



PARTS CATALOG

US MARINE W06DTI INBOARDS

SERIAL NUMBER

HINO DIESEL (SEE MERCUISER) W06DTI (250 H.P.) 6 CYL.

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NOTE: Indented description indicate that these parts are included in preceeding assembly.

AR = As Required

NSS = Not Sold Separate

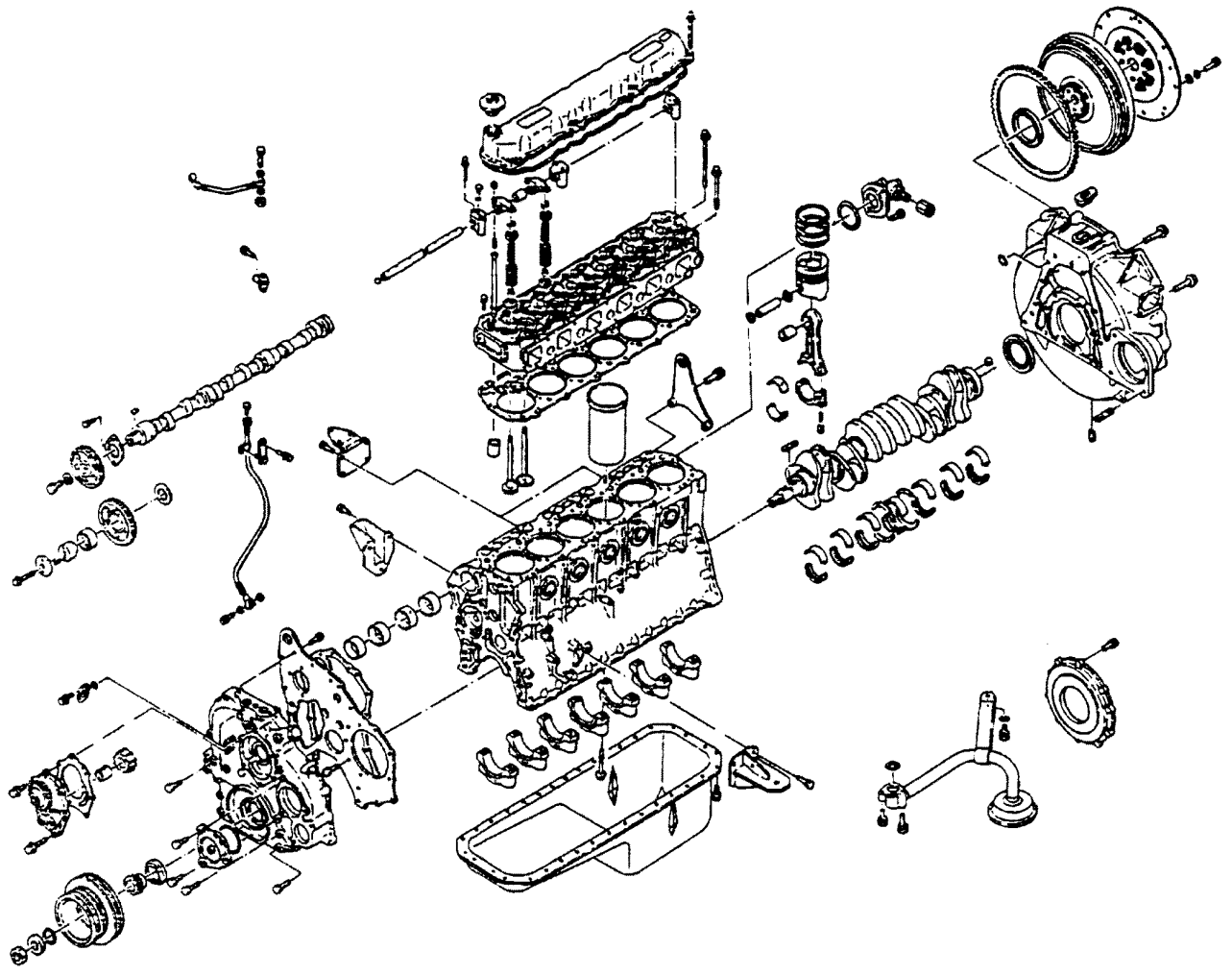
OPT = Optional

NS = Not Shown

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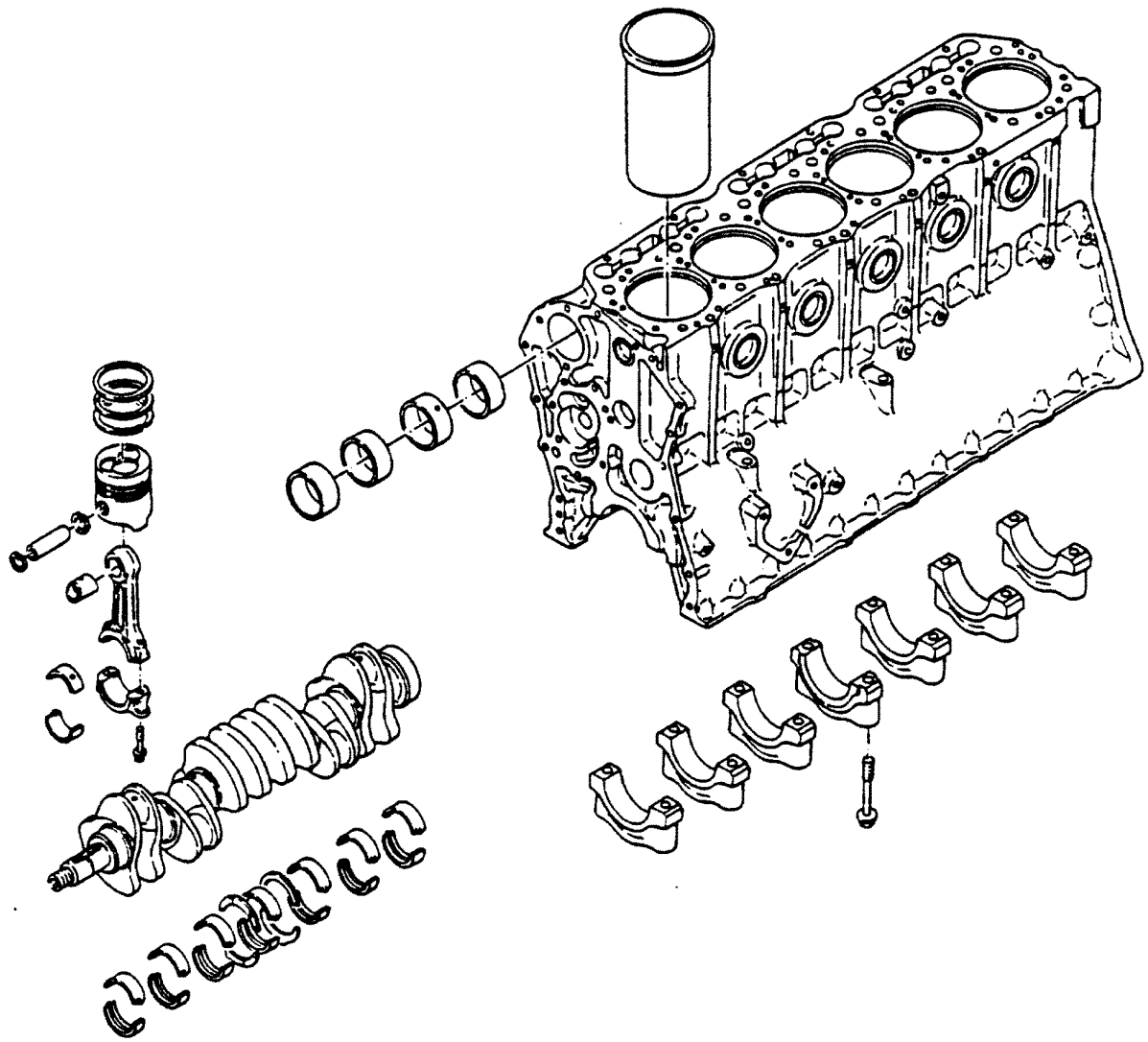
PARTIAL ENGINE



PARTIAL ENGINE

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
-	830801191		1	ENGINE ASSY., PARTIAL

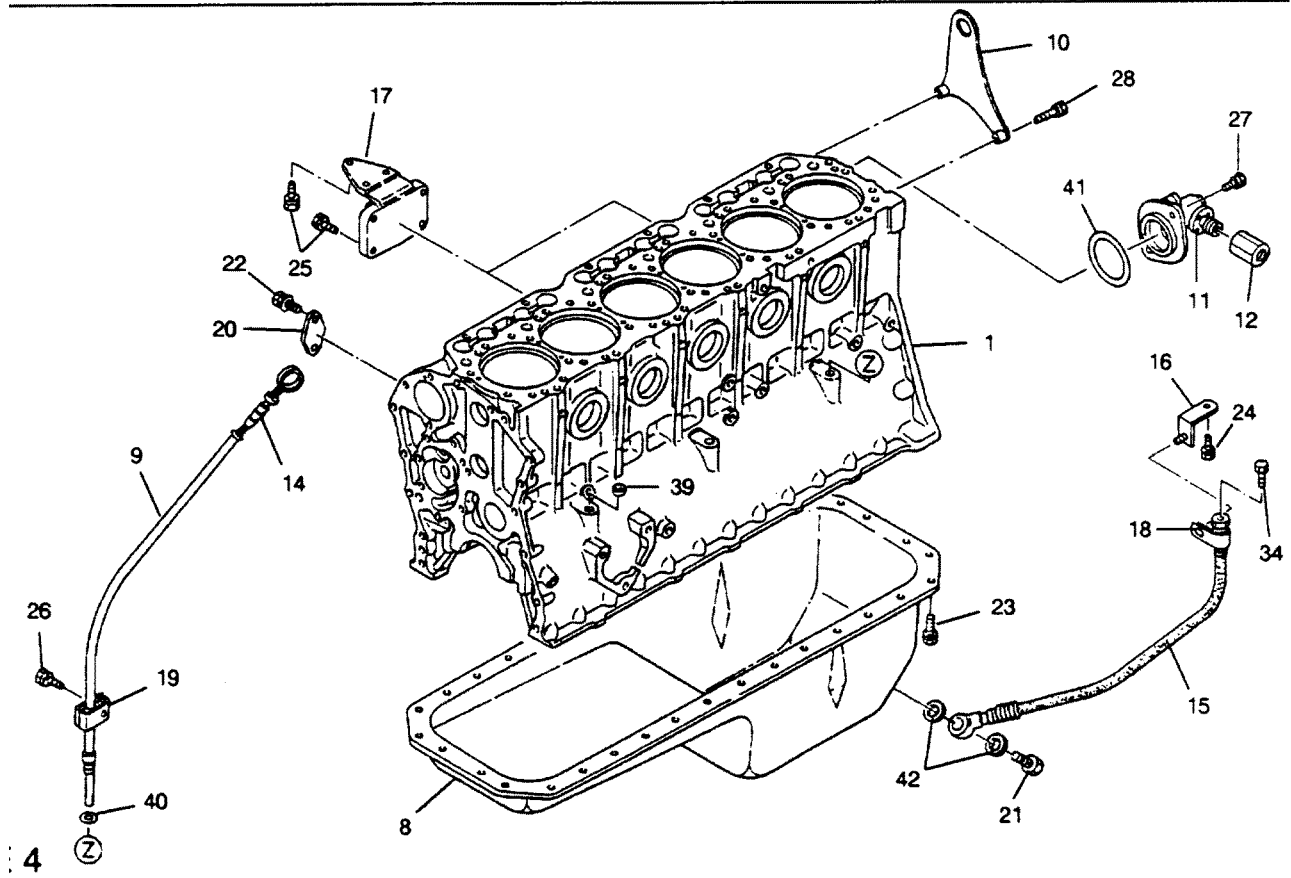
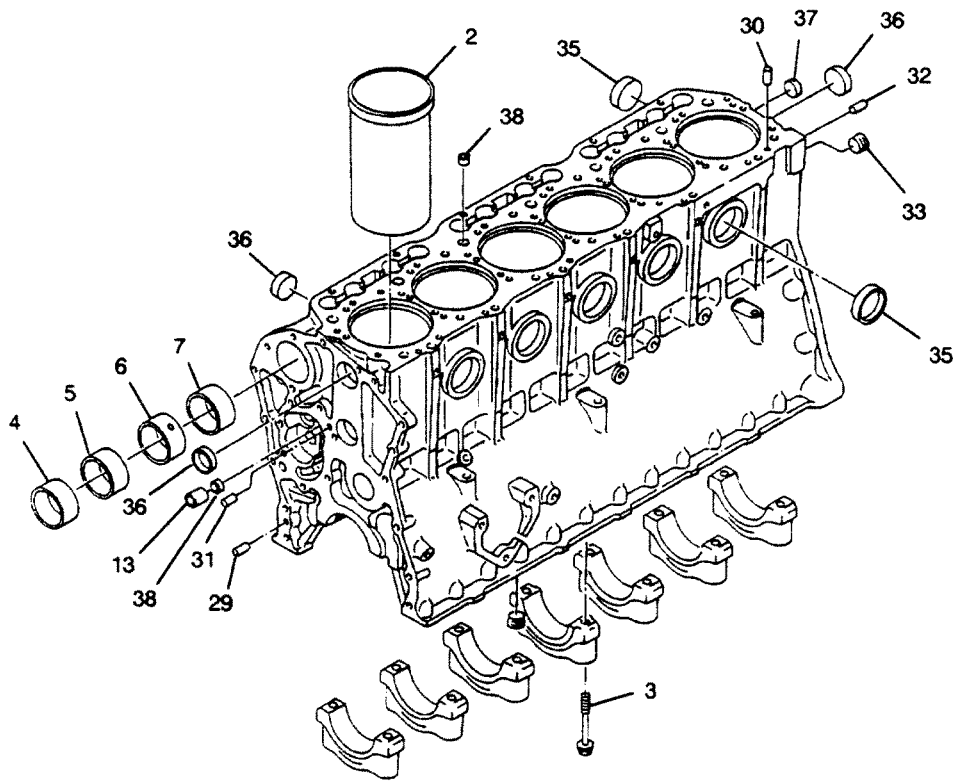
SHORT BLOCK



SHORT BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
-	834004690		1	SHORT BLOCK ASSY

CYLINDER BLOCK

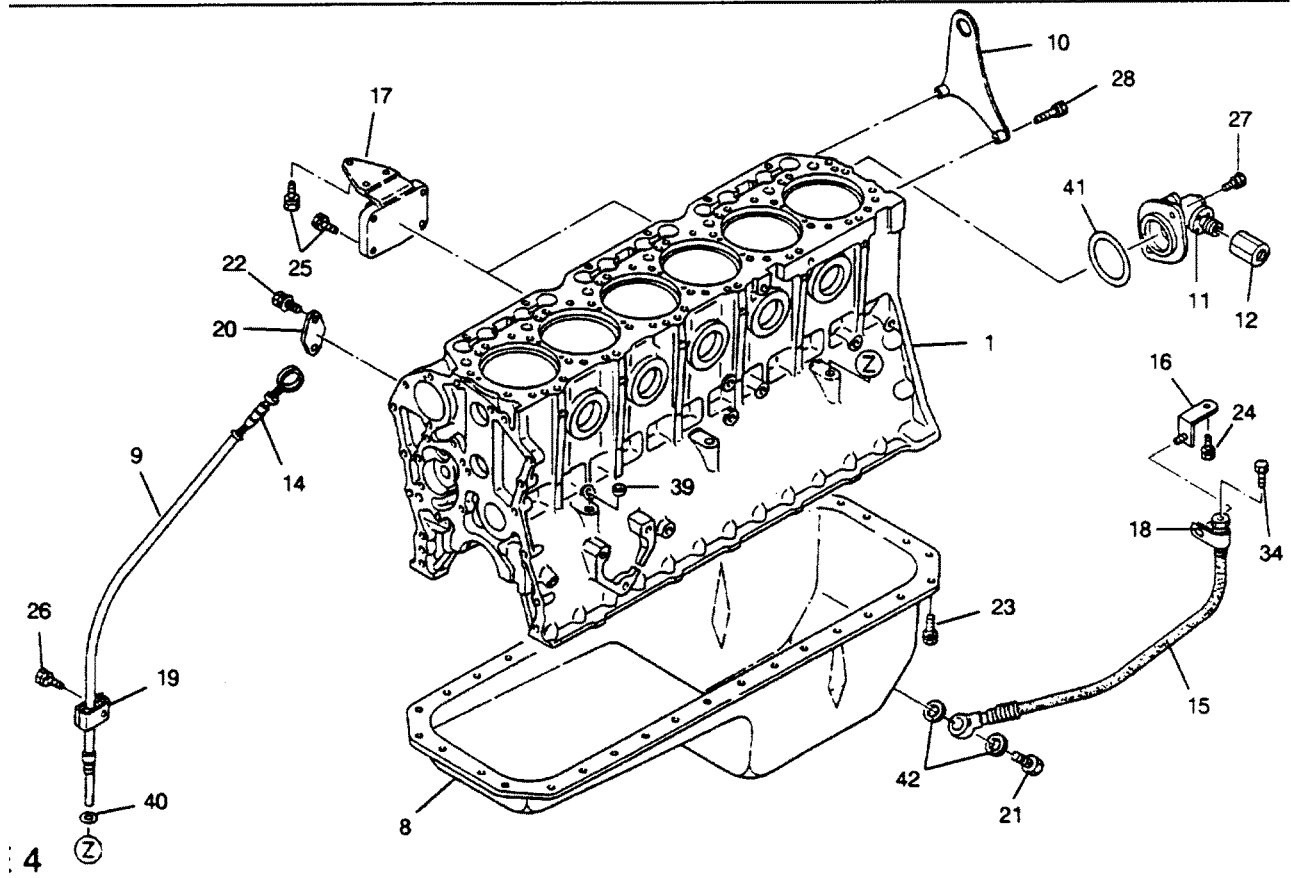
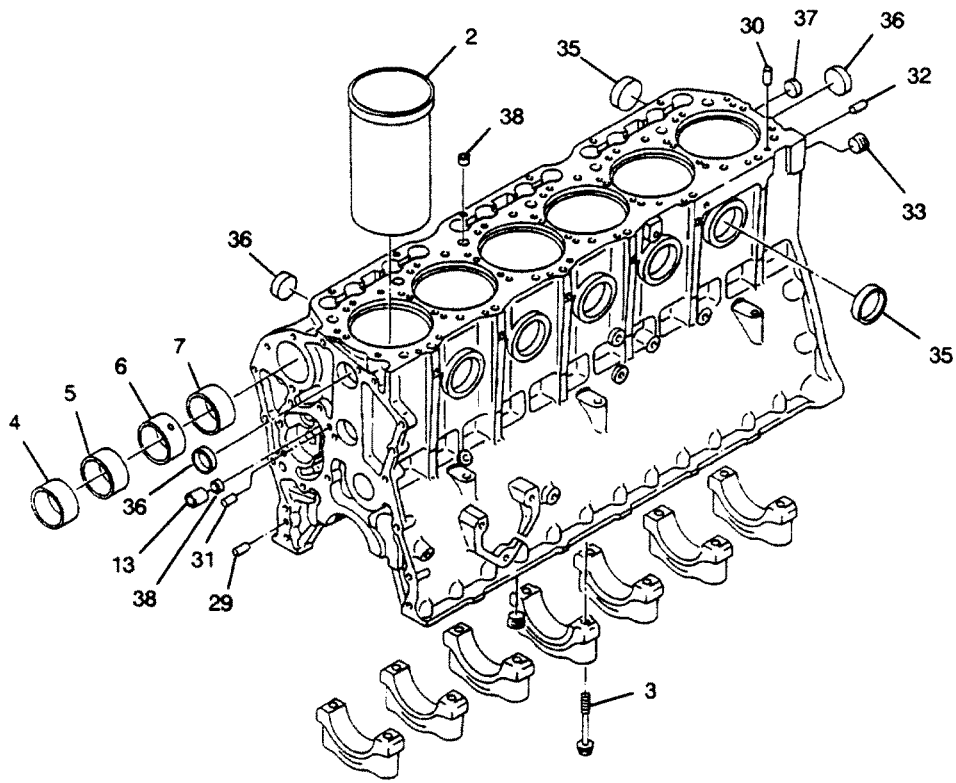


CYLINDER BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834105020		1	BLOCK ASSEMBLY, CYLINDER
2	834672220		6	LINER, CYLINDER - CODE W
-	834672230		AR	LINER, CYLINDER - CODE X
-	834672240		AR	LINER, CYLINDER - CODE Y
-	834672250		AR	LINER, CYLINDER - CODE Z
3	835211062		14	BOLT, BEARING CUP
4	838111180		1	BEARING, CAMSHAFT - #1
5	838211190		1	BEARING, CAMSHAFT - #2
6	838311130		1	BEARING, CAMSHAFT - #3
7	838411120		1	BEARING, CAMSHAFT - #4
8	831113220		1	PAN, OIL
9	831412550		1	GUIDE, OIL LEVEL GAUGE
10	832031040		1	HANGER, ENGINE
11	836401120		1	DRIVE ASSEMBLY - TACHOMETER
12	836941122		1	ADAPTER, TACHOMETER SENDER
13	831171100		1	BUSHING, OIL PUMP
14	833014760		1	GAGE, OIL LEVEL
15	834611630		1	HOSE, OIL REMOVAL
16	834921120		1	HOLDER, CLIP
17	831521650		1	BRACKET, EXHAUST MANIFOLD
18	839041140		1	CLIP, OIL TUBE
19	839042180		2	CLIP, GAGE GUIDE
20	830211159		1	FLANGE
21	831918169		1	BOLT, BANJO
22	838108200		2	BOLT, FLANGE
23	838108160		34	BOLT, OIL PAN
24	838108200		1	BOLT, CLIP
25	838108250		14	BOLT
26	838108400		1	BOLT, CLIP
27	839108201		2	BOLT, TACHOMETER DRIVE
28	830912118		2	BOLT, HANGER
29	830408240		2	PIN
30	830408160		2	PIN
31	830405100		1	PIN
32	830912103		2	PIN
33	834999987		2	PLUG
34	832917111		1	PLUG, OIL REMOVAL HOSE
35	833950103		7	PLUG, BLOCK
36	833936102		7	PLUG, BLOCK
37	833924103		1	PLUG, BLOCK

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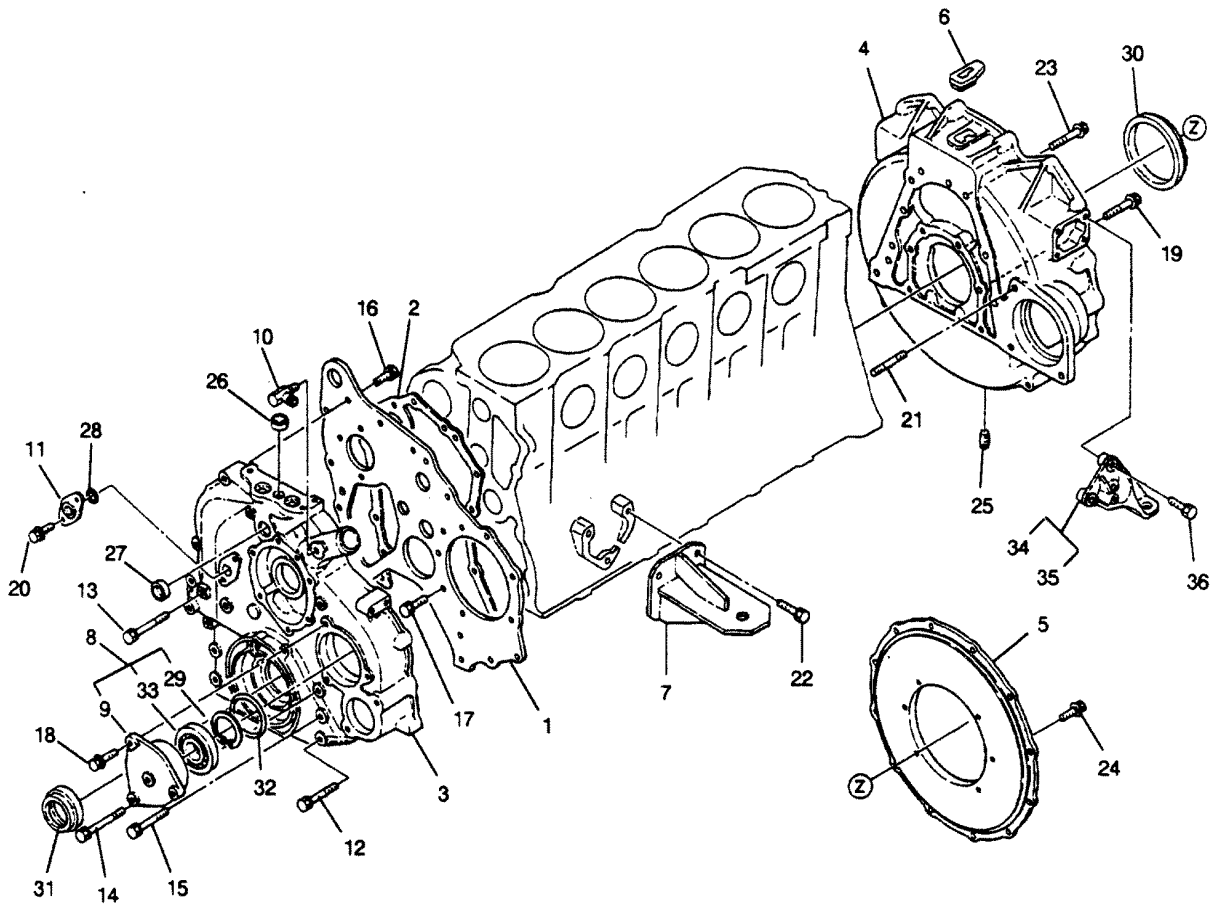
CYLINDER BLOCK



