



# PARTS CATALOG

## US MARINE W04CTI (210 H.P.) DIESEL

### SERIAL NUMBER

HINO DIESEL (SEE MERCUISER) ..... W04CTI (210 H.P.) 4 CYL.

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

**AR** = As Required

**NSS** = Not Sold Separate

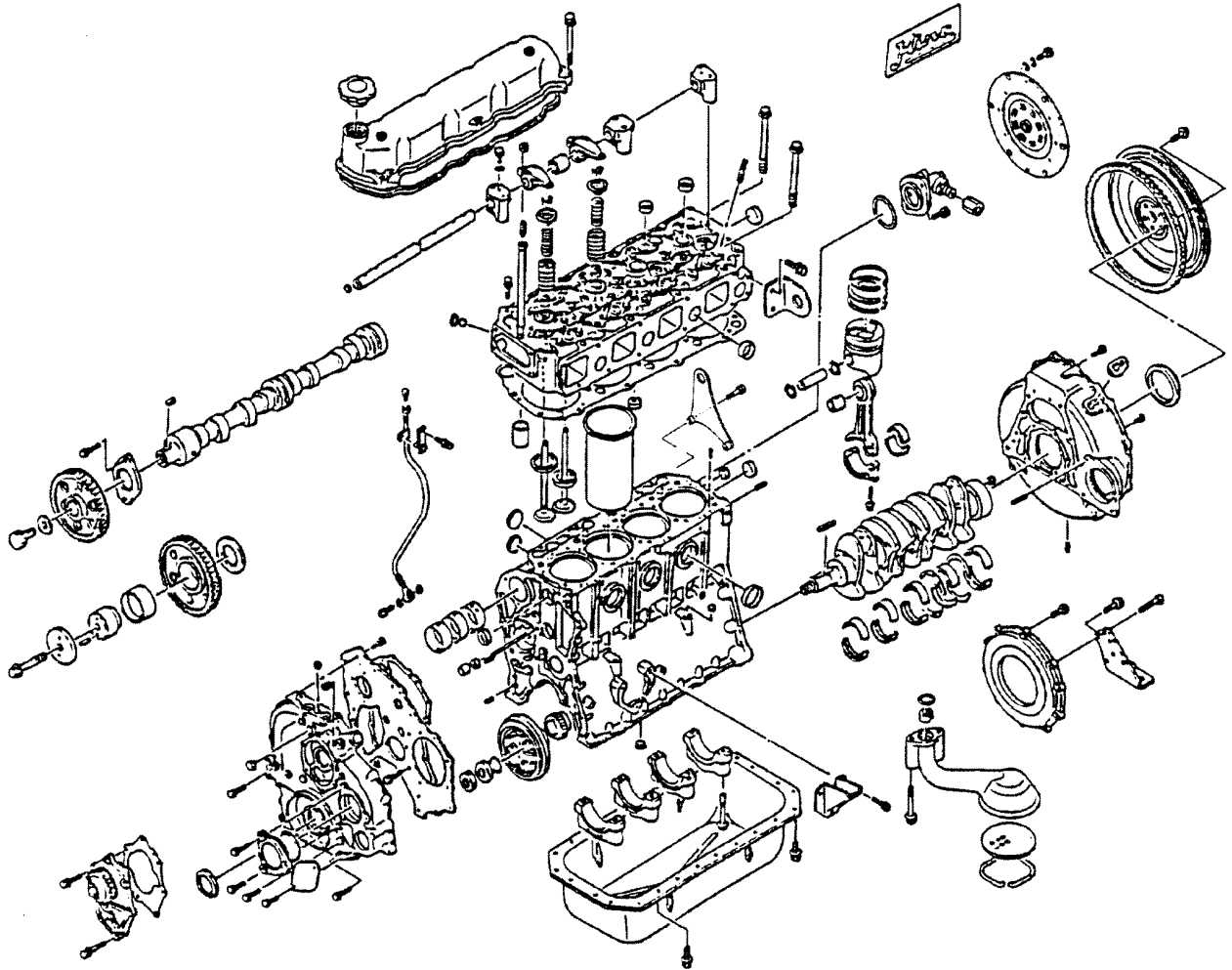
