J 33880-5	Reamer, Hand	
105	5120-01-322-3507	33287	J33880	Reconditioning Set, Injector Tube	
106	5120-01-048-1385	33287	J1508-13	Remover, Seal	
107	5120-00-363-7572	33287	J-1930	Remover, Seal	
108	5120-01-322-1131	33287	J35993	Remover, Seal	
109	5120-01-322-3506	33287	J34696	Remover, Valve Guide	
110			J 23479-460A	Remover, Valve Seat Insert	
111	5120-00-494-1836	33287	J-23479-271	Remover, Valve Seat Insert	
112	5120-01-322-1133	33287	J33190	Replacing Tool, Engine Valve Seat Insert	
113	5120-01-322-2995	33287	J34983	Replacing Tool, Engine Valve Seat Insert	
114			J 35996-A	Rocker Arm Shaft Removal Tool	
115	5130-01-486-8484	72582	J-25359-C	Screwdriver Attachment Set, Socket Wrench	
116			J 33021-A	Seal Protector	
117	5120-01-322-6115	33287	J35988-B	Service Kit, Water Pump	
118	5365-01-465-2572	33287	J35686-11	Spacer, Straight	

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(1) ITEM NO.	(2) NSN	(3) CAGEC	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODE (UOC)	(6) QTY
119	4910-00-808-3372	33287	J29109	Stand, Maintenance, Automotive Engine	
120			J 36571	Surface Conditioning Set	
121	4910-00-728-8227	33287	J24460-01	Test Kit, Radiator-R	
122	4910-01-319-6990	33287	J36223-D	Tester, Cylinder Compression	
123	4910-01-332-7051	33287	J34760	Tester, Diesel Fuel Injector Nozzle	
124	4940-01-138-8259	50941	J-22738-02	Tester, Spring	
125			J 25076-13	Tester, Valve Spring	
126			J 35687-1	Tester, Water Pump Impeller Slip	
127			J 35996-15	Timing Gear Lash Adjusting Tool Pedestal	
128			J 35686-A	Tool Set, Oil Seal Installation	
129	5120-00-785-1017	33287	J5286-8	Tube Tip Refinisher Assembly	
130			J 33191-A	Valve Guide Limiting Sleeve	
131			J 8062-3	Valve Spring Compressor Jaws	
132	5310-01-474-8888	33287	J35686-10	Washer, Seal	
133			J 38977	Water Pump Gear Lash Tool	

CHAPTER 4

SUPPORTING INFORMATION
FOR
DIESEL ENGINE (DETROIT DIESEL)

**OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT
ENGINE, DIESEL (DETROIT DIESEL)
MAINTENANCE ALLOCATION CHART (MAC) INTRODUCTION**

INTRODUCTION

This introduction provides a general explanation of all maintenance and repair functions authorized at various maintenance levels under the standard Army Maintenance System concept.

The MAC (immediately following the introduction) designates overall authority and responsibility for the performance of maintenance functions on the identified end item or component. The application of the maintenance functions to the end item or component shall be consistent with the capacities and capabilities of the designated maintenance levels, which are shown on the MAC in column (4) as:

Unit - includes two subcolumns, C (operator/crew) and O (unit) maintenance.

Direct Support - includes an F subcolumn.

General Support - includes an H subcolumn.

Depot - includes a D subcolumn.

The tools and test equipment requirements (immediately following the MAC) list the tools and test equipment (both special tools and common tool sets) required for each maintenance function as referenced from the MAC.

The remarks (immediately following the tools and test equipment requirements) contain supplemental instructions and explanatory notes for a particular maintenance function.

Maintenance Functions

Maintenance functions are limited to and defined as follows:

1. Inspect. To determine the serviceability of an item by comparing its physical, mechanical, and/or electrical characteristics with established standards through examination (e.g., by sight, sound, or feel). This includes scheduled inspection and gaging, and evaluation of cannon tubes.
2. Test. To verify serviceability by measuring the mechanical, pneumatic, hydraulic, or electrical characteristics of an item and comparing those characteristics with prescribed standards on a scheduled basis, i.e., load testing of lift devices and hydrostatic testing of pressure hoses.
3. Service. Operations required periodically to keep an item in proper operating condition; e.g., to clean (includes decontaminate, when required), to preserve, to drain, to paint, or to replenish fuel, lubricants, chemical fluids, or gases. This includes scheduled exercising and purging of recoil mechanisms.
4. Adjust. To maintain or regulate, within prescribed limits, by bringing into proper position, or by setting the operating characteristics to specified parameters.
5. Align. To adjust specified variable elements of an item to bring about optimum or desired performance.

6. Calibrate. To determine and cause corrections to be made or to be adjusted on instruments or test, measuring, and diagnostic equipment used in precision measurement. Consists of comparisons of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared.
7. Remove/Install. To remove and install the same item when required to perform service or other maintenance functions. Install may be the act of emplacing, seating, or fixing into position a spare, repair part, or module (component or assembly) in a manner to allow the proper functioning of an equipment or system.
8. Replace. To remove an unserviceable item and install a serviceable counterpart in its place. "Replace" is authorized by the MAC and assigned maintenance level is shown as the third position code of the Source, Maintenance and Recoverability (SMR) code.
9. Repair. The application of the maintenance services, including fault location/troubleshooting, removal/installation, disassembly/assembly procedures, and maintenance actions to identify troubles and restore serviceability to an item by correcting specific damage, fault, malfunction, or failure in a part, subassembly, module (component or assembly), end item, or system.

