Engine Parts

DETROIT DIESEL



Diesel Engine

Generator Model: **650/750 kW**

Engine Series: 12V-2000

Engine Model: R123-7M36

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	294-N ** ** ** ** **	
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6SP2000 MAY 2004

SERIES 2000 Parts Catalog

Detroit Diesel® SERIES 2000™ Diesel Engines

Illustrated Service Parts Catalogs are now available on CD-ROM

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

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

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

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

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

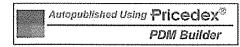
Contact your local Detroit Diesel Distributor to order your CD-ROM.

NOTE:

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

DETROIT DIESEL





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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 conse quences that may result in personal injury and or vehicle/ equipment damage.

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

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

NOTE:

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

GENERAL INFORMATION

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

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

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

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

AR = as required.

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

OBS = obsolete, no replacement.

ALPHABETICAL INDEX

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

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

REMANUFACTURED PARTS

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

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

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

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

ELECTRONIC PARTS CATALOGS

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

YOUR PARTS ORDER WILL BE HANDLED MORE EFFICIENTLY IF YOU -

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

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01 **ENGINE (LESS MAJOR ASSEMBLIES)**

CYLINDER BLOCK 01.1 01.2 CYLINDER HEAD

01.2A **ENGINE LIFTER BRACKET** 01.3 CRANKSHAFT, OIL SEALS AND **STABILIZERS**

01.3A CRANKSHAFT FRONT COVER

VIBRATION DAMPER 01.3B

01.4A **FLYWHEEL**

01.5A FLYWHEEL, HOUSING

01.6 CONNECTING ROD AND PISTON

01.8A ROCKER COVER

02 **FUEL SYSTEM**

02.1A FUEL INJECTOR/CNG CONTROLS

02.1B INJECTOR, CONTROLS

ELECTRONIC

02.2 **FUEL PUMP**

02.3A **FUEL FILTER AND STRAINER** 02.5A **FUEL LINES AND FUEL COOLER**

03 **AIR SYSTEM**

03.1A AIR CLEANER AND/OR ADAPTOR

03.3C AIR INTAKE MANIFOLD 03.5A TURBOCHARGER, INTERCOOLER AND **AFTERCOOLER**

03.7 INTERCOOLER/AFTERGOOLER

04 **LUBRICATING SYSTEM**

04.1A OIL PUMP

04.2A OIL FILTER

04.4A OIL COOLER AND MARINE GEAR LINES

04.7A OIL PAN

04.8A VENTILATING SYSTEM

05 **COOLING SYSTEM**

05.1 FRESH WATER PUMP

05.2B **THERMOSTAT**

05.2C WATER BYPASS TUBE 05.3B WATER CONNECTIONS

05.4A FAN

06 **EXHAUST SYSTEM**

EXHAUST MANIFOLD AND/OR 06.1A

CONNECTIONS

07 **ELECTRICAL INSTRUMENTS**

07.1A BATTERY, CHARGING

GENERATOR

07.3A STARTING MOTOR

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		A.		
		A A		

PART NAME	GROUP NO.	PART NAME G	ROUP NO.
A		BRACKET, STARTING MOTOR SUPPORT	07.3A007
		BELT, GENERATOR DRIVE	07.1A575
ADAPTOR, AIR CLEANER MOUNTING	03.1A085	BRACKET, GENERATOR MOUNTING	07.1A595
AIR INTAKE MANIFOLD	03.3C801	C	
AIR CLEANER ASSY.	03.1A001	C	
ADAPTOR, OIL FILTER COVER	04.2A291	CRANKSHAFT ASSY.	01.3001
ADAPTOR, OIL FILTER ASSY.	04.2A352	COVER, GEAR CASE	01.3A158
ADAPTOR, EXHAUST MANIFOLD	06.1A003	COVER, CRANKSHAFT FRONT	01.3A160
ARM, GENERATOR BRUSH	07.1A170	COVER, ENGINE FRONT LOWER	01.3A162
В		COVER, ENGINE FRONT ACCESSORY DRIVE	01.3A191
BLOCK, CYLINDER	01.1001	COVER, CRANKSHAFT FRONT COVER	01.3A195
BRACKET, ENGINE LIFTER-FRONT	01.2A070	SMALL HOLE COVER, FLYWHEEL HOUSING LARGE	01.5A030
BRACKET, ENGINE LIFTER - REAR	01.2A080	HOLE	
BOLT, ENGINE LIFTER EYE	01.2A100	COVER, FLYWHEEL HOUSING SMALL	01.5A050
BUSHING, CONNECTING ROD PISTON	01.6040	HOLE COVER, FLYWHEEL HOUSING	01.5A061
BEARING, CONNECTING ROD PISTON	01.6090	ACCESSORY HOLE	
PIN	00 15500	COVER, STARTING MOTOR HOLE	01.5A070
BRACKET ASSY., ELECTRONIC CONTROL MODULE MOUNTING	02.1B503	COVER, FLYWHEEL HOUSING INSPECTION HOLE	01.5A080
BOLT, ROCKER COVER	01.8A460	COVER, FLYWHEEL HOUSING	01.5A085
BRACKET, BOAT BUILDER INTERFACE MODULE	02.1B514	COVER, FLYWHEEL HOUSING OIL HOLE	01.5A117
BRACKET, WIRING HARNESS	02.1B745	CONNECTING ROD ASSY.	01.6001
BRACKET, FUEL STRAINER MOUNTING	02.3A260	COVER ASSY., ROCKER	01.8A450
BRACKET, FUEL FILTER MOUNTING	02.3A530	CLAMP, INJECTOR	02.1A270
BLOCK, FUEL SYSTEM JUNCTION	02.5A250	CONNECTOR, COMMUNICATIONS	02.1B765
BRACKET, INTERCOOLER MOUNTING	03.7003	COVER, FUEL STRAINER	02.3A080
BALL, LUBE OIL STRAINER BYPASS	04.2A130	CABLE	02.1B910
VALVE		CLAMP, AIR INLET PIPE HOSE	03.1A280
BRACKET, OIL COOLER HOUSING SUPPORT	04.4A100	COVER, FUEL FILTER	02.3A390
BREATHER ASSY.	04.8A045	CLIP, FUEL PUMP TO FILTER HOSE	02.5A120
BASE, BREATHER	04.8A048	CLIP, FUEL PUMP TO JUNCTION BLOCK HOSE	02.5A146
BODY, BREATHER OR SEPARATOR	04.8A050	CLIP, FILTER TO FUEL MANIFOLD TUBE	02.5A155
BRACKET, BREATHER/COLLECTOR	04.8A056	CLIP, FILTER OUTLET TUBE	02.5A156
MOUNTING BRACKETS, COLLECTOR	04.8A260	CLIP, FUEL SUPPLY CROSSOVER TUBE	02.5A164
BRACKET, WATER CROSSOVER TUBE	05.3B475	CLIP, CYLINDER HEAD INLET	02.5A180
BLADE, FAN HIGH LOW AND	05.4A010	CLIP, FUEL DRAIN	02.5A220
CRANKSHAFT MOUNTED BRACKET, FAN SUPPORT	05.4A010 05.4A027	CONNECTOR, TURBOCHARGER EXHAUST INLET	03.5A305
BRACKET, FAN BELT TENSIONER ASSY		CLIP, TURBOCHARGER OIL SUPPLY	03.5A502
BRACKET, EXHAUST MANIFOLD	06.1A002	TUBE COLLECTOR ASSY.	04.8A200
SUPPORT POLIT EYHALIST MANUSOLD TO LIEAD	00.14005	COVER, OIL FILTER	04.2A290
BOLT, EXHAUST MANIFOLD TO HEAD	06.1A025	CORE, OIL COOLER ENGINE	04.4A001
BRACKET, GENERATOR ADJUSTING STRAP	07.1A582	CORE, OIL COOLER-MARINE GEAR	04.4A002

DADT MARGE	GROUP NO.	Party Marge	000110 110
PART NAME COOLER ASSY., OIL COOLER	04.4A005	PART NAME FLANGE, OIL DRAIN	GROUP NO. 01.3A185
COVER, OIL COOLER HOUSING	04.4A060	FLYWHEEL ASSY.	01.4A001
CONNECTOR, BREATHER TUBE	04.8A021	FORK, FUEL PUMP COUPLING	02.2220
CLAMP, BREATHER TUBE	04.8A039	FILTER ASSY., FUEL	02.3A310
CLIP, BREATHER TUBE	04.8A040	FILTER ASSY., SPIN ON FUEL	02.3A316
CONNECTIONS, COLLECTOR	04.8A250	FILTER UNIT, BREATHER	04.8A060
COVER, FRESH WATER PUMP BODY	05.1031	FLANGE, OIL PUMP COVER	04.1A222
COVER, THERMOSTAT HOUSING	05.2B120	FILTER ASSY., OIL	04.2A240
CONNECTION, HEAT EXCHANGER WATER OUTLET	05.3B312	FLANGE, EXHAUST MANIFOLD WATER OUTLET	
CONNECTION, HEAT EXCHANGER INLET	05.3B314	FLANGE, THERMO FAN DRIVE	05.4A368
CONNECTION, OIL COOLER WATER INLET	05.3B350	G	
CLAMP, OIL COOLER WATER INLET	05.3B366	GASKET, CYLINDER HEAD	01.2010
CONNECTION EXHAUST MANUELD	05.00400	COMPRESSION	01.2010
CONNECTION, EXHAUST MANIFOLD FRESH WATER INLET	05.3B430	GEAR, CRANKSHAFT TIMING	01.3145
CLAMP, EXHAUST MANIFOLD FRESH	05.3B434	GASKET, CRANKSHAFT FRONT COVER	R 01.3A170
WATER INLET HOSE CONNECTOR, EXHAUST MANIFOLD	05.3B436	GASKET, ENGINE FRONT ACCESSORY DRIVE	01.3A192
FRESH WATER OUTLET	00.35430	GASKET,CRANKSHAFT FRONT COVER	01.3A196
CLIP,WATER CROSSOVER TUBE	05.3B476	SMALL HOLE COVER	
CYLINDER, SEQUENTIAL ACTUATOR	06.1A008	GEAR, FLYWHEEL RING	01.4A010
COVER, EXHAUST MANIFOLD	06.1A015	GASKET, FLYWHEEL HOUSING	01.5A010
COVER, STARTING MOTOR HOLE	07.3A738	GASKET, FLYWHEEL HOUSING LARGE HOLE COVER	01.5A040
Clamp, Starting Motor Solenoid Plunger Boot	07.3A410	GASKET, FLYWHEEL HOUSING SMALL HOLE COVER	01.5A060
D		GASKET, FLYWHEEL HOUSING ACCESSORY HOLE COVER	01.5A062
DAMPER, VIBRATION	01.3B210	GASKET, FLYWHEEL HOUSING COVER	01.5A095
DISC, FUEL PUMP DRIVE	02.2228	GASKET, FLYWHEEL HOUSING OIL HOLE COVER	01.5A118
2000 2000 2000		GEAR ASSY., IDLER	01.5A129
ELEMENT, FUEL STRAINER	02.3A010	GASKET, ROCKER COVER	01.8A455
ELEMENT, AIR CLEANER	03.1A050	GASKET, FUEL PUMP TO ENGINE OR DRIVE ASSEMBLY	02.2007
ELBOW AIR INTAKE MANIFOLD	03.3C808	GASKET, AIR CLEANER MOUNTING	03.1A087
ELEMENT, FUEL FILTER	02.3A320	ADAPTOR	
EXHAUST ADAPTOR, WASTEGATE	03.5A015	GASKET, AIR INTAKE MANIFOLD	03.3C803
ELEMENT, OIL FILTER	04.2A250	GASKET, CYLINDER HEAD VENT	04.8A110
EXTENSION, BREATHER TUBE	04.8A010	GASKET, TURBOCHARGER EXHAUST INLET CONNECTION	03.5A307
ELBOW, EXHAUST MANIFOLD	06.1A018	GASKET, INTERCOOLER/CHARGE AIR	03.5A446
ELBOW, THERMOSTAT HOUSING COVER OUTLET	05.2B122	COOLER GASKET, LUBE OIL STRAINER BYPASS	04.2A160
ELBOW, FRONT COVER WATER OUTLET		VALVE GASKET, OIL FILTER ADAPTOR TO OIL	04.2A293
EXPANDER, EXHAUST MANIFOLD	06.1A006	COOLER ADAPTOR	V+.4M430
ELBOW, EXHAUST CROSSOVER TUBE	06.1A181	GASKET, OIL FILTER BYPASS VALVE	04.2A389
Ë		HOUSING GASKET, OIL COOLER CORE PLATE	04.4A020