**OPT** = Optional

**NS** = Not Shown

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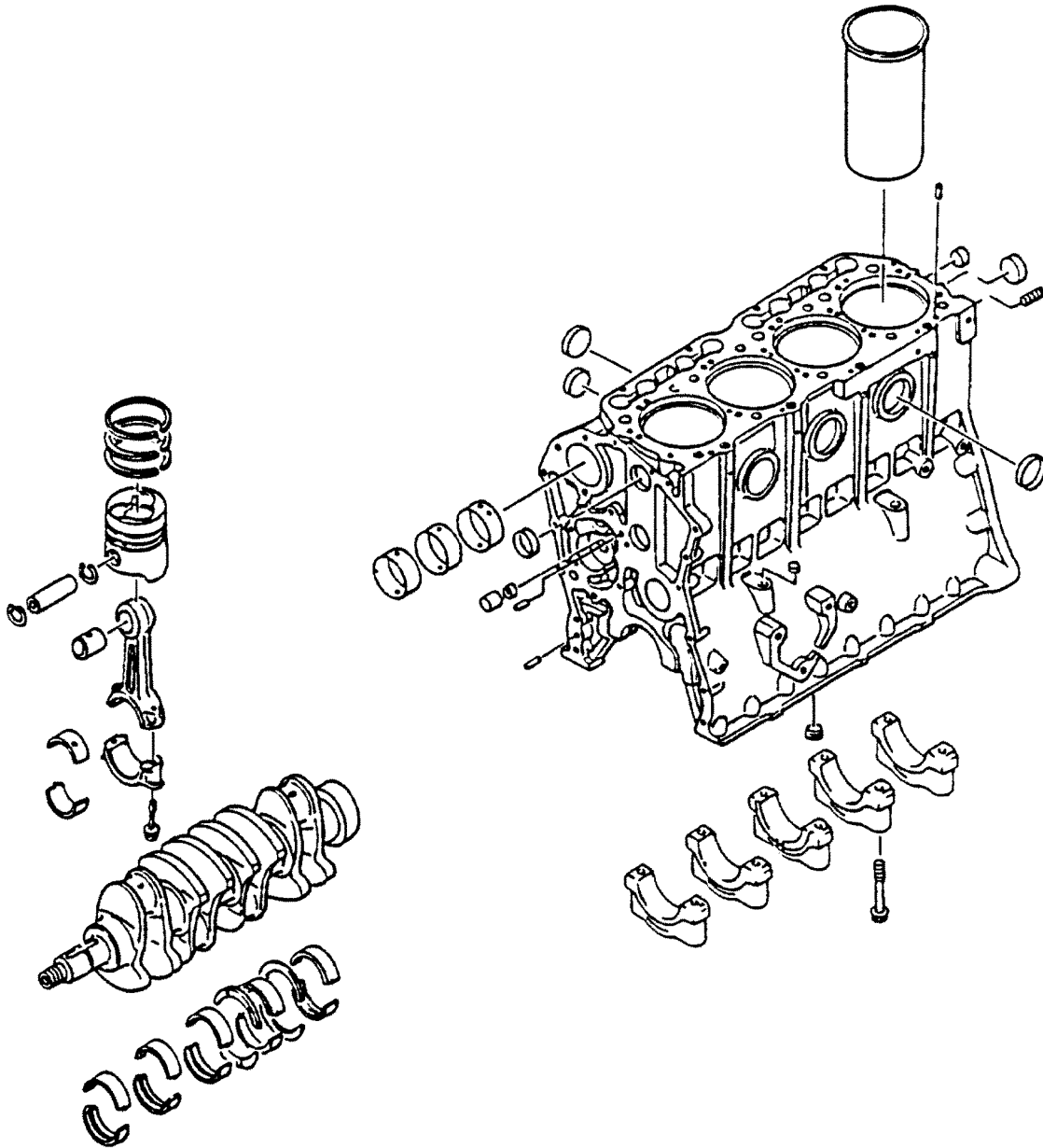
# PARTIAL ENGINE



# PARTIAL ENGINE

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
-	830906920		1	ENGINE ASSY., PARTIAL

# SHORT BLOCK

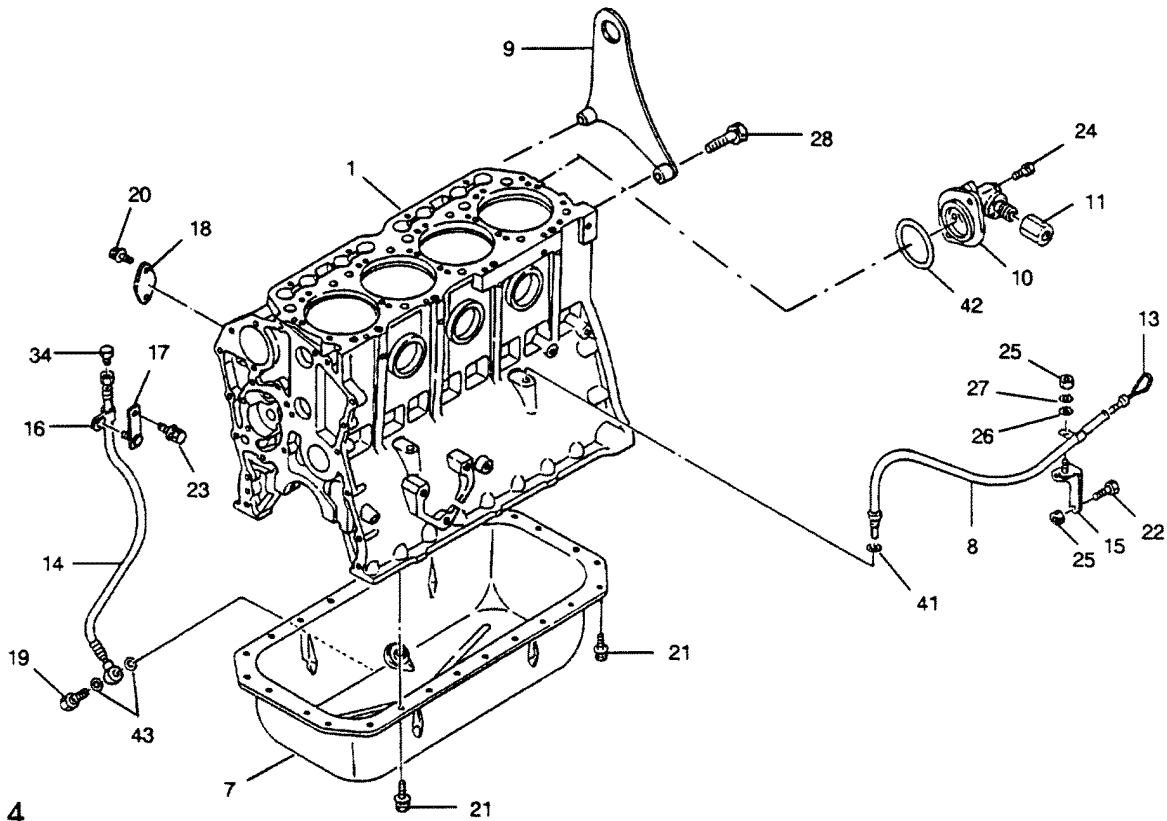
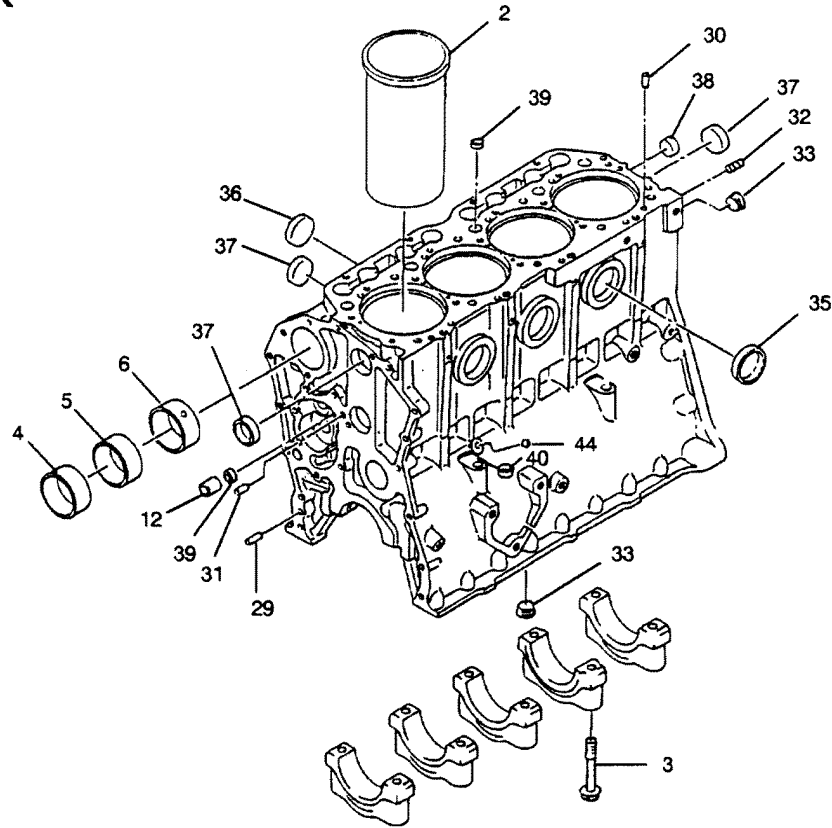