NOTE

The following definitions are applicable to the "repair" maintenance function:

Services — Inspect, test, service, adjust, align, calibrate, and/or replace.

Fault location/troubleshooting — The process of investigating and detecting the cause of equipment malfunctioning; the act of isolating a fault within a system or Unit Under Test (UUT).

Disassembly/assembly — The step-by-step breakdown (taking apart) of a spare/functional group coded item to the level of its least component, that is assigned an SMR code for the level of maintenance under consideration (i.e., identified as maintenance significant).

Actions — Welding, grinding, riveting, straightening, facing, machining, and/or resurfacing.

10. Overhaul. That maintenance effort (service/action) prescribed to restore an item to a completely serviceable/operational condition as required by maintenance standards in appropriate technical publications. Overhaul is normally the highest degree of maintenance performed by the Army. Overhaul does not normally return an item to like new condition.
11. Rebuild. Consists of those services/actions necessary for the restoration of unserviceable equipment to a like new condition in accordance with original manufacturing standards. Rebuild is the highest degree of maintenance applied to Army equipment. The rebuild operation includes the act of returning to zero those age measurements (e.g., hours/miles) considered in classifying Army equipment/components.

Explanation of Columns in the MAC

Column (1) — Group Number. Column (1) lists FGC numbers, the purpose of which is to identify maintenance significant components, assemblies, subassemblies, and modules with the Next Higher Assembly (NHA).

Column (2) — Component/Assembly. Column (2) contains the item names of components, assemblies, subassemblies, and modules for which maintenance is authorized.

Column (3) — Maintenance Function. Column (3) lists the functions to be performed on the item listed in column (2). (For a detailed explanation of these functions refer to "Maintenance Functions" outlined above.)

Column (4) — Maintenance Level. Column (4) specifies each level of maintenance authorized to perform each function listed in column (3), by indicating work time required (expressed as manhours in whole hours or decimals) in the appropriate subcolumn. This work time figure represents the active time required to perform that maintenance function at the indicated level of maintenance. If the number or complexity of the tasks within the listed maintenance function varies at different maintenance levels, appropriate work time figures are to be shown for each level. The work time figure represents the average time required to restore an item (assembly, subassembly, component, module, end item, or system) to a serviceable condition under typical field operating conditions. This time includes preparation time (including any necessary disassembly/assembly time), troubleshooting/fault location time, and quality assurance time in addition to the time required to perform the specific tasks identified for the maintenance functions authorized in the MAC. The symbol designations for the various maintenance levels are as follows:

C — Operator or crew maintenance

O — Unit maintenance

F — Direct support maintenance

L — Specialized Repair Activity (SRA)

H — General support maintenance

D — Depot maintenance

NOTE

The "L" maintenance level is not included in column (4) of the MAC. Functions to this level of maintenance are identified by a work time figure in the "H" column of column (4), and an associated reference code is used in the REMARKS column (6). This code is keyed to the remarks and the SRA complete repair application is explained there.

Column (5) — Tools and Equipment Reference Code. Column (5) specifies, by code, those common tool sets (not individual tools), common Test, Measurement and Diagnostic Equipment (TMDE), and special tools, special TMDE and special support equipment required to perform the designated function. Codes are keyed to the entries in the tools and test equipment table.

Column (6) — Remarks Code. When applicable, this column contains a letter code, in alphabetical order, which is keyed to the remarks table entries.

Explanation of Columns in the Tools and Test Equipment Requirements

Column (1) — Tool or Test Equipment Reference Code. The tool or test equipment reference code correlates with a code used in column (5) of the MAC.

Column (2) — Maintenance Level. The lowest level of maintenance authorized to use the tool or test equipment.

Column (3) — Nomenclature. Name or identification of the tool or test equipment.

Column (4) — National Stock Number (NSN). The NSN of the tool or test equipment.

Column (5) — Tool Number. The manufacturer's part number, model number, or type number.

Explanation of the Columns in the Remarks

Column (1) — Remarks Code. The code recorded in column (6) of the MAC.

Column (2) — Remarks. This column lists information pertinent to the maintenance function being performed as indicated in the MAC.