CYLINDER BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
38	833917101		7	PLUG, BLOCK
39	833914101		2	PLUG, BLOCK
40	834400925		1	O-RING, GAGE GUIDE
41	835165103		1	O-RING, DRIVE ASSEMBLY
42	835918111		2	WASHER, SEALING

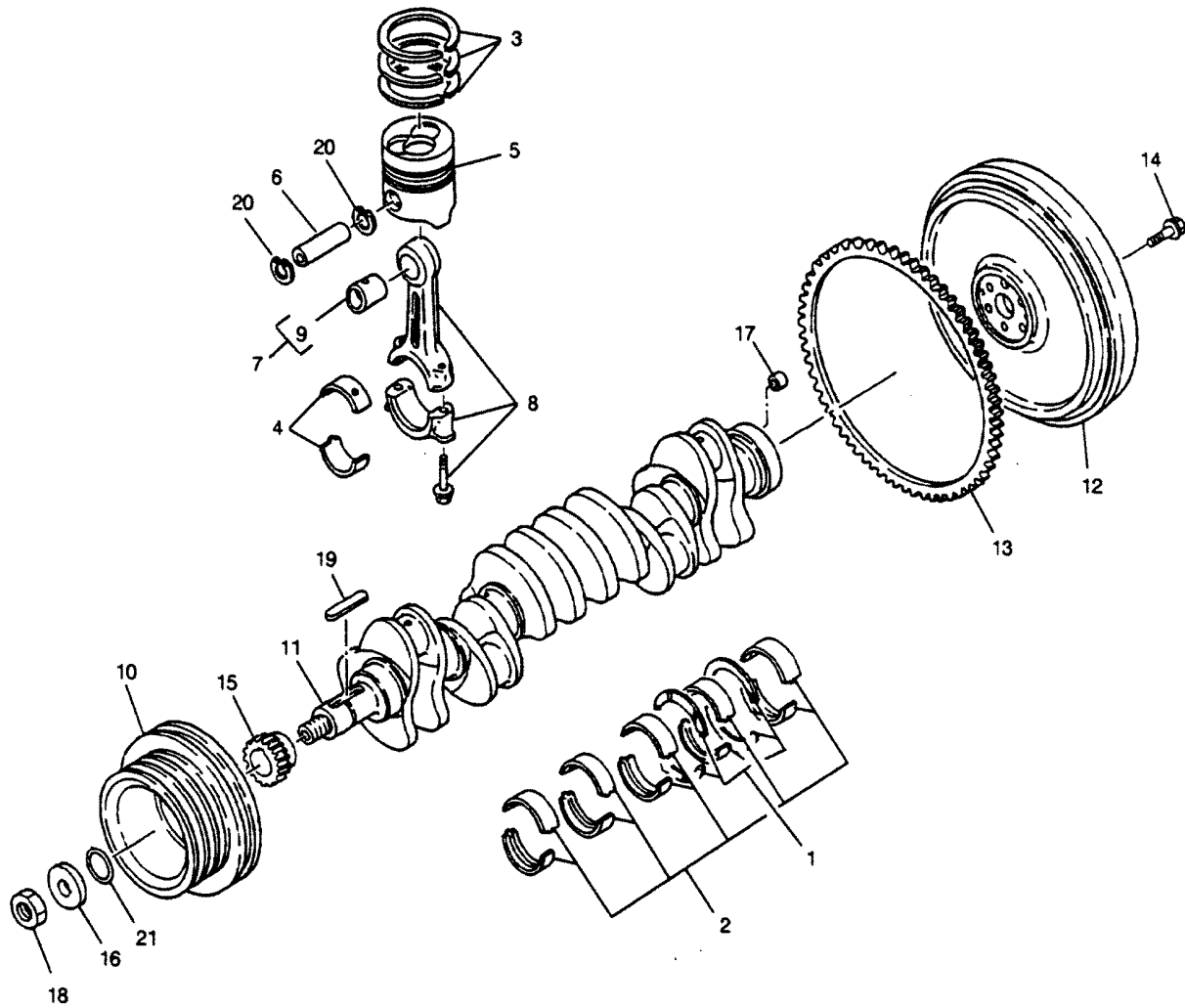
TIMING GEAR COVER AND FLYWHEEL HOUSING



TIMING GEAR COVER AND FLYWHEEL HOUSING

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833111330		1	PLATE, TIMING GEAR
2	833121101		1	GASKET, PLATE
3	833223080		1	COVER, TIMING GEAR
4	833513380		1	HOUSING, FLYWHEEL - FRONT
5	833514410		1	HOUSING, FLYWHEEL - REAR
6	833611250		1	COVER, TIMING WINDOW
7	833011341		2	BRACKET, ENGINE MOUNT
8	836901101		1	CASE ASSEMBLY, BEARING
9	834999983		1	CASE, BEARING
10	833211020		1	JOINT, WATER HOSE
11	830211235		1	FLANGE
12	838108650		5	BOLT, COVER
13	838108850		3	BOLT, COVER
14	838108900		2	BOLT, BEARING CASE
15	838108750		1	BOLT, BEARING CASE
16	838108200		4	BOLT PLATE
17	838108160		4	BOLT, PLATE
18	839108252		3	BOLT, BEARING CASE
19	839108351		6	BOLT, FLYWHEEL HOUSING
20	839108202		2	BOLT, FLANGE
21	835114350		1	STUD, STARTER
22	830210300		6	BOLT, BRACKET
23	831114402		8	BOLT, FLYWHEEL HOUSING
24	831110351		12	BOLT, FLYWHEEL HOUSING - REAR
25	832210080		1	PLUG
26	833922105		1	PLUG, COVER
27	833932102		1	PLUG, COVER
28	834402135		1	O-RING FLANGE
29	831372250		1	RING, RETAINER
30	832800109		1	SEAL, OIL
31	832858104		1	SEAL, OIL
32	835181102		1	O-RING
33	830062070		1	BEARING
34	F729770		1	MOUNT, REAR RIGHT
35	F729771		1	MOUNT, REAR LEFT
36	830114600		6	BOLT, MOUNT

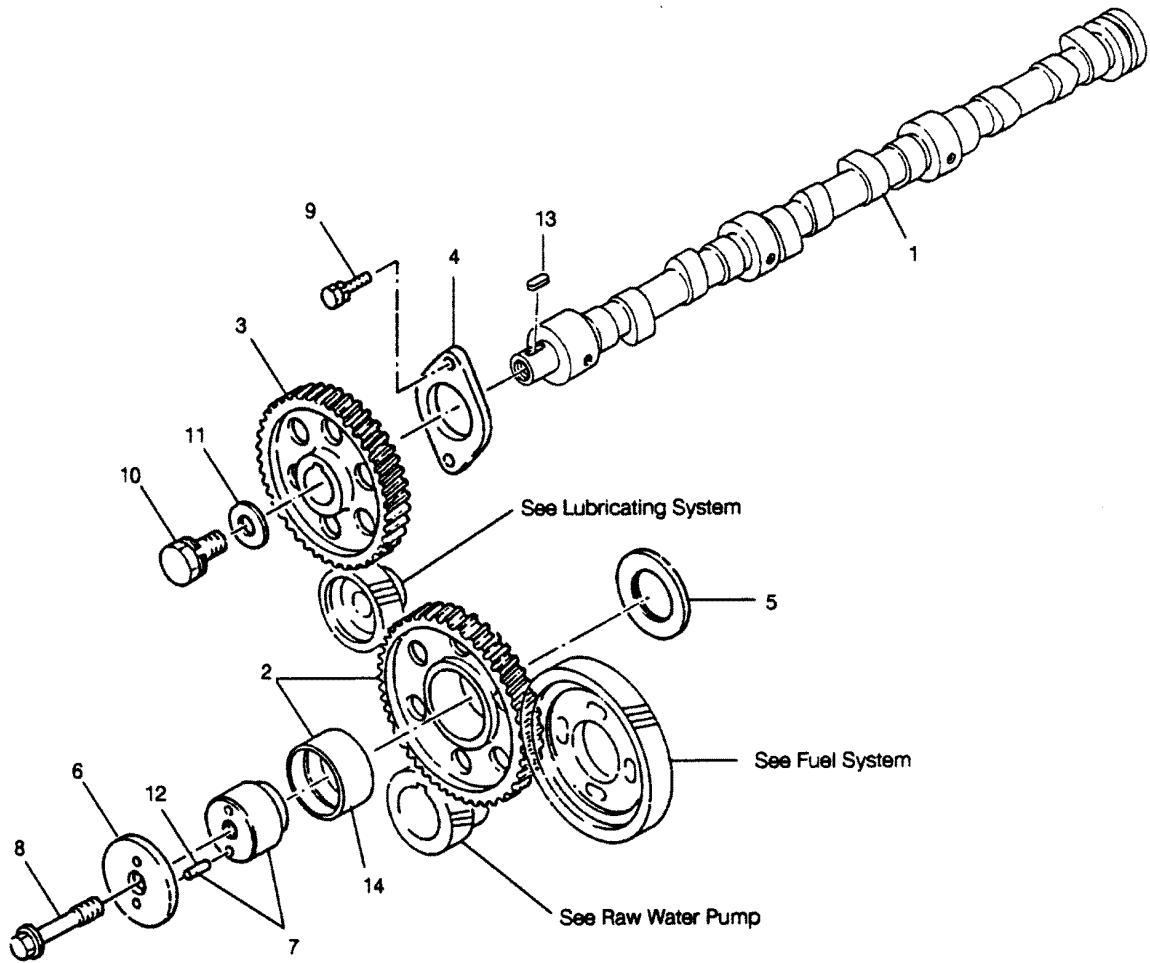
CRANKSHAFT AND PISTON ASSEMBLY



CRANKSHAFT AND PISTON ASSEMBLY

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	830111240		1	BEARING SET, THRUST (FOR ONE ENGINE)
2	837011770		1	BEARING SET, MAIN (FOR ONE ENGINE)
3	830112680		1	RING SET, PISTON (FOR ONE ENGINE)
4	832011570		1	BEARING SET, CONROD (FOR ONE ENGINE)
5	832161781		6	PISTON
6	832511300		6	PIN, PISTON
7	832601460		6	ROD ASSEMBLY, CONNECTING
8	832651371		12	BOLT, CONROD
9	832721290		6	BUSHING, CONROD REPAIR
10	834081260		1	PULLEY, CRANKSHAFT
11	834111751		1	CRANKSHAFT
12	834502492		1	FLYWHEEL ASSEMBLY
13	834531270		1	RING GEAR, FLYWHEEL
14	834551100		6	BOLT, FLYWHEEL
15	835211110		1	GEAR, CRANKSHAFT
16	830116148		1	SPACER
17	830129119		1	COLLAR
18	830927103		1	NUT, PULLEY
19	833910111		1	KEY, PULLEY
20	831937102		12	RING, PISTON PIN RETAINING
21	835141101		1	O-RING

CAMSHAFT AND IDLER GEAR

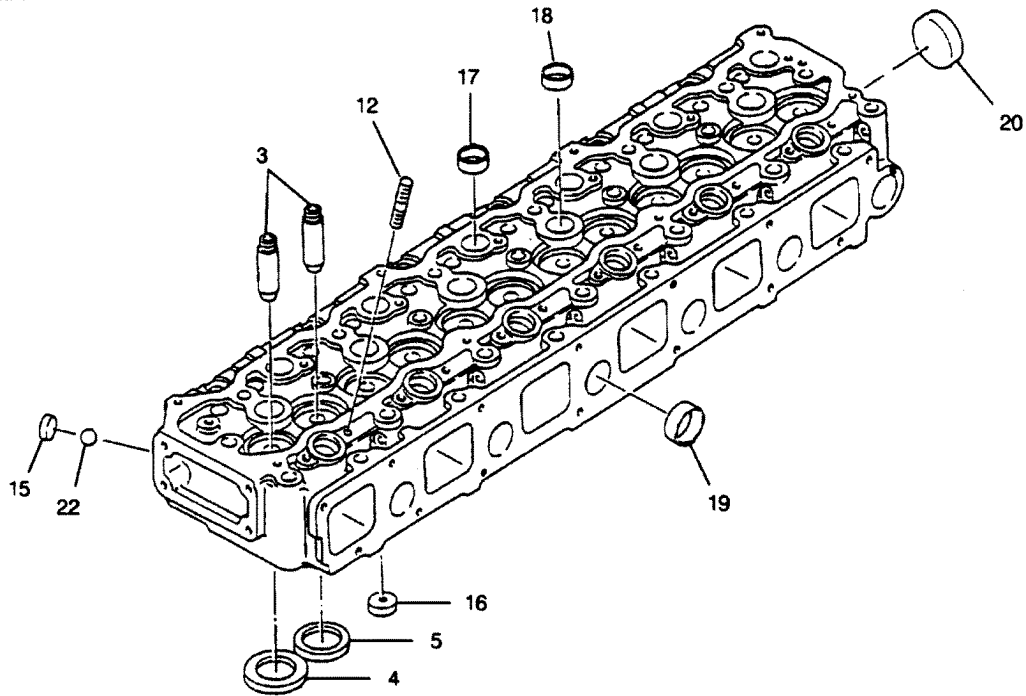
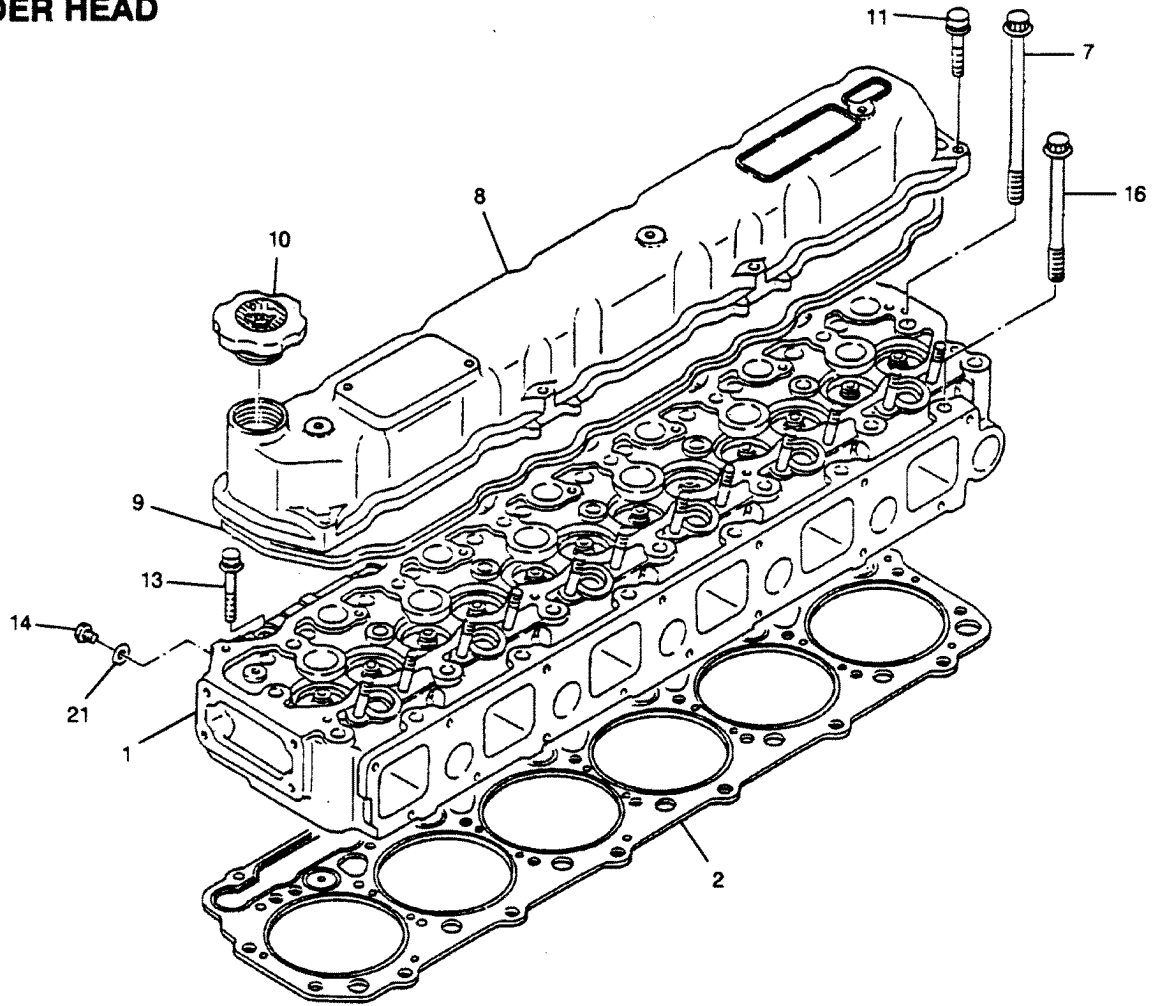


CAMSHAFT AND IDLER GEAR

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	835011052		1	CAMSHAFT
2	835051280		1	GEAR ASSEMBLY, IDLER
3	835231290		1	GEAR, CAMSHAFT
4	835711040		1	PLATE, THRUST
5	835721090		1	PLATE, THRUST
6	835721100		1	PLATE, THRUST
7	835801240		1	SHAFT, IDLER GEAR
8	830124244		1	BOLT, IDLER GEAR
9	838108250		2	BOLT, PLATE
10	838114400		1	BOLT, CAMSHAFT GEAR
11	836214440		1	WASHER
12	830406100		2	PIN, SHAFT
13	833307200		1	KEY, CAMSHAFT GEAR
14	836750124		1	BUSHING, IDLER GEAR

CYLINDER HEAD

IDER HEAD

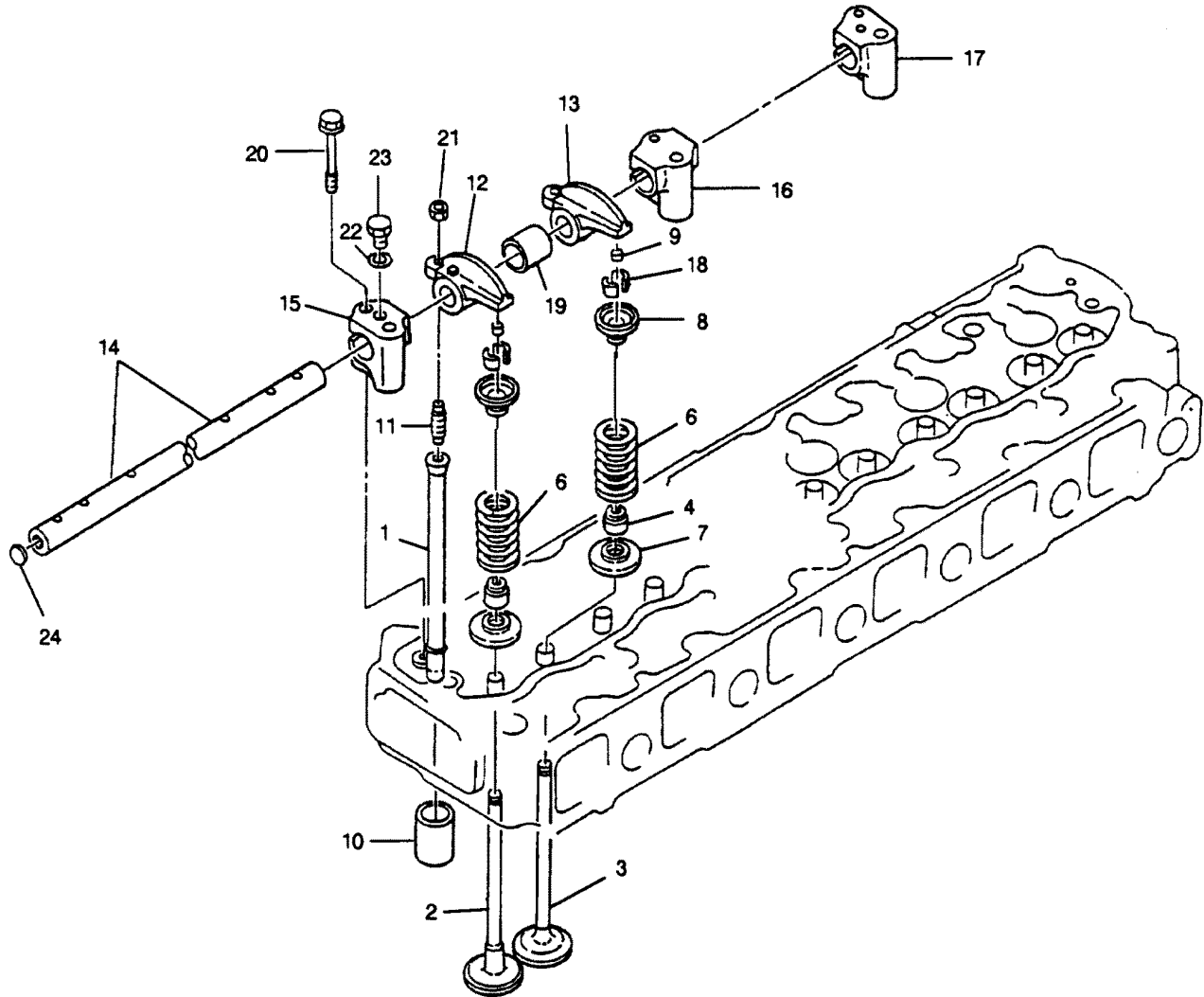


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CYLINDER HEAD

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831103040		1	HEAD ASSEMBLY, CYLINDER
2	831151851		1	GASKET, CYLINDER HEAD
3	831221140		12	BUSHING, VALVE GUIDE REPAIR
4	831311210		6	SEAT, VALVE - INTAKE
5	831351320		6	SEAT, VALVE - EXHAUST
6	831851440		19	BOLT, CYLINDER HEAD
7	831851450		7	BOLT, CYLINDER HEAD
8	832112340		1	COVER, CYLINDER HEAD
9	832131560		1	GASKET, CYLINDER HEAD COVER
10	831081100		1	CAP, OIL FILLER
11	839108351		8	BOLT, CYLINDER HEAD COVER
12	831108750		12	STUD, NOZZLE HOLD DOWN
13	831110401		6	BOLT, CYLINDER HEAD
14	830912102		1	PLUG
15	833914101		6	PLUG, EXPANSION
16	833922107		6	PLUG, EXPANSION
17	833924103		6	PLUG, EXPANSION
18	833926102		6	PLUG, EXPANSION
19	833930105		6	PLUG, EXPANSION
20	833950103		1	PLUG, EXPANSION
21	835412100		1	WASHER, SEALING
22	830005080		1	BALL, STEEL