PART NAME	GROUP NO.	PART NAME	GROUP NO.
GASKET, OIL COOLER CORE-INNER	04.4A030	HOSE, JUNCTION BLOCK TO BOOST	02.5A183
GASKET, OIL COOLER BYPASS VALVE PLUG	04.4A170	COOLER HOSE, FUEL DRAIN CROSSOVER	02.5A206
GASKET, OIL PAN TO BLOCK	04.7A030	HOSE, FUEL DRAIN	02.5A215
GASKET, LOWER OIL PAN	04.7A040	HOSE ASSY., AIR VENT BLEEDER	02.5A530
GASKET, BREATHER BODY OR SEPARATOR	04.8A070	HOUSING/BASE, INTERCOOLER CHARGE AIR COOLER	03.5A432
GASKET, EXHAUST MANIFOLD	06.1A010	Hose, Collector Inlet	04.8A062
GASKET, EXHAUST MANIFOLD ADAPTOR	06.1A012	HOSE, TURBOCHARGER AIR OUTLET CONNECTION	03.5A420
GASKET, EXHAUST CROSSOVER TUBE	06.1A183	HOUSING, OIL FILTER BYPASS VALVE	04.2A388
GENERATOR ASSY.	07.1A001	HOUSING, OIL COOLER-ENGINE	04.4A050
GASKET, FRESH WATER PUMP	05.1010	HOUSING, TRANSFER OIL/WATER	04.4A189
GASKET, FRESH WATER PUMP BODY COVER	05.1032	HOSE, OIL COOLER INLET OIL	04.4A192
GASKET, THERMOSTAT HOUSING	05.2B110	HOSE, OIL COOLER OUTLET OIL	04.4A195
GASKET, THERMOSTAT HOUSING	05.2B130	HOSE, BREATHER EXTENSION	04.8A175
COVER		HOSE, OIL DRAIN	04.8A187
GASKET, OIL COOLER WATER INLET CONNECTION	05.3B360	HOUSING, THERMOSTAT	05.2B090
GASKET, FRONT COVER WATER OUTLET ELBOW	05.3B491	HOSE, THERMOSTAT HOUSING WATER OUTLET	
GASKET, EXHAUST MANIFOLD COVER	06.1A017	HOUSING, WATER DISTRIBUTION	05.2B155
GUARD, GENERATOR DRIVE BELT AND	07.1A585	HOSE, WATER BYPASS TUBE HOSE, TURBOCHARGER WATER INLET	05.2C165
PULLEY GASKET, STARTING MOTOR	07.3A004	HOSE, DE-AERATION	05.3B273 05.3B283
anoner, or arma moror	07.07.004	HOSE, OIL COOLER WATER INLET	05.3B265 05.3B365
-1		CONNECTION	00.0000
HEAD ASSY., CYLINDER	01.2001	HOSE, OIL COOLER WATER OUTLET	05.3B422
HOUSING ASSY., GEAR CASE	01.3A156	HOSE, EXHAUST MANIFOLD FRESH WATER INLET	05.3B432
HUB, VIBRATION DAMPER	01.3B230	HOSE, FRESH WATER OUTLET	05.3B446
HUB, FLYWHEEL FLEXIBLE COUPLING	01.4A080	HOSE, WATER CROSSOVER TUBE	05.3B474
HOUSING ASSY., FLYWHEEL	01.5A001	HOSE, OIL DRAIN	05.4A021
HUB, IDLER GEAR	01.5A130	HOSE., OIL SUPPLY	05.4A022
HARNESS, ECM BOAT BUILDER	02.1B690		
INTERFACE MODULE HARNESS, ELECTRONIC DISTRIBUTOR	02.1B700		
UNIT TO INJECTOR	02.16700	INJECTOR ASSY.	02.1A001
HARNESS, INTERFACE	02.1B703	INDICATOR/SENSOR, AIR CLEANER	03.1A002
HARNESS, ENGINE SENSORS TO ECM	02.1B704	RESTRICTION INTERCOOLER, TURBOCHARGER	03.5A425
HARNESS ASSY., INJECTOR SOLENOID WIRING	02.1B705	INTERCOOLER ASSY./ CHARGE AIR	03.7001
HARNESS, ENGINE SENSORS TO DISCONNECT	02.1B720	COOLER INSTALLATION KIT, BREATHER	04.8A046
HARNESS, POWER INTERFACE	02.1B740	К	
HOSE, AIR INLET PIPE	03.1A270		04 6404
HOSE, FUEL SUPPLY	02.5A009	KIT, CYLINDER LINER AND SEALS	01.6181
HOSE, FUEL PUMP OUTLET TO FILTER	02.5A110	KIT, COOLANT LEVEL SENSOR	02.1B670
HOSE, FUEL PUMP TO JUNCTION BLOCK		KIT WASTEGATE ACTUATOR	03.5A004
HOSE, FILTER TO CYLINDER HEAD	02.5A160		

PART NAME	GROUP NO.	PART NAME C	ROUP NO.
7.00.1	- -	RETAINER, BREATHER PAD	04.8A065
		RELAY ASSY., STARTER MOTOR TIME	07.3A737
LINER, CYLINDER	01.6180	DELAY	
LINE, FUEL INJECTION INTERNAL	02.1A006	· S	
LIMITER ASSY., COLLECTOR VACCUM	04.8A240	SPACER, CRANKSHAFT REAR OIL SEAL	01.3065
M		SHELL, CRANKSHAFT MAIN BEARING	01.3090
MODULE ASSY., ELECTRONIC CONTROL	02.1B501	SEAL, CRANKSHAFT OIL FRONT	01.3A166
(ECM)		SLEEVE, CRANKSHAFT OIL SEAL	01.3A167
MODULE, INTERFACE	02.1B512	SLEEVE, VIBRATION DAMPER HUB	01.3B232
MANIFOLD, EXHAUST	06.1A001	SEAL, CRANKSHAFT OIL	01.5A004
MOTOR ASSY., STARTING	07.3A001	SUPPORT ASSY., CRANKSHAFT REAR	01.5A021
P		SHELL, CONNECTING ROD BEARING	01.6100
	04.44000	SEAL, CYLINDER LINER	01.6190
PLATE, FLYWHEEL FLEXIBLE COUPLING		SERVICE KIT, INJECTOR	02.1A002
PLATE, FLYWHEEL HOUSING BELL COVER	01.5A003	SUPPORT, INJECTOR CLAMP	02.1A275
PISTON KIT	01.6110	SHIELD, WATER ECM	02.1B523
PIN, PISTON	01.6140	SENSOR, MAG. CRANKSHAFT	02.1B620
PLATE ASSY., ELECTRONIC DISTRIBUTOR UNIT COLD	02.1B520	SENSOR, OIL, FUEL OR COOLANT TEMPERATURE	02.1B630
Pipe Assy., Fuel Injector	02.2008	SENSOR/KIT , AIR PRESSURE/TURBO	02.1B650
PUMP ASSY., FUEL	02.2001	BOOST SENSOR, COOLANT LEVEL	02.1B665
PRIMER PUMP, FUEL	02.5A490	SENSOR, COOLANT PRESSURE	02.1B675
PUMP ASSY., OIL	04.1A001	STUD, INJECTOR CLAMP	02.1A280
PLUG, LUBE OIL STRAINER BYPASS	04.2A150	SENSOR, OIL OR FUEL PRESSURE	02.17E00
VALVE PLUG, OIL COOLER BYPASS VALVE	04.4A160	SENSOR, MAG. IDLER	02.1B610
PAN, OIL	04.7A001	SENSOR, TURBO SPEED	02.1B646
PAN, OIL UPPER	04.7A010	SENSOR, AIR TEMPERATURE	02.1B647
PAN, OIL LOWER	04.7A020	SENSOR, FUEL MONITOR	02.1B667
PLUG, OIL PAN DRAIN	04.7A080	SCREW, FUEL FILTER COVER	02.3A410
PIPE ASSY, BREATHER	04.8A001	SEPARATOR, FUEL WATER	02.3A590
PUMP ASSY., FRESH WATER	05.1001	SHIELDING, FLEXIBLE HOSE	02.5A255
PULLEY AND HUB ASSY., FAN	05.4A015	SPRING, LUBE OIL STRAINER BYPASS	04.2A140
PULLEY, FAN BELT IDLER	05.4A330	VALVE BALL	
PULLEY, GENERATOR	07.1A500	SHELL ASSY., OIL COOLER TUBE TYPE	04.4A003
PULLEY, BELT TENSIONER	07.1A925	SPRING, OIL COOLER BYPASS VALVE	04.4A150
ALTERNATOR		SHELL, BREATHER	04.8A055
PULLEY, GENERATOR DRIVE	07.1A505	STUD, EXHAUST MANIFOLD TO HEAD	06.1A020
R		STUD, EXHAUST MANIFOLD OUTLET	06.1A050
RING SET, PISTON	01.6115	SHIELD, GENERATOR	07.1A005
RING, PISTON COMPRESSION	01.6120	SPRING, GENERATOR BRUSH	07.1A160
RING, PISTON OUNTROL	01.6130	STUD, FRESH WATER PUMP MOUNTING	05.1020
RETAINER, PISTON PIN	01.6150	SPACER, FAN BLADE	05.4A011
REGULATOR/VALVE, BREATHER PIPE	04.8A003	SUPPORT, FAN MOUNTING	05.4A025
HEGOLATORIVALVE, DITEATHER FIFE	0 1, 00000	SPACER, FAN SUPPORT BRACKET	05.4A028

		000110010		
	RT NAME	GROUP NO.	PART NAME	GROUP NO.
	REW, FAN BRACKET ADJUSTING JD, EXHAUST MANIFOLD TO	05.4A290 06.1A022	VALVE, LUBE OIL STRAINER BYPASS VALVE, OIL COOLER BYPASS	04.2A120 04.4A140
	RBOCHARGER	00. IA022	VALVE, SOLENOID	05.4A186
STF	RAP, GENERATOR ADJUSTING	07.1A580	VALVE, SEQUENTIAL ACTUATOR	06.1A007
SUF	PPORT, GENERATOR BRACKET	07.1A596	VILLY E, SEGOLIVIDIE / 1010/11/11	00.17.007
	T			
TUE	BE, OIL COOLER INLET	01.3A186		
TUE	BE ASSY., FUEL SUPPLY	02.1A004		
TIP	ASSY., INJECTOR SPRAY	02.1A235		
TUE	BE, INJECTOR HOLE	02.1A290		
TUE	BE, FUEL PUMP TO FILTER	02.5A100		
	BE, FUEL PUMP OUTLET TO FUEL OLER	02.5A111		
	BE, FUEL FILTER TO JUNCTION OCK	02.5A148		
TUE	BE, FILTER TO CYLINDER HEAD	02.5A149		
TUE	BE, FILTER TO FUEL MANIFOLD	02.5A150		
TUE	BE, COOLER TO FILTER HEAD	02.5A153		_
TUE	BE, FUEL SUPPLY CROSSOVER	02.5A163		
TUE	BE, JUNCTION BLOCK TO CYLINDEF AD	02.5A175		
TUE	BE, FUEL DRAIN CROSSOVER	02.5A205	omera = VS	
TUE	BE, FUEL DRAIN	02.5A210	A .	
TUF	RBOCHARGER	03.5A001	·	
TUE	BE, TURBOCHARGER OIL RETURN	03.5A505		
TUE	BE, TURBOCHARGER OIL SUPPLY	03.5A500		
TUE	BE, INTERCOOLER WATER INLET	03.7070		
TUE	BE, OIL COOLER WATER OUTLET	04.4A270		
TUE	BE, OIL PAN DRAIN	04.7A100		
THE	ERMOSTAT ASSY.	05.2B050		
TUE	BE ASSY., WATER PUMP INLET	05.2B070		
TUE	BE, WATER BYPASS	05.2C160		
TUE	BE WATER BYPASS VENT	05.2C250		
	BE, TURBOCHARGER WATER FURN	05.3B269		
TUE	BE, WATER PUMP INLET	05.3B329		
TEN	ISIONER, BELT	05.4A340		
TUE	BE, EXHAUST CROSSOVER	06.1A180		
	V			
Valv	ve Assy., Fuel Pump Check	02.2035		
VAL	VE, FUEL SYSTEM SHUTOFF	02.5A260		
VAL	VE, FUEL DRAIN CHECK	02.5A209		
VEN	NT, CYLINDER HEAD	04.8A100		
VAL	VE BODY ASSY., WASTEGATE	03.5A014		