**OPERATOR, UNIT, DIRECT SUPPORT AND GENERAL SUPPORT
ENGINE, DIESEL (DETROIT DIESEL)
MAINTENANCE ALLOCATION CHART (MAC)**

MAINTENANCE ALLOCATION CHART**Table 1. Maintenance Allocation Chart. (MAC)**

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
00	MODULAR CAUSEWAY SYSTEM (MCS)								
01	CAUSEWAY FERRY (CF)								
02	ROLL-ON/ROLL- OFF DISCHARGE FACILITY (RRDF)								
03	WARPING TUG (WT)								
0301	POWERED SECTION	Inspect	2.0	6.0	2.0	4.0		1	P
		Test	0.5						
		Service	2.0	6.0	2.0			1, 2, 3, 4, 21, 39	
		Replace		1.0					
		Repair				6.0		1, 38, 43	D
030101	PROPULSION MODULE	Inspect	4.0						P
		Test	0.5						
		Service	4.0						
		Repair	2.0			4.0			D

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010101	ENGINE COOLING SYSTEM	Inspect	0.5						P
		Test	0.5						
		Service	4.0						
		Replace		2.0				1, 57	
		Repair		0.5	1.5			1, 40, 44	
0301010101	DUPLEX STRAINER	Service		1.5				1	
		Adjust		0.5					
		Replace		1.0				1, 7, 58	
		Repair			1.0			1	
03010102	DRIVE TRAIN INSTALLATION	Inspect	1.0	1.5				1	P
		Service	0.5	0.5				1	
		Align			2.0			1	
		Replace	0.5		1.0			1, 43, 58, 59	
		Repair				2.0		1, 43, 58, 59	
0301010201	DIESEL ENGINE	Inspect	4.0						P
		Service	4.0	4.0					A
		Repair				30.0		1, 12, 26, 39, 43	A
		Replace			120.0			1, 26, 31, 39, 43, 50, 57, 58	
		Overhaul					80.0		D

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
030101020101	ENGINE BLOCK ASSEMBLY	Inspect	2.0						P
		Repair				6.0		1, 12, 26, 43, 50	D
		Replace				120.0		1, 26, 43, 50	A
030101020102	CYLINDER HEAD ASSEMBLY	Clean			5.0				A
		Inspect			6.0				P
		Repair				12.0		1, 57, 58	D
		Replace			8.0			1, 57, 58	A
		Replace				24.0		1, 9	A
		Replace				16.0		1, 9	D
030101020103	CRANKSHAFT ASSEMBLY	Repair				16.0		1, 9	D
		Replace				24.0		1, 9	A
030101020104	CAMSHAFT ASSEMBLY	Repair				12.0		1, 9	D
		Replace				16.0		1, 9	A
030101020105	FLYWHEEL ASSEMBLY	Inspect			3.0				p
		Repair				3.0		1, 9	D
		Replace			5.0			1, 9	A
030101020106	PISTON ASSEMBLY	Clean				2.0			A
		Inspect				2.0			P
		Rebuild				4.5		1, 9	D
		Replace				3.0		1, 9	A

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
030101020107	ENGINE BALANCE	Inspect				6.0		P
		Adjust				3.0		1, 9 A
		Repair				8.0		1, 9 D
		Replace				8.0		1, 9 A
030101020108	FUEL SYSTEM	Inspect	1.0					p
03010102010801	FUEL PUMP	Inspect			1.0			P
		Repair			4.0			1, 9 A
		Replace			2.0			1, 9 A
03010102010802	FUEL COOLER	Clean			2.0			A
		Test			1.0			51 A
		Inspect			1.0			P
		Replace			2.0			1, 9 A
03010102010803	ELECTRONIC UNIT INJECTOR	Inspect			1.0			P
		Repair			2.0			1, 9 A
		Replace			2.0			1, 9 A
03010102010804	FUEL FILTER	Inspect	1.0					P
		Replace	1.0					1, 9 A
03010102010805	DDEC CONTROL MODULES	Clean			2.0			A
		Test			2.0			11 A
		Inspect			1.0			11, 53 P
		Replace			3.0			1, 11, 53 A

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
03010102010806	SENSORS	Clean			3.0			
		Test			2.0			11, 53
		Inspect			2.0			P
		Replace			4.0			1, 11, 53
030101020109	LUBRICATING SYSTEM	Service	5.0	5.0				A
		Inspect	1.0					P
03010102010901	OIL PUMP	Inspect				3.0		P
		Repair				4.0		D
		Replace				4.0		1, 9
03010102010902	OIL COOLER	Clean			2.0			A
		Test			1.5			51
		Inspect			2.0			P
		Replace			2.0			1, 9
03010102010903	OIL FILTER	Inspect	1.0					P
		Replace	1.0					1, 9
030101020110	COOLING SYSTEM	Inspect	1.0					52
		Clean		2.0				A
		Repair			2.0			13
03010102011001	RAW WATER PUMP	Inspect		2.0				P
		Repair			4.0			1, 9
		Replace		2.5				A

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010102011002	THERMOSTAT	Inspect			1.0				P
		Clean			2.0				A
		Test			2.0				A
		Repair			3.0			1, 9	A
		Replace			3.0			1, 9	A
03010102011003	HEAT EXCHANGER	Inspect				2.0			P
		Repair				8.0		1, 9	D
		Replace				4.0		1, 9	A
030101020111	AIR INTAKE SYSTEM	Clean		2.0					A
		Inspect	0.5						P
		Repair		3.0				1, 9	A
03010102011101	TURBOCHARGER	Inspect		2.0					P
		Repair					18.0	1, 9	D
		Replace			6.0				A
03010102011102	CHARGE AIR COOLER	Inspect			2.0				P
		Adjust				4.0		1, 9	
		Repair					18.0	1, 9	D
		Replace			8.0				A