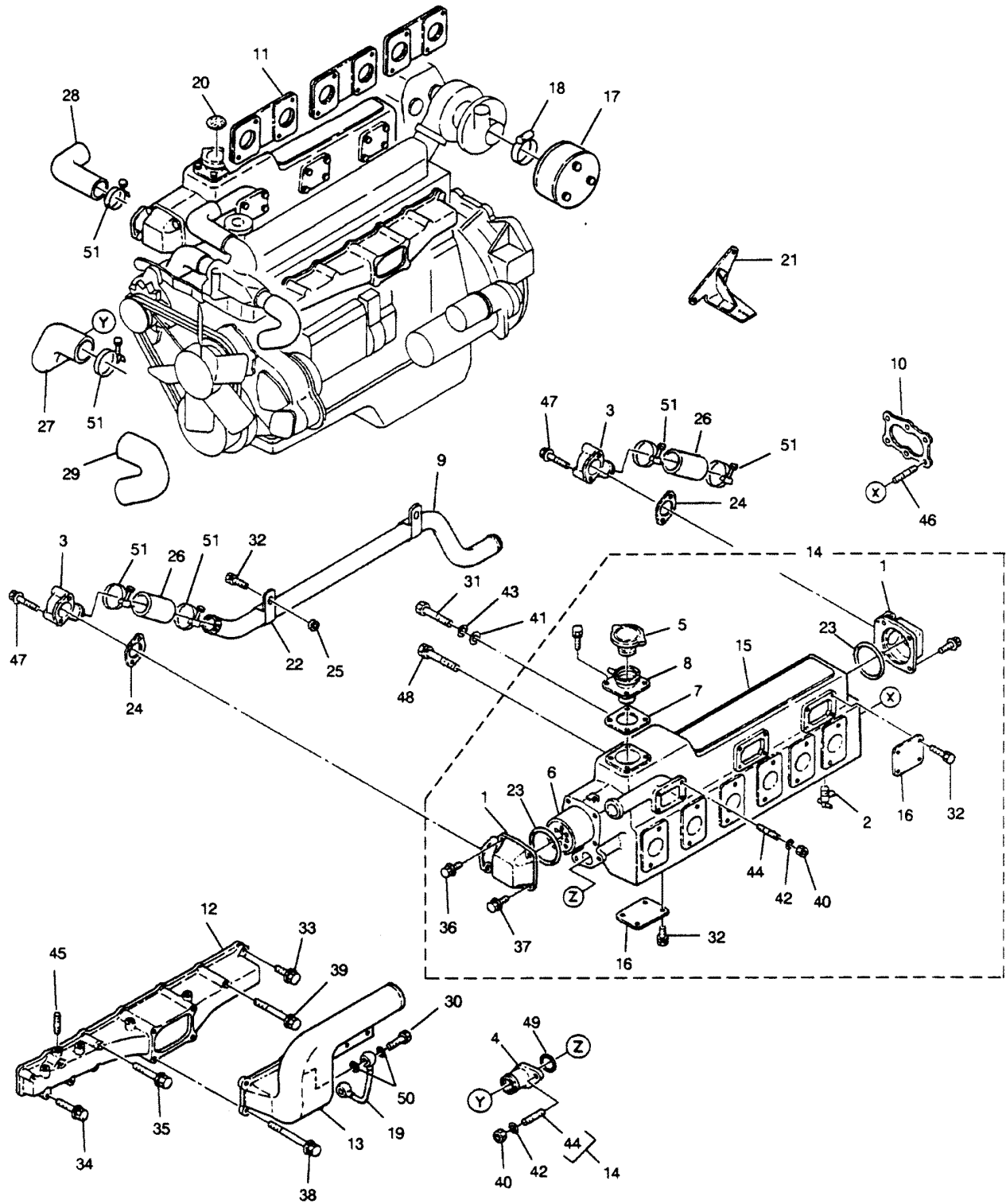
VALVE TRAIN



VALVE TRAIN

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837081160		12	PUSH ROD
2	837111521		6	VALVE, INTAKE
3	837151570		6	VALVE, EXHAUST
4	837191020		6	SEAL, VALVE - EXHAUST
5	837191190		6	SEAL, VALVE - INTAKE
6	837311312		12	SPRING, VALVE
7	837341210		12	SEAT, VALVE SPRING
8	837351260		12	RETAINER, VALVE SPRING
9	837391030		12	CAP, VALVE STEM
10	837511332		12	LIFTER, VALVE
11	837871161		12	SCREW, VALVE ADJUST
12	838111610		12	ARM, ROCKER - INTAKE
13	838111620		6	ARM, ROCKER - EXHAUST
14	839011200		1	SHAFT ASSY., ROCKER ARM
15	839511560		1	SUPPORT, ROCKER SHAFT
16	839511570		5	SUPPORT, ROCKER SHAFT
17	839511580		1	SUPPORT, ROCKER SHAFT
18	830126105		24	LOCK, SPRING RETAINER
19	830129174		6	COLLAR
20	839108601		7	BOLT, SUPPORT
21	831908113		12	NUT, ADJUST SCREW
22	838005130		2	LOCKWASHER
23	839105080		2	SCREW, SET
24	833012160		2	PLUG, EXPANSION

INTAKE AND EXHAUST SYSTEM

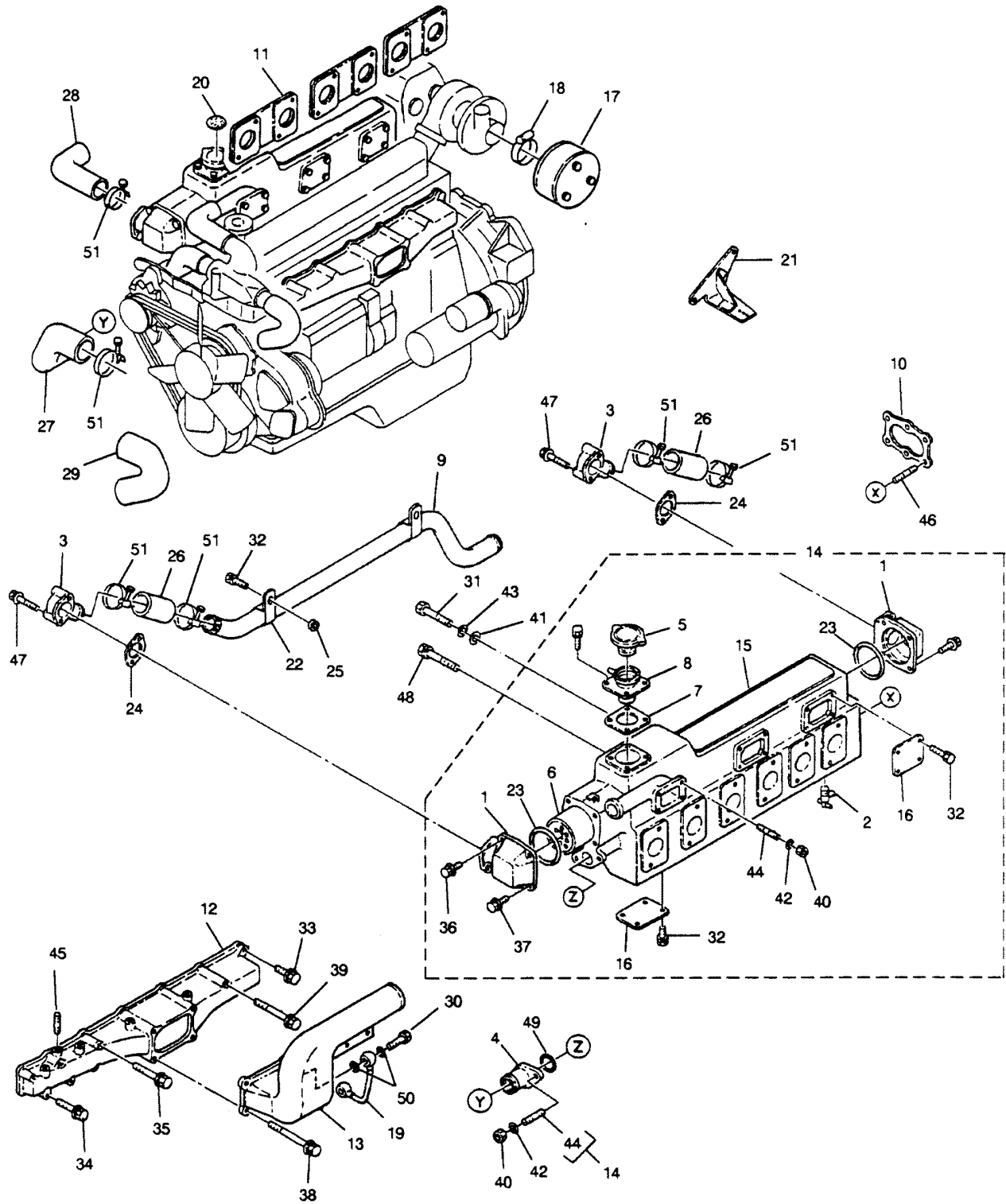


INTAKE AND EXHAUST SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	832651250		2	COVER, END - EXHAUST MANIFOLD
2	830511090		2	PETCOCK, WATER DRAIN
3	830873140		2	PIPE, COOLANT
4	831131620		1	PIPE, COOLANT
5	834011290		1	CAP, PRESSURE
6	834051080		1	ELEMENT, HEAT EXCHANGER
7	834131040		1	GASKET, SEAT
8	835851020		1	SEAT, CAP
9	836911670		1	PIPE, COOLANT
10	831041090		1	GASKET, EXHAUST
11	831041310		3	GASKET, MANIFOLD
12	831112890		1	MANIFOLD, INTAKE
13	831134120		1	PIPE, INTAKE
14	831401211		1	MANIFOLD ASSEMBLY, EXHAUST
15	831414001		1	MANIFOLD CASE, EXHAUST
16	831691150		6	PLATE, COVER
17	837204320		1	AIR CLEANER ASSEMBLY
18	837711360		1	CLAMP, AIR CLEANER
19	834611330		1	PIPE, BOOST COMPENSATOR
20	835614470		1	PLATE, CAUTION
21	831043840		1	BRACKET, THROTTLE CONTROL
22	839042660		2	CLIP
23	830115222		2	GASKET, END COVER
24	830115237		2	GASKET
25	830116107		2	SPACER, PIPE
26	830234133		2	HOSE, WATER
27	830234364		1	HOSE, WATER
28	830234365		1	HOSE, WATER
29	830234366		1	HOSE, WATER
30	832910189		1	BOLT, BANJO
31	832910229		6	BOLT, EXHAUST MANIFOLD
32	838108200		28	BOLT, PLATE
33	839108351		3	BOLT, INTAKE MANIFOLD
34	839108552		5	BOLT, INTAKE MANIFOLD
35	839108652		1	BOLT, INTAKE MANIFOLD
36	839108401		2	BOLT, END COVER
37	839108251		6	BOLT, END COVER
38	839908114		3	BOLT, INTAKE MANIFOLD
39	839908121		2	BOLT, INTAKE MANIFOLD
40	830108070		4	NUT
41	830610180		6	WASHER
42	838008200		4	LOCKWASHER
43	FI4290003		6	LOCKWASHER

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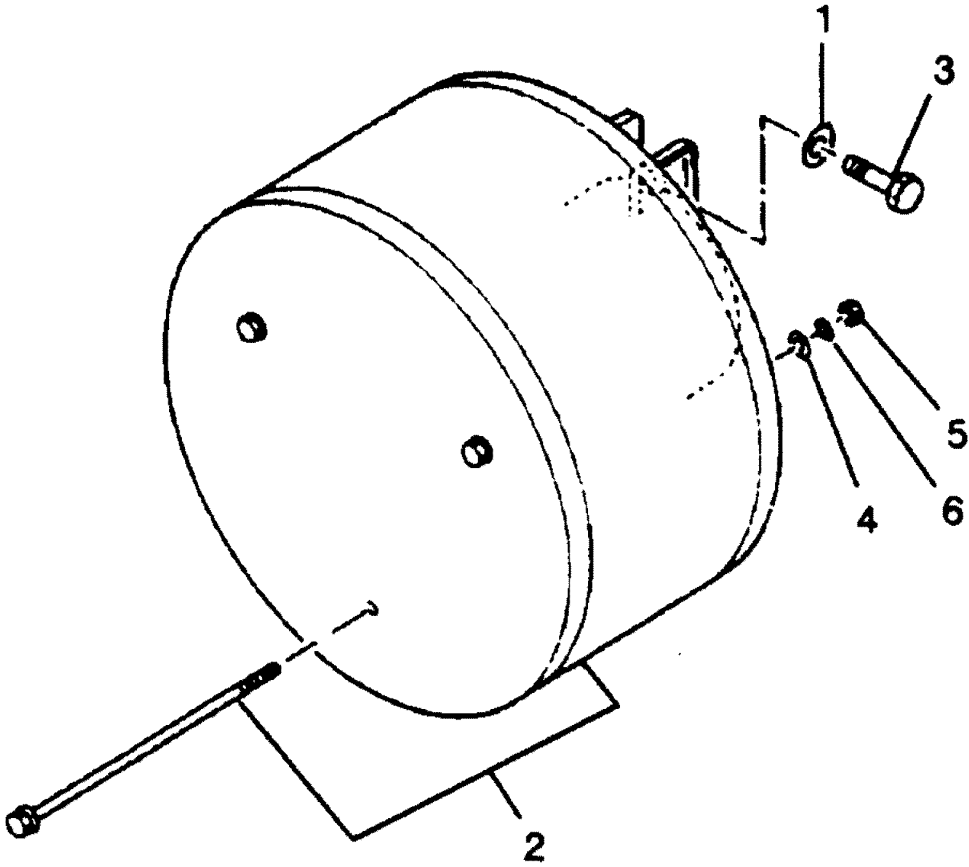
INTAKE AND EXHAUST SYSTEM



INTAKE AND EXHAUST SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
44	830108180		4	STUD
45	831906106		5	STUD
46	836910103		6	STUD
47	831110602		4	BOLT
48	831910111		6	BOLT
49	834404535		1	O-RING
50	835910105		2	WASHER, SEALING
51	836945101		10	CLAMP, HOSE

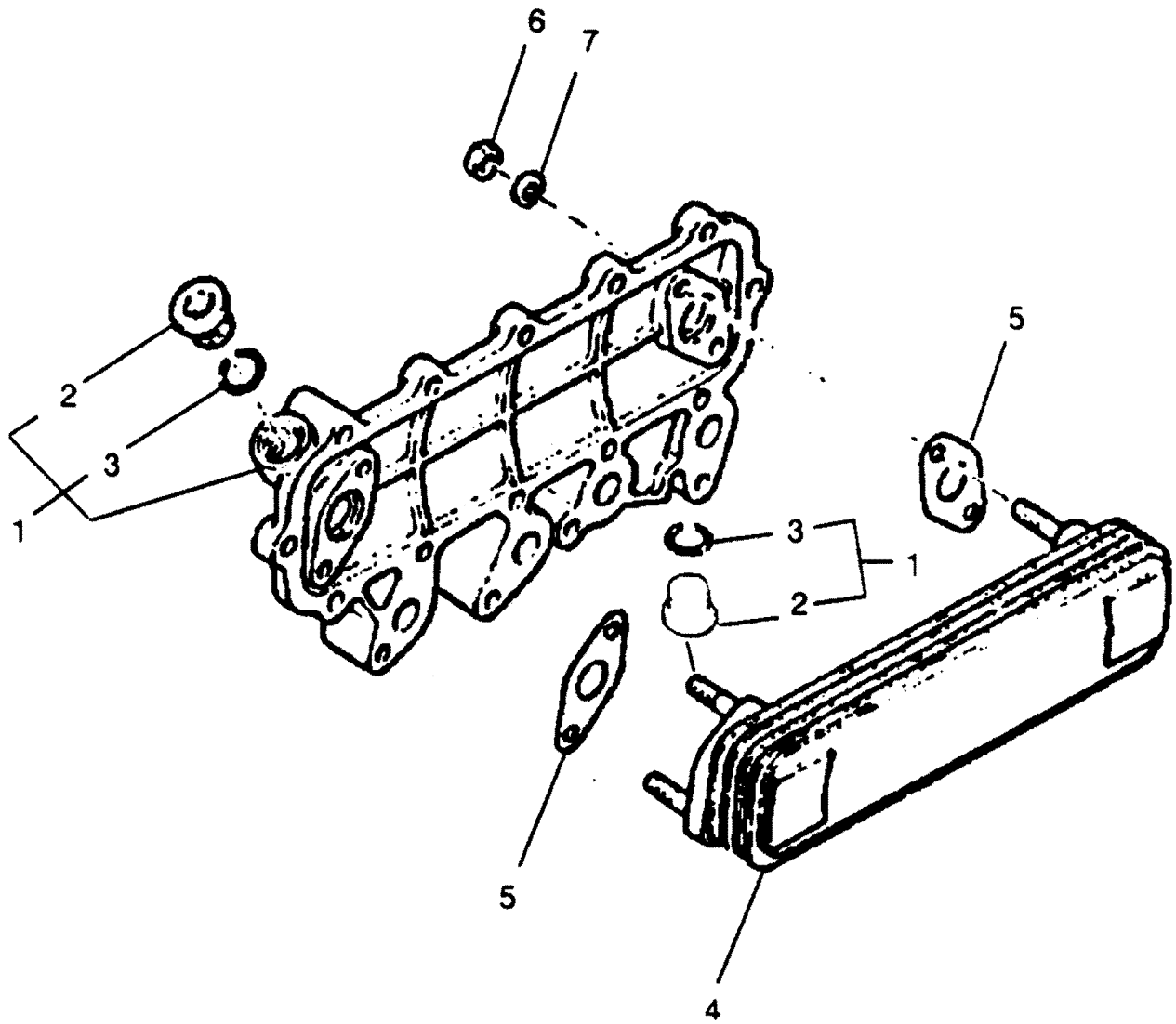
AIR CLEANER (P/N 177204320)



AIR CLEANER (P/N 177204320)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	838008200		1	LOCKWASHER
2	838012660		2	ELEMENT, AIR CLEANER
3	833008450		1	BOLT
4	836006140		6	WASHER
5	830106050		3	NUT
6	838006150		3	LOCKWASHER

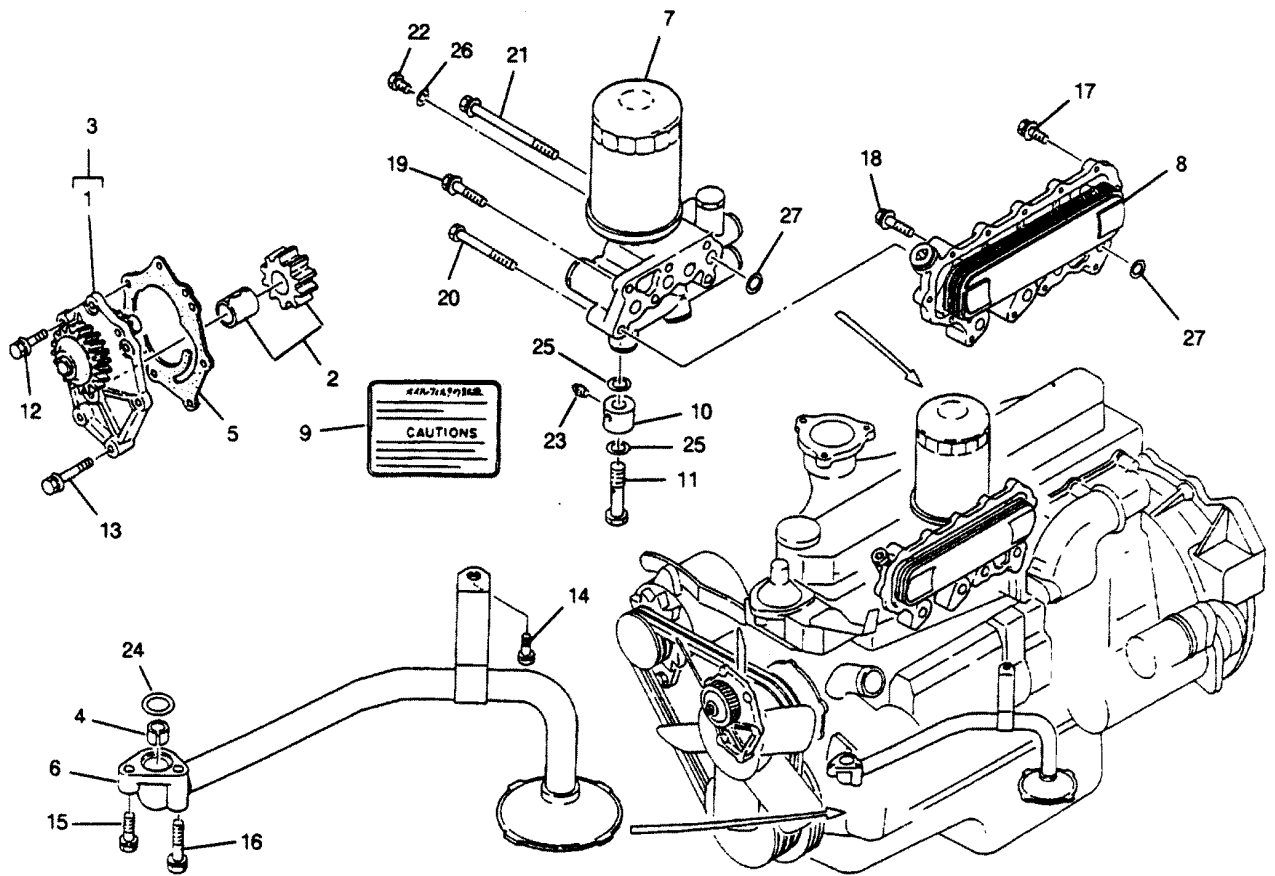
OIL COOLER



OIL COOLER

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837011470		1	CASE, OIL COOLER
2	830920102		2	PLUG
3	835118111		2	O-RING, PLUG
4	837121530		1	ELEMENT, OIL COOLER
5	837171160		2	GASKET, ELEMENT
6	830908137		4	NUT
7	838008200		4	WASHER, LOCK

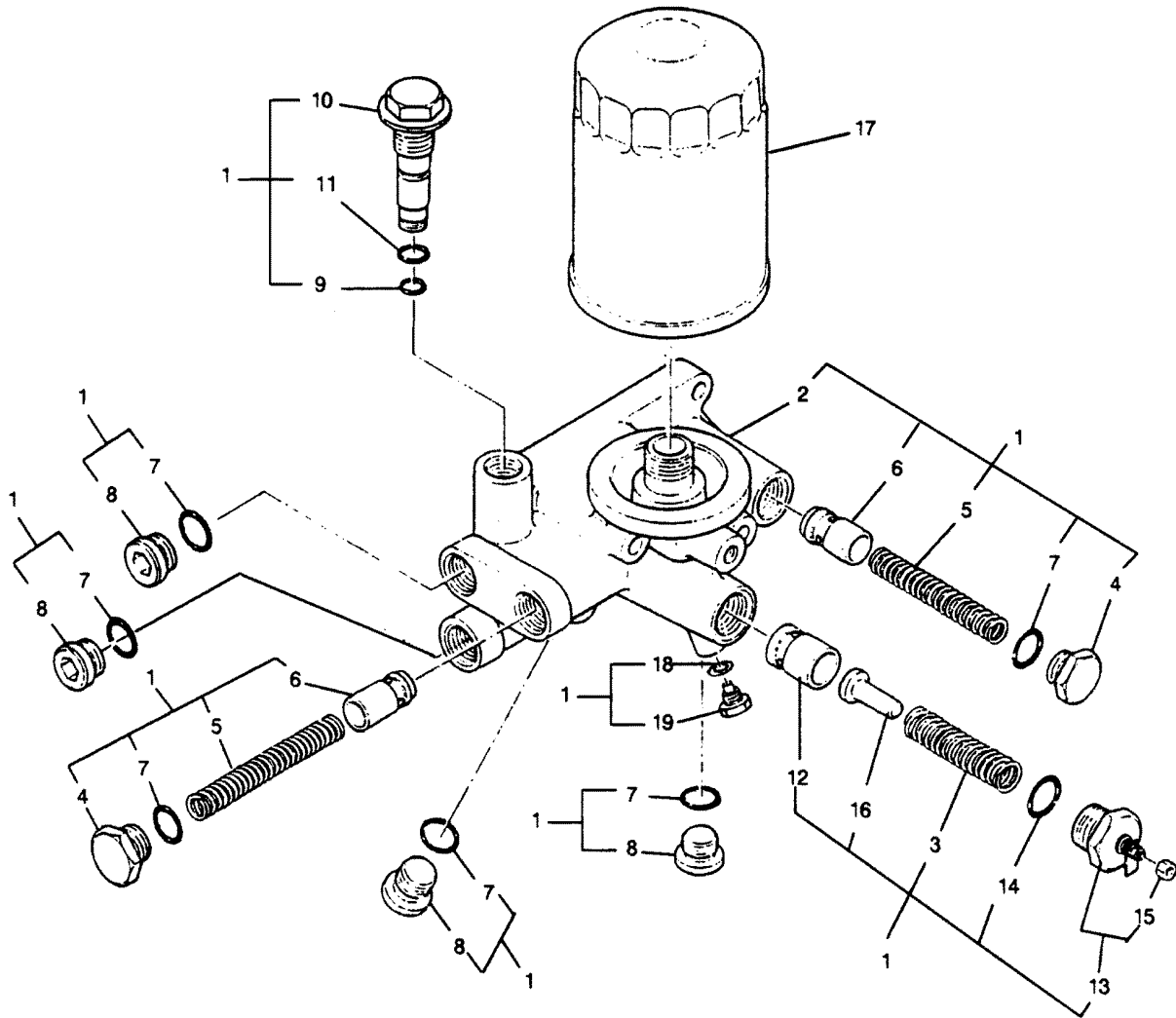
LUBRICATING SYSTEM



LUBRICATING SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	830121231		1	COVER ASSEMBLY, OIL PUMP
2	834999992		1	GEAR ASSEMBLY, OIL PUMP
3	831101541		1	PUMP ASSEMBLY, OIL
4	831141050		1	GUIDE, O-RING
5	831191121		1	GASKET, COVER
6	834011520		1	PICK-UP ASSEMBLY, OIL PUMP
7	836003490		1	BASE ASSEMBLY, OIL FILTER (SEE INDIVIDUAL SECTION FOR COMPONENTS)
8	837101810		1	COOLER ASSEMBLY, OIL (SEE INDIVIDUAL SECTION FOR COMPONENTS)
9	835818181		1	PLATE, CAUTION
10	830235130		1	CONNECTOR
11	831914237		1	BOLT, CONNECTOR
12	838108200		5	BOLT, COVER
13	838108350		2	BOLT, COVER
14	838108160		1	BOLT, PICK-UP BRACKET
15	838108300		1	BOLT, PICK-UP
16	838108500		1	BOLT, PICK-UP
17	839108401		8	BOLT, OIL COOLER
18	839108551		2	BOLT, OIL COOLER
19	839108752		1	BOLT, FILTER BASE
20	839108002		2	BOLT, FILTER BASE
21	839908157		3	BOLT, FILTER BASE
22	830410110		1	PLUG, FILTER BASE
23	832910115		3	PLUG, CONNECTOR
24	834402135		1	O-RING, PICK-UP
25	835914110		3	WASHER, SEALING
26	835910105		1	WASHER, SEALING
27	835119101		8	O-RING, OIL COOLER & BASE