		-
	man is To	
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01

01	ENGIN	E (LESS MAJOR ASSEMBLIES)
	01.1	CYLINDER BLOCK
	01.2	CYLINDER HEAD
	01.2A	ENGINE LIFTER BRACKET
	01.3	CRANKSHAFT, OIL SEALS AND STABILIZERS
	01.3A	CRANKSHAFT FRONT COVER
	01.3B	VIBRATION DAMPER
	01.4A	FLYWHEEL
	01.5A	FLYWHEEL, HOUSING
	01.6	CONNECTING ROD AND PISTON
	01.8A	ROCKER COVER
02	FUEL S	YSTEM
	02.1A	FUEL INJECTOR/CNG CONTROLS
	02.1B	INJECTOR, CONTROLS ELECTRONIC
	02.2	FUEL PUMP
	02.3A	FUEL FILTER AND STRAINER
	02.5A	FUEL LINES AND FUEL COOLER
03	AIR SY	STEM
	03.1A	AIR CLEANER AND/OR ADAPTOR
	03.3C	AIR INTAKE MANIFOLD
	03.5A	TURBOCHARGER, INTERCOOLER AND AFTERCOOLER
	03.7	INTERCOOLER/AFTERCOOLER
04	LUBRIC	CATING SYSTEM
	04.1A	OIL PUMP
	04.2A	OIL FILTER
	04.4A	OIL COOLER AND MARINE GEAR LINES
	04.7A	OIL PAN
	04.8A	VENTILATING SYSTEM
05	COOLI	ng system
	05.1	FRESH WATER PUMP
	05.2B	THERMOSTAT
	05.20	WATER BYPASS TUBE
	05.3B	WATER CONNECTIONS
	05.4A	FAN
06	EXHAU	ST SYSTEM
	06.1A	EXHAUST MANIFOLD AND/OR CONNECTIONS
07	ELECTI	RICAL INSTRUMENTS
	07.1A	BATTERY, CHARGING GENERATOR
	07.3A	STARTING MOTOR

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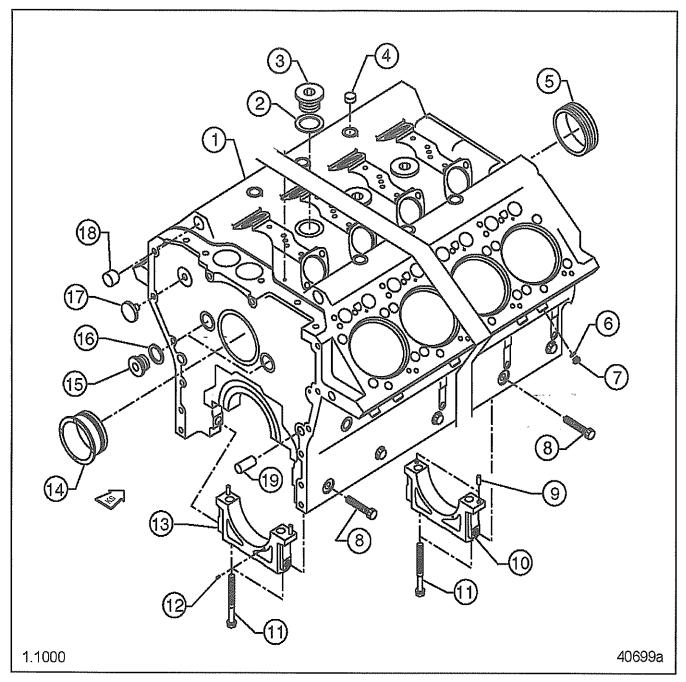


FIG 1 of 01.1

					TYPES
		01.1 CYLINDER BLOCK			
FIG REF.	PART NO.		ASSY. QTY.	6 6 3	
01	.1001	BLOCK, CYLINDER			
	000908010002	PLUG THREADED		1	
	5350101405	BLOCK ASSY., CYLINDER 12V		1	
	000908030002	PLUG SCREW M30 X 1.5 STL	2		
	000908052003	PLUG M52X1.5 STL DBL 8451.21	5		
	001474004018	CYL GROOVE PIN 4X10	2		
	007603014102	WASHER, A14 X 18 COPPER	4		
	007603030101	WASHER, A30 X 36 COPPER	2		
	007603052401	RING	5		
	007604014102	PLUG AM14X1.5	4		
	5249970020	CAP, SEALING	5		
	5350111201	CRANKCASE, 12V	1		
	5360110271	NOZZLE	1		
	5360511210	BEARING, THRUST S2000	1		
	5360512710	BUSHING CAM	6		
	5410100023	CAP, MAIN BEARING (INCLUDES 2-000007008	6		
	5410100123	CAP ASSY., MAIN BEARING THRUST	1		
	5410110071	BOLT,-MAIN BEARING CAP (S2000)	NS		
	5419900101	BOLT, MAIN BEARING CAP CROSS	14		
	5550160233	SEALING CAP	12		
	735073004000	PLUG, RIVET TYPE M4	1		
	5360110471	BOLT, M18 X 2 X 173 10.9 MAIN BRG CAP	14		

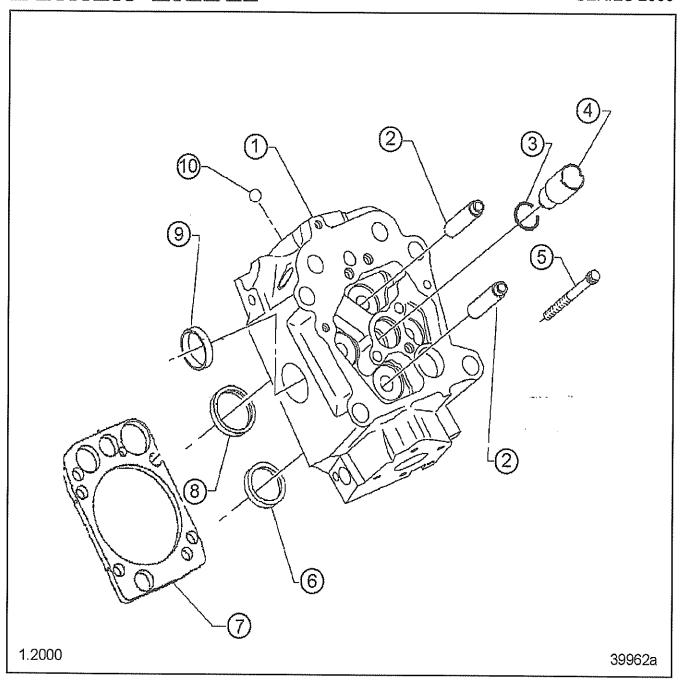


FIG 1 of 01.2

				TYPES
	01.2 CYLINDER HEAD		5	
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. QTY.	8	
01.2001 5220100220	HEAD ASSY., CYLINDER Head Assy., Cylinder Complete		12	
5419900001	BOLT, CYLINDER HEAD MOUNTING		48	
6019920325	PIN, SLOT SPR. 10.05 X 15		24	
01.2010	GASKET, CYLINDER HEAD COMPRESSION			
5410160920	GASKET, CYLINDER HEAD		12	

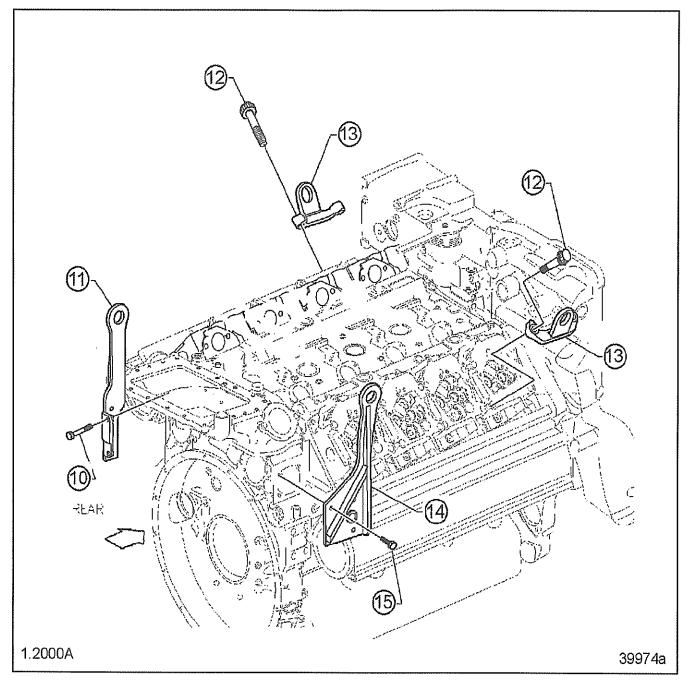


FIG 1 of 01.2A

								TYF	PES			
		01.2A ENGINE LIFTER BRACKE	ΞT									
FIO	DADTNO	MARKE AND DECODIDEION	A 0.03/	3 6 5								
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	5				***************************************				
01	.2A070 000007025103	BRACKET, ENGINE LIFTER-FR	ONT	2								
		, .										l
	000931012033	BOLT, M12 X 50		5								l
	000931012223	bolt, m12 1.75 x 60 10.9 hex		5	1							1
	007349013002	WASHER M13		10	- Anna Anna Anna Anna Anna Anna Anna Ann	***	***					
	5222240240	bracket		2			***************************************					
01	.2A080	BRACKET, ENGINE LIFTER - R	EAR		-							
	000125017014	WASHER A17 140HV		4								ĺ
	304017016027	BOLT, M16 X 50		4			******					İ
	5222230241	bracket, rear		1								l

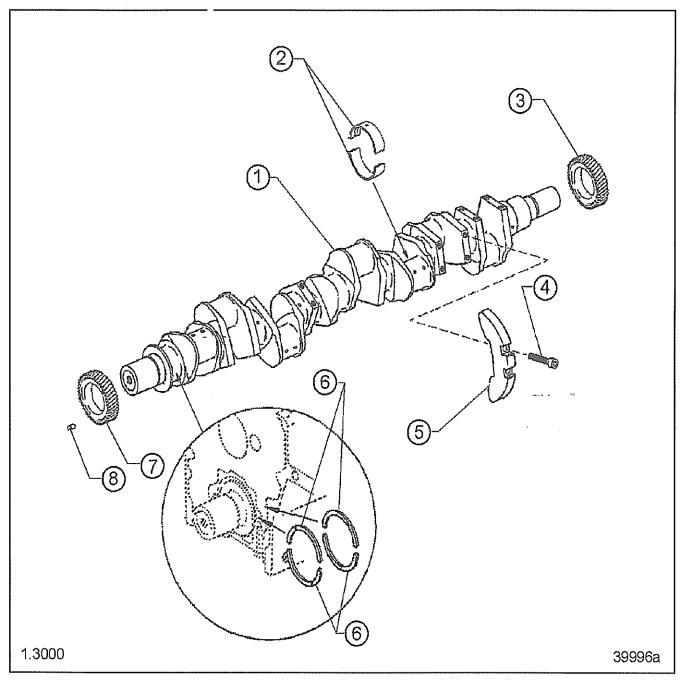


FIG 1 of 01.3

			TYPES
	01.3 CRANKSHAFT, OIL SEALS AND		
	STABILIZERS	2 0	
FIG PART NO. REF.	NAME AND DESCRIPTION ASSY. QTY.	6	
01.3001	CRANKSHAFT ASSY.		
5220301101	crankshaft assy., 12V	1	
01.3090	SHELL, CRANKSHAFT MAIN BEARING		
23528399	KIT, MAIN BEARING STD	7	
23528400	SHELL SET, .10 UNDERSIZE	AR	
23528401	SHELL SET, .25 UNDERSIZE	AR	
23528402	SHELL SET, .50 UNDERSIZE	AR	1
23528403	SHELL SET, .75 UNDERSIZE	AR	
23528404	SHELL SET, 1.00 UNDERSIZE	AR	
5410330962	THRUST WASHER, 5.375 W	4	

					TYPES
		01.3A CRANKSHAFT FRONT COV	ER		
				2	
=10	Pro. 0 100 100 10 10 10 10 10 10 10 10 10 10			6	
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3	\$ 120 mm
Filmi".			GH.		
01	.3A156	HOUSING ASSY., GEAR CASE			
	000125008427	WASHER A8.4		6	
	000125010524	WASHER A10.5		20	444
	000125017014	WASHER A17 140HV		6	
	000931008189	BOLT, M8 1.25 X 85 8.8		2	
	000931010247	BOLT, M10 X 120		9	
	000931010296	BOLT M10 1.50 X 85 8.8 DBL8421 DIN 931		5	
	000931010336	BOLT, M10 X 130 LG		5	
	000931016046	bolt, m16 2.00 x 95 8.8 hex		3	
	000931016051	bolt, m16 2.00 x 140 8.8 hex		1	
	000931016077	BOLT, M16 2.00 X 120 8.8		2	
	304017008084	BOLT, M8 X 35 8.8		4	
	304017008088	BOLT, M8 1.25 x 55 8.8; USE: 304017008084		NS	
	5220100633	housing, gear case assy.td/tb		1 1	
	5222020007	hub		1	
	5352000044	gear, idler assy.		1	
	5551870640	BRACKET, L 51 X 38 X 20		1	
01	.3A158	COVER, GEAR CASE			
0.	000007008210	PIN, M8 X 24		2	
	000125010524	WASHER A10.5		3	
	000931010239	BOLT, M10 X 80 8.8		8	
	000933010116	BOLT, M10 X 45		5	
	000933010150	BOLT, M10 X 55			
	5220100117	cover, gear case assy. tb/td		1	
01	.3A170	GASKET, CRANKSHAFT FRONT			
		COVER			
	5360150280	GASKET		1	
	700429027003	ring-o, 27 x 4 mmn 429		1	
	700429028003			2	
	700429080001	SEAL RING, 80 X 5		1	
	700429095004	O-RING, 95 X 5		2	
				. ;)