# SHORT BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
-	834004390		1	BLOCK ASSY., SHORT

# CYLINDER BLOCK

## CYLINDER BLOCK



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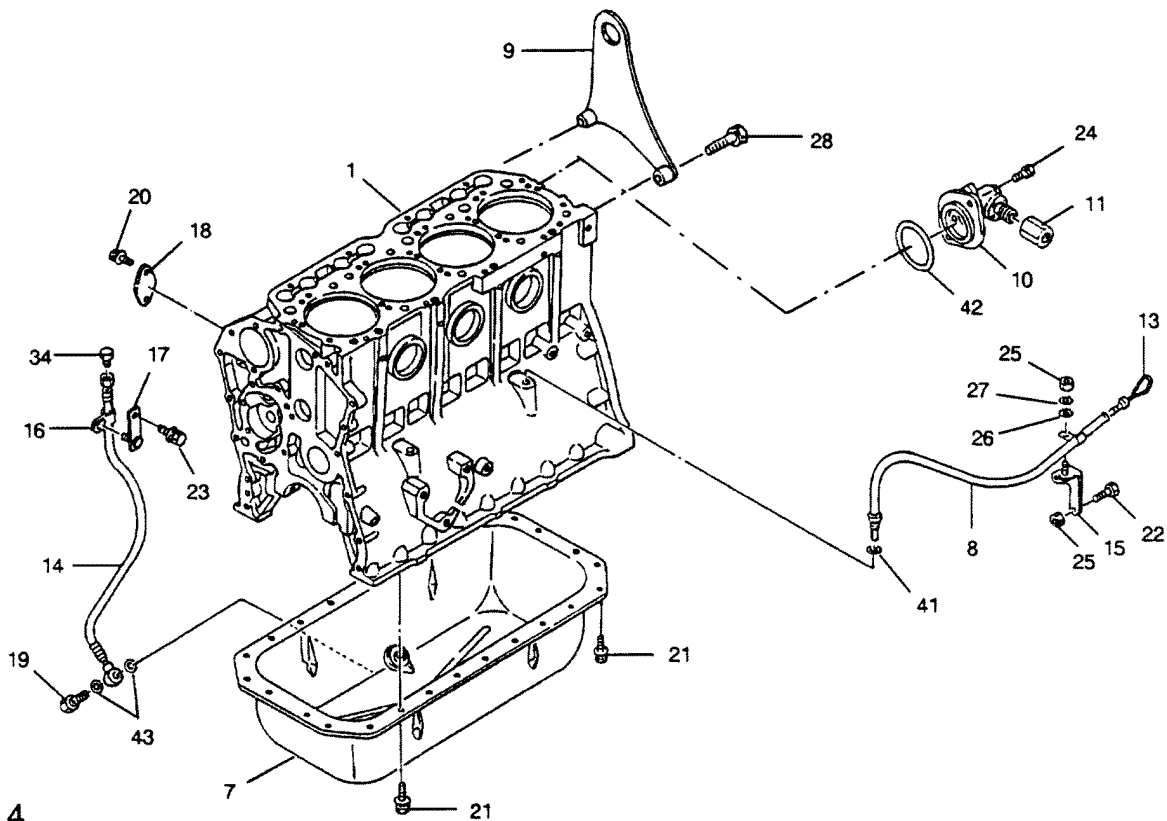
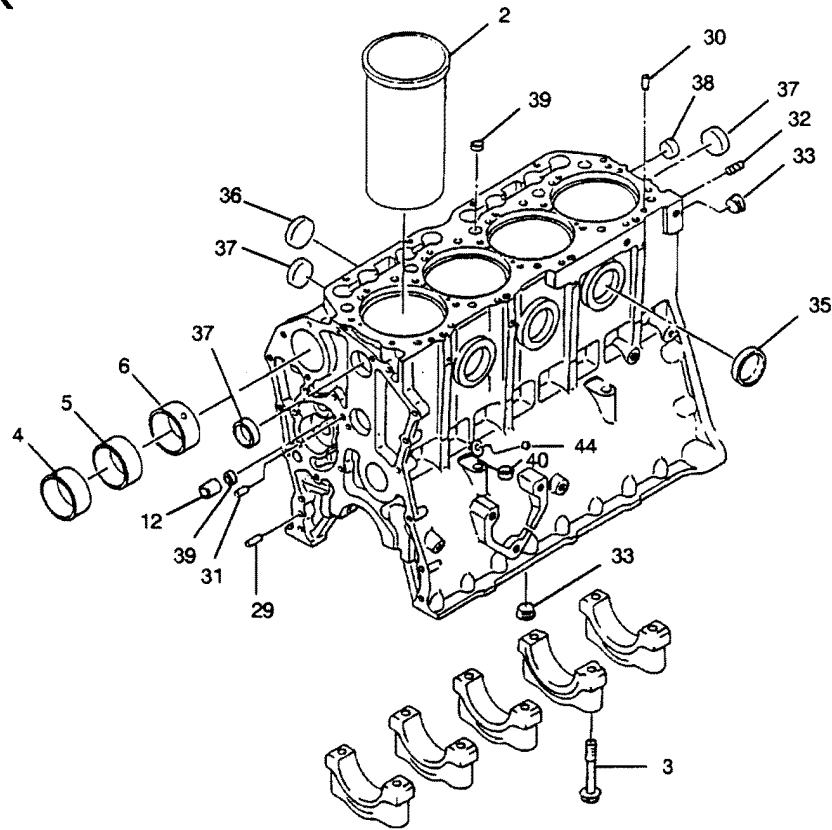
# CYLINDER BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834104370		1	BLOCK ASSEMBLY
2	834671761		AR	LINER, CYLINDER - CODE W
-	<b>834671771</b>		<b>AR</b>	<b>LINER, CYLINDER - CODE X</b>
-	<b>834671781</b>		<b>AR</b>	<b>LINER, CYLINDER - CODE Y</b>
-	<b>834671791</b>		<b>AR</b>	<b>LINER, CYLINDER - CODE Z</b>
3	835211062		10	BOLT, BEARING CAP
4	838111180		1	BEARING, CAMSHAFT - #1
5	838211190		1	BEARING, CAMSHAFT - #2
6	838311130		1	BEARING, CAMSHAFT - #3
7	831112920		1	PAN, OIL
8	831412250		1	TUBE, OIL LEVER GAGE
9	832031030		1	HANGER, ENGINE
10	836401120		1	DRIVE, TACHOMETER
11	836941122		1	ADAPTER, TACH. DRIVE
12	831171100		1	BUSHING, OIL PUMP
13	833013991		1	GAGE, OIL LEVEL
14	834611630		1	HOSE, OIL REMOVAL
15	834914402		1	BRACKET, PIPE
16	839041140		1	CLIP
17	839935260		1	HOLDER, CLIP
18	830211159		1	FLANGE
19	831918169		1	BOLT, BANJO
20	838108200		2	BOLT, FLANGE
21	838108160		26	BOLT, OIL PAN
22	839108162		2	BOLT
23	839108161		1	BOLT
24	839108201		2	BOLT, DRIVE
25	830108070		3	NUT
26	836008180		1	WASHER, PLAIN
27	838008200		1	WASHER, LOCK
28	830912118		1	BOLT
29	830408240		2	PIN, GUIDE
30	830408160		2	PIN, GUIDE
31	830405100		1	PIN, GUIDE
32	830912103		2	PIN
33	834999987		2	PLUG
34	832917111		1	PLUG, OIL HOSE
35	833950103		3	PLUG, CUP
36	833940104		3	PLUG, CUP
37	833936102		5	PLUG, CUP
38	833924103		1	PLUG, CUP
39	833917101		5	PLUG, CUP