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010102011103	BREATHING AIR CLEANER	Inspect	0.5						P
		Clean		1.0					A
		Replace		1.0				1, 9	A
030101020112	EXHAUST MANIFOLD	Clean			2.0			15	A
		Inspect			1.0				P
		Replace			4.0			1, 9	A
030101020113	ELECTRICAL EQUIPMENT	Test			4.0			11	A
		Inspect			2.0				P
		Repair			3.0			1, 9	A
		Replace		4.0	16.0			1, 9	A
03010102011301	CRANKING MOTOR	Inspect	1.0						P
		Repair				6.0		1, 9	D
		Replace		3.0					A
03010102011302	ALTERNATOR	Inspect	1.0						P
		Repair				5.0		1, 9	D
		Replace		2.0					A

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
03010102011303	STORAGE BATTERY	Clean	0.5					
		Inspect	1.0					P
		Test	0.5				11	A
		Replace	1.5				1, 9	A
030101020114	STARTING AID SYSTEM	Clean		1.0				A
		Inspect	0.5					P
		Adjust		1.0			1, 9	A
		Repair		2.5			1, 9	A
		Replace		3.0				A
030101020115	MARINE INTERFACE MODULE (MIM)	Clean			2.0			
		Test			2.0		11	
		Inspect			1.0		11, 53	P
		Replace			3.0		1, 11, 53	
0301010202	MARINE GEAR	Inspect	1.0					p
		Align			2.0		1, 9, 12	B
		Service	1.0	4.0			1, 57	B
		Replace			1.0		1, 26, 31, 39, 43, 50, 57, 58	B

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
030101020201	OIL SYSTEM	Inspect	0.5					P
		Repair		0.5				1, 9 B
03010102020101	OIL COOLER	Clean	1.0					B
		Inspect	1.0					P
		Replace		4.0				1, 9 B
03010102020102	LINES AND HOSES	Inspect	0.2					P
		Repair		0.5				1, 9 B
		Replace		2.0				1, 9 B
03010102020103	OIL PUMP	Inspect	1.0					P
		Replace		2.0				1, 9 B
03010102020104	ELECTRIC CONTROL VALVE	Repair					8.0	1, 9, 11 B
		Replace			6.0			1, 9, 11 B
030101020202	GEAR MOUNTS	Inspect	0.5					P
		Replace			2.0			1, 9 B
030101020203	COUPLING BLOCKS	Clean			1.0			B
		Inspect			1.0			P
		Replace			4.0			1, 9 B
030101020204	OUTPUT FLANGE	Inspect	0.5					P
		Align			2.0			1, 9, 12 B
		Replace			4.0			1, 9 B
030101020205	OUTPUT SEAL	Inspect			2.0			P
		Replace			2.0			1, 9 B

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS		
			C	O	F	H	D	
030101020206	INPUT FLANGE (ENGINE CONNECTION)	Inspect	0.5					P
0301010203	TRANSFER CASE	Clean		2.0				C
		Service	1.0	4.0				1, 57 C
		Overhaul					24.0	C
		Rebuild					24.0	C
		Replace				1.0		1, 26, 31, 39, 43, 50, 57, 58 C
030101020301	OIL SYSTEM	Inspect	1.0					P
		Repair		2.5				1, 9 C
03010102030101	OIL PUMP	Inspect	4.0					P
		Replace		2.5				1, 9 C
03010102030102	HOSES AND FITTINGS	Inspect	0.2					P
		Replace		2.0				1, 9 C
03010102030103	OIL COOLER	Inspect	0.2					P
		Replace		3.5				1, 9 C
030101020302	GEAR SHAFT	Inspect				5.0		P
		Repair				8.0		1, 9 C
		Replace				7.0		1, 9 C
03010102030201	UPPER SHAFT	Inspect				5.0		P
		Repair				8.0		1, 9 C
		Replace				7.0		1, 9 C

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
0301010203020101	INPUT SEAL	Clean			2.0			1, 9
		Inspect			2.0			
		Replace			2.0			
0301010203020102	OUTPUT SEAL	Clean			2.0			1, 9
		Inspect			2.0			
		Replace			2.0			
03010102030202	INTERMEDIATE SHAFT	Inspect				2.5		1, 9
		Repair				5.5		
		Replace				6.5		
03010102030203	LOWER SHAFT	Inspect				4.0		1, 9
		Repair				8.0		
		Replace				6.0		
0301010203020301	INPUT SEAL	Clean			2.0			1, 9
		Inspect			2.0			
		Replace			2.0			
0301010204	THRUSTER (PUMP-JET)	Inspect	0.5	0.5				1, 31, 35
		Service	1.0	1.5				
		Replace				0.5		
030101020401	UPPER GEAR BOX	Inspect				10.0		1, 31
		Repair						
		Replace			3.0			
030101020402	HYDRO-MOTOR	Replace			2.0			1, 31