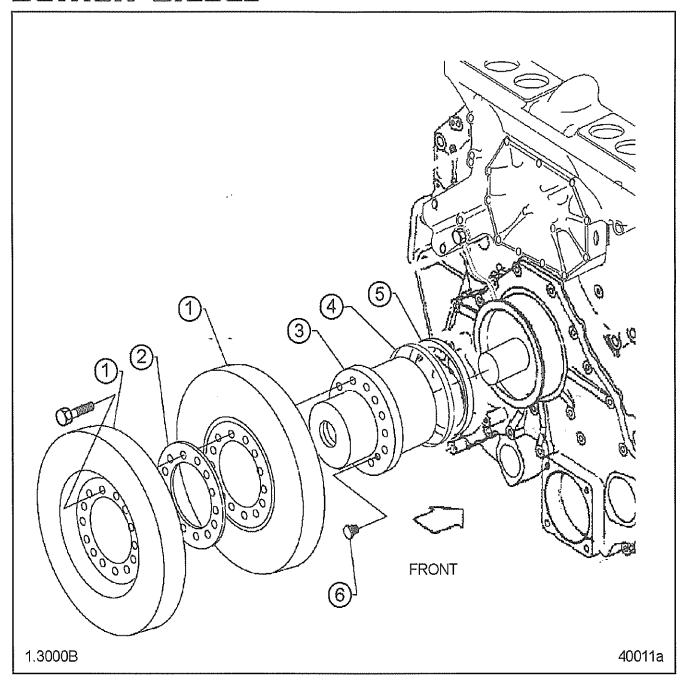


FIG 1 of 01.3B

					TYPE	ES		
	01.3B VIBRATION DAMPER							
			2 3					
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. QTY.	6					
01.3B210	DAMPER, VIBRATION							
0000352000	Damper, Vibration		1					
000912008014	BOLT, M8 X 25		24			-		
200433008400	WASHER		24					

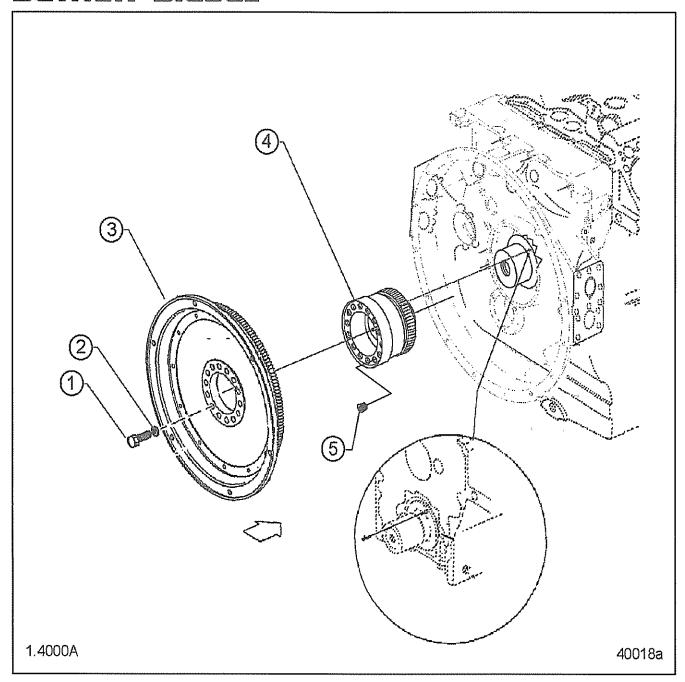


FIG 1 of 01.4A

							TYPES	;			
	01.4A FLYWHEEL										
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. QTY.	1 3 1 4				,		*****		
01.4A001	FLYWHEEL ASSY.										
00000002976	bolt, m16 x 1.5 x 55 iso 8676 10.9		14								
0249975047	seal, lip shaft radial		1								
5220300905	flywheel assy.		1	İ						1 1	İ
700521016200	WASHER, M16 X 2		14							1 1	
8809970210	DOWEL PIN M91CE S2000		1			-					
01.4A080	HUB, FLYWHEEL FLEXIBLE COUPLING						***************************************	Athacharthernature.			
5220320107	hub, tb/td flywheel		1			ļ					

							TYPES	;		
		01.5A FLYWHEEL, HOUSING								
EIC	DADTAIO	NABSE AND DECORPTION	& CCV	9 4 8						
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	$ ^{\circ} $						
01	1.5A001	HOUSING ASSY., FLYWHEEL							İ	
	000000003238	Bolt, M12 x 1.5 x 80		2						
	000000003239	Bolt, M112 X 1.5 X 140		8	ŀ					
	000125008427	WASHER A8.4		2						
	000125013012	WASHER A13		14						
	000933008028	BOLT, M8 X 18 8.8		2						
	000934012023	Nut, Hex M12; USE: 308673012002		NS						
	000939012100	Stud, M12 x 1.5 x 80 10.9		4						
	308673012002			4						
	5220101037	Housing, Flywheel TB/TD		1						
	5220320015	Pointer		1			Ì			
	700429020003	SEAL RING, 20 X 4		1						
0-	1.5A003	PLATE, FLYWHEEL HOUSING BE	LL							
	00000001039	BOLT M10 X 40 8.8 16V4000		2						-
	000125008427	WASHER A8.4		6						
	000125010524	WASHER A10.5		4						
	000933010092	BOLT M10 X 30.0 LG		1			**			
	000933010116	BOLT, M10 X 45		1						
	136M52010/1	BRACKET		1						
	304017008084	BOLT, M8 X 35 8.8		5						
	304017008085	BOLT, M8 X 40 8.8		1						
	5220110621	Plate, Blanking		1						
	5225460043	BRACKET		1						ŀ
0	1.5A010 5220130180	GASKET, FLYWHEEL HOUSING Gasket		1	***************************************					
0	1.5A085 000125008427	COVER, FLYWHEEL HOUSING WASHER A8.4		4						
	0005312081	Cable, Clamp Quick		1						
	304017008079	BOLT, M8 X 20 8.8		3						
	304017008084	BOLT, M8 X 35 8.8		1						
	5220130333	Cover		2						
	5511530050	SPACER, 10MM X 18MM		1						
	700327010000	GROMMET, M10		1						
	916016008202	CLAMP, BRSGU 8/20		1						

TYPES

		01.6 CONNECTING ROD AND PISTON					•				
FIG REF.	PART NO.	NAME AND DESCRIPTION ASS	γ.	8 3 9		etelet dan deletelet er er er er er er er er er er er er er	**************************************	A CONTRACTOR OF THE CONTRACTOR			
01	.6001	CONNECTING ROD ASSY.									
	5410380071	BOLT, CONNECTING ROD (USE W/SPLIT LINE ROD)	2	:4							
	5410380450	bushing, conrod		1							l
	5420300520	conrod assy.	1	2			***************************************	***************************************			
01	.6100	SHELL, CONNECTING ROD BEARING	ļ								
	5360382410	BEARING, UPPER CONN ROD STD	1	6							
	5420382211	BEARING, LOWER CONN ROD STD	4	6				200			
01	.6110	PISTON KIT	***************************************	Verter to the contract of the							
	5220302417	piston/rings/pin, 14:1	***************************************	2							
01	.6180	LINER, CYLINDER		obumerere chamber							
	5360110359	RING, OIL CONTROL LINER M91CE	1	2					l		
	5360110410	LINER, CYLINDER CARBON SCRAPER	1	2							
01	.6190	SEAL, CYLINDER LINER								-	
	0229974948	RING, SEAL LINER LOWER	2	:4							
	5410110059	SEAL RING, BRASS UPPER	1	2							

						TYF	PES				
	01.8A ROCKER COVER										
FIG PART NO. REF.		ASSY. ATY.	6 9 5					V.		ANNUAL DE LA CONTRACTOR	
01.8A450 5310160605	COVER ASSY., ROCKER COVER, VALVE S2000		7								
01.8A455 5310160021	GASKET, ROCKER COVER GASKET, VALVE COVER		7								
01.8A460 910105008022	BOLT, ROCKER COVER BOLT, ROCKER COVER MOUNTING \$2000		14								

40	P 4	
200	200	

01	ENGI	JE (LESS MAJOR ASSEMBLIES)
	01.1	CYLINDER BLOCK
	01.2	CYLINDER HEAD
	01.2A	ENGINE LIFTER BRACKET
	01.3	CRANKSHAFT, OIL SEALS AND
	12 4 11.5	STABILIZERS
	01,3A	CRANKSHAFT FRONT COVER
	01.38	VIBRATION DAMPER
	01.4A	FLYWHEEL
	01.5A	FLYWHEEL, HOUSING
	01.6	CONNECTING ROD AND PISTON
	01.8A	ROCKER COVER
02	FUEL	SYSTEM
	02.1A	FUEL INJECTOR/CNG CONTROLS
	02.1B	INJECTOR, CONTROLS
		ELECTRONIC
	02.2	FUEL PUMP
	02.3A	FUEL FILTER AND STRAINER
	02.5A	FUEL LINES AND FUEL COOLER
03		YSTEM
	03.1A	
	03.3C	AIR INTAKE MANIFOLD
	03.5A	TURBOCHARGER, INTERCOOLER
		AND AFTERCOOLER
	03.7	INTERCOOLER/AFTERGOOLER
04		CATING SYSTEM
	04.1A	OIL PUMP
	04.2A	OIL FILTER
	04.4A	OIL COOLER AND MARINE GEAR LINES
	04.7A	OIL PAN
	04.8A	VENTILATING SYSTEM
05	COOL	ING SYSTEM
	05.1	FRESH WATER PUMP
	05.2B	THERMOSTAT
	05.2C	WATER BYPASS TUBE
	05.3B	WATER CONNECTIONS
	05.4A	FAN
06	EXHA	UST SYSTEM
	06.1A	EXHAUST MANIFOLD AND/OR CONNECTIONS
07	ELECT	FRICAL INSTRUMENTS
	07.1A	BATTERY, CHARGING GENERATOR
	07.3A	STARTING MOTOR

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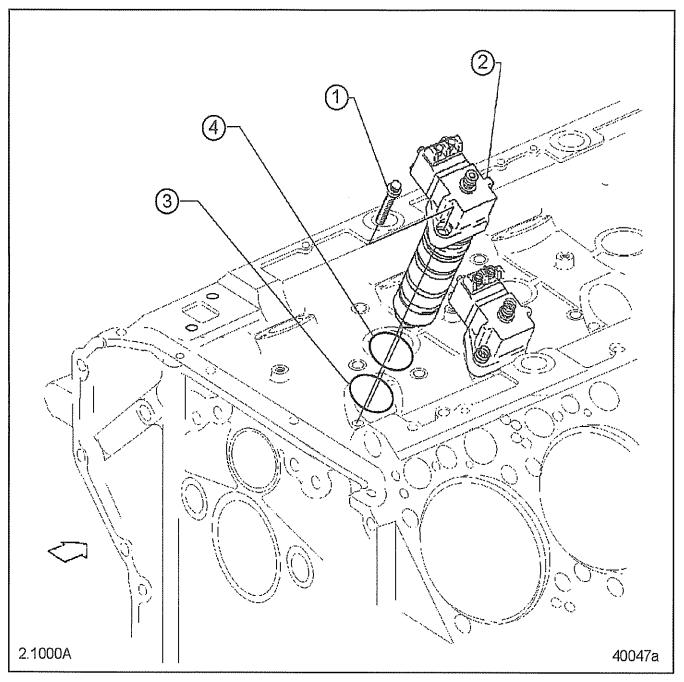