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# CYLINDER BLOCK

## CYLINDER BLOCK

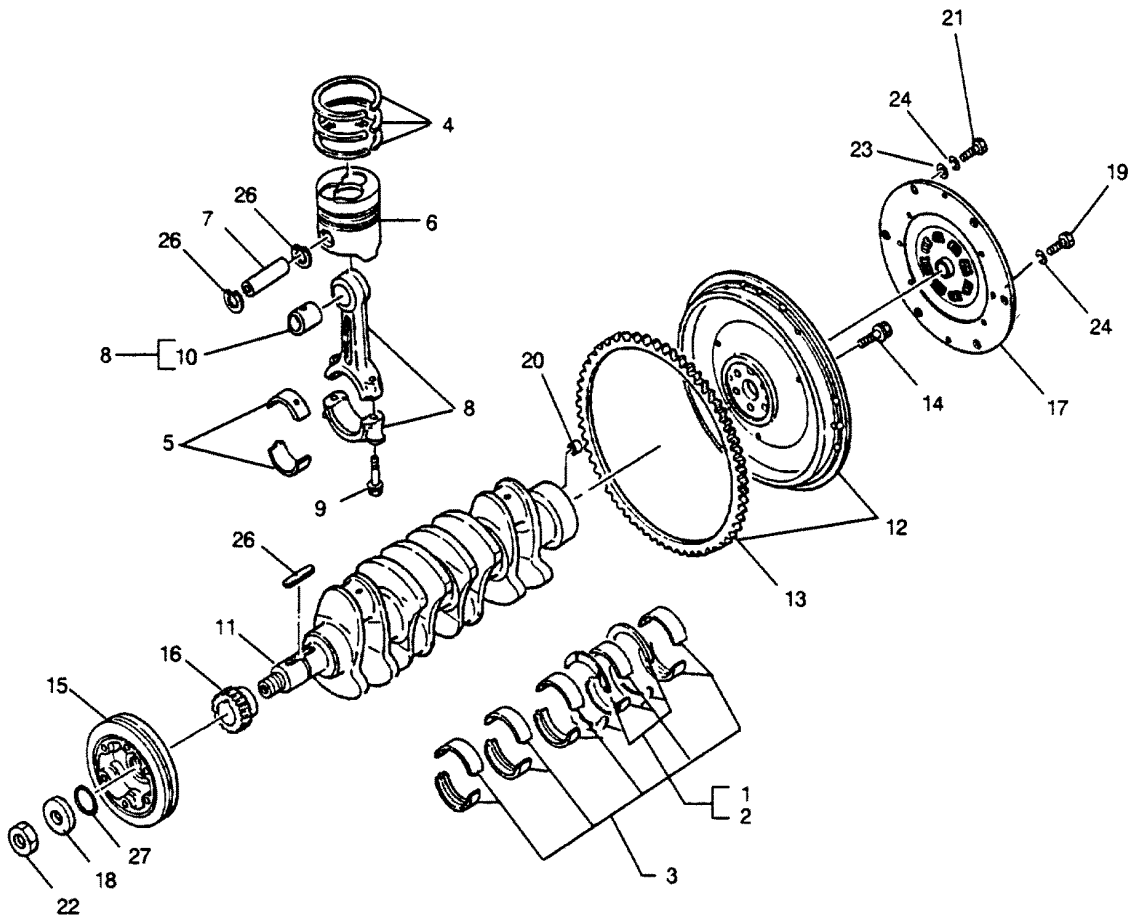


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# CYLINDER BLOCK

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
40	833914101		1	PLUG, CUP
41	834400925		1	O-RING, TUBE
42	835165103		1	O-RING, DRIVE
43	835418150		2	WASHER, SEALING
44	830006100		2	BALL