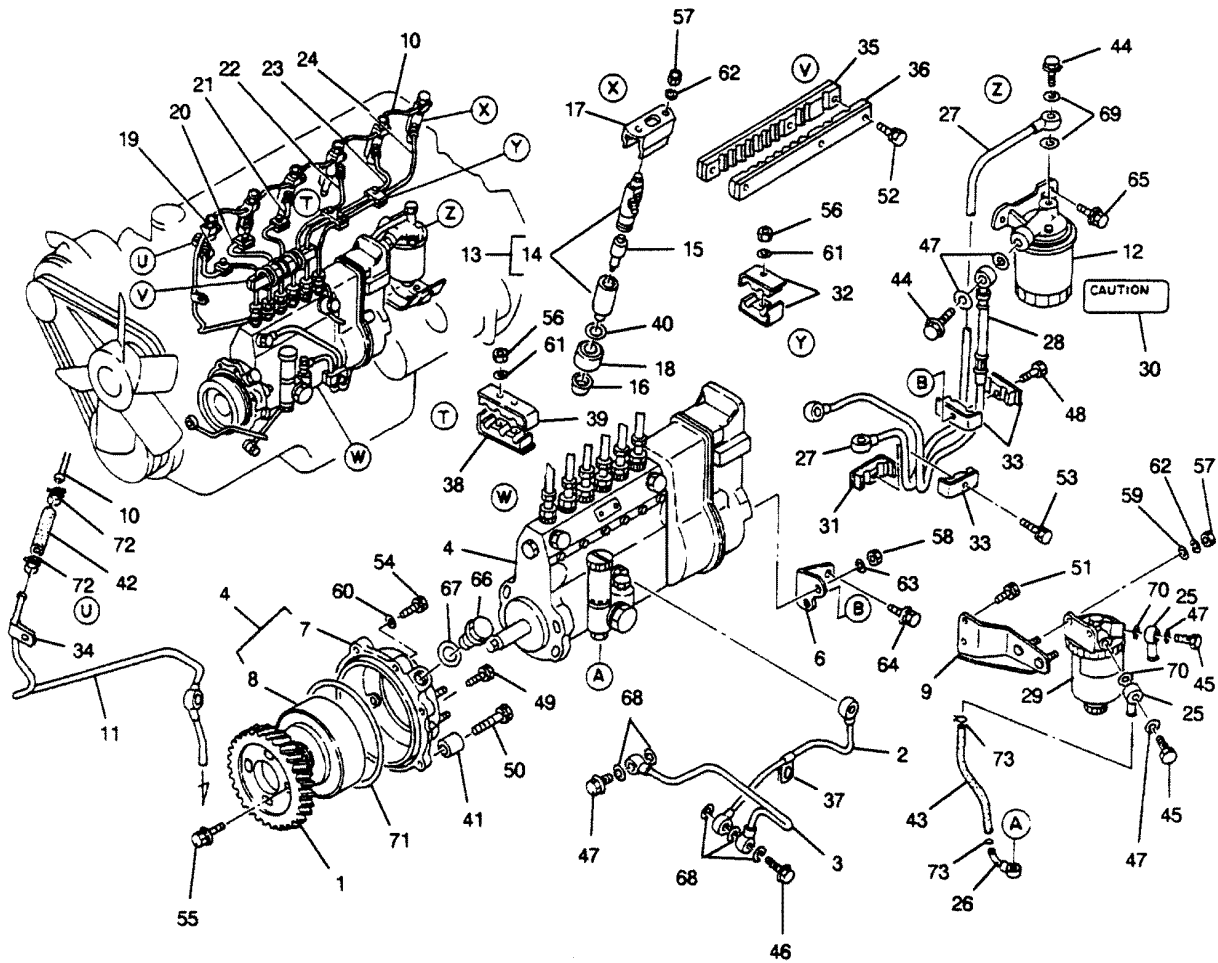
OIL FILTER BASE ASSEMBLY (P/N 156003490)



OIL FILTER BASE ASSEMBLY (P/N 156003490)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836202570		1	BASE ASSEMBLY, OIL FILTER
2	836122190		1	BASE, OIL FILTER
3	836611160		1	SPRING, SWITCH
4	837161050		2	PLUG, VALVE
5	836611250		2	SPRING, OIL VALVE
6	836241200		2	VALVE, PRESSURE
7	835118111		6	O-RING
8	830920102		4	PLUG
9	835110111		1	O-RING
10	836431140		1	PLUG
11	835112116		1	O-RING
12	836241040		1	VALVE, SAFETY
13	836601020		1	SWITCH, FILTER BY-PASS
14	835120107		1	O-RING
15	830004030		1	NUT, TERMINAL
16	836041020		1	VALVE, OIL
17	836071630		1	FILTER, OIL - SPIN-ON
18	835108101		1	O-RING
19	836431020		1	PLUG, FILTER DRAIN

FUEL SYSTEM

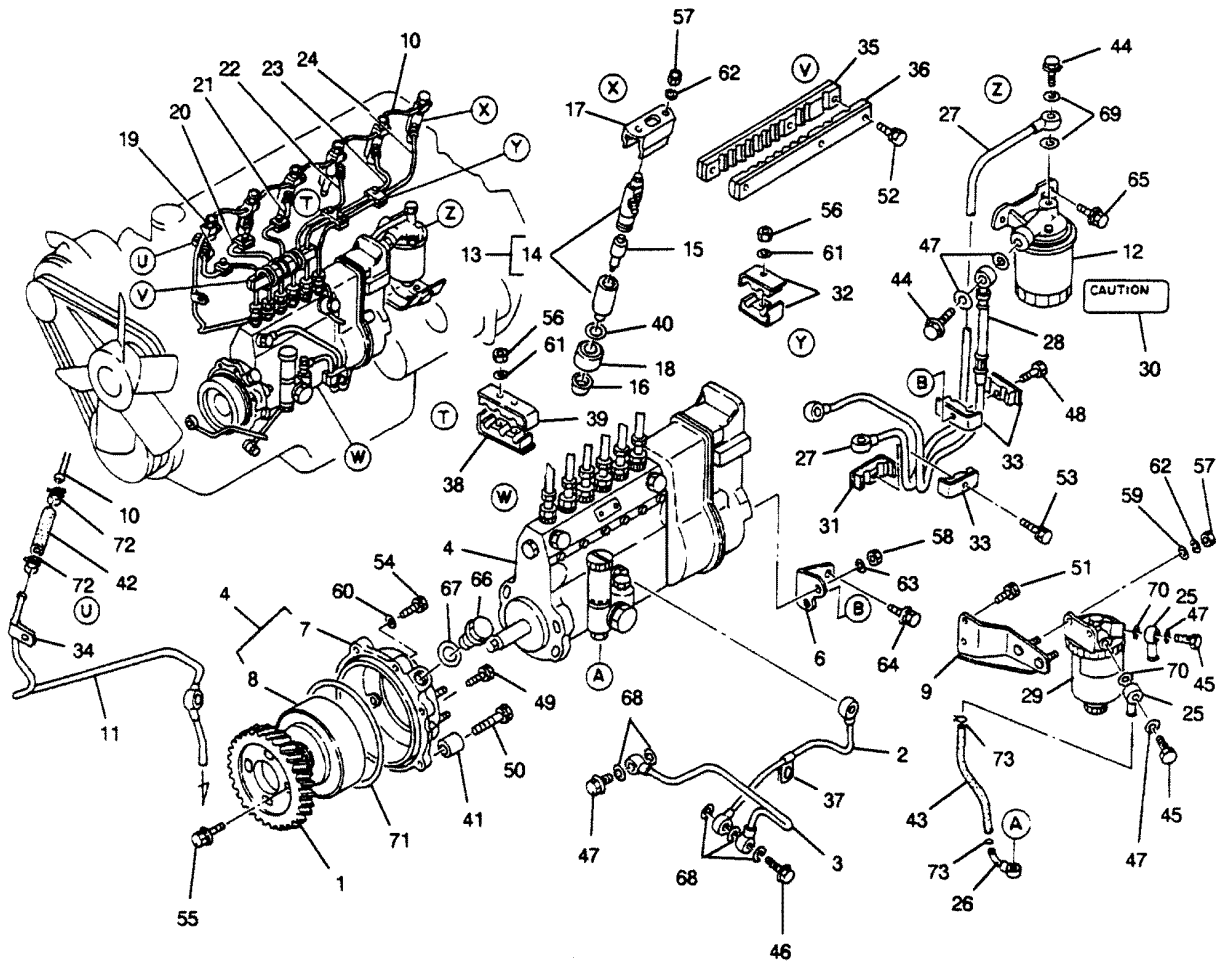


FUEL SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836131280		1	GEAR, PUMP DRIVE
2	837731321		1	PIPE, OIL
3	837731371		1	PIPE, OIL
4	830203521		1	PUMP ASSEMBLY, INJECTION
5	835601540		1	PUMP ASSEMBLY, FUEL FEED
6	833433770		1	BRACKET, PUMP
7	835011020		1	COVER, TIMER
8	226119999		1	FLANGE, COUPLING
9	830311200		1	BRACKET, SEPARATOR
10	830811790		1	PIPE, FUEL RETURN
11	830831150		1	PIPE, FUEL
12	833002010		1	BASE ASSEMBLY, FILTER
13	836001780		6	NOZZLE ASSEMBLY, INJECTOR
14	836201630		6	HOLDER ASSEMBLY, NOZZLE TIP (FOR INDIVIDUAL COMPONENTS SEE SEPERATE SECTION)
15	836401560		6	NOZZLE TIP ASSEMBLY
16	836611140		6	GASKET, NOZZLE
17	836651110		6	BRACKET, NOZZLE
18	836671070		6	RING, PACKING
19	837111980		1	PIPE, NOZZLE - #1
20	837121970		1	PIPE, NOZZLE - #2
21	837131920		1	PIPE, NOZZLE - #3
22	837141940		1	PIPE, NOZZLE - #4
23	837151910		1	PIPE, NOZZLE - #5
24	837161890		1	PIPE, NOZZLE - #6
25	837811620		2	PIPE, FUEL
26	837811981		1	PIPE, FUEL
27	837821161		1	PIPE, FUEL FEED
28	838064251		1	HOSE, FUEL
29	838031080		1	SEPARATOR ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
30	835818320		1	PLATE, CAUTION
31	839041900		1	CLIP
32	839041930		8	CLIP
33	839041940		3	CLIP
34	839042000		1	CLIP
35	839042190		1	CLIP
36	839042200		1	CLIP
37	839041170		1	CLIP
38	839042131		1	CLIP
39	839042141		1	CLIP
40	830111145		6	SHIM
41	830116199		1	SPACER
42	830231118		1	HOSE, FUEL

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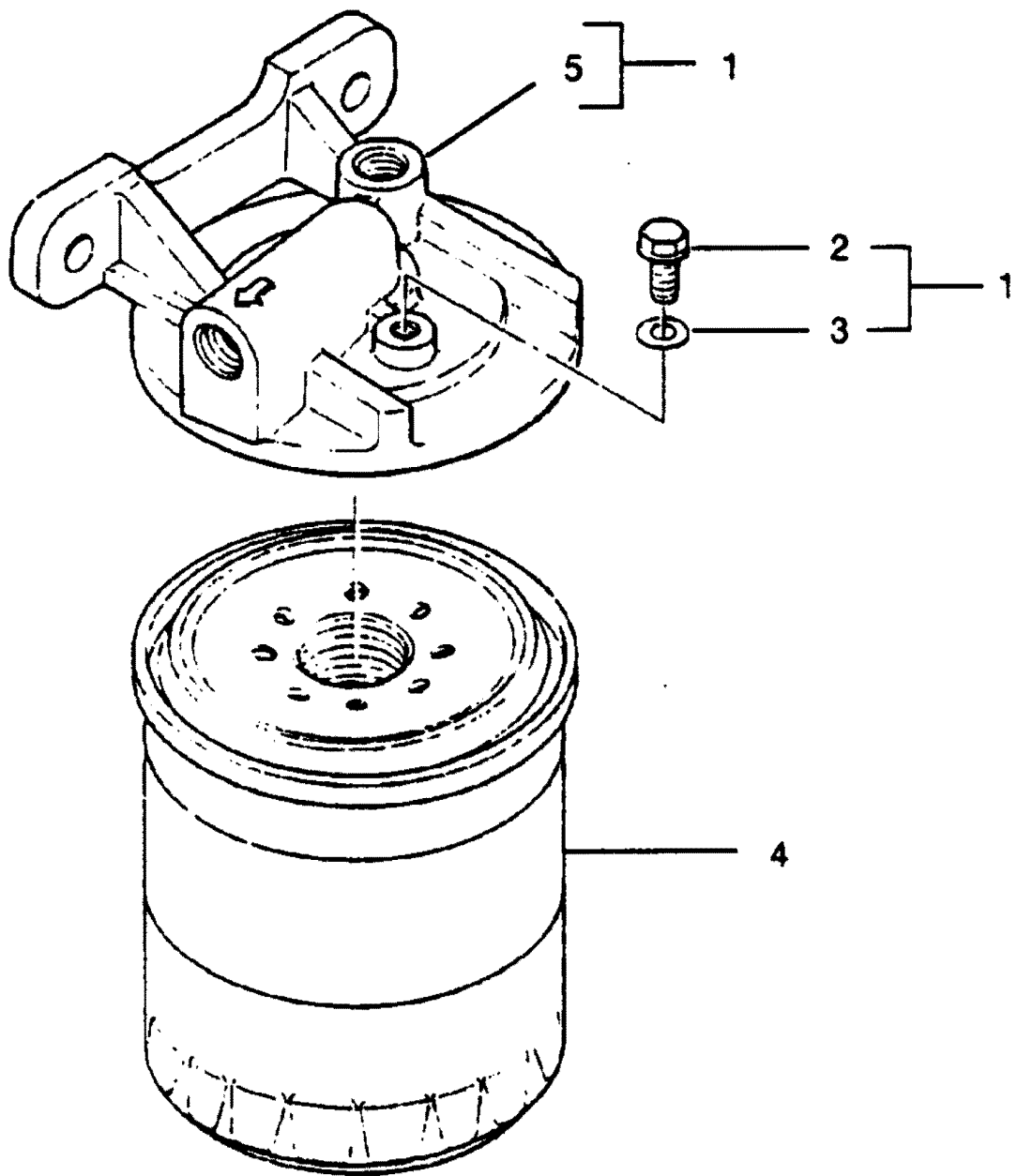
FUEL SYSTEM



FUEL SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
43	830562139		1	TUBE
44	831914184		2	BOLT, BANJO - FILTER
45	831913101		2	BOLT, BANJO - SEPARATOR
46	832910234		1	BOLT, BANJO
47	832910245		1	BOLT, BANJO
48	838106350		1	BOLT, CLIP
49	838108450		1	BOLT, COVER
50	838108600		1	BOLT, COVER
51	838108160		2	BOLT, BRACKET
52	838106300		3	BOLT, CLIP
53	839106253		1	BOLT, CLIP
54	839108351		1	BOLT, COVER
55	839908143		4	BOLT, GEAR
56	830106050		5	NUT, CLIP
57	830108070		14	NUT, NOZZLE BRACKET
58	830110080		1	NUT, BRACKET
59	836008180		2	WASHER, FLAT
60	836208220		1	WASHER, FLAT
61	838006150		5	WASHER, LOCK
62	838008200		14	WASHER, LOCK
63	FI4290003		1	WASHER, LOCK
64	830110250		1	BOLT, BRACKET
65	831110251		2	BOLT, FILTER BASE
66	831922102		1	PLUG, TIMING PORT
67	835422150		1	WASHER, PLUG
68	835910105		6	WASHER, SEALING
69	835914104		6	WASHER, SEALING
70	835913110		2	WASHER, SEALING
71	835101125		1	O-RING, COVER
72	835410105		2	CLAMP
73	835415104		2	CLAMP

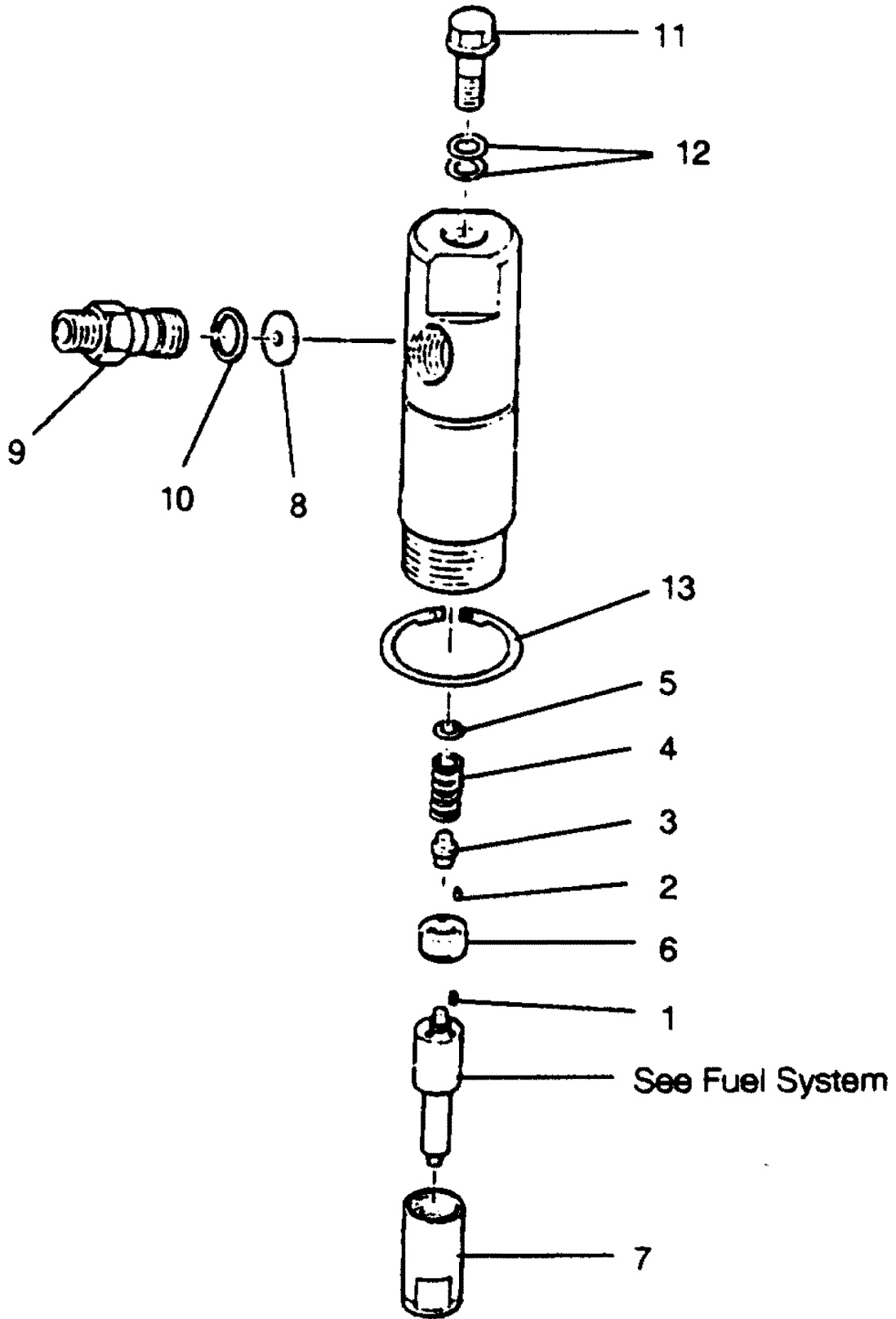
FUEL FILTER BASE ASSEMBLY (P/N 233002010)



FUEL FILTER BASE ASSEMBLY (P/N 233002010)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833101520		1	BASE ASSEMBLY, FILTER
2	833161210		1	PLUG, VENT
3	833641040		1	GASKET, PLUG
4	834011341		1	FILTER, FUEL - SPIN-ON
5	833111300		1	BASE, FILTER

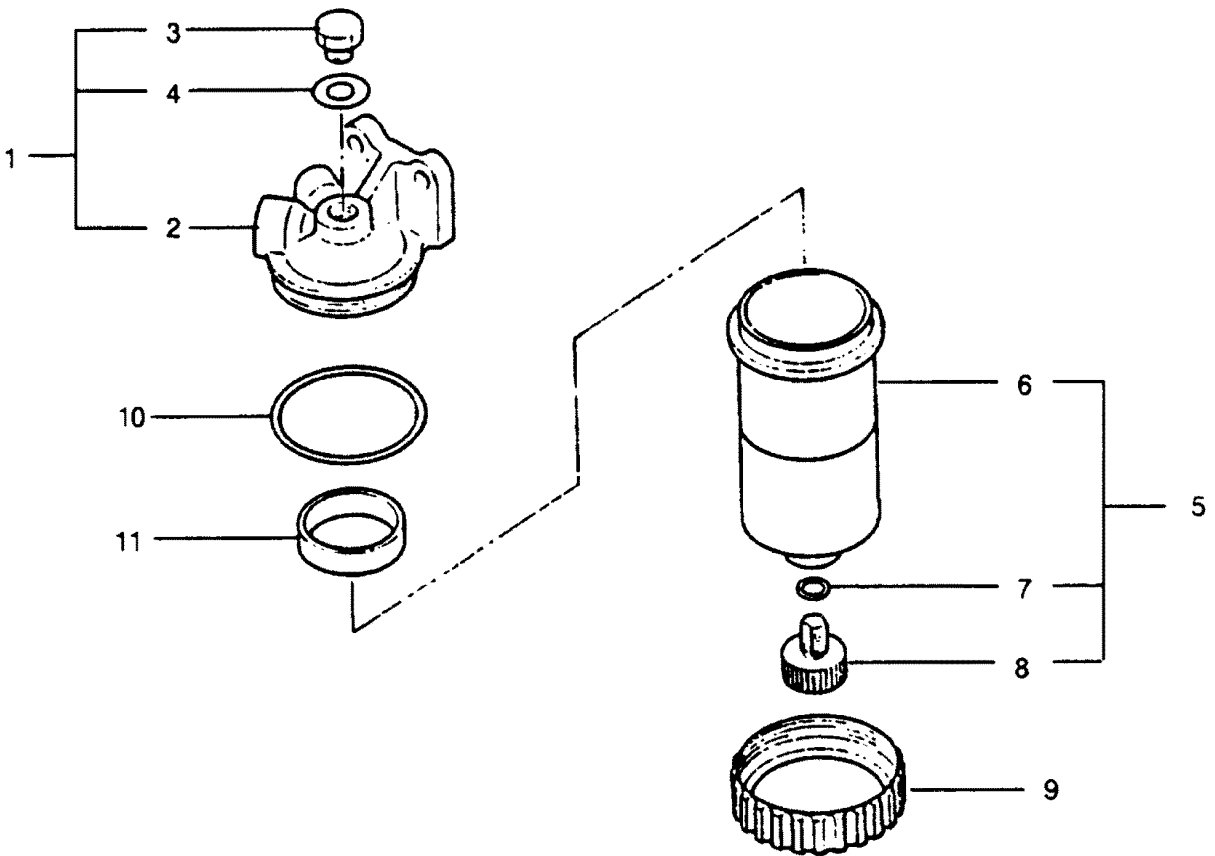
INJECTOR NOZZLE (P/N 236201630)