FIG 1 of 02.1A

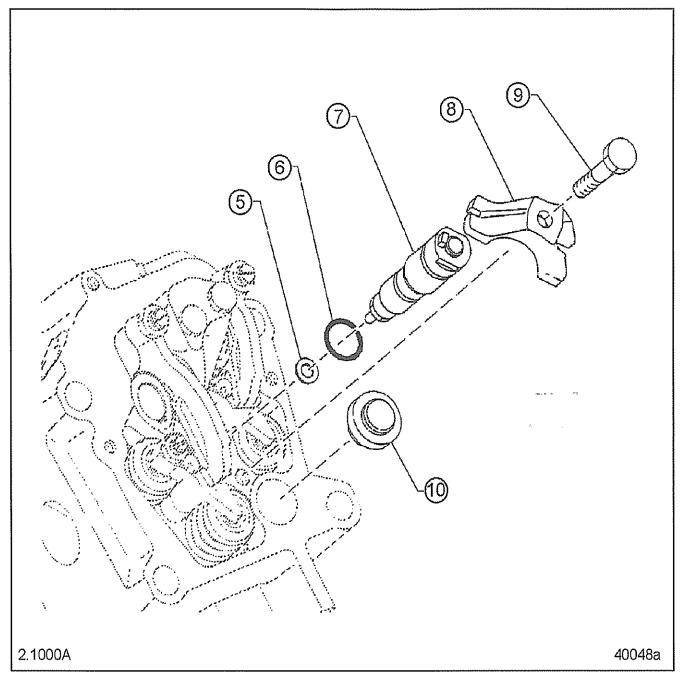


FIG 2 of 02.1A

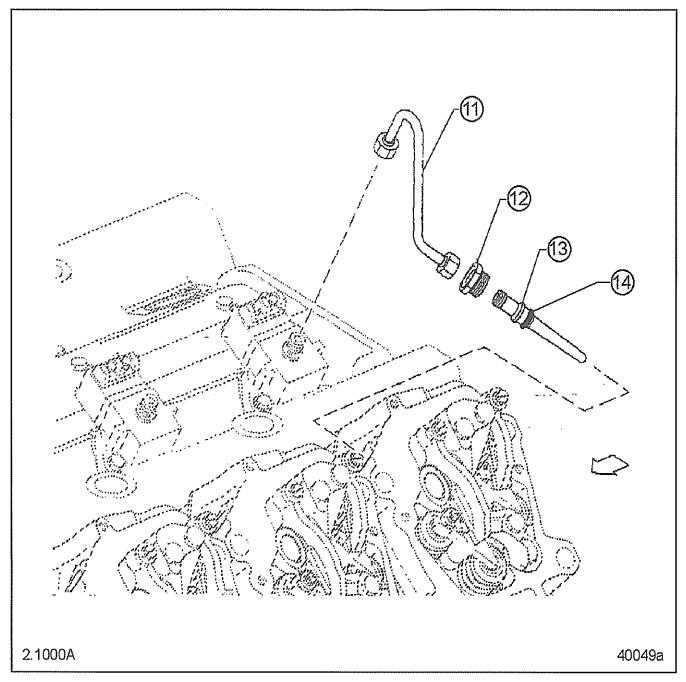


FIG 3 of 02.1A

									TYPES					-
		02.1A FUEL INJECTOR/CNG												
		CONTROLS		_	-	. 1	1			1 1	1	1	- 1	
		COMMOLO		5	5				ļ					
				2	3		1		İ					
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	2	2									
REF.			QTY.											
												ŀ		
02	.1A001	INJECTOR ASSY.					Ì						ŀ	
2:7	0010108651	Injector			12		İ							
1:2		PUMP INJECTION M91CE S2000										1		
1.2	0050709601	POWE INJECTION WISTON 52000		12			İ					1		
	0239976448	SEAL RING, UPPER 47 X 2.5	1											
	0239976548	SEAL RING, LOWER 45 X 2.5	1											
1:1	5419900301	BOLT, M10 12PT UNIT PUMP		24			j							
													- 1	
02	.1A004	TUBE ASSY., FUEL SUPPLY												
3:11	5220705132	Tube, Fuel High Pressure External		12									1	
	0000700100			'-							ľ	1		
02	.1A006	LINE, FUEL INJECTION INTERNAL												
3:12	0000170824	Tube Assy., Fuel Injector	-	١.,								ŀ		
	0000170824	• • •		12			1							
3:12	5410170071	RETAINER NUT M22 X 1.50 M91CE S2000		12										
02	.1A270	CLAMP, INJECTOR											ļ	
2:8	5410780535	CLAMP. INJECTOR NOZZLE			12									
02	.1A275	SUPPORT, INJECTOR CLAMP											-	
2:10	5410100535	Plug Assy. Injector Clamp W/O-Ring			12									
	071010000			I	1 -		1	1 1	i	1			ı	

								TY	PES		
		02.1B INJECTOR, CONTROLS ELECTRONIC		9	9	9	***************************************	***************************************	****************		1
FIG F REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	0	1	6					
02.1	B501	MODULE ASSY., ELECTRONIC									
	5275304760	CONTROL (ECM) CONTROL UNIT, ELECTRONIC		1							
02.11	B610 0005357433	SENSOR, MAG. IDLER SENSOR, SPEED				2					
02.1	B630	SENSOR, OIL, FUEL OR COOLAN	Т								
	0035352531	TEMPERATURE SENSOR, PRESSURE (10 BAR)				1					
02.11	B647 0005356430	SENSOR, AIR TEMPERATURE SENSOR, AIR/FUEL/WATER TEMPERATURE				4					
02.11	B650	SENSOR/KIT , AIR PRESSURE/TU BOOST	RBO								
	0035352731	SENSOR, PRESSURE				1					
02.11	B700	HARNEŜS, ELECTRONIC DISTRIBUTOR UNIT TO INJECTOR	3					ę			-
(000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125				6					
(000933006074	BOLT, M6 X 10		- Anna Paris		6		**			
	5365305821	Harness, Wiring assy. Injector				1					
•	916016022203	Clamp, Brsgu				6	•				
02.1	B704	HARNESS, ENGINE SENSORS TO	ECM								
(000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 126			2						
•	000125008427	WASHER A8.4			8						
(000125010524	WASHER A10.5			2						
	0005334943	bracket, TOP DN17			1						
	0005335043	RETAINER, TOP DN10			1						
	0005461220	STRIP ASM			1						
	000933006175	BOLT, M6 X 16 8.8			1						
	000933010035	BOLT, M10 X 25			1						
	000933010089	BOLT M10 X 20			1						
	000934006006	NUT, HEX M6			1						
	000934008008	NUT, HEX M8			5						
;	304017008079	BOLT, M8 X 20 8.8			3						
	5221530026	DAMPER, SPR ADJ WRG HARNESS			4						İ
	5221531640	RETAINER			1						
	5241506473	BRACKET ASSY., wiring harness			1						
	5241534240	BRACKET, 62.5 X 55 37.5 X 2.5 Harness, Wiring assy. Sensor			1	_					
	5365305921	namess, withing assy. Sensor				1					
02.1	B745	BRACKET, WIRING HARNESS									
	5221532240	Bracket			1						
	5241505776	Bracket			1						
	8831530240	Bracket			1						

				TYPES				3						
		02.1B INJECTOR, CONTROLS ELECTRONIC		9	9	9	- Armental de la Constitución de			-	-			
FIG REF.	PART NO.	NAME AND DESCRIPTION	assy. Qty.	0	1	6								
02	18745	BRACKET, WIRING HARNESS												

					TYPES
		02.2 FUEL PUMP			
				3	
				7	
FIG REF.	PART NO.	NAME AND DESCRIPTION ASS QTY		5	
02	2.2001	PUMP ASSY., FUEL			
	000000003110	Bolt, M8 1.25 x 60 10.9		1	
	000125008427	WASHER A8.4		3	
	000125013012	WASHER A13		2	
	000933012056	BOLT M12X30MM		2	
	0009900384	Union, Banjo		1	
	0019903463	Screw, Banjo		3	
	007603018101	007603018101		9	V V V V V V V V V V V V V V V V V V V
	304017008079	BOLT, M8 X 20 8.8		3	
	5220700181	Hose, Fuel Tube Assy.		1	
	5220700281	Hose Assy., Fuel Line		1	
	5220703781	Hose, Fuel Tube Supply		1	
	5220780031	Union, 30 x 36		1	
	5220781241	Bracket, 66 x 20 x 6		1	
	5220900150	Pump_Fuel Priming		1	
	5220910045	Flange		1	
	5319971132	PLUG ASSY., M18 X 1.5		2	
	5360910201	PUMP ASSY., FUEL 16V; USE: E23526550		NS	
	700294015004	RING O 15.5 X 2.5 MMN 294 M91CE S2000	İ	2	
		NUT			
	915001013003	CONE, SEALING	1	1	
	915005013004	OONE, SEALING		1	
	E23526550			1	
02	2.2007	GASKET, FUEL PUMP TO ENGINE OR			
		DRIVE ASSEMBLY			
	5220910080	Gasket		1	
	5360780380	GASKET M91CE 16V S2000	***************************************	6	
02	2.2008	Pipe Assy., Fuel Injector	4		
	304017008091	Bolt, M8 1.25 x 55 10.9 Hex		5	
	5220701177	Pipework Assy., Fuel Manifold		1	
	5221531540	Bracket, 50 x 16 x 5		5	
02	2.2035	Valve Assy., Fuel Pump Check		_	
	000125008427	WASHER A8.4		2	
	304017008077	BOLT, M8 X 16 8.8		2	
	5220700046	Valve, Non Return		1	
	5220700346	Valve, Press Relief Assy.		1	
02	2.2228	DISC, FUEL PUMP DRIVE			
	000125008427	WASHER A8.4		3	
	05150193	GASKET (FUEL PUMP TO DRIVE ASSY.) (5.1010)		1	
	304017008083	BOLT, M8 X 30		3	
	5220910071	Bolt, M10 x 49.5 6.5 42CRM00		1	
	5360910525	Driver, M91CE		1	
	5360920080	Gasket; USE: 05150193		NS	
			I	-	

	oo o maagmi maaaa	TYPES	
	02.2 FUEL PUMP	3	
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. 5 GTY.	
02.2228	DISC. FUEL PUMP DRIVE		

								TYF	ES		
	02.3A FUEL FILTER AND STRAINE	R									
FIG PART NO. REF.		ASSY. QTY.	1 1 0 4	, and the state of							
02.3A260	BRACKET, FUEL STRAINER MOUNTING			- Annahaman da da da da da da da da da da da da da	***************************************						
5220900541	Bracket		1		***************************************	***************************************					**************************************
02.3A310 0020922801	FILTER ASSY., FUEL FILTER, EASY CHANGE		1			version of the second s	betreuer freederschaftschieberster				

									TYP	ES			
	02.5A FUEL LINES AND FUEL CO	OLER	?										
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. QTY.	2 4 8 7						And the second s				
02.5A205 000125008427	TUBE, FUEL DRAIN CROSSOVER WASHER A8.4		1										
304017008077	BOLT, M8 X 16 8.8		1										
5220704681	Hose Assy., Fuel Line		1										
5220705432	Hose Assy., Fuel Line		1										
916016006202	CLAMP, BRSGU		1										

	11/12	
	n l	

01	ENGIN	IE (LESS MAJOR ASSEMBLIES)
	01.1	CYLINDER BLOCK
	01.2	CYLINDER HEAD
	01.2A	ENGINE LIFTER BRACKET
	01.3	CRANKSHAFT, OIL SEALS AND
	× 4.475	STABILIZERS
	01.3A	CRANKSHAFT FRONT COVER
	01.3B	VIBRATION DAMPER
	01.4A	FLYWHEEL
	01.5A	FLYWHEEL, HOUSING
	01.6	CONNECTING ROD AND PISTON
	01.8A	ROCKER COVER
02		SYSTEM
****	02.1A	FUEL INJECTOR/CNG CONTROLS
	02.1A 02.1B	INJECTOR, CONTROLS
	UZ.310	ELECTRONIC
	02.2	FUEL PUMP
	02.3A	FUEL FILTER AND STRAINER
	02.5A	FUEL LINES AND FUEL COOLER
03		YSTEM
		AIR CLEANER AND/OR ADAPTOR
	03.3C	AIR INTAKE MANIFOLD
	03.5A	TURBOCHARGER, INTERCOOLER
		AND AFTERCOOLER
	03.7	INTERCOOLER/AFTERCOOLER
04		ICATING SYSTEM
	04.1A	OIL PUMP
	04.2A	OIL FILTER
	04.4A	OIL COOLER AND MARINE GEAR
		LINES
	04.7A	OIL PAN
	04.8A	VENTILATING SYSTEM
05	COOL	ing system
	05.1	FRESH WATER PUMP
	05.28	THERMOSTAT
	05.2C	WATER BYPASS TUBE
	05.3B	WATER CONNECTIONS
	05.4A	FAN
06	EXHA	ust system
	06.1A	EXHAUST MANIFOLD AND/OR CONNECTIONS
07	ELEC.	TRICAL INSTRUMENTS
	07.1A	BATTERY, CHARGING GENERATOR
	07.3A	STARTING MOTOR

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								TYF	ES			
	03.1A AIR CLEANER AND/OR ADAPTOR			1	1	1	1			l	1 1	ı
	ADAFTON		0									
FIG PART NO.	NAME AND DESCRIPTION	ASSY.	0									
REF.		QTY.										
03.1A001	AIR CLEANER ASSY.		*****	-		ļ						
0180945802	CLEANER, AIR FILTER DONALDSON		2	vermenteenhauste	**************							***************************************
03.1A280	CLAMP, AIR INLET PIPE HOSE			**************************************	***************************************	444						
900288214001	HOSE CLAMP		2			1						