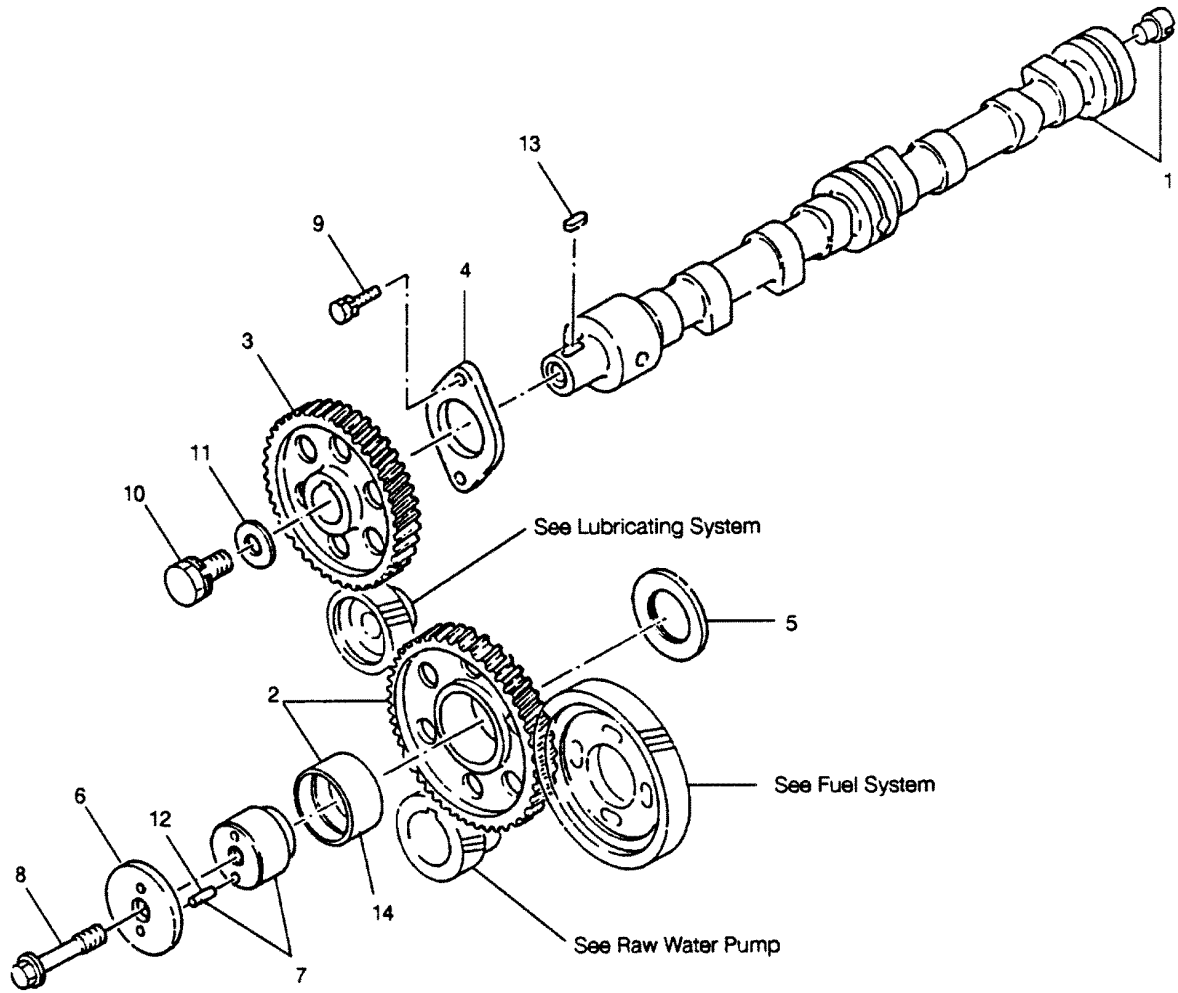
# CRANKSHAFT AND PISTON ASSEMBLY



# CRANKSHAFT AND PISTON ASSEMBLY

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	830111240		1	BEARING SET, THRUST - STD
2	830121250		AR	BEARING SET, THRUST - .25MM O/S
3	837011730		1	BEARING SET, CRANKSHAFT - STD
-	<b>837031620</b>		<b>AR</b>	<b>BEARING SET, CRANKSHAFT - .25MM U/S</b>
-	<b>837041650</b>		<b>AR</b>	<b>BEARING SET, CRANKSHAFT - .50MM U/S</b>
-	<b>837051620</b>		<b>AR</b>	<b>BEARING SET, CRANKSHAFT - .75MM U/S</b>
-	<b>837061650</b>		<b>AR</b>	<b>BEARING SET, CRANKSHAFT - 1.0MM U/S</b>
4	830112550		1	RING SET, STD. (FOR ONE ENGINE)
5	832011540		1	BEARING SET, STD. (FOR ONE ENGINE)
-	<b>832031550</b>		<b>AR</b>	<b>BEARING SET, .25MM U/S</b>
-	<b>832041520</b>		<b>AR</b>	<b>BEARING SET, .50MM U/S</b>
-	<b>832051510</b>		<b>AR</b>	<b>BEARING SET, .75MM U/S</b>
-	<b>832061500</b>		<b>AR</b>	<b>BEARING SET, 1.0MM U/S</b>
6	832161781		4	PISTON
7	832511300		4	PIN, PISTON
8	832601460		4	ROD ASSEMBLY, CONNECTING
9	832651371		8	BOLT, ROD CAP
10	832721290		AR	BUSHING, ROD - REPAIR
11	834111681		1	CRANKSHAFT
12	834501563		1	FLYWHEEL ASSEMBLY
13	834531270		1	GEAR, RING
14	834551100		6	BOLT, FLYWHEEL
15	834702161		1	PULLEY, CRANKSHAFT
16	835211110		1	GEAR, CRANKSHAFT
17	F733938		1	PLATE, DRIVE
18	830116148		1	SPACER
19	832210301		8	BOLT, PLATE
20	830129119		1	COLLAR
21	832910241		6	BOLT, PLATE
22	830927102		1	NUT, CRANKSHAFT
23	836010180		6	WASHER, FLAT
24	FI4290003		6	WASHER, LOCK
25	833910111		1	KEY, DRIVE GEAR
26	831937102		8	RING, RETAINING
27	835141101		1	O-RING, CRANKSHAFT