INJECTOR NOZZLE (P/N 236201630)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836221070		2	PIN, DOWEL
2	836221080		1	PIN, DOWEL
3	836161190		1	PIN, NOZZLE
4	836151180		1	SPRING, NOZZLE
5	NOTSERVI		-	SEE LOCAL SUPPLIER
6	836171560		1	DISTANCE PIECE
7	836331230		1	NUT, NOZZLE TIP
8	836211080		1	GASKET
9	NOTSERVI		1	SEE LOCAL SUPPLIER
10	836671090		1	RING, PACKING
11	838311410		1	BOLT, BANJO
12	838431870		2	WASHER, SEALING
13	838831080		1	RING, RETAINING

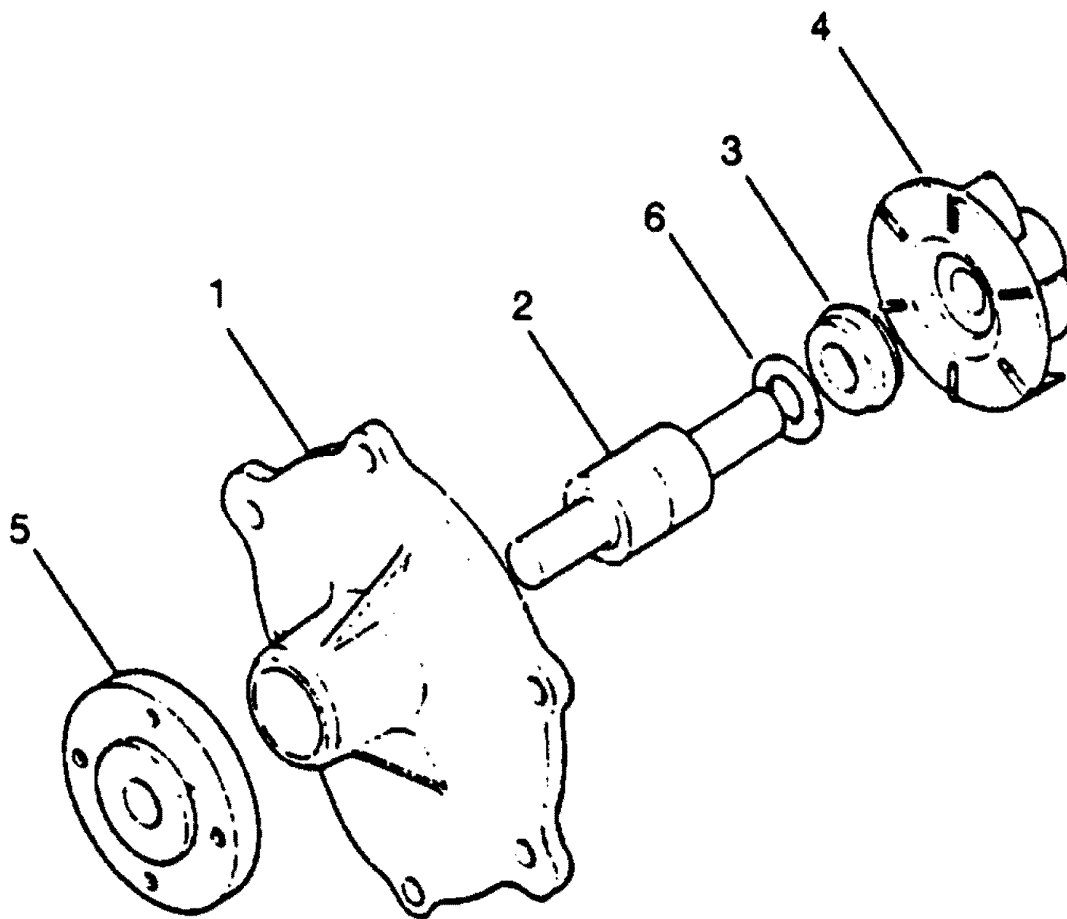
WATER SEPARATOR (P/N 448031080)



WATER SEPARATOR (P/N 448031080)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833601010		1	BASE ASSEMBLY, SEPARATOR
2	833611011		1	BASE, SEPARATOR
3	833161030		1	PLUG, VENT
4	833641010		1	GASKET, PLUG
5	833701010		1	BODY ASSEMBLY, SEPARATOR
6	833711010		1	BODY, SEPARATOR
7	835109103		1	O-RING
8	833221030		1	PLUG, DRAIN
9	833621020		1	RING, RETAINING
10	835159101		1	O-RING
11	833721010		1	FLOAT, INDICATOR

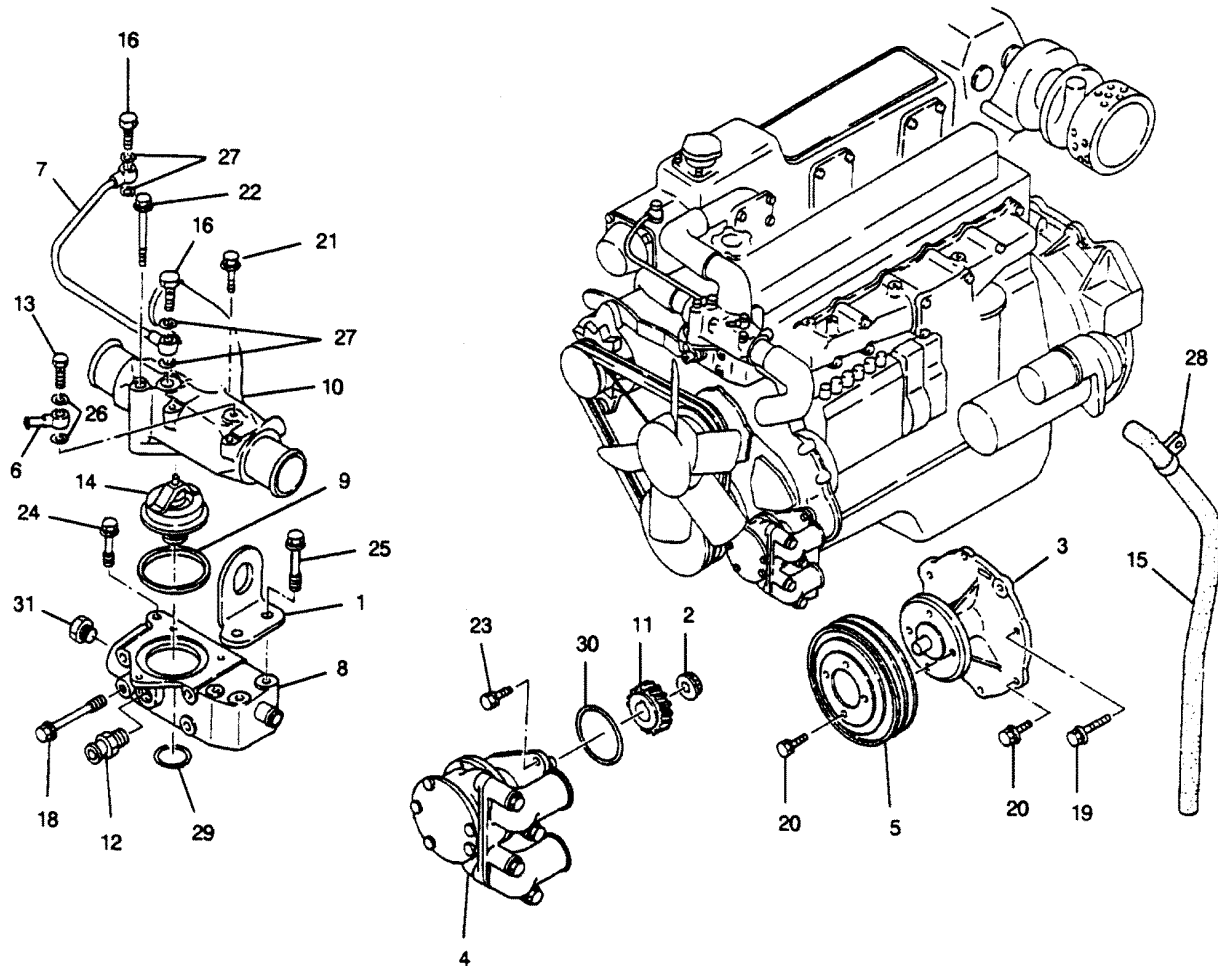
ENGINE COOLANT PUMP (P/N 161002531)



ENGINE COOLANT PUMP (P/N 161002531)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831111602		1	CASE, PUMP
2	831091160		1	SHAFT, IMPELLER
3	831041180		1	SEAL, SHAFT
4	831311340		1	IMPELLER
5	831711070		1	CENTER, PULLEY
6	831471030		1	SLINGER

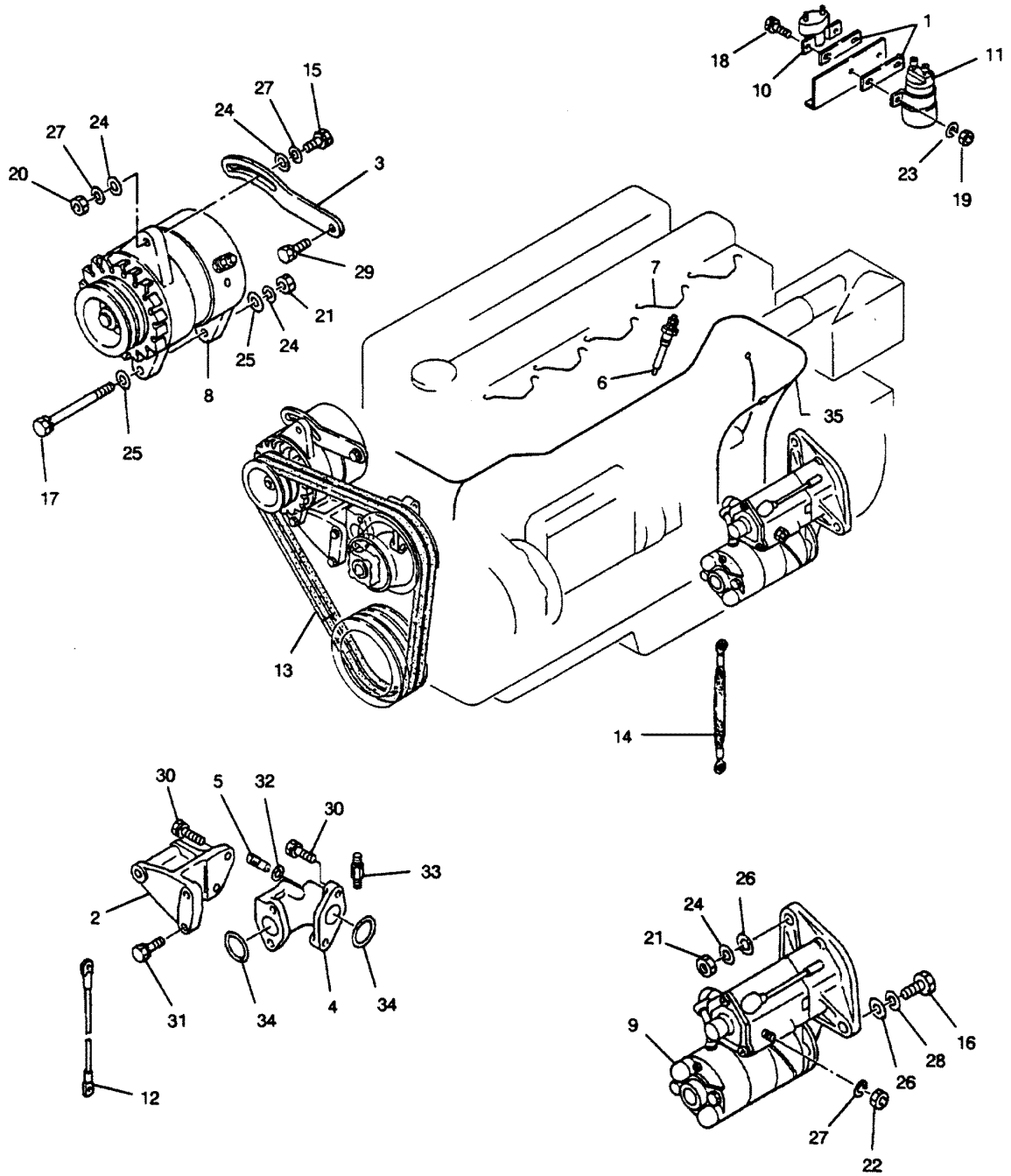
COOLING SYSTEM



COOLING SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	832811340		1	HANGER, ENGINE
2	832661090		1	NUT, GEAR
3	831002531		1	PUMP, COOLANT - CIRCULATING (FOR INDIVIDUAL COMPONENTS SEE SEPERATE SECTION)
4	831003010		1	PUMP, RAW WATER
NS	831311510		1	IMPELLER, RAW WATER PUMP
	831191410		1	GASKET, IMPELLER COVER
5	831732530		1	PULLEY, COOLANT PUMP
6	832681900		1	PIPE, COOLANT BY-PASS
7	832812360		1	PIPE, AIR ESCAPE
8	833011162		1	CASE, THERMOSTAT
9	833251280		1	GASKET, THERMOSTAT
10	833331621		1	MANIFOLD, COOLANT
11	833511110		1	GEAR, DRIVE
12	833211020		1	JOINT, WATER
13	830124303		1	BOLT, BANJO
14	830146177		1	THERMOSTAT
15	830236195		1	HOSE, CRANKCASE VENT
16	832912187		2	BOLT, BANJO
17	838108200		5	BOLT, CIRCULATING PUMP
18	838108850		4	BOLT, HOUSING
19	838108950		2	BOLT, CIRCULATING PUMP
20	839108201		4	BOLT, PULLEY
21	839108252		2	BOLT, MANIFOLD
22	839108851		1	BOLT, MANIFOLD
23	830110250		2	BOLT, RAW WATER PUMP
24	830110700		1	BOLT, HOUSING
25	831110801		2	BOLT, HOUSING
26	835420150		2	WASHER, SEALING
27	835912111		4	WASHER, SEALING
28	836926107		1	CLAMP
29	835131112		2	O-RING
30	835160104		1	O-RING
31	835526117		1	JOINT

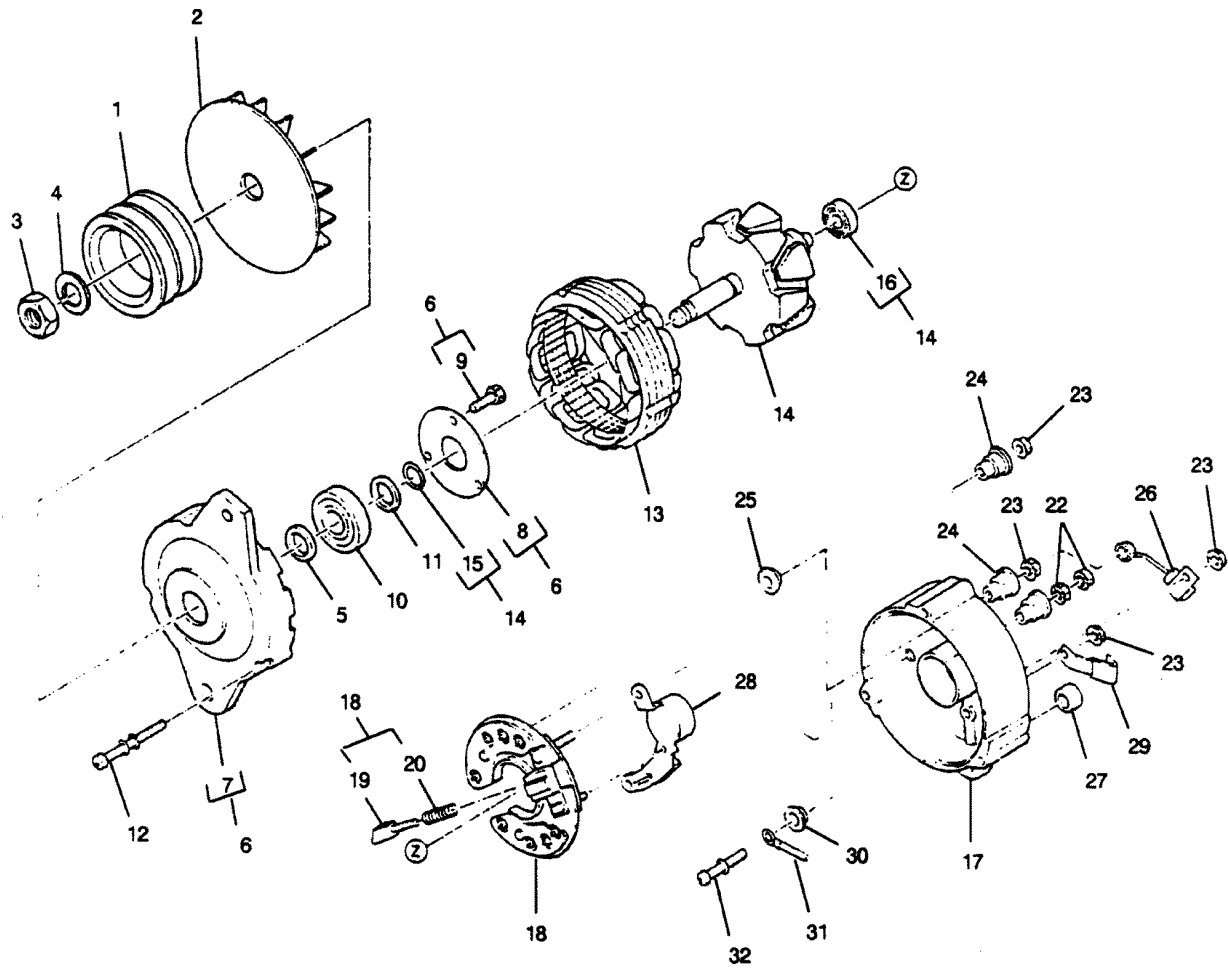
ELECTRICAL PARTS



ELECTRICAL PARTS

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834551130		2	PLATE, MOUNTING
2	835112400		1	BRACKET, ALTERNATOR
3	835122051		1	BRACE, ALTERNATOR
4	830231190		1	PIPE, COOLANT
5	831811170		1	VALVE, COOLANT
6	831101160		6	GLOW PLUG
7	831121151		5	WIRE, GLOW PLUG GROUND
8	830401261		1	ALTERNATOR ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
9	831001960		1	STARTER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
10	834101220		1	RELAY, STARTER
11	836201250		1	RELAY, GLOW PLUG
12	830642530		1	WIRE
13	830149235		1	BELT SET, ALTERNATOR
14	830803108		1	STRAP, GROUND
15	834999991		1	BOLT, ALTERNATOR ADJUST
16	831114450		1	BOLT, STARTER
17	831164401		1	BOLT, ALTERNATOR PIVOT
18	839106302		2	BOLT, RELAY
19	830106050		2	NUT, RELAY
20	830110080		1	NUT, ALTERNATOR
21	830114110		2	NUT, STARTER
22	830910141		1	NUT, TERMINAL
23	836006140		2	WASHER, FLAT
24	836010330		2	WASHER, FLAT
25	836014300		2	WASHER, FLAT
26	836014270		2	WASHER, FLAT
27	FI4290003		2	WASHER, LOCK
28	838014350		3	WASHER, LOCK
29	830110250		1	BOLT, BRACE
30	830110300		4	BOLT, BRACKET
31	831110901		2	BOLT, BRACKET
32	835113103		1	WASHER, SEALING
33	832715200		1	CONNECTOR, COOLING LINE
34	835144112		2	O-RING
35	F729456		AR	HARNESS, ENGINE WIRING - STBD
	F729455		AR	HARNESS, ENGINE WIRING - PORT

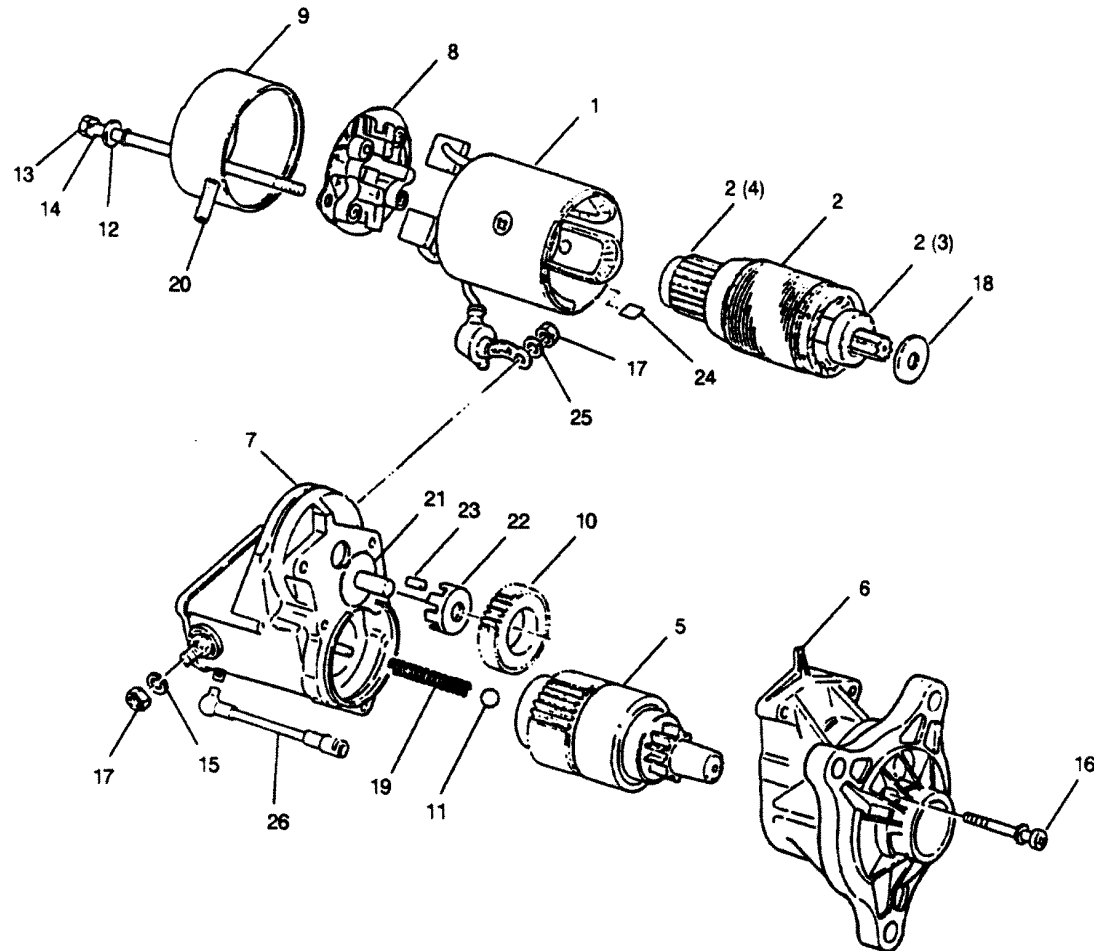
ALTERNATOR (P/N 270401261)



ALTERNATOR (P/N 270401261)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834311380		1	PULLEY, DRIVE
2	834411170		1	FAN, ALTERNATOR
3	831016080		1	NUT, PULLEY
4	839016480		1	WASHER, LOCK
5	834121140		1	COLLAR, SPACER
6	833101510		1	FRAME ASSEMBLY, END
7	833111450		1	FRAME, END
8	833121520		1	PLATE, RETAINER
9	833621090		3	BOLT, THROUGH
10	838120122		1	BEARING, BALL
11	834121150		1	COLLAR, SPACER
12	833171440		3	BOLT, THROUGH
13	834101600		1	STATOR ASSEMBLY
14	833301530		1	ROTOR ASSEMBLY
15	833331030		1	RING, SPACER
16	838112102		1	BEARING, ROTOR
17	833591810		1	FRAME, RECTIFIER
18	833561220		1	HOLDER & RECTIFIER
19	833711050		2	BRUSH
20	833761030		2	HOLDER, BRUSH
21	833871150		1	INSULATOR, TERMINAL
22	830106050		2	NUT, TERMINAL
23	830105040		4	NUT
24	833871160		2	INSULATOR, TERMINAL
25	833871170		1	INSULATOR, TERMINAL
26	833551180		1	CONDENSER
27	833511020		1	BUSHING, FRAME
28	837001520		1	REGULATOR ASSEMBLY
29	834451190		1	CLAMP
30	833781600		1	INSULATOR, TERMINAL
31	833651080		1	WIRE, LEAD
32	833641450		1	BOLT, TERMINAL