							TYF	PES				
		03.3C AIR INTAKE MANIFOLD										
				5	6							
				9	0					Ì		
FIG REF.	PART NO.		NSSY.									
ner.		•	dir.									
03.	3C801	AIR INTAKE MANIFOLD										
	000000000681	CLAMP 160-180X13-SW8-W3 MBN 10223 POLY/	AM	4								
	0000943268	GAUGE VACUUM MARINE		2								
	000125008427	WASHER A8.4		2	3				***************************************			
	000125010524	WASHER A10.5		5								
	0005334843	RETAINER, TOP DN23			2							
	0005334943	bracket, TOP DN17			1							
	0005335043	RETAINER, TOP DN10		2	3							
	000908010002	PLUG THREADED			2							
	000913008103	screw, grub m8 x 20 45h			12							
	000933010093	BOLT M10 X 35		4					1			
	000933010144	BOLT, M10 X 60.0 LG		1							İ	
	000933010150	BOLT, M10 X 55		2								
	000934010005	NUT		1								
	0009973375	ADAPTOR, FITTING W/SINTERED FILTER		2								-
	007349008002	WASHER		1	15							
	007349010002	WASHER, 10.5 STL		3								
	007603010107	RING SALING A10 X 16 DIN7603 ST DBL8451			2	1/4	 re					
	304017008077	BOLT, M8 X 16 8.8			3							
	304017008079	BOLT, M8 X 20 8.8			3							
	304017008081	BOLT, M8 X 25 8.8 LG		2								
	304017008084	BOLT, M8 X 35 8.8			12							
	304017008087	BOLT, M8 X 50 8.8		1								
	304017008088	BOLT, M8 1.25 x 55 8.8; USE: 304017008084			NS							
	5220900141	bracket		1								
	5220981538	manifold, charge air			1							
	5241504273	BRACKET, M60CE			1							
	5241505076	bracket		1					İ			
	5241505573	RETAINER ASSY., WRG HARNESS			2				ļ			
	5241506473	BRACKET ASSY., wiring harness			3				ļ			
	5241508673	retainer assy		1					ŀ			
	5620984139	BRACKET		1								
	700336160004	sleeve, rubber 160 x 140mmn 336		2								
	700429530000	ring-o, 530 x 5mmn 429 m90ce			1							
03.	3C803	GASKET, AIR INTAKE MANIFOLD										
	4571410080	GASKET, INTAKE MANIFOLD			12							
03.	3C808	ELBOW AIR INTAKE MANIFOLD										
	5220900128	elbow		2								

								T	YPES	;		
		03.5A TURBOCHARGER,										
		INTERCOOLER AND AFTERCOOL	ER	2	2							
				0	0							
FIG PART	NO.	NAME AND DESCRIPTION	ASSY.	8	8					l		
REF.			QTY.	7	8							
03.5A001		TURBOCHARGER										
00709	963899	Turbocharger, Exhaust			2							
03.5A432		HOUSING/BASE, INTERCOOLER				***	***************************************		ŀ			
03.3/432		CHARGE AIR COOLER					***************************************	l				
0001250	008427	WASHER A8.4		4								
00053	335043	RETAINER, TOP DN10		2					-			
0009080	014001	PLUG, M14 X 1.5		1			-		Address			
0073490	008002	WASHER		2					***************************************	***************************************		
0076030	014102	WASHER, A14 X 18 COPPER		1					***************************************	***************************************		
2715110	030000	GASKET, 30 X 53 X 1.5		2					***************************************			
3040170	008081	BOLT, M8 X 25 8.8 LG		4			***************************************					
3040170	008085	BOLT, M8 X 40 8.8		2					ų,			
52201	140045	Flange		2					***************************************	***************************************		
52415	506473	BRACKET ASSY., wiring harness		2								
												-
03.5A500		TUBE, TURBOCHARGER OIL SUP										
		REFER TO AIR BOX DRAIN TYPE FOR TURB OIL DRAIN LINES.	ro									
0001250	010524	WASHER A10.5		2	li							
0009330	010094	BOLT, M10 X 40 8.8		2			4					
44716	870180	GASKET		1								
52218	803119	Line, Oil		1								l
7003250	015100	CLAMP, TUBE HALF		4								}
7003270	010000	GROMMET, M10		2								ĺ
03.5A502		CLIP, TURBOCHARGER OIL SUPF	oi v									ĺ
03.3A302		TUBE	LI									
0001250	008427	WASHER A8.4		4								
0009330	012056	BOLT M12X30MM		8						ļ		
0073490	008002	WASHER		4								
0073490	013002	WASHER M13		8								ļ
3040170	008081	BOLT, M8 X 25 8.8 LG		4								1
3040320	008014	Nut, Hex M8		4								ļ
52218	870340	Bracket		1				İ				
52218	870440	Bracket		1								
52218	870640	Bracket		2								
9160160	022202	CLAMP, BRSGU		4					***************************************			
03.5A505		TUBE, TURBOCHARGER OIL RET	URN	_				***************************************	- market de la company de la c			
0001250		WASHER A8.4		5						***		
0001250		WASHER A10.5		6	***************************************		The state of the s				1	
	334843	RETAINER, TOP DN23		1			vanastoonee					
0009330		BOLT, M10 X 25		4			***************************************	-				
0009330		BOLT, M10 X 40 8.8		2			******					
0073490	UU8002	WASHER		1	***************************************	**************************************	*******		I			-

AFTERCOOLER

								TYP	ES				
		03.5A TURBOCHARGER,		_	_								
		INTERCOOLER AND AFTERCOOL	LER	2	2								
				0	0								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	8	8								
REF.			QTY.	7	8								
03	.5A505	TUBE, TURBOCHARGER OIL RET	TURN										
	007603014102	WASHER, A14 X 18 COPPER		3									
	304017008077	BOLT, M8 X 16 8.8		1									
	304017008084	BOLT, M8 X 35 8.8		2									
	304017008085	BOLT, M8 X 40 8.8		1			Ì						
	304017008087	BOLT, M8 X 50 8.8		1									
	304032008014	Nut, Hex M8		1									
	4471870180	GASKET		1									
	5221801922	Line, Oil Return		2									
	5221802019	Line, Oil		1									
	5221802819	Line, Oil		1									
	5221803219	Line, Oil		1									
	5221803319	Line, Oil		1									
	5241506076	Bracket		1									
	5501871280	GASKET _		2								-	
	5569970674	FITTING		1									
	700325015100	CLAMP, TUBE HALF		8									
	700327010000	GROMMET, M10		4				 **					
	915011008101	BOLT, BANJO M8		1									
	915013008002	REDUCER		1			4						
	916016010203	CLAMP, BRSGU 10/20		1									
				1	!	1	I I	l l	- 1	j	1	1	

					TYPES
		03.7 INTERCOOLER/AFTERCOOLER	}		
				7 9	
FIG REF.	PART NO.		SSY. TY.		
03	.7001	INTERCOOLER ASSY./ CHARGE AIR COOLER	t		
	000931008173	BOLT, M8 X 65 8.8		3	
	000933008114	BOLT, M8 X 22		6	
	0030987420	intercooler		1	
	007349008002	WASHER		1	
	5220980074	pin		2	
03	.7003	BRACKET, INTERCOOLER MOUNTIN	VG		
	000125008427	WASHER A8.4		12	
	000933008171			1	
	304014008029	BOLT, M8 X 70 8.8		2	
	5220940027	bracket		1	
	5500210040	BRACKET		2	
03	.7070	TUBE, INTERCOOLER WATER INLET pipe, charge-air	r		
	5220981207	· · · · · · · · ·		2	
	700429075001	SEAL RING, 75 X 5		2	
	700429085002	SEAL RING, 85 X 6	I	2	

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01	ENGIA	JE (LESS MAJOR ASSEMBLIES)
	01.1	CYLINDER BLOCK
	01.2	CYLINDER HEAD
	01.2A	ENGINE LIFTER BRACKET
	01.3	CRANKSHAFT, OIL SEALS AND
		STABILIZERS
	01.3A	CRANKSHAFT FRONT COVER
	01.3B	VIBRATION DAMPER
	01.4A	FLYWHEEL
	01.5A	FLYWHEEL, HOUSING
	01.6	CONNECTING ROD AND PISTON
	01.8A	BOCKER COVER
02		SYSTEM
N.P.S.		FUEL INJECTOR/CNG CONTROLS
	02.1A	INJECTOR, CONTROLS
	02.1B	ELECTRONIC
	20.0	FUEL PUMP
	02.2	FUEL FILTER AND STRAINER
	02.3A	FUEL LINES AND FUEL COOLER
	02.5A	
03	,,,,-	YSTEM
	Ar.eo	AIR CLEANER AND/OR ADAPTOR
	03.3C	AIR INTAKE MANIFOLD
	03.5A	TURBOCHARGER, INTERCOOLER
		AND AFTERCOOLER
	03.7	INTERCOOLER/AFTERCOOLER
04	LUBR	CATING SYSTEM
	04.1A	OIL PUMP
	04.2A	OIL FILTER
	04.4A	OIL COOLER AND MARINE GEAR
		LINES
	04.7A	OIL PAN
	04.8A	VENTILATING SYSTEM
05	COOL	ING SYSTEM
	05.1	FRESH WATER PUMP
	05.2B	THERMOSTAT
	05.2C	WATER BYPASS TUBE
	05.3B	WATER CONNECTIONS
	05.4A	FAN
06	EXHA	UST SYSTEM
	06.1A	EXHAUST MANIFOLD AND/OR
		CONNECTIONS
07	ELEC.	TRICAL INSTRUMENTS
	07.1A	BATTERY, CHARGING GENERATOR
	07.3A	STARTING MOTOR



					TYPES
		04.1A OIL PUMP			
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	2 4 0	
04.	1A001	PUMP ASSY., OIL WASHER A10.5			
	000125010524			3	
	000931010154	BOLT M10 X 110.0 LG; USE: 304014010021		NS	
	0021805101	Pump Assy., Oil		1	
	304014010021			3	
04.	1A222	FLANGE, OIL PUMP COVER			
	000125008427	WASHER A8.4		6	
	000912008009	Screw, M8 1.25 x 20 8.8 Hex		3	
	304017008081	BOLT, M8 X 25 8.8 LG		6	
	5221870053	Pipe, Plug-in		1	
	5221870245	Flange, Oil Pump		2	
	5221870345	Flange, Oil Pump		1	
	700429040003	O-Ring, 40 x 5		2	
	700429055001	SEAL RING, 55 X 5		1	
	700429063000	SEAL RING, 63 X 5		2	

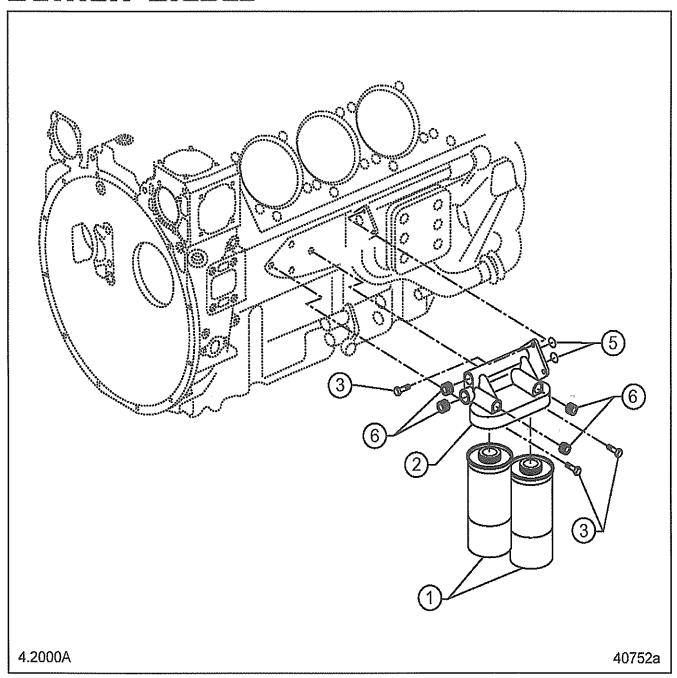


FIG 1 of 04.2A

						TYPE	S		
		04.2A OIL FILTER				1 1			
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	7 2 0		**************************************			***************************************
04 1:1	.2A250 0031845301	ELEMENT, OIL FILTER FILTER ELEMENT OIL 302X136 M90CE/M9	1CE	2		***************************************	**************************************		
04	.2A291 000125010524	ADAPTOR, OIL FILTER COVER WASHER A10.5		3		***************************************	***************************************		
1:3	000931010336	BOLT, M10 X 130 LG		3			W445-041-041-041-041-041-041-041-041-041-041		
1:2	5221800138	Adaptor, Oil Filter		1					
04	.2A293	GASKET, OIL FILTER ADAPTOF OIL COOLER ADAPTOR	R TO				The second secon		
1:5	700429042002	O-Ring, 42 x 4 MMN429		2					