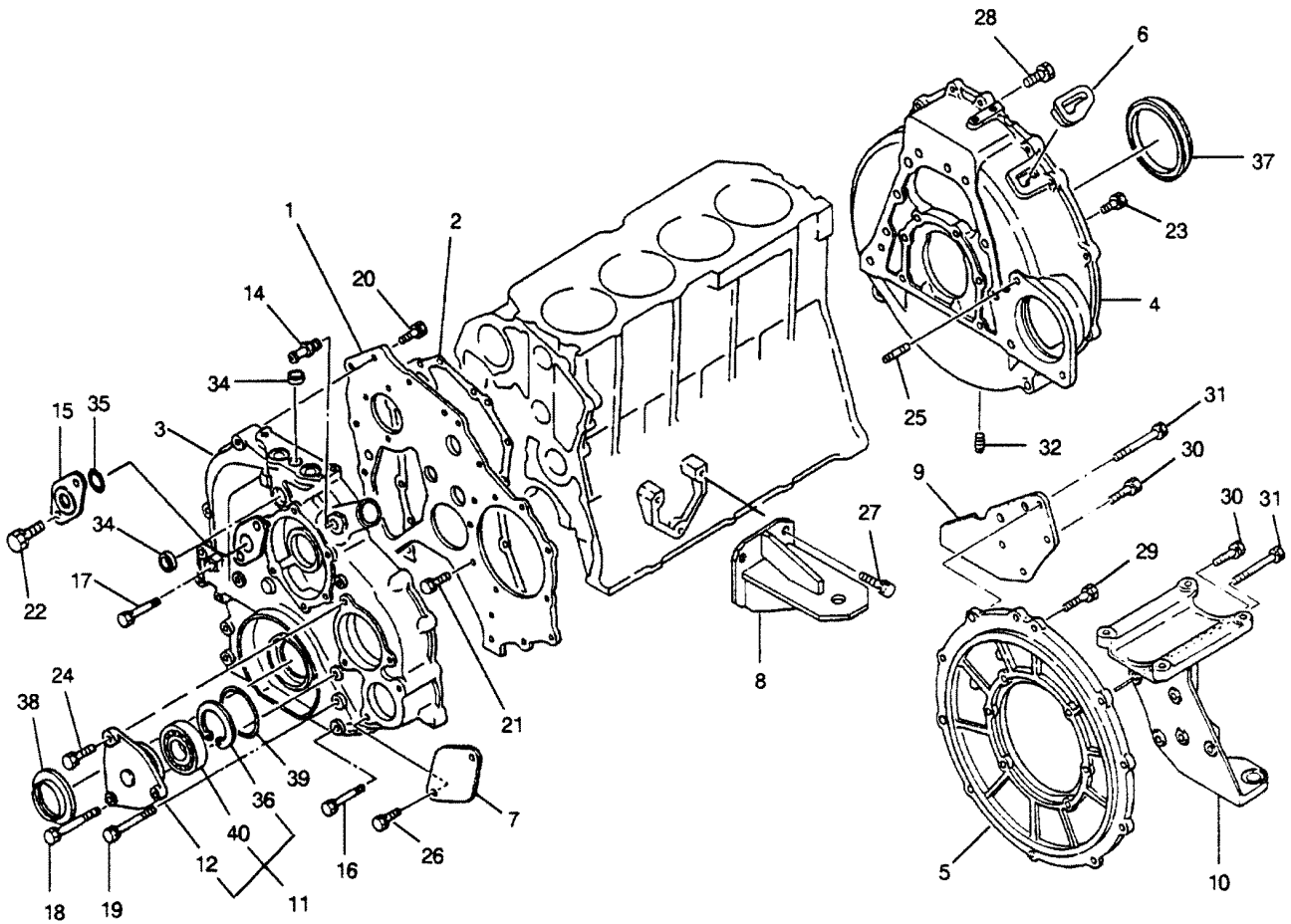
# CAMSHAFT AND IDLER GEAR



## CAMSHAFT AND IDLER GEAR

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	835011042		1	CAMSHAFT ASSEMBLY
2	835051280		1	GEAR, IDLER
3	835231290		1	GEAR, CAMSHAFT
4	835711040		1	PLATE, CAMSHAFT THRUST
5	835721090		1	PLATE, IDLER GEAR THRUST
6	835721100		1	PLATE, IDLER GEAR
7	835801240		1	SHAFTASSY., IDLER GEAR
8	830124244		1	BOLT, IDLER GEAR
9	838108250		2	BOLT, THRUST PLATE
10	838114400		1	BOLT, GEAR
11	836214440		1	WASHER, FLAT
12	830406100		2	PIN
13	833307200		1	KEY, GEAR
14	836750124		1	BUSHING