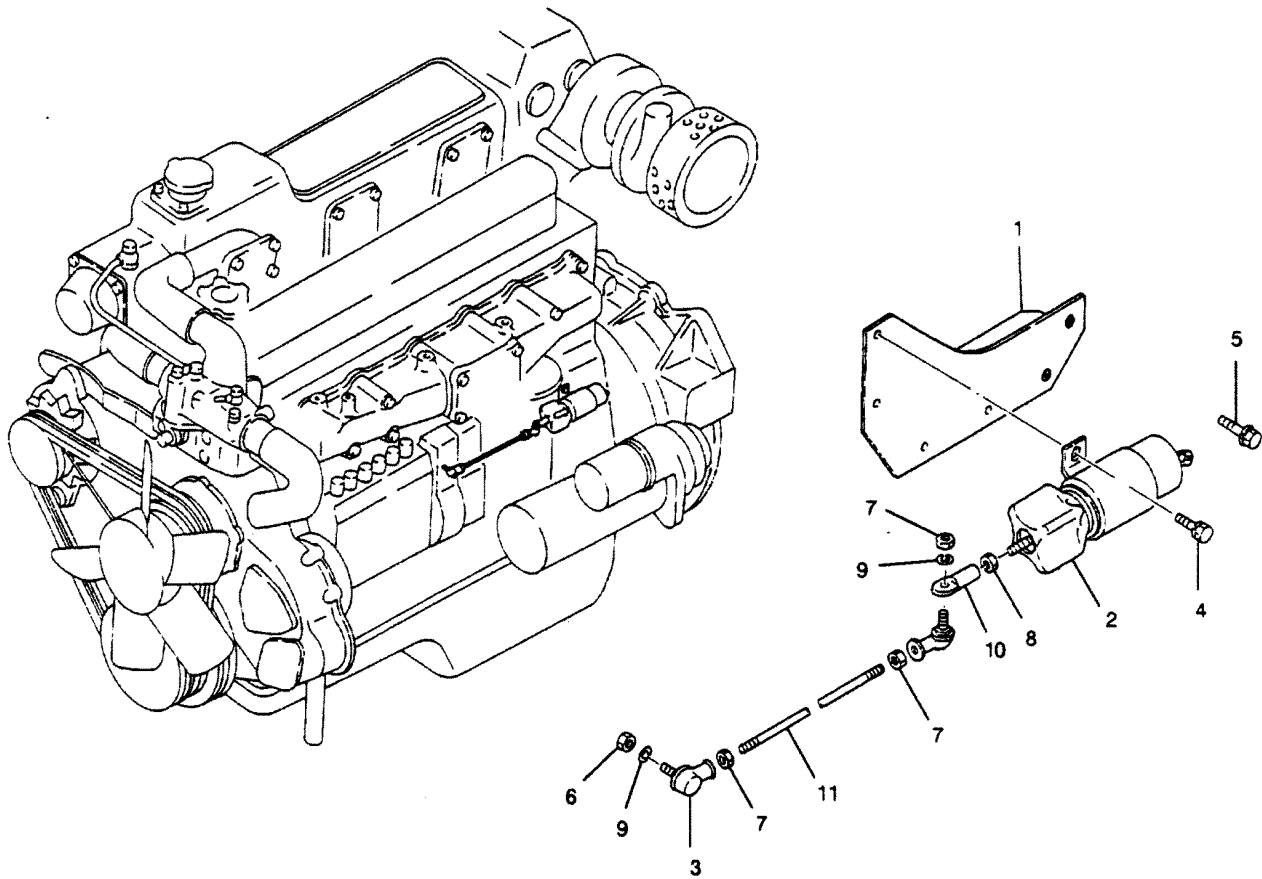
STARTER (P/N 281001960)



STARTER (P/N 281001960)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831201310		1	YOKE ASSEMBLY
2	831601380		1	ARMATURE ASSEMBLY
3	832521190		1	BEARING
4	832521200		1	BEARING
5	830111260		1	CLUTCH ASSEMBLY
6	831151530		1	HOUSING, DRIVE
7	831501780		1	SWITCH ASSEMBLY, MAGNETIC
8	831401220		1	HOLDER, BRUSH
9	831301320		1	FRAME
10	832501040		1	PINION GEAR
11	832621090		1	HOLDER
12	832191100		2	WASHER
13	831121590		2	BOLT, HOUSING
14	832191110		2	WASHER
15	832191120		1	WASHER
16	831122100		3	BOLT, HOUSING
17	831010060		2	NUT, TERMINAL
18	831371080		1	FELT, OIL
19	832361030		1	SPRING, SWITCH
20	831541090		1	BOOT, SWITCH
21	831681280		1	RING, RETAINING
22	831681290		1	RING, RETAINING
23	832261020		5	ROLLER, CLUTCH
24	832661280		1	PLATE
25	832191130		1	WASHER
26	831711040		1	LEADWIRE

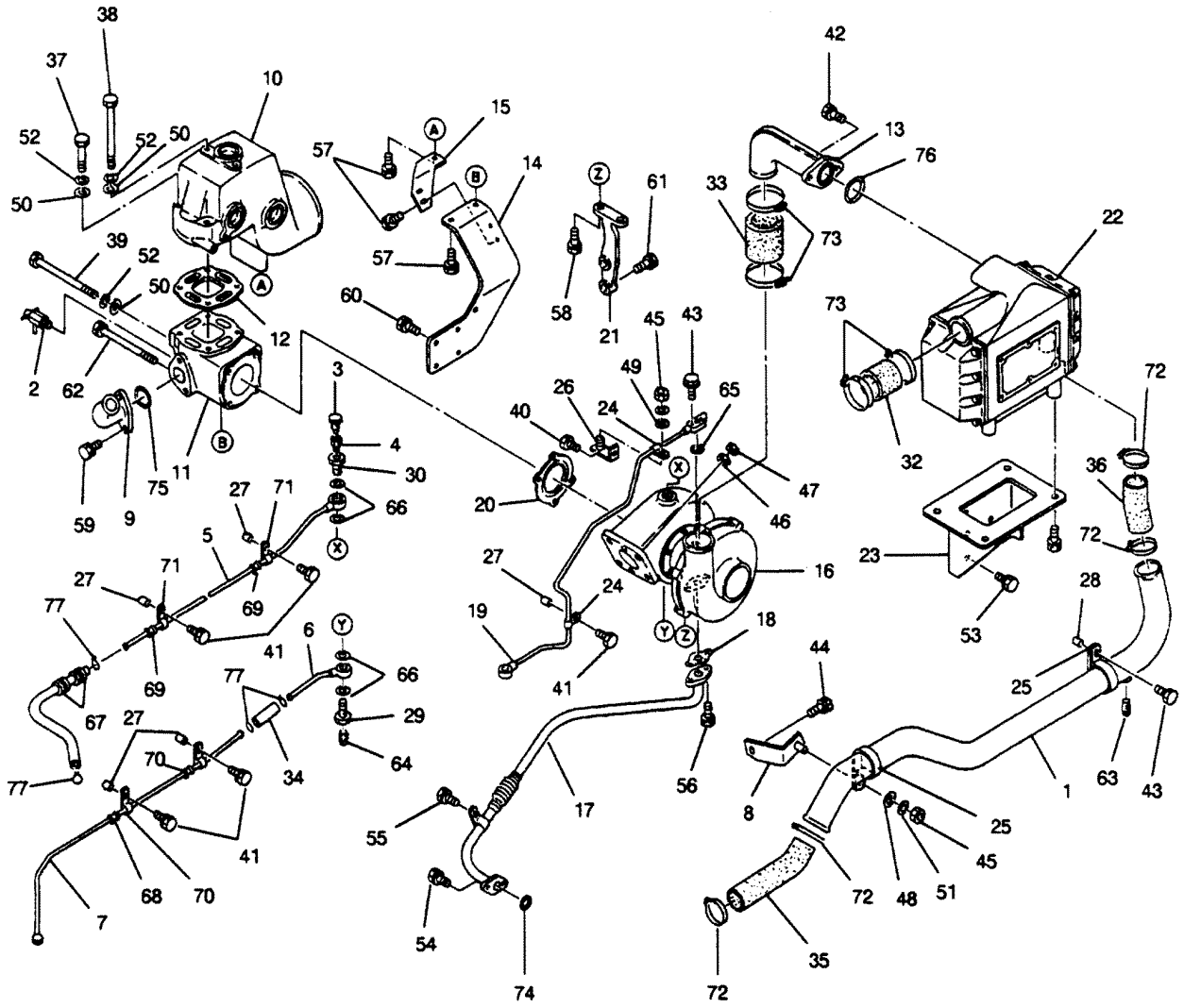
STOP SOLENOID



STOP SOLENOID

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836011290		1	BRACKET, SOLENOID
2	836801170		1	SOLENOID ASSEMBLY
3	832501020		1	JOINT, ROD END
4	839106202		2	BOLT, SOLENOID
5	839108251		2	BOLT
6	830006050		1	NUT, ROD END
7	830106050		3	NUT, ROD END
8	830906125		1	NUT, ROD LOCK
9	838006150		2	WASHER, LOCK
10	835906118		1	CLEVIS
11	836030360		1	ROD

TURBOCHARGER SYSTEM

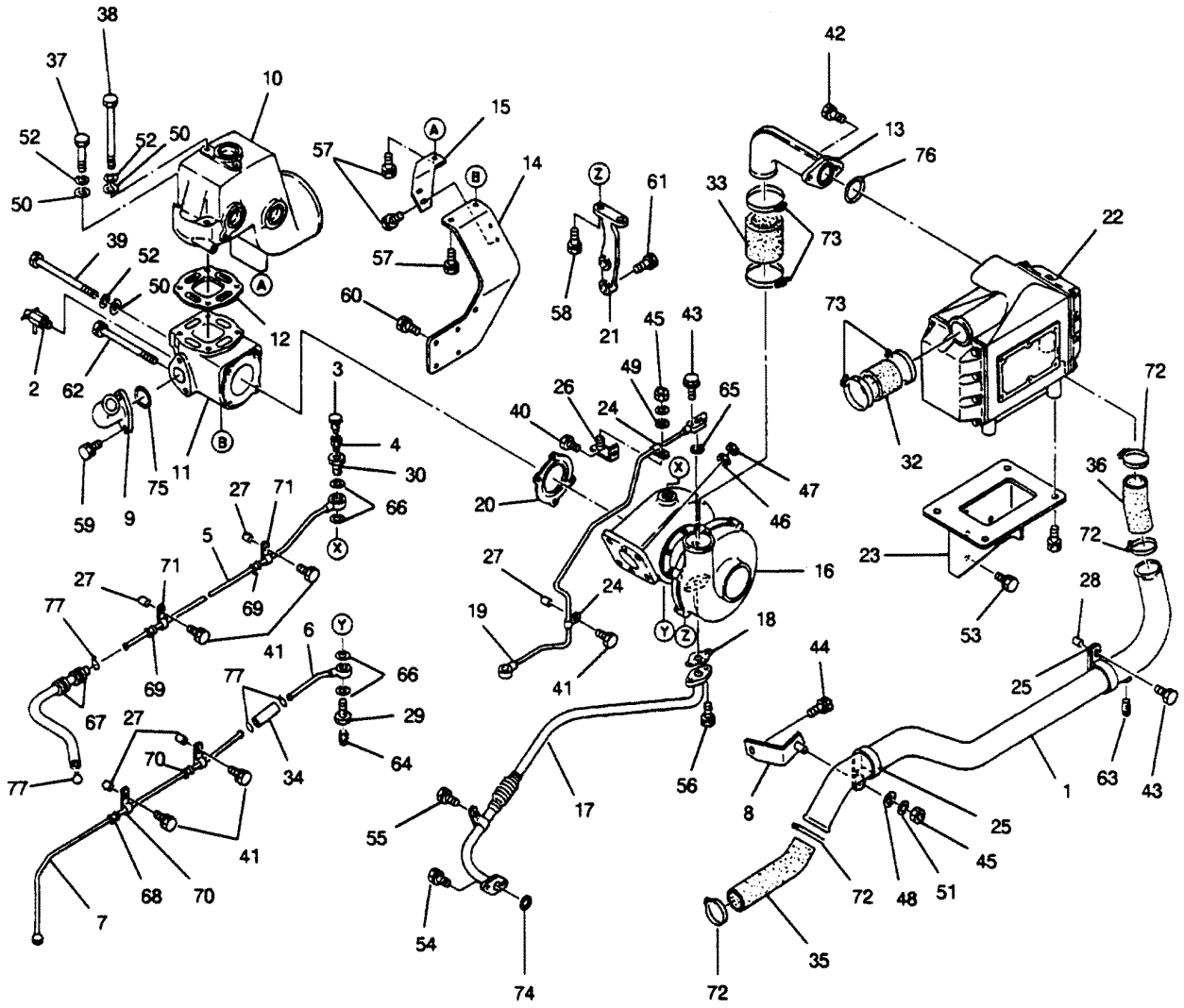


TURBOCHARGER SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	830231201		1	PIPE, RAW WATER
2	830511100		1	PETCOCK, WATER DRAIN
3	831851110		1	VENT SCREW, TURBO
4	831881020		1	SEAT, VENT SCREW
5	832682010		1	PIPE, COOLANT
6	832682020		1	PIPE, COOLANT
7	832682030		1	PIPE, COOLANT
8	832691140		1	BRACKET, PIPE
9	836911660		1	PIPE, COOLANT
10	830211111		1	RISER, EXHAUST
11	830211160		1	PIPE, EXHAUST
12	F734180		1	GASKET, RISER
13	831134130		1	PIPE, INTAKE
14	831521660		1	BRACKET, EXHAUST MANIFOLD
15	831521670		1	BRACKET, EXHAUST MANIFOLD
16	831002240		1	TURBOCHARGER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
17	831071450		1	PIPE, OIL
18	831351070		1	GASKET, OIL PIPE
19	831711901		1	PIPE, OIL INLET
20	831791090		1	GASKET, TURBO
21	831911040		1	BRACKET, TURBO
22	833001280		1	INTERCOOLER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
23	833021101		1	BRACKET, INTERCOOLER
24	839041380		2	CLIP
25	839042660		2	CLIP
26	839934720		1	HOLDER, CLIP
27	830116107		5	SPACER
28	830116221		1	SPACER
29	830124317		1	BOLT, BANJO
30	830124295		1	BOLT, BANJO
31	830154148		1	HOSE, COOLANT
32	830233363		1	HOSE, AIR
33	830233438		1	HOSE, AIR
34	830234114		1	HOSE, COOLANT
35	830234371		1	HOSE, RAW WATER
36	830234434		1	HOSE, RAW WATER
37	832910187		2	BOLT, RISER
38	832910195		2	BOLT, RISER
39	832910229		2	BOLT, PIPE
40	838108160		1	BOLT, BRACKET
41	838108200		5	BOLT
42	839108251		2	BOLT, PIPE

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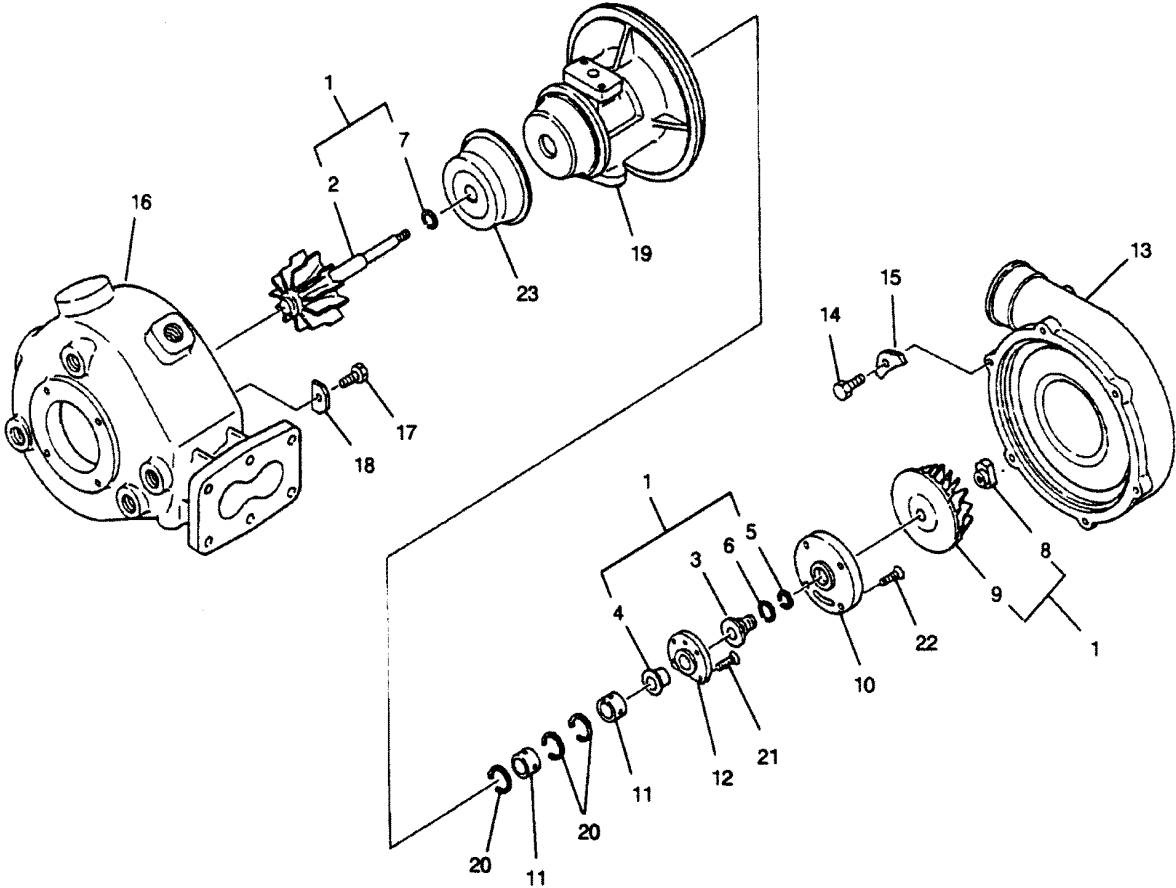
TURBOCHARGER SYSTEM



TURBOCHARGER SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
43	839108302		3	BOLT
44	839110301		1	BOLT
45	830108070		3	NUT
46	830910141		6	NUT, TURBO
47	830910142		6	NUT, JAM - TURBO
48	836008140		2	WASHER, FLAT
49	836008200		1	WASHER, FLAT
50	836010220		6	WASHER, FLAT
51	838008200		2	WASHER, LOCK
52	FI4290003		6	WASHER, LOCK
53	830114300		1	BOLT, BRACKET
54	831010250		2	BOLT, OIL TUBE
55	831110201		1	BOLT
56	831110251		2	BOLT, OIL TUBE
57	831110252		6	BOLT
58	831110301		6	BOLT
59	831110301		2	BOLT
60	831114301		1	BOLT
61	831114401		2	BOLT
62	831910127		2	BOLT, PIPE
63	832217120		1	PLUG, PIPE
64	832917104		1	PLUG, BANJO BOLT
65	835113103		1	O-RING
66	835422150		4	WASHER, SEALING
67	837225161		2	GROMMET
68	837915105		2	GROMMET
69	837916106		2	GROMMET
70	836920111		2	CLAMP
71	836922103		2	CLAMP
72	836945101		4	CLAMP
73	836970103		4	CLAMP
74	835131103		1	O-RING
75	835135102		1	O-RING
76	835160102		1	O-RING
77	835424102		4	CLAMP, HOSE

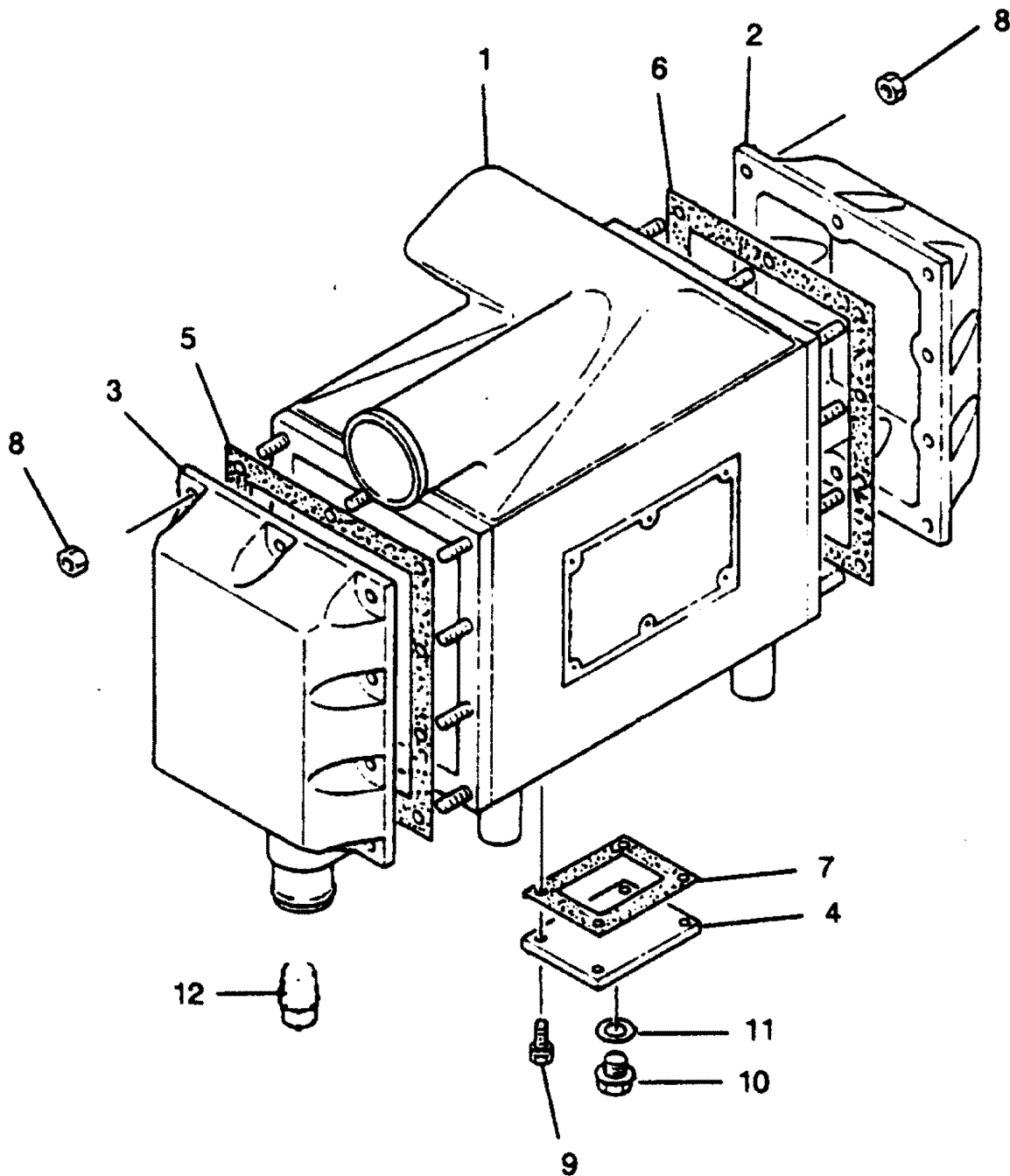
TURBOCHARGER (P/N 241002240)



TURBOCHARGER (P/N 241002240)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831501310		1	ROTOR ASSEMBLY
2	831151330		1	ROTOR, TURBINE
3	831161040		1	THROWER, OIL
4	831421070		1	SPACER, THRUST
5	831241190		1	SEAL, RING
6	831241180		1	SEAL, RING
7	831241170		1	SEAL, RING
8	831171140		1	NUT, LOCK
9	831181111		1	IMPELLER, BLOWER
10	831271130		1	PLATE, BACKING
11	831311110		2	BEARING
12	831431060		1	BEARING, INBOARD THRUST
13	831141140		1	CASE, BLOWER
14	831451280		6	BOLT, HOUSING
15	831231260		6	PLATE, RETAINER
16	831111430		1	CASE, TURBINE
17	831451190		6	BOLT
18	831231270		6	PLATE
19	831211250		1	CASE, BEARING
20	831321080		3	RING, NOZZLE
21	831361120		4	SCREW
22	831361170		4	SCREW
23	831411150		1	PROTECTOR, HEAT