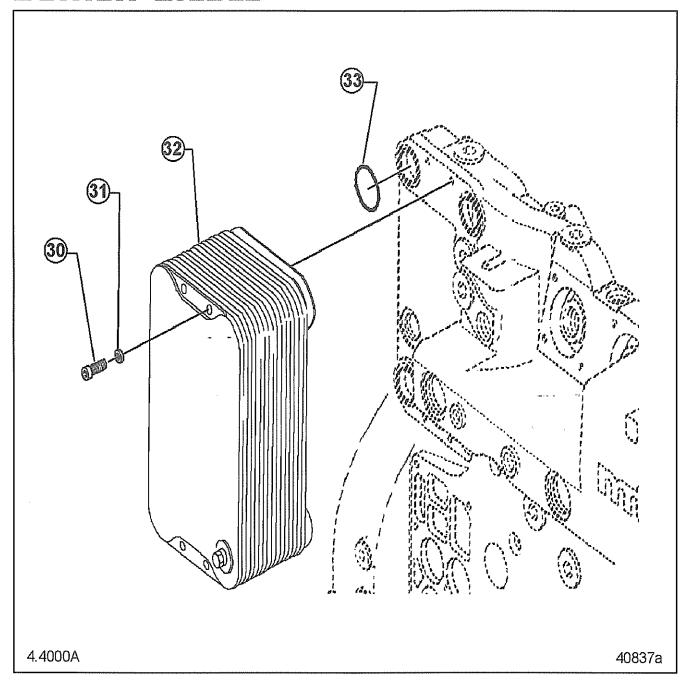


FIG 1 of 04.4A

							ĩ	ΥP	ES			
		04.4A OIL COOLER AND MARIN	E									
		GEAR LINES		1								
				4								
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	9					Į			
REF.			QTY.	7			İ		-			
04	.4A001	CORE, OIL COOLER ENGINE										
1:32	0001805065	Exchanger, Oil Heat		1					l			
1:30	000912010066	Screw, M10 1,50 x 35 8.8 Hex		4								
1:31	200433010500	WASHER		4								
1:33	700429050003	SEAL RING, 50 X 4		4								

								TYP	ES			
		04.7A OIL PAN		. ,						 		,
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1 0 6 7								
04	.7A001	PAN, OIL										
	000125008427	WASHER A8.4		26								
	000125010524	WASHER A10.5		3								
	000912008062	BOLT, M8 1.25 X 50		3								
	000933010150	BOLT, M10 X 55		3								
	200433008400	WASHER		3								
	304017008087	BOLT, M8 X 50 8.8		26								
	5220141202	Pan, Oil		1								
04	.7A030 5220140222	GASKET, OIL PAN TO BLOCK Gasket, Oil Pan		1								***************************************
04	.7A080	PLUG, OIL PAN DRAIN										
	000910030000	Plug, M30 x 1.5		4								
	000910038000	Plug, M38 x 1.5		1								
	007603030101	WASHER, A30 X 36 COPPER		4								-
	007603038101	WASHER, A38 A 44 COPPER		1								
04	.7A100	TUBE, OIL PAN DRAIN										
	007603016105	WASHER, A16 X 20 COPPER		3		-	-× •	***				
	007603038101	WASHER, A38 A 44 COPPER		1								
	5221800022	Line, Oil Return		1		ă.						
	5221801522	Line, Oil Return		1 1								
	700223008000	Bolt, Banjo A8 MMN223		1								
	915013010001	UNION, M10 N		1								
	915013032000	ADAPTOR 32 N15013 DBL8451.21 M91CE S20	000	1	ļ							

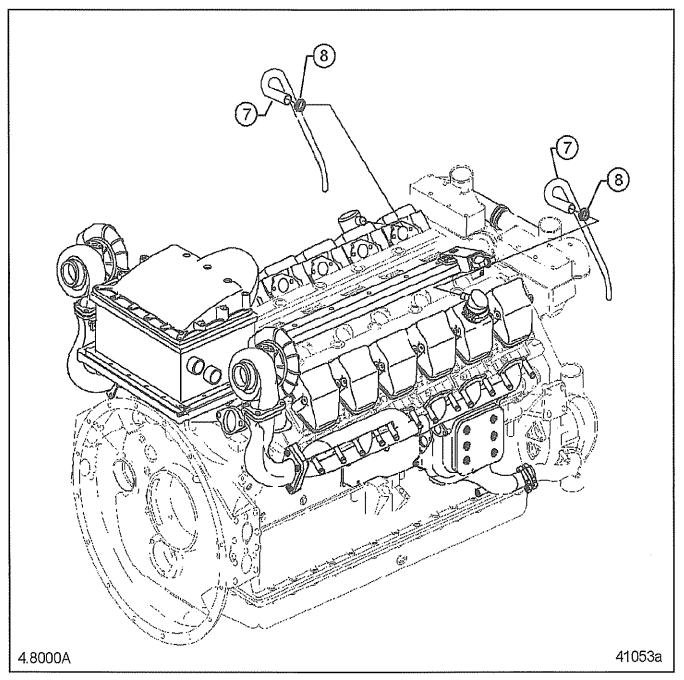


FIG 1 of 04.8A

				TYPES
		04.8A VENTILATING SYSTEM		
			1	
			2	
FIG	PART NO.	NAME AND DESCRIPTION ASSY.	4	
REF.		QTY.	3	
04	I.8A001	PIPE ASSY, BREATHER		
	00000000668	CLAMP	3	
	5220102370	Line, Vent Eng Breather	1	
	5220102570	Tube	1	
	5220102670	Line, Vent Eng Breather	1	
04	I.8A039	CLAMP, BREATHER TUBE		
	00000000667	CLAMP 20-32X13-SW8-W3 MBN10223 POLYAMID	12	
	007349008002	WASHER	2	
	916016035201	CLAMP BRSGU 35/20 N16016 M91CE S2000	1	
04	1.8A050	BODY, BREATHER OR SEPARATOR		
•	0000187135	SEPARATOR, OIL	3	
	007603022105	SEAL, RING	2	
	007603038101	WASHER, A38 A 44 COPPER	2	
	007604022102	Screw Plug	1	
	5220180170	Union, Screw Fitting	2	
	915007013000	REDUCER, M22 X 1.5/M16 X 1.5	1	
		·	'	
04	1.8A056	BRACKET, BREATHER/COLLECTOR		
	000400000404	MOUNTING WASHER A6,4 14 OHV DBL8451.11 DIN 125		
	000125006431		12	
	304017006063	BOLT, M6 1.00 X 25 8.8	12	
	5360100134	SUPPORT ARM M91CE S2000	1	
04	1.8A062	Hose, Collector Inlet		
	000000000667	CLAMP 20-32X13-SW8-W3 MBN10223 POLYAMID	6	
	000125008427	WASHER A8.4	5	
	000934008008	NUT, HEX M8	3	
	304017008077	BOLT, M8 X 16 8.8	1	
	304017008079	BOLT, M8 X 20 8.8	1	
	304017008086	BOLT, M8 X 45 8.8	2	
	3669970682	Hose, Intake 620.0 Lg	1	
	3769971582	Hose, Intake	5	
	3909970382	Hose, Intake	1	
	4449975052	Hose, Intake 145MM	1	
	5220100082	Tube, Flexible	1	
	5229970782	Hose, Intake 140MM	1	
	5502030043	BRACKET	1	
	700327012000	GROMMET, M12	2	
	916016024201	CLAMP BRSGU 24/20 N16016 M91CE S2000	1	
	916016035201	CLAMP BRSGU 35/20 N16016 M91CE S2000	1	
	4 0 8 4 0 0	VENT OVINDED HEAD		
Q ²	4.8A100	VENT, CYLINDER HEAD cover, cylinder head	_	
	5220100030	BOLT, ROCKER COVER MOUNTING S2000	5	
	910105008022	BOLT, HOUREH GOVEN MOUNTING 32000	10	

					TYPES
		04.8A VENTILATING SYSTEM		1	
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	1 2 4 3	
04	1.8A100	VENT, CYLINDER HEAD			
04	1.8A110 5310160021	GASKET, CYLINDER HEAD VENT GASKET, VALVE COVER		5	
04	4.8A187 000125008427	HOSE, OIL DRAIN WASHER A8.4		4	
	007603016105	WASHER, A16 X 20 COPPER		2	
	304014008029	BOLT, M8 X 70 8.8		3	
	304017008085	BOLT, M8 X 40 8.8		1	
	5220181640	Bracket, 65.9 x 20		1	
	5221806419	Line, Oil		1	
	5221806519	Line, Oil		1	
	700325018100	CLAMP,HALF TUBE		14	
	700325018109	CLAMP, HALF		2	
	700327012000	GROMMET, M12		6	
	900195008107	Insert, Thread		2	
	915011010101	Bolt, Banjo		1	
04	4.8A260 000125008427	BRACKETS, COLLECTOR WASHER A8.4		8	
	304017008079	BOLT, M8 X 20 8.8		8	
	5220180540	Bracket		1	

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01	ENGIN	IE (LESS MAJOR ASSEMBLIES)
	01.1	CYLINDER BLOCK
	01.2	CYLINDER HEAD
	01.2A	ENGINE LIFTER BRACKET
	01.3	CRANKSHAFT, OIL SEALS AND
		STABILIZERS
	01.3A	CRANKSHAFT FRONT COVER
	01.3B	VIBRATION DAMPER
	01.4A	FLYWHEEL.
	01.5A	FLYWHEEL, HOUSING
	01.6	CONNECTING ROD AND PISTON
	01.8A	ROCKER COVER
02	FUEL S	System
	02.1A	FUEL INJECTOR/CNG CONTROLS
	02.18	INJECTOR, CONTROLS
		ELECTRONIC
	02.2	FUEL PUMP
	02.3A	FUEL FILTER AND STRAINER
	02.5A	FUEL LINES AND FUEL COOLER
03	AIR SY	/STEM
	03.1A	AIR CLEANER AND/OR ADAPTOR
	03.3C	AIR INTAKE MANIFOLD
	03.5A	TURBOCHARGER, INTERCOOLER
		AND AFTERCOOLER
	03.7	INTERCOOLER/AFTERCOOLER
04	LUBRI	CATING SYSTEM
	04.1A	OIL PUMP
	04.2A	OIL FILTER
	04.4A	OIL COOLER AND MARINE GEAR
		LINES
	04.7A	OIL PAN
	04.8A	VENTILATING SYSTEM
05	COOL	ING SYSTEM
	05.1	FRESH WATER PUMP
	05.2B	THERMOSTAT
	05.2C	WATER BYPASS TUBE
	05.3B	WATER CONNECTIONS
	05.4A	FAN
06	EXHA	UST SYSTEM
	06.1A	EXHAUST MANIFOLD AND/OR
		CONNECTIONS
07	ELECT	TRICAL INSTRUMENTS
	07.1A	BATTERY, CHARGING GENERATOR

STARTING MOTOR

07.3A

					TYPES
		05.1 FRESH WATER PUMP		ا م ا	
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	3 8 2	
05.	.1001	PUMP ASSY., FRESH WATER			
	000125008427	WASHER A8.4		2	
	000125013012	WASHER A13		3	
	000908018002	PLUG, M18 X 1.5		1	
	000931008209	BOLT, M8 X 95		2	
	000931008219	BOLT, M8 X 110 8.8		2	
	000931012241			3	
	5222001701	PUMP ASSY., WATER 16V2000		1	
	5222030222	elbow		1	
	5222031840	RETAINER		1	
05	.1010	GASKET, FRESH WATER PUMP			
	5611871680	GASKET		1	
	700429090000	O-RING 90 X 5 MMN 429 M91CE S2000		2	

								TYP	ES				
		05.2B THERMOSTAT											
FIG REF.	PART NO.	NAME AND DESCRIPTION ASSY. QTY.	5 3 4										
05	5.2B050 0052031775	THERMOSTAT ASSY. Thermostat, Actuator 120 Deg C	3										
05	5.2B090 000125008427	HOUSING, THERMOSTAT WASHER A8.4	10										
	000125010524	WASHER A10.5	2										
	0005335043	RETAINER, TOP DN10	1										
	000908026005	PLUG M26X1.5 ST	1										
	000931008144	BOLT, M8 X 120	2										
	000931008207	BOLT, M8 X 90 8.8	2									1	
	000931008219	BOLT, M8 X 110 8.8	3										
	000931008257	Bolt, M8 1.25 x 115 8.8-A Hex	3										
	000933010035	BOLT, M10 X 25	1										
	000933010089	BOLT M10 X 20	1										
	007349008002	WASHER	2										
	007603026104	WASHER A26X31 COPPER	1									-	
	5220780741	Clip, 90 Deg	1										
	5220781341	Retainer	1										
	5222000516	Housing, Thermostat	1			~		**					
	5222030222	elbow	1										
	5222031940	Bracket, Retainer	1			4							
	5241507173	Retainer	1										
	5501310441	Retainer	1										
	735151010100	WASHER, A10.5	1										
	8331501573	RETAINER	2										
05	5.2B110 0002034480	GASKET, THERMOSTAT HOUSING SEALING RING; USE: 05132155	NS										
	05132155	SEAL	3										
	5611871680	GASKET	1										
			1	1	1	1	1	1		4	1	 1	