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT	
			C	O	F	H	D	
030101020403	PLANETARY GEARING	Replace			2.0			1, 14, 31
030101020404	FEEDBACK UNIT	Adjust		0.5				1
		Replace			0.5			1, 14
030101020405	PLANETARY GEARING	Replace			2.0			1, 14, 31
0301010205	FAST LUBE OIL CHG SYS	Replace		0.5				
		Repair		0.5				
0301010206	TANK ASSEMBLY	Replace		0.5				
		Repair		0.5				1, 4
03010103	MACHINERY GUARD INSTALLATION	Replace		0.5				1
		Repair		0.5				
03010104	ENGINE EXHAUST SYSTEM INSTALATION	Replace			4.0			
		Repair			2.0			1, 2, 45
0301010401	MUFFLER ASSEMBLY	Replace			4.0			1, 45
		Repair		0.5				
0301010402	THRU-HULL ASSEMBLY	Replace			0.5			
0301010403	RETAINER ASSEMBLY	Replace			0.5			

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010105	HYDRAULIC SYSTEM INSTALLATION	Inspect	1.0	3.0				1	P
		Service	6.0						
		Adjust		1.0				1, 24, 60	
		Replace			4.0			1, 9, 30, 54, 55, 56	
		Repair			1.0			1, 9, 30, 54, 55, 56	
0301010501	HYDRO-PUMP INSTALLATION	Adjust		1.0					
		Replace		1.0				1, 31, 35	
		Repair			1.0				
030101050101	PUMP	Replace		1.0				1, 31	
		Repair				4.0		1, 33	
0301010502	VALVE UNIT	Replace		1.0					
		Repair				1.0			
030101050201	VALVE	Replace		1.0				1, 31	
		Repair				2.5		1	
0301010503	HYDRO-HAND PUMP INSTALLATION	Inspect	0.2						
		Service		0.2				1, 31	
		Replace		1.0				1	
030101050301	HAND PUMP	Replace		1.0				1, 31	
		Repair				1.0		1, 31	
0301010504	BALL VALVE	Replace		0.5				1, 31	
		Repair		0.5				1	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
0301010505	HYDRAULIC RESERVIOR ASSEMBLY	Replace		2.0				1, 45	P
		Repair		2.0				1, 14, 31	
030101050501	RETURN FILTER	Replace		0.5				1, 31, 35	
030101050502	INSPECTION COVER	Replace		0.5				1	
03010106	BILGE SYSTEM INSTALLATION	Inspect	1.0						
		Test	0.1						
		Replace		2.0				1	
		Repair		3.0				1, 11	
0301010601	BILGE PUMP	Replace		1.0				1	
03010107	FIRE SUPRESSION SYSTEM	Inspect	0.25						
		Test				0.5			D P
		Service				1.0			
		Install				1.0			
		Replace				1.0			
		Repair				1.0		11	
03010108	FUEL SYSTEM	Inspect	0.5						
		Service	0.5	1.0				1, 23	
		Replace		1.0				1, 31	
		Repair		2.5				1, 31, 41	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010109	PROPULSION MODULE ELECTRICAL ASSEMBLY	Inspect	0.5						P
		Test	0.5						
		Replace		0.5	2.0			1	
		Repair			2.0			1, 11	
0301010901	BILGE PUMP CONTROL ASSEMBLY	Inspect	0.25						P
		Replace			2.0			1	
		Repair			1.5			1, 11	
0301010902	SINGLE BILGE PUMP CONTROL ASSEMBLY	Inspect	0.25	0.25				1	P
		Replace			2.0			1	
		Repair			1.5			1, 11	
0301010903	ENGINE JUNCTION BOX ASSEMBLY	Inspect	0.25						P
		Replace			2.0			1	
		Repair			1.5			1, 11	
0301010904	PROPULSION MODULE JUNCTION BOX ASSEMBLY	Inspect	0.25	0.25				1	P
		Replace			2.0			1	
		Repair			1.5			11	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
0301010905	CIRCUIT BREAKER PANEL ASSEMBLY	Inspect	0.25	0.25				1	P
		Replace			2.0				
		Repair			1.5			11	
0301010906	BATTERY INSTALLATION	Inspect	0.5						P
		Service	1.5	0.5				1, 16, 34	
		Replace			0.5			1, 34	
		Repair			1.5			1, 9	
0301010907	VENT FAN RELAY ENCLOSURE ASSEMBLY	Inspect	0.25	0.25				1	P
		Replace			2.0			1	
		Repair			1.5			1, 11	
0301010908	PUMP-JET JUNCTION BOX	Inspect	0.25						P
		Replace			2.0			1	
		Repair			1.5			1	
0301010909	PUMP-JET DIRECTION/AUX BATTERY JUNCTION BOX	Inspect	0.25	0.25					P
		Replace			2.0			1	
		Repair			1.5			11	
03010110	EMERGENCY STEERING SYSTEM	Inspect	0.5						P
		Service	0.5						
		Replace		0.5				1	
		Repair		2.5				1	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
030102	NON-POWERED MODULES EXTERIOR	Inspect	1.0					1, 47	P
		Test		6.0				1, 6, 51	
		Service	1.5	4.0				1, 4	
		Repair		4.0				1	
		Overhaul				24.0			D
03010201	GUILLOTINE	Inspect	0.5						P
		Service		1.0				1, 7	
		Replace		1.0					
		Repair		3.0				1, 7	
03010202	CONNECTOR	Inspect	0.5						P
		Replace		1.0					
03010203	SPRING PIN	Inspect	0.5						P
		Replace		1.0					
03010204	LOCK PLATE	Inspect	0.5						P
		Replace	1.0						
03010205	HATCH ASSEMBLY (P20LRP & RRP)	Inspect	0.5						P
		Service	0.5						P
		Replace			3.0				
		Repair			1.0				
030103	FLEXOR ASSEMBLY	Inspect	1.0						P
		Replace	1.0						
		Repair				8.0			