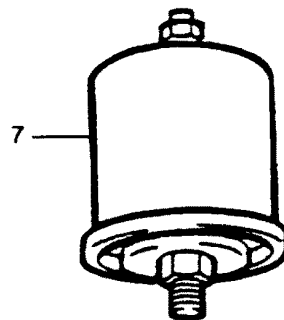
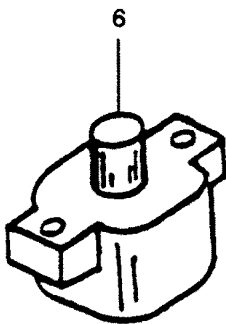
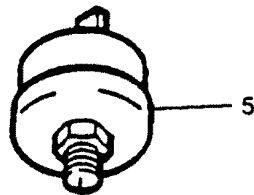
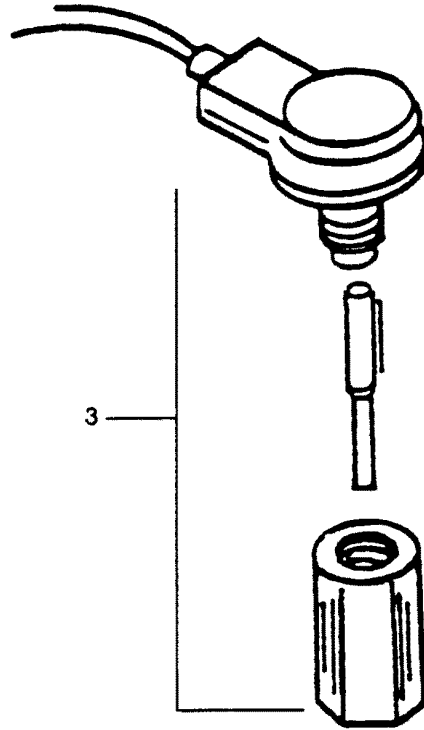
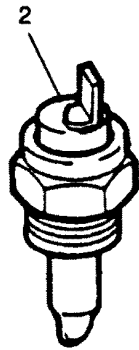
INTERCOOLER (P/N 243001280)



INTERCOOLER (P/N 243001280)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833041051		1	CORE ASSEMBLY
2	833051040		1	TANK ASSEMBLY
3	833151080		1	TANK ASSEMBLY
4	833171020		1	PLATE
5	833141040		1	GASKET, TANK
6	833141150		1	GASKET, TANK
7	833141050		1	GASKET, PLATE
8	830908121		20	NUT, TANK
9	838106200		4	BOLT, PLATE
10	834999994		1	PLUG, DRAIN
11	835908104		1	WASHER, SEALING
12	832917104		1	PLUG

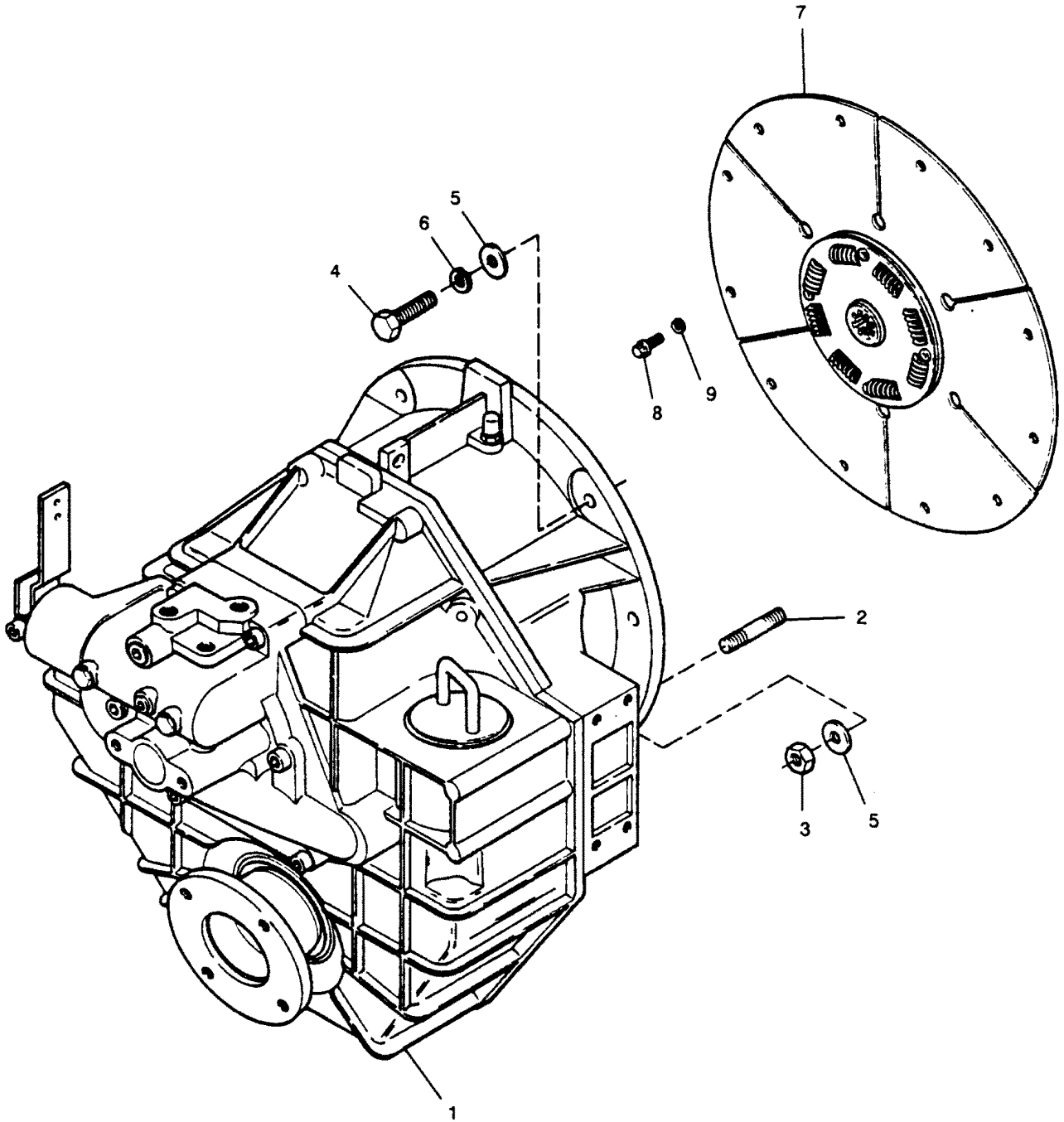
WIRING HARNESS & SWITCHES



WIRING HARNESS & SWITCHES

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F700690		1	SENDER, COOLANT TEMP.
2	F700935		1	SWITCH, COOLANT TEMP. ALARM
3	F733458		1	SENDER, TACHOMETER
4	F708940		1	SWITCH, OIL PRESSURE ALARM
5	F708433		1	CIRCUIT INTERRUPTOR
6	F639460		1	CIRCUIT BREAKER
7	F708432		1	SENDER, OIL PRESSURE
NS	F729456		1	HARNESS, WIRING - STBD
	F729455		1	HARNESS, WIRING - PORT
	F733521		1	BRACKET, CIRCUIT BREAKER
	F733936		1	BOOT, INSULATING - STARTER

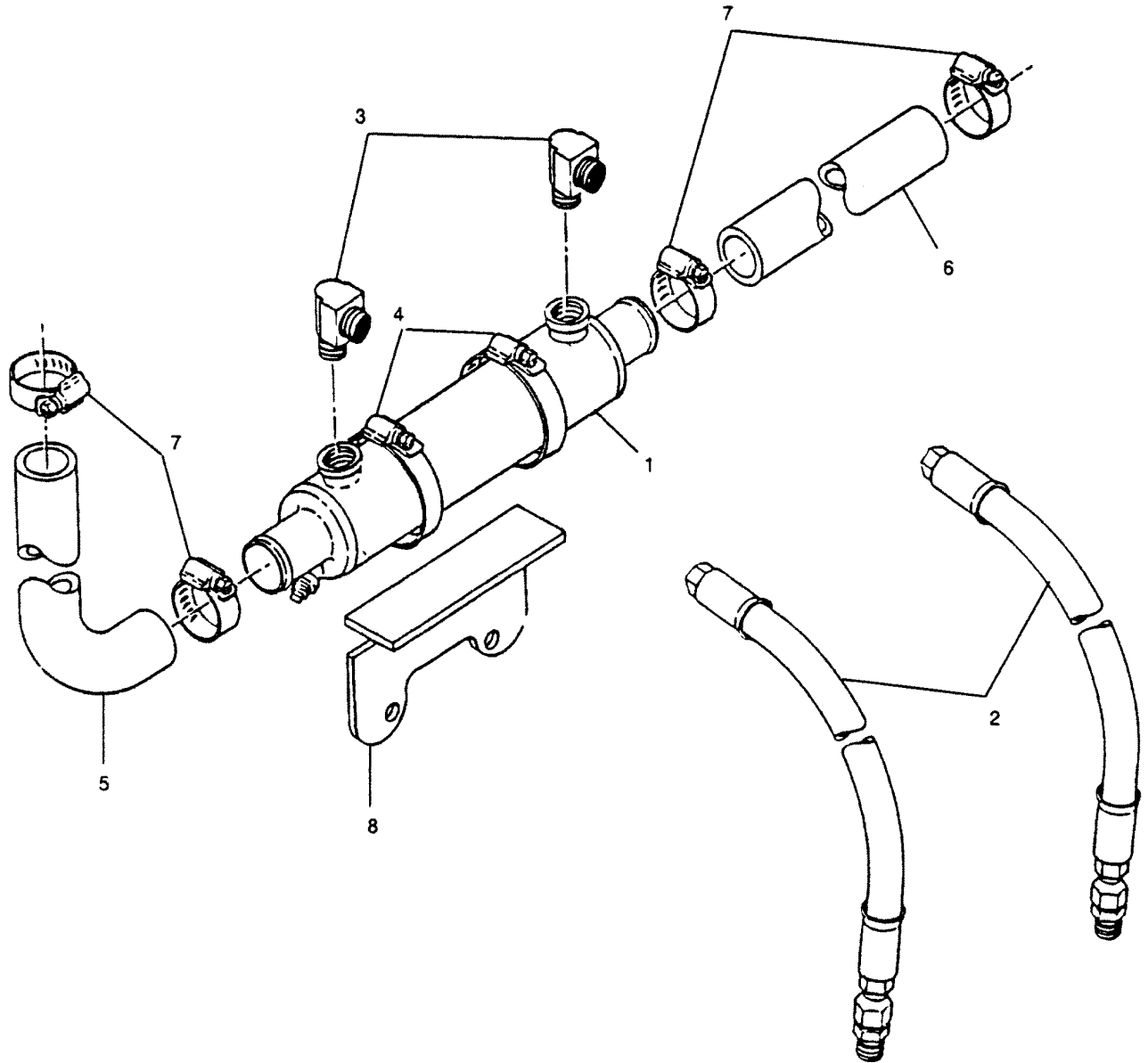
TRANSMISSION



TRANSMISSION

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F708028		1	TRANSMISSION, HURTH 2.0:1
2	F733155		2	STUD
3	F7066		2	NUT, STUD
4	F2319		4	SCREW
5	12-F8165		6	WASHER, FLAT
6	F8153		4	WASHER, LOCK
7	F729935		1	DAMPER PLATE
NS	F708535		1	BRACKET SHIFTER
	F708821		1	KIT, CABLE END
8	832910241		6	BOLT, DAMPER PLATE
9	FI4290003		6	WASHER, LOCK

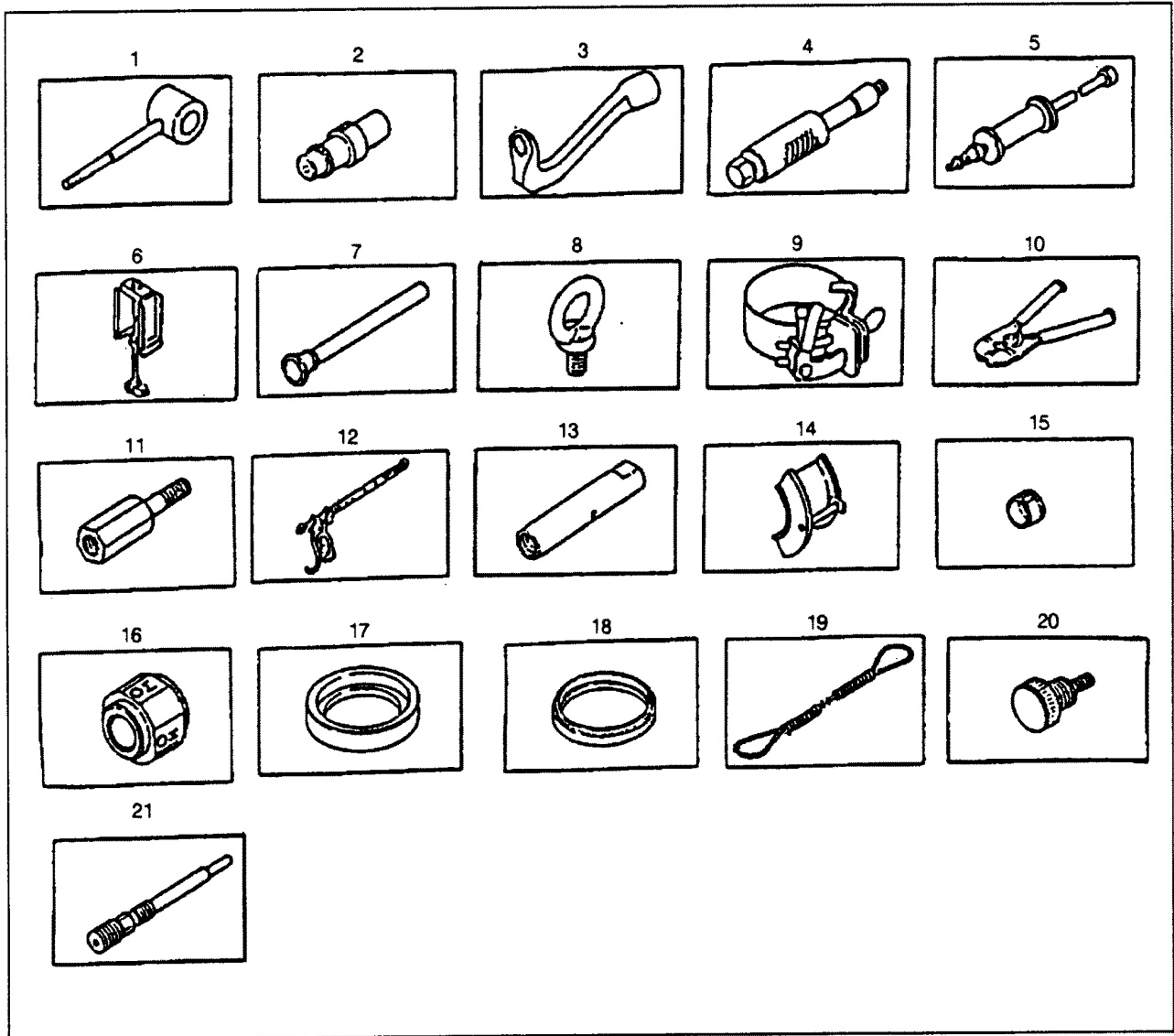
TRANSMISSION COOLER



TRANSMISSION COOLER

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F728935		1	COOLER
2	F728770		2	HOSE, OIL
3	F700580		2	ELBOW, BRASS
4	F708307		2	CLAMP, COOLER
5	F728231		1	HOSE, WATER - 1-1/2 X 10,
6	F728232		1	HOSE, WATER - 1-1/2 X 12,
7	F700554		4	CLAMP, HOSE
8	F733520		1	BRACKET, OIL COOLER

SPECIAL TOOLS



SPECIAL TOOLS

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834021450		1	PRESS, CONN. ROD BUSHING
2	834021460		1	PRESS, CONN. ROD BUSHING
3	834111260		1	WRENCH, CYLINDER HEAD
4	834201100		1	PULLER, IDLER GEAR
5	094201442		1	PULLER, SLIDE HAMMER
6	834201460		1	PULLER, CYLINDER LINER
7	834311010		1	TOOL, VALVE LAPPING
8	834331070		1	BOLT, LIFTING - CYLINDER HEAD
9	834411260		1	COMPRESSOR, PISTON RING
10	834421180		1	EXPANDER, PISTON RING
11	834621130		1	ADAPTER, NOZZLE
12	834701022		1	COMPRESSOR, VALVE SPRING
13	834721650		1	BAR, VALVE SEAL INSTALLATION
14	834801120		1	GUIDE, CYLINDER LINER
15	834811120		1	GUIDE, CONN. ROD BUSHING
16	834811130		1	GUIDE, CONN. ROD BUSHING
17	834821530		1	PRESS, CRANK OIL SEAL - FRONT
18	834821540		1	PRESS, CRANK OIL SEAL - REAR
19	834911010		1	ROPE, WIRE - LIFTING
20	835122100		1	TOOL, INJ. PUMP TIMING
21	835521051		1	ADAPTER, COMPRESSION GAGE

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
094201442	PULLER, SLIDE HAMMER . . .	69	5	830231201	PIPE, RAW WATER	55	1
226119999	FLANGE, COUPLING	33	8	830233363	HOSE, AIR	55	32
830004030	NUT, TERMINAL	31	15	830233438	HOSE, AIR	55	33
830005080	BALL, STEEL	17	22	830234114	HOSE, COOLANT	55	34
830006050	NUT, ROD END	53	6	830234133	HOSE, WATER	21	26
830062070	BEARING	11	33	830234364	HOSE, WATER	21	27
830105040	NUT	49	23	830234365	HOSE, WATER	21	28
830106050	NUT	25	5	830234366	HOSE, WATER	21	29
830106050	NUT, CLIP	35	56	830234371	HOSE, RAW WATER	55	35
830106050	NUT, RELAY	47	19	830234434	HOSE, RAW WATER	55	36
830106050	NUT, ROD END	53	7	830235130	CONNECTOR	29	10
830106050	NUT, TERMINAL	49	22	830236195	HOSE, CRANKCASE VENT	45	15
830108070	NUT	21	40	830311200	BRACKET, SEPARATOR	33	9
830108070	NUT	57	45	830401261	ALTERNATOR ASSEMBLY	47	8
830108070	NUT, NOZZLE BRACKET	35	57	830405100	PIN	7	31
830108180	STUD	23	44	830406100	PIN, SHAFT	15	12
830110080	NUT, ALTERNATOR	47	20	830408160	PIN	7	30
830110080	NUT, BRACKET	35	58	830408240	PIN	7	29
830110250	BOLT, BRACE	47	29	830410110	PLUG, FILTER BASE	29	22
830110250	BOLT, BRACKET	35	64	830511090	PETCOCK, WATER DRAIN	21	2
830110250	BOLT, RAW WATER PUMP	45	23	830511100	PETCOCK, WATER DRAIN	55	2
830110300	BOLT, BRACKET	47	30	830562139	TUBE	35	43
830110700	BOLT, HOUSING	45	24	830610180	WASHER	21	41
830111145	SHIM	33	40	830642530	WIRE	47	12
830111240	BEARING SET, THRUST (FOR ONE ENGINE)	13	1	830801191	ENGINE ASSY., PARTIAL	3	-
830111260	CLUTCH ASSEMBLY	51	5	830803108	STRAP, GROUND	47	14
830112680	RING SET, PISTON (FOR ONE ENGINE)	13	3	830811790	PIPE, FUEL RETURN	33	10
830114110	NUT, STARTER	47	21	830831150	PIPE, FUEL	33	11
830114300	BOLT, BRACKET	57	53	830873140	PIPE, COOLANT	21	3
830114600	BOLT, MOUNT	11	36	830906125	NUT, ROD LOCK	53	8
830115222	GASKET, END COVER	21	23	830908121	NUT, TANK	61	8
830115237	GASKET	21	24	830908137	NUT	27	6
830116107	SPACER	55	27	830910141	NUT, TERMINAL	47	22
830116107	SPACER, PIPE	21	25	830910141	NUT, TURBO	57	46
830116148	SPACER	13	16	830910142	NUT, JAM - TURBO	57	47
830116199	SPACER	33	41	830912102	PLUG	17	14
830116221	SPACER	55	28	830912103	PIN	7	32
830121231	COVER ASSEMBLY, OIL PUMP	29	1	830912118	BOLT, HANGER	7	28
830124244	BOLT, IDLER GEAR	15	8	830920102	PLUG	27	2
830124295	BOLT, BANJO	55	30	830920102	PLUG	31	8
830124303	BOLT, BANJO	45	13	830927103	NUT, PULLEY	13	18
830124317	BOLT, BANJO	55	29	831001960	STARTER ASSEMBLY	47	9
830126105	LOCK, SPRING RETAINER	19	18	831002240	TURBOCHARGER ASSEMBLY	55	16
830129119	COLLAR	13	17	831002531	PUMP, COOLANT - CIRCULATING	45	3
830129174	COLLAR	19	19	831003010	PUMP, RAW WATER	45	4
830146177	THERMOSTAT	45	14	831010060	NUT, TERMINAL	51	17
830149235	BELT SET, ALTERNATOR	47	13	831010250	BOLT, OIL TUBE	57	54
830154148	HOSE, COOLANT	55	31	831016080	NUT, PULLEY	49	3
830203521	PUMP ASSEMBLY, INJECTION	33	4	831041090	GASKET, EXHAUST	21	10
830210300	BOLT, BRACKET	11	22	831041180	SEAL, SHAFT	43	3
830211111	RISER, EXHAUST	55	10	831041310	GASKET, MANIFOLD	21	11
830211159	FLANGE	7	20	831043840	BRACKET, THROTTLE CONTROL	21	21
830211160	PIPE, EXHAUST	55	11	831071450	PIPE, OIL	55	17
830211235	FLANGE	11	11	831081100	CAP, OIL FILLER	17	10
830231118	HOSE, FUEL	33	42	831091160	SHAFT, IMPELLER	43	2
830231190	PIPE, COOLANT	47	4	831101160	GLOW PLUG	47	6
				831101541	PUMP ASSEMBLY, OIL	29	3