SEAL RING, 75 X 5

700429075001

				TYPES
		05.2C WATER BYPASS TUBE	1	
FIG REF.	PART NO.	NAME AND DESCRIPTION ASSY. QTY.	1	5 1 2
05	.2C250 000125008427	TUBE WATER BYPASS VENT WASHER A8.4	_	5
	000123008427	NUT, HEX M8	1	2
	007603014102	WASHER, A14 X 18 COPPER		1
	007603030101	WASHER, A30 X 36 COPPER		1
	304017008079	BOLT, M8 X 20 8.8	1	
	304017008084	BOLT, M8 X 35 8.8	1	
	304017008085	BOLT, M8 X 40 8.8	1	1
	5222000082	Tube Assy., Vent Line	1	1
	5222000218	Elbow, Vent Line	1	1
	5569920001	BUSHING, 20 X 15	1	1
	700325015100	CLAMP, TUBE HALF	2	2
	915001006003	NUT	1	1
	915001025004	NUT, DOMED	1	1
	915005006000	CONE, SEALING	1	1 -
	915005025002	SEALING CONE 28 MBN 15005 ST M91CE S2000	1	1
	915013008002	REDUCER	1	1
	915013025001	UNION	1	1
	916016010203	CLAMP, BRSGU 10/20	1	1
	916016018202	CLAMP, BRSGU 18/20	2	2

					TYPES
		05.3B WATER CONNECTIONS			
FIG REF.	PART NO.	NAME AND DESCRIPTION	ASSY. QTY.	6 3 1	
05.	3B269	TUBE, TURBOCHARGER WATER RETURN			
	000000000672	Clamp		4	
	000125008427	WASHER A8.4		2	
	000912010038	BOLT		6	
	000931008219	BOLT, M8 X 110 8.8		2	
	007349008002	WASHER		4	
	200433010500	WASHER		6	
	304017008087	BOLT, M8 X 50 8.8		4	
	5222004051	Tube, Coolant Line		1	
	5222004251	Tube, Coolant Line		1	
	700325050100	CLAMP, HALF TUBE		5	5
	700325050200	Clamp, Half Tube		3	3
	700368050005	Sleeve, Rubber 50 x 150MMN368		2	
	700489050001	Gasket	-	2	2

TYPES

	05.4A FAN				•••	
FIG PART NO. REF.	NAME AND DESCRIPTION	ASSY. QTY.	1 9 0 8	1 9 1 0		
05.4A021 007603012111	HOSE, OIL DRAIN WASHER, A12 X 15.5 COPPER			3		
5221805219	Line, Oil			1		
5221805719	Line, Oil			1		
5582540367	Nozzle			1		
915013006002	UNION			3	**************************************	
05.4A022 000125008427	HOSE., OIL SUPPLY WASHER A8.4			1		
007603018104	RING, SEALING A18 X 24			2	***************************************	
304017008085	BOLT, M8 X 40 8.8			1		
5221803919	Line, Oil			1		
700160000010	Elbow, 90Deg			1		
700325018100	CLAMP,HALF TUBE			2		
700327012000	GROMMET, M12			1	***************************************	
735038010111	Hose -			1		
8331501773	BRACKET, W/NUT			1	the state of the s	
915006010002	UNION			2		
916016020202	CLAMP BRSGU 20/20 N16016 M91CE S2000		,	1	/#/ • *?	
05.4A330 000125017014	PULLEY, FAN BELT IDLER WASHER A17 140HV		10			
304014016005	BOLT, M16 X90		10			
5221550115	PULLEY, BELT		1			
5222061010	belt, pulley		1			
5222061510	belt, pulley		1			
5229970292	kit, v belt		1			
05.4A340 00000003062	TENSIONER, BELT Bolt, m10 1.50 x 130		3			
5222000070	roller, tensioning		1		***************************************	
05.4A368 000125010524	FLANGE, THERMO FAN DRIVE WASHER A10.5		12			
000933010150	BOLT, M10 X 55		12			
5222060045	Flange		1		**************************************	

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07	ELEC"	TRICAL INSTRUMENTS
	06.1A	EXHAUST MANIFOLD AND/OR CONNECTIONS
06	EXHA	UST SYSTEM
	05.4A	FAN
	05.38	WATER CONNECTIONS
	05.2C	WATER BYPASS TUBE
	05.2B	THERMOSTAT
	05.1	FRESH WATER PUMP
05	COOL	ING SYSTEM
	04.8A	VENTILATING SYSTEM
	04.7A	OIL PAN
	(3++"+514/	LINES
	04.2A 04.4A	OIL COOLER AND MARINE GEAR
	04.1A 04.2A	OIL PUMP OIL FILTER
U+4		
04		CATING SYSTEM
	03.7	INTERCOOLER/AFTERCOOLER
	AG,SU	AND AFTERCOOLER
	03.3C	AIR INTAKE MANIFOLD TURBOCHARGER, INTERCOOLER
	A1.60	AIR CLEANER AND/OR ADAPTOR
UĞ		
03		YSTEM
	02.3A 02.5A	FUEL LINES AND FUEL COOLER
	02.2 02.3A	FUEL FILTER AND STRAINER
	02.2	FUEL PUMP
	02.1B	INJECTOR, CONTROLS ELECTRONIC
	02.1A	FUEL INJECTOR/CNG CONTROLS
02		System
^^	01.8A	
	01.6	CONNECTING ROD AND PISTON ROCKER COVER
	01.5A	FLYWHEEL, HOUSING
	01,4A	FLYWHEEL
	01.3B	VIBRATION DAMPER
	01.3A	CRANKSHAFT FRONT COVER
		STABILIZERS
	01.3	CRANKSHAFT, OIL SEALS AND
	01.2A	ENGINE LIFTER BRACKET
	01.2	CYLINDER HEAD
	01.1	CYLINDER BLOCK
01	ENGIN	IE (LESS MAJOR ASSEMBLIES)

07.1A BATTERY, CHARGING GENERATOR

STARTING MOTOR

07.3A

06

					TYPES
		06.1A EXHAUST MANIFOLD AND/OR	,		
		CONNECTIONS	8	8	
			2	2	
FIG	PART NO.	NAME AND DESCRIPTION ASSI	'. 3	4	
REF.		QTY.	İ		
06	6.1A010	GASKET, EXHAUST MANIFOLD			
	0001423657	Seal ring		8	
	4601420080	GASKET		12	
	5411420180	GASKET; USE: 4601420080		NS	
	5501423680	Gasket	2	***************************************	
00	6.1A018	ELDOM EVHALICT READUROLD			
UC	000908018003	ELBOW, EXHAUST MANIFOLD Plug, m18 x 1.5 threaded	6		
	200931010001	Bolt, m10 1.50 x 130	4		
	200933010001	Bolt, m10 1.50 x 35	6		
	5221420001	Elbow, exhaust end		4	
	5221422101	Elbow, exhaust		2	
	5501421501	Elbow, exhaust	2	-	
08	6.1A020	STUD, EXHAUST MANIFOLD TO HEAD			
	200934010000	NUT, HEX M10		8	
	200939010006	Stud, m10 x 30 nicr20tial ah		8	
	207603018301	Washer, c18 x 22	6		The state of the s
	5509901540	WASHER	10	8	
06	5.1A025	BOLT, EXHAUST MANIFOLD TO HEAD			
	200933010027	Bolt, m10 1.50 x 105		24	
	4031420212	CLAMP, EXHAUST MANIFOLD		20	
	5221420012	Spacer, 36 x 24.5		4	
			1	•	

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07	ELEC.	TRICAL INSTRUMENTS						
	06.1A	EXHAUST MANIFOLD AND/OR CONNECTIONS						
UÜ								
06		UST SYSTEM						
	05.3B 05.4A	WATER CONNECTIONS FAN						
	05.2C	WATER BYPASS TUBE						
	05.2B	THERMOSTAT						
	05.1	FRESH WATER PUMP						
05	COOL	ING SYSTEM						
	04.8A	VENTILATING SYSTEM						
	04.7A	OIL PAN						
		LINES						
	04.4A	OIL COOLER AND MARINE GEAR						
	04.2A	OIL FILTER						
	04.1A	OIL PUMP						
04	LUBR	ICATING SYSTEM						
	03.7	INTERCOOLER/AFTERCOOLER						
		AND AFTERCOOLER						
	03.5A	TURBOCHARGER, INTERCOOLER						
	03.3C	AIR INTAKE MANIFOLD						
	03.1A	AIR CLEANER AND/OR ADAPTOR						
03	AIR S'	AIR SYSTEM						
	02.5A	FUEL LINES AND FUEL COOLER						
	02.3A	FUEL FILTER AND STRAINER						
	02.2	FUEL PUMP						
		ELECTRONIC						
	02.1B	INJECTOR, CONTROLS						
	02.1A	FUEL INJECTOR/CNG CONTROLS						
02	FUEL.	System						
	01.8A	ROCKER COVER						
	01.6	CONNECTING POD AND PISTON						
	01.5A	FLYWHEEL, HOUSING						
	01.4A	FLYWHEEL						
	01.3B	VIBRATION DAMPER						
	01.3A	CRANKSHAFT FRONT COVER						
	3/1/0	STABILIZERS						
	01.3	CRANKSHAFT, OIL SEALS AND						
	01.2A	ENGINE LIFTER BRACKET						
	01.1 01.2	CYLINDER BLOCK CYLINDER HEAD						
£3 I		CYLINDER BLOCK						
01	ENGIN	IE (LESS MAJOR ASSEMBLIES)						

07

BATTERY, CHARGING GENERATOR STARTING MOTOR

07.1A 07.3A

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SERIES 2000

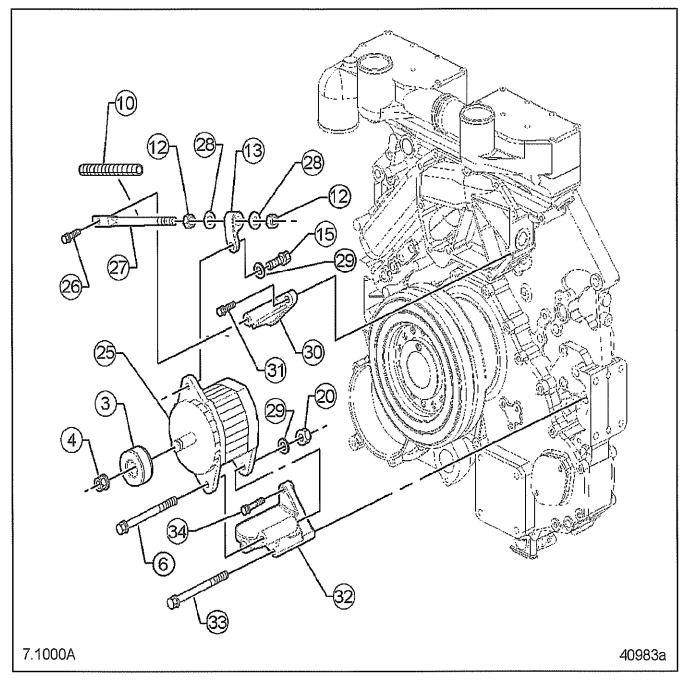


FIG 1 of 07.1A

							TYF	ES			
		07.1A BATTERY, CHARGING									
		GENERATOR		2							
FIG	PART NO.	NAME AND DESCRIPTION ASS	5Y.	6							
REF.		QTY	'·	4							
07	.1A001	GENERATOR ASSY.									
	000125013012	WASHER A13		2							
	000931012216	BOLT, M12 1.75 X 160 8.8		1							
	000934012008	NUT, HEX M12		1							
	19010182	GEN CHRG AC 24V70A NG CW/CCW 21SI		1							
07	.1A500	PULLEY, GENERATOR	ŀ								
0.	5221550215	pulley, belt		1							
07	.1A575	BELT, GENERATOR DRIVE									
	0139973692	belt, poly-v		1				:			
07	.1A582	BRACKET, GENERATOR ADJUSTING STRAP									
	000125013012	WASHER A13		2							
	000931012150	BOLT, M12 1.75 X 90 8.8	1	1							
	000934012008	NUT, HEX M12		1				:			
	00186689	BOLT, 1/2"-13X2"		1							
	3141550528	clamp		1							
	3521550272	nut, hex m12		1		. ,	.,				
	5221550076	washer		1							
	5221580170	bolt, adjusting m12 x 85 x 12.7		1							
07	.1A595	BRACKET, GENERATOR MOUNTING									
	000125010524	WASHER A10.5		4							
	000933010150	BOLT, M10 X 55		4							
	5221550435	support		1	l						

					TYPES
		07.3A STARTING MOTOR			
FIG	PART NO.	NAME AND DESCRIPTION	ASSY.	4 4 6	
REF.	rani No.	NAME AND DESCRIPTION	QTY.		
07	.3A001	MOTOR ASSY., STARTING			
	000125013012	WASHER A13		3	
	000934012008	NUT, HEX M12		3	
	000939012098			3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	0051519901	STARTER, DELCO 24V M90CE		1	
	5360130845	FLANGE, M91CE		1	
07	.3A007	BRACKET, STARTING MOTOR SUPPORT			
	000125006431	WASHER A6.4 14 OHV DBL8451.11 DIN 125		2	
	000933006175	BOLT, M6 X 16 8.8		1	
	000934006006	NUT, HEX M6		1	
	569SK0413	Bracket		1	
07	.3A410	Clamp, Starting Motor Solenoid Plunger Boot			
	916016008200	Clamp		1	-

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