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
030104	OPERATORS CAB ASSEMBLY	Replace		1.0				1, 38, 43	
		Repair			6.0			1	
03010401	MIDDLE CONTROL PANEL	Inspect			2.0				
		Test			2.0				
		Replace			16.0			1	
		Repair			3.0			1, 9, 11	
03010402	LOWER CONTROL PANEL	Inspect			2.0				
		Test			2.0				
		Replace			16.0			1	
		Repair			3.0			1, 9, 11	
03010403	CIRCUIT BREAKER PANEL	Inspect			1.0				
		Test			1.0			11	
		Replace			12.0			1	
		Repair			2.0			1, 9, 11	
03010404	TERMINAL BOARD ASSEMBLY	Inspect			1.0				p
		Test			1.0				p
		Replace			10.0			1	
		Repair			2.0			1, 9, 11	
03010405	RECEPTICAL ASSEMBLY (PORT & STARBOARD)	Inspect			0.5				p
		Replace			1.0			1	
		Repair			2.0			1, 9, 11	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010406	NAVIGATION HORN	Test	0.5						p
		Replace		0.5				1	
03010407	BATTLE LANTERN	Inspect	0.5						p
		Replace		0.5				1	
		Repair		1.0				1	
03010408	COMPASS	Inspect	2.0						p
		Replace		2.0				1, 11	
03010409	WINDSHIELD WIPER	Replace		2.0					
		Repair		1.0				1	
03010410	VHF/FM PORTABLE RADIO SYSTEM	Replace	1.0						
0301041001	VHF/FM PORTABLE RADIO CHARGER	Replace		0.5				1, 11	
03010411	HEATER	Inspect	2.0						p
		Replace			6.0			1, 11, 31	
03010412	NAVIGATIONAL BELL	Test	0.5						p
		Replace	0.5						
03010413	LOUDHAILER	Test	0.5						p
		Replace		0.5				1, 17	
		Repair				8.0		1, 9, 11	
03010414	VHF/FM RADIO SYSTEM	Replace	1.0					1	

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
03010415	SPOTLIGHT	Adjust		1.0				1, 42	
		Replace		1.0				1, 4, 11, 42	
03010416	SINGARS RADIO								E
03010417	DEFROSTER	Inspect	1.0						P
		Replace			4.0			1, 11, 31, 57	
03010418	GPS (INCLUDING PLGR)	Replace		0.5				1, 17, 32	
		Repair			2.0			1	
03010419	MAST ENCLOSURE ASSEMBLY	Inspect	1.0						p
		Test			1.0				
		Replace			12.0			1, 10	
		Repair			2.0			1, 11, 58	
03010420	OPERATORS CAB ELECTRICAL SYSTEM	Inspect			4.0			1	p
		Test			4.0				
		Replace			10.0			1	
		Repair			6.0			1, 11	
030105	INTAKE PLENUM ASSEMBLY	Inspect	0.5						p
		Replace		0.5				1, 38, 43	
		Repair		0.5				1, 17	
030106	D-RING ASSEMBLY	Inspect	0.5						p
		Replace	1.0						

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL					(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS	DEPOT		
			C	O	F	H	D		
030107	CLEAT MOORING ASSEMBLY	Inspect	0.5						p
		Replace	1.0						
030108	EXHAUST PLENUM ASSEMBLY	Inspect	0.5						p
		Service		0.5					
		Replace		1.0				1, 38, 43	
		Repair		0.5				1, 17	
030109	MAIN MAST ASSEMBLY	Inspect	3.0						p
		Replace		1.0				1, 45	
		Repair		3.0				11	
030110	STUB MAST ASSEMBLY	Inspect	1.0						P
		Replace		1.0				1	
		Repair	0.5	1.0				11	F
030111	INTERCONNECT ELECTRICAL ASSEMBLY	Inspect		0.5				1, 45	P
		Replace		0.5				1, 45	
		Repair	1.5					1, 17, 49, 53	
030112	HANDRAIL INSTALLATION	Adjust	1.0						
		Replace		1.0					
		Repair		1.0					

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS		
			C	O	F	H	D	
030113	ANCHOR ASSEMBLY	Inspect	1.0					P
		Replace		1.0				1
		Repair		1.0				1
030114	SIDE FENDER ASSEMBLY	Inspect	2.0					P
		Replace		1.0				1, 7, 8, 38, 43
		Repair		2.0				1
030115	SKEG ASSEMBLIES	Inspect	0.5					P
		Service	1.5					
		Replace	1.0					
		Repair		1.0				
030116	BOW FENDER	Inspect	2.0					
		Replace		1.0				1, 7, 8, 38, 45
		Repair		2.0				1
030116	CORNER FENDER	Inspect	2.0					
		Replace		1.0				1
		Repair		2.0				1
0302	CONVERSION KIT, MWT	Replace		1.0				
		Repair		1.0				
030113	A-FRAME ASSEMBLY	Inspect	0.5					p
		Replace	0.5					
		Repair			1.0			1, 36, 39, 43