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
831103040	HEAD ASSEMBLY, CYLINDER	17	1	831351320	SEAT, VALVE - EXHAUST ..	17	5
831108750	STUD, NOZZLE HOLD DOWN	17	12	831361120	SCREW	59	21
831110201	BOLT	57	55	831361170	SCREW	59	22
831110251	BOLT, FILTER BASE	35	65	831371080	FELT, OIL	51	18
831110251	BOLT, OIL TUBE	57	56	831372250	RING, RETAINER	11	29
831110252	BOLT	57	57	831401211	MANIFOLD ASSEMBLY, EXHAUST	21	14
831110301	BOLT	57	58	831401220	HOLDER, BRUSH	51	8
831110301	BOLT	57	59	831411150	PROTECTOR, HEAT	59	23
831110351	BOLT, FLYWHEEL HOUSING - REAR	11	24	831412550	GUIDE, OIL LEVEL GAUGE .	7	9
831110401	BOLT, CYLINDER HEAD ...	17	13	831414001	MANIFOLD CASE, EXHAUST	21	15
831110602	BOLT	23	47	831421070	SPACER, THRUST	59	4
831110801	BOLT, HOUSING	45	25	831431060	BEARING, INBOARD THRUST	59	12
831110901	BOLT, BRACKET	47	31	831451190	BOLT	59	17
831111430	CASE, TURBINE	59	16	831451280	BOLT, HOUSING	59	14
831111602	CASE, PUMP	43	1	831471030	SLINGER	43	6
831112890	MANIFOLD, INTAKE	21	12	831501310	ROTOR ASSEMBLY	59	1
831113220	PAN, OIL	7	8	831501780	SWITCH ASSEMBLY, MAGNETIC	51	7
831114301	BOLT	57	60	831521650	BRACKET, EXHAUST MANIFOLD	7	17
831114401	BOLT	57	61	831521660	BRACKET, EXHAUST MANIFOLD	55	14
831114402	BOLT, FLYWHEEL HOUSING	11	23	831521670	BRACKET, EXHAUST MANIFOLD	55	15
831114450	BOLT, STARTER	47	16	831541090	BOOT, SWITCH	51	20
831121151	WIRE, GLOW PLUG GROUND	47	7	831601380	ARMATURE ASSEMBLY ...	51	2
831121590	BOLT, HOUSING	51	13	831681280	RING, RETAINING	51	21
831122100	BOLT, HOUSING	51	16	831681290	RING, RETAINING	51	22
831131620	PIPE, COOLANT	21	4	831691150	PLATE, COVER	21	16
831134120	PIPE, INTAKE	21	13	831711040	LEADWIRE	51	26
831134130	PIPE, INTAKE	55	13	831711070	CENTER, PULLEY	43	5
831141050	GUIDE, O-RING	29	4	831711901	PIPE, OIL INLET	55	19
831141140	CASE, BLOWER	59	13	831732530	PULLEY, COOLANT PUMP .	45	5
831151330	ROTOR, TURBINE	59	2	831791090	GASKET, TURBO	55	20
831151530	HOUSING, DRIVE	51	6	831811170	VALVE, COOLANT	47	5
831151851	GASKET, CYLINDER HEAD .	17	2	831851110	VENT SCREW, TURBO	55	3
831161040	THROWER, OIL	59	3	831851440	BOLT, CYLINDER HEAD ...	17	6
831164401	BOLT, ALTERNATOR PIVOT	47	17	831851450	BOLT, CYLINDER HEAD ...	17	7
831171100	BUSHING, OIL PUMP	7	13	831881020	SEAT, VENT SCREW	55	4
831171140	NUT, LOCK	59	8	831906106	STUD	23	45
831181111	IMPELLER, BLOWER	59	9	831908113	NUT, ADJUST SCREW	19	21
831191121	GASKET, COVER	29	5	831910111	BOLT	23	48
831191410	GASKET, IMPELLER COVER	45	NS	831910127	BOLT, PIPE	57	62
831201310	YOKE ASSEMBLY	51	1	831911040	BRACKET, TURBO	55	21
831211250	CASE, BEARING	59	19	831913101	BOLT, BANJO - SEPARATOR	35	45
831221140	BUSHING, VALVE GUIDE REPAIR	17	3	831914184	BOLT, BANJO - FILTER	35	44
831231260	PLATE, RETAINER	59	15	831914237	BOLT, CONNECTOR	29	11
831231270	PLATE	59	18	831918169	BOLT, BANJO	7	21
831241170	SEAL, RING	59	7	831922102	PLUG, TIMING PORT	35	66
831241180	SEAL, RING	59	6	831937102	RING, PISTON PIN RETAINING	13	20
831241190	SEAL, RING	59	5	832011570	BEARING SET, CONROD (FOR ONE ENGINE)	13	4
831271130	PLATE, BACKING	59	10	832031040	HANGER, ENGINE	7	10
831301320	FRAME	51	9	832112340	COVER, CYLINDER HEAD ..	17	8
831311110	BEARING	59	11	832131560	GASKET, CYLINDER HEAD COVER	17	9
831311210	SEAT, VALVE - INTAKE	17	4	832161781	PISTON	13	5
831311340	IMPELLER	43	4				
831311510	IMPELLER, RAW WATER PUMP	45	NS				
831321080	RING, NOZZLE	59	20				
831351070	GASKET, OIL PIPE	55	18				

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
832191100	WASHER	51	12	833111450	FRAME, END	49	7
832191110	WASHER	51	14	833121101	GASKET, PLATE	11	2
832191120	WASHER	51	15	833121520	PLATE, RETAINER	49	8
832191130	WASHER	51	25	833141040	GASKET, TANK	61	5
832210080	PLUG	11	25	833141050	GASKET, PLATE	61	7
832217120	PLUG, PIPE	57	63	833141150	GASKET, TANK	61	6
832261020	ROLLER, CLUTCH	51	23	833151080	TANK ASSEMBLY	61	3
832361030	SPRING, SWITCH	51	19	833161030	PLUG, VENT	41	3
832501020	JOINT, ROD END	53	3	833161210	PLUG, VENT	37	2
832501040	PINION GEAR	51	10	833171020	PLATE	61	4
832511300	PIN, PISTON	13	6	833171440	BOLT, THROUGH	49	12
832521190	BEARING	51	3	833211020	JOINT, WATER	45	12
832521200	BEARING	51	4	833211020	JOINT, WATER HOSE	11	10
832601460	ROD ASSEMBLY, CONNECTING	13	7	833221030	PLUG, DRAIN	41	8
832621090	HOLDER	51	11	833223080	COVER, TIMING GEAR	11	3
832651250	COVER, END - EXHAUST MANIFOLD	21	1	833251280	GASKET, THERMOSTAT	45	9
832651371	BOLT, CONROD	13	8	833301530	ROTOR ASSEMBLY	49	14
832661090	NUT, GEAR	45	2	833307200	KEY, CAMSHAFT GEAR	15	13
832661280	PLATE	51	24	833331030	RING, SPACER	49	15
832681900	PIPE, COOLANT BY-PASS	45	6	833331621	MANIFOLD, COOLANT	45	10
832682010	PIPE, COOLANT	55	5	833433770	BRACKET, PUMP	33	6
832682020	PIPE, COOLANT	55	6	833511020	BUSHING, FRAME	49	27
832682030	PIPE, COOLANT	55	7	833511110	GEAR, DRIVE	45	11
832691140	BRACKET, PIPE	55	8	833513380	HOUSING, FLYWHEEL - FRONT	11	4
832715200	CONNECTOR, COOLING LINE	47	33	833514410	HOUSING, FLYWHEEL - REAR	11	5
832721290	BUSHING, CONROD REPAIR	13	9	833551180	CONDENSER	49	26
832800109	SEAL, OIL	11	30	833561220	HOLDER & RECTIFIER	49	18
832811340	HANGER, ENGINE	45	1	833591810	FRAME, RECTIFIER	49	17
832812360	PIPE, AIR ESCAPE	45	7	833601010	BASE ASSEMBLY, SEPARATOR	41	1
832858104	SEAL, OIL	11	31	833611011	BASE, SEPARATOR	41	2
832910115	PLUG, CONNECTOR	29	23	833611250	COVER, TIMING WINDOW	11	6
832910187	BOLT, RISER	55	37	833621020	RING, RETAINING	41	9
832910189	BOLT, BANJO	21	30	833621090	BOLT, THROUGH	49	9
832910195	BOLT, RISER	55	38	833641010	GASKET, PLUG	41	4
832910229	BOLT, EXHAUST MANIFOLD	21	31	833641040	GASKET, PLUG	37	3
832910229	BOLT, PIPE	55	39	833641450	BOLT, TERMINAL	49	32
832910234	BOLT, BANJO	35	46	833651080	WIRE, LEAD	49	31
832910241	BOLT, DAMPER PLATE	65	8	833701010	BODY ASSEMBLY, SEPARATOR	41	5
832910245	BOLT, BANJO	35	47	833711010	BODY, SEPARATOR	41	6
832912187	BOLT, BANJO	45	16	833711050	BRUSH	49	19
832917104	PLUG	61	12	833721010	FLOAT, INDICATOR	41	11
832917104	PLUG, BANJO BOLT	57	64	833761030	HOLDER, BRUSH	49	20
832917111	PLUG, OIL REMOVAL HOSE	7	34	833781600	INSULATOR, TERMINAL	49	30
833001280	INTERCOOLER ASSEMBLY	55	22	833871150	INSULATOR, TERMINAL	49	21
833002010	BASE ASSEMBLY, FILTER	33	12	833871160	INSULATOR, TERMINAL	49	24
833008450	BOLT	25	3	833871170	INSULATOR, TERMINAL	49	25
833011162	CASE, THERMOSTAT	45	8	833910111	KEY, PULLEY	13	19
833011341	BRACKET, ENGINE MOUNT	11	7	833914101	PLUG, BLOCK	9	39
833012160	PLUG, EXPANSION	19	24	833914101	PLUG, EXPANSION	17	15
833014760	GAGE, OIL LEVEL	7	14	833917101	PLUG, BLOCK	9	38
833021101	BRACKET, INTERCOOLER	55	23	833922105	PLUG, COVER	11	26
833041051	CORE ASSEMBLY	61	1	833922107	PLUG, EXPANSION	17	16
833051040	TANK ASSEMBLY	61	2	833924103	PLUG, BLOCK	7	37
833101510	FRAME ASSEMBLY, END	49	6	833924103	PLUG, EXPANSION	17	17
833101520	BASE ASSEMBLY, FILTER	37	1	833926102	PLUG, EXPANSION	17	18
833111300	BASE, FILTER	37	5	833930105	PLUG, EXPANSION	17	19
833111330	PLATE, TIMING GEAR	11	1				

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
833932102	PLUG, COVER	11	27	834821530	PRESS, CRANK OIL SEAL - FRONT	69	17
833936102	PLUG, BLOCK	7	36	834821540	PRESS, CRANK OIL SEAL - REAR	69	18
833950103	PLUG, BLOCK	7	35	834911010	ROPE, WIRE - LIFTING	69	19
833950103	PLUG, EXPANSION	17	20	834921120	HOLDER, CLIP	7	16
834004690	SHORT BLOCK ASSY	5	-	834999983	CASE, BEARING	11	9
834011290	CAP, PRESSURE	21	5	834999987	PLUG	7	33
834011341	FILTER, FUEL - SPIN-ON	37	4	834999991	BOLT, ALTERNATOR ADJUST	47	15
834011520	PICK-UP ASSEMBLY, OIL PUMP	29	6	834999992	GEAR ASSEMBLY, OIL PUMP	29	2
834021450	PRESS, CONN. ROD BUSHING	69	1	834999994	PLUG, DRAIN	61	10
834021460	PRESS, CONN. ROD BUSHING	69	2	835011020	COVER, TIMER	33	7
834051080	ELEMENT, HEAT EXCHANGER	21	6	835011052	CAMSHAFT	15	1
834081260	PULLEY, CRANKSHAFT	13	10	835051280	GEAR ASSEMBLY, IDLER	15	2
834101220	RELAY, STARTER	47	10	835101125	O-RING, COVER	35	71
834101600	STATOR ASSEMBLY	49	13	835108101	O-RING	31	18
834105020	BLOCK ASSEMBLY, CYLINDER	7	1	835109103	O-RING	41	7
834111260	WRENCH, CYLINDER HEAD	69	3	835110111	O-RING	31	9
834111751	CRANKSHAFT	13	11	835112116	O-RING	31	11
834121140	COLLAR, SPACER	49	5	835112400	BRACKET, ALTERNATOR	47	2
834121150	COLLAR, SPACER	49	11	835113103	O-RING	57	65
834131040	GASKET, SEAT	21	7	835113103	WASHER, SEALING	47	32
834201100	PULLER, IDLER GEAR	69	4	835114350	STUD, STARTER	11	21
834201460	PULLER, CYLINDER LINER	69	6	835118111	O-RING	31	7
834311010	TOOL, VALVE LAPPING	69	7	835118111	O-RING, PLUG	27	3
834311380	PULLEY, DRIVE	49	1	835119101	O-RING, OIL COOLER & BASE	29	27
834331070	BOLT, LIFTING - CYLINDER HEAD	69	8	835120107	O-RING	31	14
834400925	O-RING, GAGE GUIDE	9	40	835122051	BRACE, ALTERNATOR	47	3
834402135	O-RING FLANGE	11	28	835122100	TOOL, INJ. PUMP TIMING	69	20
834402135	O-RING, PICK-UP	29	24	835131103	O-RING	57	74
834404535	O-RING	23	49	835131112	O-RING	45	29
834411170	FAN, ALTERNATOR	49	2	835135102	O-RING	57	75
834411260	COMPRESSOR, PISTON RING	69	9	835141101	O-RING	13	21
834421180	EXPANDER, PISTON RING	69	10	835144112	O-RING	47	34
834451190	CLAMP	49	29	835159101	O-RING	41	10
834502492	FLYWHEEL ASSEMBLY	13	12	835160102	O-RING	57	76
834531270	RING GEAR, FLYWHEEL	13	13	835160104	O-RING	45	30
834551100	BOLT, FLYWHEEL	13	14	835165103	O-RING, DRIVE ASSEMBLY	9	41
834551130	PLATE, MOUNTING	47	1	835181102	O-RING	11	32
834611330	PIPE, BOOST COMPENSATOR	21	19	835211062	BOLT, BEARING CUP	7	3
834611630	HOSE, OIL REMOVAL	7	15	835211110	GEAR, CRANKSHAFT	13	15
834621130	ADAPTER, NOZZLE	69	11	835231290	GEAR, CAMSHAFT	15	3
834672220	LINER, CYLINDER - CODE W	7	2	835410105	CLAMP	35	72
834672230	LINER, CYLINDER - CODE X	7	-	835412100	WASHER, SEALING	17	21
834672240	LINER, CYLINDER - CODE Y	7	-	835415104	CLAMP	35	73
834672250	LINER, CYLINDER - CODE Z	7	-	835420150	WASHER, SEALING	45	26
834701022	COMPRESSOR, VALVE SPRING	69	12	835422150	WASHER, PLUG	35	67
834721650	BAR, VALVE SEAL INSTALLATION	69	13	835422150	WASHER, SEALING	57	66
834801120	GUIDE, CYLINDER LINER	69	14	835424102	CLAMP, HOSE	57	77
834811120	GUIDE, CONN. ROD BUSHING	69	15	835521051	ADAPTER, COMPRESSION GAGE	69	21
				835526117	JOINT	45	31
				835601540	PUMP ASSEMBLY, FUEL FEED	33	5
				835614470	PLATE, CAUTION	21	20
				835711040	PLATE, THRUST	15	4
				835721090	PLATE, THRUST	15	5

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835801240	SHAFT, IDLER GEAR	15	7	836671090	RING, PACKING	39	10
835818181	PLATE, CAUTION	29	9	836750124	BUSHING, IDLER GEAR	15	14
835818320	PLATE, CAUTION	33	30	836801170	SOLENOID ASSEMBLY	53	2
835851020	SEAT, CAP	21	8	836901101	CASE ASSEMBLY, BEARING	11	8
835906118	CLEVIS	53	10	836910103	STUD	23	46
835908104	WASHER, SEALING	61	11	836911660	PIPE, COOLANT	55	9
835910105	WASHER, SEALING	23	50	836911670	PIPE, COOLANT	21	9
835910105	WASHER, SEALING	29	26	836920111	CLAMP	57	70
835910105	WASHER, SEALING	35	68	836922103	CLAMP	57	71
835912111	WASHER, SEALING	45	27	836926107	CLAMP	45	28
835913110	WASHER, SEALING	35	70	836941122	ADAPTER, TACHOMETER SENDER	7	12
835914104	WASHER, SEALING	35	69	836945101	CLAMP	57	72
835914110	WASHER, SEALING	29	25	836945101	CLAMP, HOSE	23	51
835918111	WASHER, SEALING	9	42	836970103	CLAMP	57	73
836001780	NOZZLE ASSEMBLY, INJECTOR	33	13	837001520	REGULATOR ASSEMBLY	49	28
836003490	BASE ASSEMBLY, OIL FILTER	29	7	837011470	CASE, OIL COOLER	27	1
836006140	WASHER	25	4	837011770	BEARING SET, MAIN (FOR ONE ENGINE)	13	2
836006140	WASHER, FLAT	47	23	837081160	PUSH ROD	19	1
836008140	WASHER, FLAT	57	48	837101810	COOLER ASSEMBLY, OIL (SEE INDIVIDUAL SECTION FOR COMPONENTS)	29	8
836008180	WASHER, FLAT	35	59	837111521	VALVE, INTAKE	19	2
836008200	WASHER, FLAT	57	49	837111980	PIPE, NOZZLE - #1	33	19
836010220	WASHER, FLAT	57	50	837121530	ELEMENT, OIL COOLER	27	4
836010330	WASHER, FLAT	47	24	837121970	PIPE, NOZZLE - #2	33	20
836011290	BRACKET, SOLENOID	53	1	837131920	PIPE, NOZZLE - #3	33	21
836014270	WASHER, FLAT	47	26	837141940	PIPE, NOZZLE - #4	33	22
836014300	WASHER, FLAT	47	25	837151570	VALVE, EXHAUST	19	3
836030360	ROD	53	11	837151910	PIPE, NOZZLE - #5	33	23
836041020	VALVE, OIL	31	16	837161050	PLUG, VALVE	31	4
836071630	FILTER, OIL - SPIN-ON	31	17	837161890	PIPE, NOZZLE - #6	33	24
836122190	BASE, OIL FILTER	31	2	837171160	GASKET, ELEMENT	27	5
836131280	GEAR, PUMP DRIVE	33	1	837191020	SEAL, VALVE - EXHAUST	19	4
836151180	SPRING, NOZZLE	39	4	837191190	SEAL, VALVE - INTAKE	19	5
836161190	PIN, NOZZLE	39	3	837204320	AIR CLEANER ASSEMBLY	21	17
836171560	DISTANCE PIECE	39	6	837225161	GROMMET	57	67
836201250	RELAY, GLOW PLUG	47	11	837311312	SPRING, VALVE	19	6
836201630	HOLDER ASSEMBLY, NOZZLE TIP	33	14	837341210	SEAT, VALVE SPRING	19	7
836202570	BASE ASSEMBLY, OIL FILTER	31	1	837351260	RETAINER, VALVE SPRING	19	8
836208220	WASHER, FLAT	35	60	837391030	CAP, VALVE STEM	19	9
836211080	GASKET	39	8	837511332	LIFTER, VALVE	19	10
836214440	WASHER	15	11	837711360	CLAMP, AIR CLEANER	21	18
836221070	PIN, DOWEL	39	1	837731321	PIPE, OIL	33	2
836221080	PIN, DOWEL	39	2	837731371	PIPE, OIL	33	3
836241040	VALVE, SAFETY	31	12	837811620	PIPE, FUEL	33	25
836241200	VALVE, PRESSURE	31	6	837811981	PIPE, FUEL	33	26
836331230	NUT, NOZZLE TIP	39	7	837821161	PIPE, FUEL FEED	33	27
836401120	DRIVE ASSEMBLY - TACHOMETER	7	11	837871161	SCREW, VALVE ADJUST	19	11
836401560	NOZZLE TIP ASSEMBLY	33	15	837915105	GROMMET	57	68
836431020	PLUG, FILTER DRAIN	31	19	837916106	GROMMET	57	69
836431140	PLUG	31	10	838005130	LOCKWASHER	19	22
836601020	SWITCH, FILTER BY-PASS	31	13	838006150	LOCKWASHER	25	6
836611140	GASKET, NOZZLE	33	16	838006150	WASHER, LOCK	35	61
836611160	SPRING, SWITCH	31	3	838006150	WASHER, LOCK	53	9
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838008200	WASHER, LOCK	57	51	839042200	CLIP	33	36
838012660	ELEMENT, AIR CLEANER	25	2	839042660	CLIP	21	22
838014350	WASHER, LOCK	47	28	839042660	CLIP	55	25
838031080	SEPARATOR ASSEMBLY	33	29	839105080	SCREW, SET	19	23
838064251	HOSE, FUEL	33	28	839106202	BOLT, SOLENOID	53	4
838106200	BOLT, PLATE	61	9	839106253	BOLT, CLIP	35	53
838106300	BOLT, CLIP	35	52	839106302	BOLT, RELAY	47	18
838106350	BOLT, CLIP	35	48	839108002	BOLT, FILTER BASE	29	20
838108160	BOLT, BRACKET	35	51	839108201	BOLT, PULLEY	45	20
838108160	BOLT, BRACKET	55	40	839108201	BOLT, TACHOMETER DRIVE	7	27
838108160	BOLT, OIL PAN	7	23	839108202	BOLT, FLANGE	11	20
838108160	BOLT, PICK-UP BRACKET	29	14	839108251	BOLT	53	5
838108160	BOLT, PLATE	11	17	839108251	BOLT, END COVER	21	37
838108200	BOLT	55	41	839108251	BOLT, PIPE	55	42
838108200	BOLT PLATE	11	16	839108252	BOLT, BEARING CASE	11	18
838108200	BOLT, CIRCULATING PUMP	45	17	839108252	BOLT, MANIFOLD	45	21
838108200	BOLT, CLIP	7	24	839108302	BOLT	57	43
838108200	BOLT, COVER	29	12	839108351	BOLT, COVER	35	54
838108200	BOLT, FLANGE	7	22	839108351	BOLT, CYLINDER HEAD		
838108200	BOLT, PLATE	21	32		COVER	17	11
838108250	BOLT	7	25	839108351	BOLT, FLYWHEEL HOUSING	11	19
838108250	BOLT, PLATE	15	9	839108351	BOLT, INTAKE MANIFOLD	21	33
838108300	BOLT, PICK-UP	29	15	839108401	BOLT, END COVER	21	36
838108350	BOLT, COVER	29	13	839108401	BOLT, OIL COOLER	29	17
838108400	BOLT, CLIP	7	26	839108551	BOLT, OIL COOLER	29	18
838108450	BOLT, COVER	35	49	839108552	BOLT, INTAKE MANIFOLD	21	34
838108500	BOLT, PICK-UP	29	16	839108601	BOLT, SUPPORT	19	20
838108600	BOLT, COVER	35	50	839108652	BOLT, INTAKE MANIFOLD	21	35
838108650	BOLT, COVER	11	12	839108752	BOLT, FILTER BASE	29	19
838108750	BOLT, BEARING CASE	11	15	839108851	BOLT, MANIFOLD	45	22
838108850	BOLT, COVER	11	13	839110301	BOLT	57	44
838108850	BOLT, HOUSING	45	18	839511560	SUPPORT, ROCKER SHAFT	19	15
838108900	BOLT, BEARING CASE	11	14	839511570	SUPPORT, ROCKER SHAFT	19	16
838108950	BOLT, CIRCULATING PUMP	45	19	839511580	SUPPORT, ROCKER SHAFT	19	17
838111180	BEARING, CAMSHAFT - #1	7	4	839908114	BOLT, INTAKE MANIFOLD	21	38
838111610	ARM, ROCKER - INTAKE	19	12	839908121	BOLT, INTAKE MANIFOLD	21	39
838111620	ARM, ROCKER - EXHAUST	19	13	839908143	BOLT, GEAR	35	55
838112102	BEARING, ROTOR	49	16	839908157	BOLT, FILTER BASE	29	21
838114400	BOLT, CAMSHAFT GEAR	15	10	839934720	HOLDER, CLIP	55	26
838120122	BEARING, BALL	49	10	F2319	SCREW	65	4
838211190	BEARING, CAMSHAFT - #2	7	5	F639460	CIRCUIT BREAKER	63	6
838311130	BEARING, CAMSHAFT - #3	7	6	F700554	CLAMP, HOSE	67	7
838311410	BOLT, BANJO	39	11	F700580	ELBOW, BRASS	67	3
838411120	BEARING, CAMSHAFT - #4	7	7	F700690	SENDER, COOLANT TEMP.	63	1
838431870	WASHER, SEALING	39	12	F700935	SWITCH, COOLANT TEMP.		
838831080	RING, RETAINING	39	13		ALARM	63	2
839011200	SHAFT ASSY., ROCKER			F7066	NUT, STUD	65	3
	ARM	19	14	F708028	TRANSMISSION, HURTH		
839016480	WASHER, LOCK	49	4		2.0:1	65	1
839041140	CLIP, OIL TUBE	7	18	F708307	CLAMP, COOLER	67	4
839041170	CLIP	33	37	F708432	SENDER, OIL PRESSURE	63	7
839041380	CLIP	55	24	F708433	CIRCUIT INTERRUPTOR	63	5
839041900	CLIP	33	31	F708535	BRACKET SHIFTER	65	NS
839041930	CLIP	33	32	F708821	KIT, CABLE END	65	NS
839041940	CLIP	33	33	F708940	SWITCH, OIL PRESSURE		
839042000	CLIP	33	34		ALARM	63	4
839042131	CLIP	33	38	F728231	HOSE, WATER - 1-1/2 X 10,	67	5
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F729455	HARNESS, WIRING - PORT .	63	NS				
F729456	HARNESS, ENGINE WIRING - STBD	47	35				
F729456	HARNESS, WIRING - STBD .	63	NS				
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F729771	MOUNT, REAR LEFT	11	35				
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F733155	STUD	65	2				
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F733521	BRACKET, CIRCUIT BREAKER	63	NS				
F733936	BOOT, INSULATING - STARTER	63	NS				
F734180	GASKET, RISER	55	12				
F8153	WASHER, LOCK	65	6				
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FI4290003	WASHER, LOCK	35	63				
FI4290003	WASHER, LOCK	47	27				
FI4290003	WASHER, LOCK	57	52				
FI4290003	WASHER, LOCK	65	9				
NOTSERVI	SEE LOCAL SUPPLIER	39	5				
NOTSERVI	SEE LOCAL SUPPLIER	39	9				
12-F8165	WASHER, FLAT	65	5				