# TIMING COVER AND FLYWHEEL HOUSING



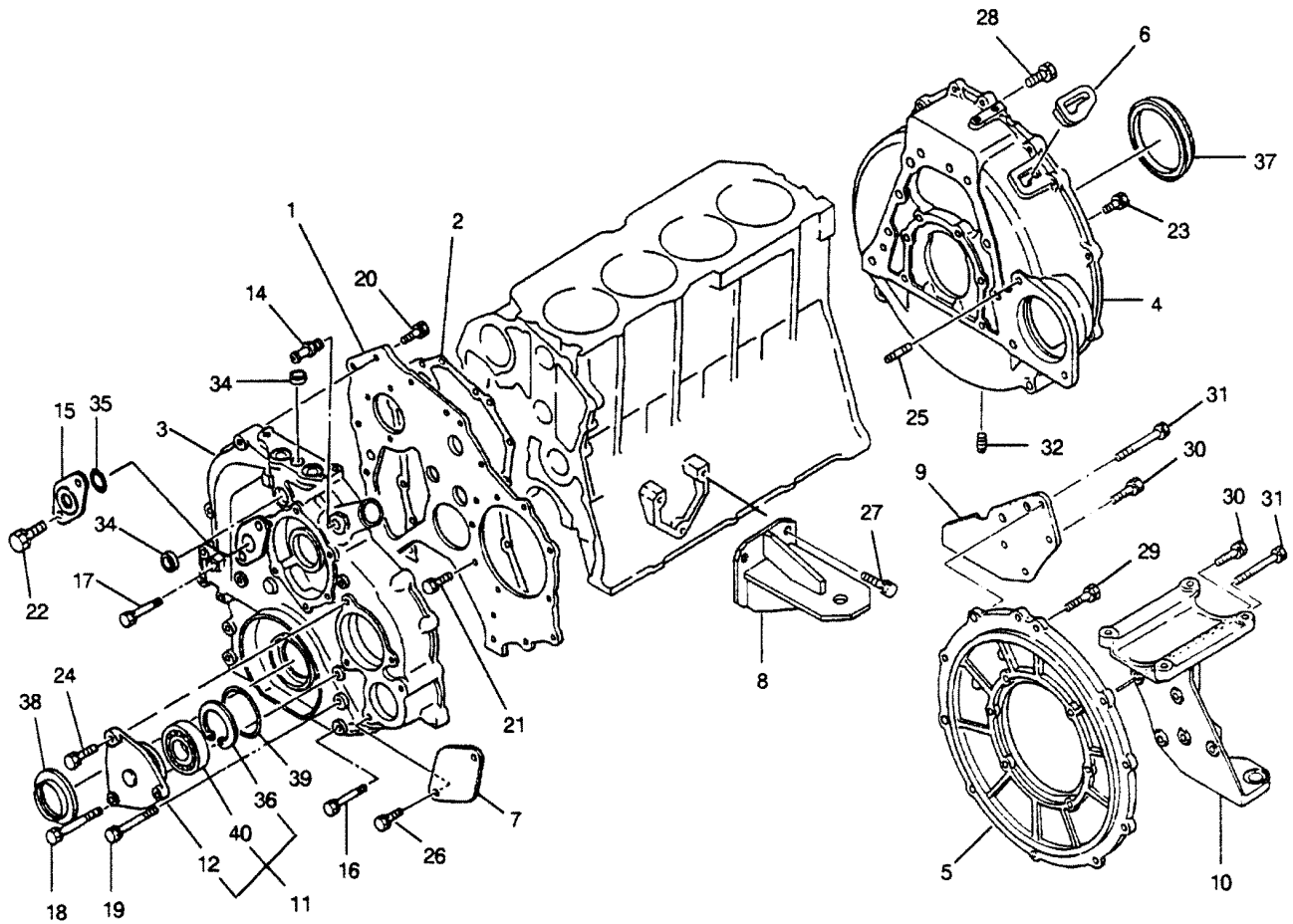


## TIMING COVER AND FLYWHEEL HOUSING

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833111330		1	PLATE, TIMING COVER
2	833121101		1	GASKET, PLATE
3	833223120		1	COVER, TIMING GEAR
4	833512842		1	HOUSING, FLYWHEEL - FRONT
5	833513481		1	HOUSING, FLYWHEEL - REAR
6	833611250		1	COVER, INSPECTION
7	834991060		1	PLATE, SEAL
8	833011341		2	BRACKET, ENGINE MTG. - FRONT
9	833031332		1	BRACKET, ENGINE MTG. - RIGHT REAR
10	833251530		1	BRACKET, ENGINE MTG. - LEFT REAR
11	836901101		1	CASE ASSY., BEARING HOLDER
12	834999983		1	CASE, BEARING HOLDER
13	833911330		1	POINTER, TIMING
14	833011050		1	PIPE, COOLANT
15	830211235		1	FLANGE
16	838108650		5	BOLT, COVER
17	838108850		3	BOLT, COVER