Table 1. Maintenance Allocation Chart. (MAC) (Continued)

(1) GROUP NO.	(2) COMPONENT/ASSEMBLY	(3) MAINTENANCE FUNCTION	(4) MAINTENANCE LEVEL				(5) TOOLS AND EQUIP REF CODE	(6) REMARKS CODE
			UNIT		DS	GS		
			C	O	F	H	D	
0303	SHIPPING RACK ARRGMTS (NOTHING LOWER)	Replace		1.0				
		Repair		1.0				
0304	CONVERSION KIT, STOWAGE	Replace		1.0				
		Repair		1.0				
030401	CONTAINER, 20 FT, OPEN END	Inspect	2.0					P
		Service	1.0					
		Repair			4.0			D

Table 2. Remarks for Marine Transmission (Twin Disc).

REMARKS CODE	REMARKS
A	Refer to Commercial Off the Shelf (COTS) Diesel Engine Manual.
B	Refer to Commercial Off the Shelf (COTS) Marine Gear manual.
C	Refer to Commercial Off the Shelf (COTS) Transfer Case manual.
D	Disposition at Specialized Repair Activity (SRA) (for Repair/Non-repair Disposition).
E	Government Furnished Equipment Refer to TM 11-5820-890-20-3.
F	Repair is limited to bulb replacement and battery.
G	Refer to TM 5-805-7, Welding: Design, Procedures and Inspection, for Minor Weld Repairs.
P	Preventive Maintenance Checks and Services (PMCS).

TM 55-1945-222-14&P-3

These are the instructions for sending an electronic 2028.

The following format must be used if submitting an electronic 2028. The subject line must be exactly the same and all fields must be included; however, only the following fields are mandatory: 1, 3, 4, 5, 6, 7, 8, 9, 10, 13, 15, 16, 17 and 27.

From: "Whoever" whoever@avma27.army.mil
To: whoever@avma27.army.mil
To: TACOM-TECH-PUBS@ria.army.mil

Subject: DA Form 2028

1. **From:** Joe Smith
2. **Unit:** home
3. **Address:** 4300 Park
4. **City:** Hometown
5. **St:** MO
6. **Zip:** 77777
7. **Date Sent:** 19-OCT-93
8. **Pub no:** 55-1915-200-10
9. **Pub Title:** TM
10. **Publication Date:** 11-APR-88
11. **Change Number:** 12
12. **Submitter Rank:** MSG
13. **Submitter Fname:** Joe
14. **Submitter Mname:** T
15. **Submitter Lname:** Smith
16. **Submitter Phone:** 123-123-1234
17. **Problem:** 1
18. **Page:** 1
19. **Paragraph:** 3
20. **Line:** 4
21. **NSN:** 5
22. **Reference:** 6
23. **Figure:** 7
24. **Table:** 8
25. **Item:** 9
26. **Total:** 123
27. **Text:**

This is the text for the problem below line 27.

TM 55-1945-222-14&P-3

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 310-1; the proponent agency is the US Army Adjutant General Center.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE: Date form is filled out.
TO: (Forward to proponent of publication or form) (Include ZIP Code) Mailing address found on title block page.						FROM: (Activity and location) (Include ZIP Code) Your mailing address.	
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER: TM X-XXXX-XXX-XXX						DATE: Date of the TM.	TITLE: Title of TM.
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
	0019 00 1	3	1	1		Step No. 2 says to secure doors open with locking bar or hooks from where to what? The bars or hooks are not identified. Step No. 19 states to remove locking bars, pins or hooks from where to what? The bars, pins or hooks are not identified. Where are they stored?	
	0019 00 4	4	1	1			
SAMPLE							
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE Doe, John, CPL				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 755-1313		SIGNATURE <i>CPL John Doe</i>	

TM 55-1945-222-14&P-3

TO: (Forward to proponent of publication or form) (Include ZIP Code)				FROM: (Activity and location) (Include ZIP Code)			DATE:	
PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION/FORM NUMBER: TM X-XXXX-XXX-XXX					DATE: Date of the TM.		TITLE: Title of TM.	
PAGE NO.	COLM NO.	LINE NO.	FEDERAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
SAMPLE								
PART III - REMARKS (Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)								
* Reference to line numbers within the paragraph or subparagraph.								
TYPED NAME, GRADE OR TITLE Doe, John, CPL				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION 755-1313			SIGNATURE CPL John Doe	

TM 55-1945-222-14&P-3

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 310-1; the proponent agency is the US Army Adjutant General Center.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE:
TO: AMSTA-LC-CI / TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: (Activity and location) (Include ZIP Code)	
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER: TM 55-1945-222-14&P-3						DATE: 15 MAY 2004	TITLE: Technical Manual Operator, Unit, Direct Support and General Support Maintenance Manual
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TM 55-1945-222-14&P-3

TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i>				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE:	
PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION/FORM NUMBER:					DATE:		TITLE:	
PAGE NO.	COLM NO.	LINE NO.	FEDERAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
PART III - REMARKS <i>(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>								
* Reference to line numbers within the paragraph or subparagraph.								
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE	

TM 55-1945-222-14&P-3

RECOMMENDED CHANGES TO PUBLICATIONS AND BLANK FORMS For use of this form, see AR 310-1; the proponent agency is the US Army Adjutant General Center.						Use Part II (reverse) for Repair Parts and Special Tool Lists (RPSTL) and Supply Catalogs/Supply Manuals (SC/SM).	DATE:
TO: AMSTA-LC-CI / TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: (Activity and location) (Include ZIP Code)	
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER: TM 55-1945-222-14&P-3						DATE: 15 MAY 2004	TITLE: Technical Manual Operator, Unit, Direct Support and General Support Maintenance Manual
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TM 55-1945-222-14&P-3

TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i>				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE:	
PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION/FORM NUMBER:					DATE:		TITLE:	
PAGE NO.	COLM NO.	LINE NO.	FEDERAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
PART III - REMARKS <i>(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>								
* Reference to line numbers within the paragraph or subparagraph.								
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE	

TM 55-1945-222-14&P-3

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TO: AMSTA-LC-CI / TECH PUBS, TACOM-RI, 1 Rock Island Arsenal, Rock Island, IL 61299-7630						FROM: (Activity and location) (Include ZIP Code)	
PART I - ALL PUBLICATIONS (EXCEPT RPSTL AND SC/SM) AND BLANK FORMS							
PUBLICATION/FORM NUMBER: TM 55-1945-222-14&P-3						DATE: 15 MAY 2004	TITLE: Technical Manual Operator, Unit, Direct Support and General Support Maintenance Manual
ITEM NO.	PAGE NO.	PARA-GRAPH	LINE NO.	FIGURE NO.	TABLE NO.	RECOMMENDED CHANGES AND REASON (Exact wording of recommended change must be given)	
* Reference to line numbers within the paragraph or subparagraph.							
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION		SIGNATURE	

TM 55-1945-222-14&P-3

TO: <i>(Forward to proponent of publication or form) (Include ZIP Code)</i>				FROM: <i>(Activity and location) (Include ZIP Code)</i>			DATE:	
PART II- REPAIR PARTS AND SPECIAL TOOL LISTS AND SUPPLY CATALOGS/SUPPLY MANUALS								
PUBLICATION/FORM NUMBER:					DATE:		TITLE:	
PAGE NO.	COLM NO.	LINE NO.	FEDERAL STOCK NUMBER	REFERENCE NO.	FIGURE NO.	ITEM NO.	TOTAL NO. OF MAJOR ITEMS SUPPORTED	RECOMMENDED ACTION
PART III - REMARKS <i>(Any general remarks or recommendations, or suggestions for improvement of publications and blank forms. Additional blank sheets may be used if more space is needed.)</i>								
* Reference to line numbers within the paragraph or subparagraph.								
TYPED NAME, GRADE OR TITLE				TELEPHONE EXCHANGE/AUTOVON, PLUS EXTENSION			SIGNATURE	

By Order of the Secretary of the Army:

Official:

Handwritten signature of Joel B. Hudson in cursive script.

JOEL B. HUDSON
*Administrative Assistant to the
Secretary of the Army*
0410308

PETER J. SCHOOMAKER
General, United States Army
Chief of Staff

DISTRIBUTION: To be distributed in accordance with the initial distribution requirements for IDN: 256832, requirements for TM 55-1945-222-14&P-3.

The Metric System and Equivalents

Linear Measure

1 centimeter = 10 millimeters = .39 inch
 1 decimeter = 10 centimeters = 3.94 inches
 1 meter = 10 decimeters = 39.37 inches
 1 dekameter = 10 meters = 32.8 feet
 1 hectometer = 10 dekameters = 328.08 feet
 1 kilometer = 10 hectometers = 3,280.8 feet

Weights

1 centigram = 10 milligrams = .15 grain
 1 decigram = 10 centigrams = 1.54 grains
 1 gram = 10 decigrams = .035 ounce
 1 dekagram = 10 grams = .35 ounce
 1 hectogram = 10 dekagrams = 3.52 ounces
 1 kilogram = 10 hectograms = 2.2 pounds
 1 quintal = 100 kilograms = 220.46 pounds
 1 metric ton = 10 quintals = 1.1 short tons

Liquid Measure

1 centiliter = 10 milliliters = .34 fl. ounce
 1 deciliter = 10 centiliters = 3.38 fl. ounces
 1 liter = 10 deciliters = 33.81 fl. ounces
 1 dekaliter = 10 liters = 2.64 gallons
 1 hectoliter = 10 dekaliters = 26.42 gallons
 1 kiloliter = 10 hectoliters = 264.18 gallons

Square Measure

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

Cubic Measure

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	newton-meters	1.356	metric tons	short tons	1.102
pound-inches	newton-meters	.11296			

Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