18	838108900		2	BOLT, COVER
19	838108750		1	BOLT, COVER
20	838108200		4	BOLT, COVER
21	838108160		4	BOLT, PLATE
22	839108202		2	BOLT, FLANGE
23	839108351		6	BOLT, HOUSING
24	839108252		3	BOLT, CASE
25	835114350		1	STUD, STARTER
26	830110250		2	BOLT, PLATE
27	830210300		6	BOLT, BRACKET
28	831114402		8	BOLT, HOUSING
29	831110401		6	BOLT, HOUSING
30	831210301		4	BOLT, BRACKET
31	831910118		4	BOLT, BRACKET
32	832210080		1	PLUG HOUSING
33	833922105		1	PLUG, CUP
34	833932102		1	PLUG, CUP
35	834402135		1	O-RING
36	831372250		1	RING, RETAINING
37	832800109		1	SEAL, OIL
38	832858104		1	SEAL, OIL
39	835181102		1	O-RING

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# TIMING COVER AND FLYWHEEL HOUSING

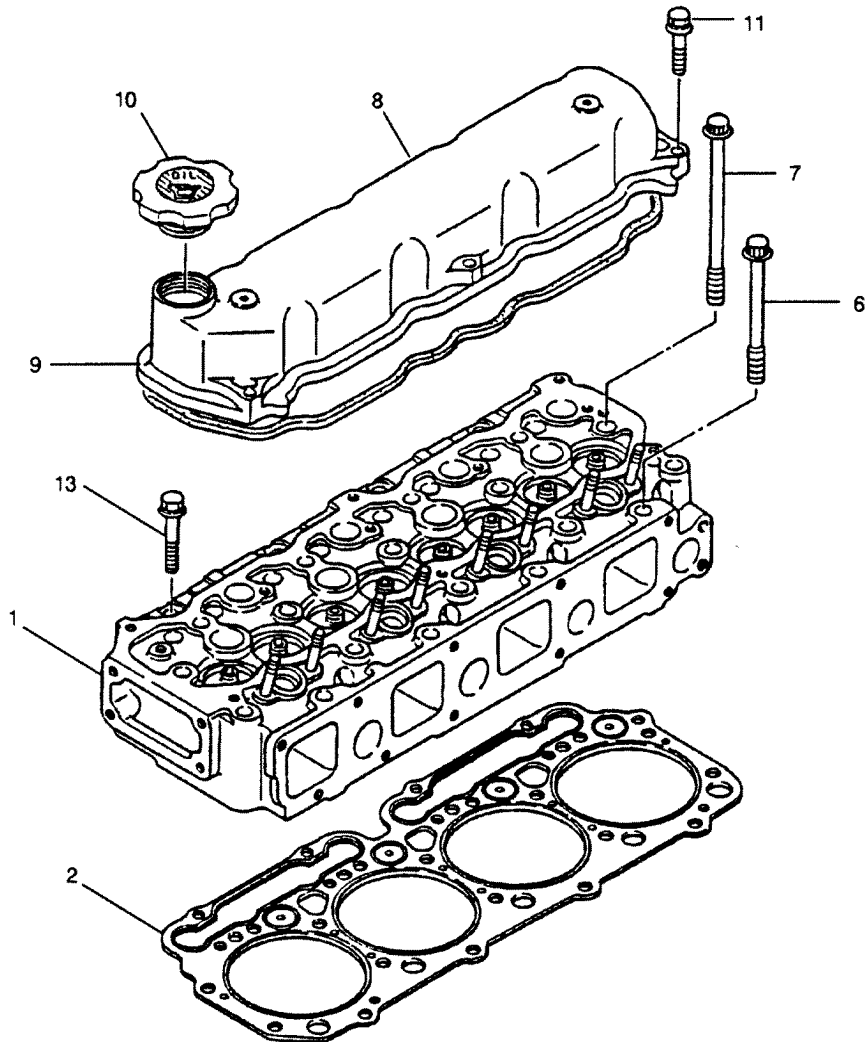
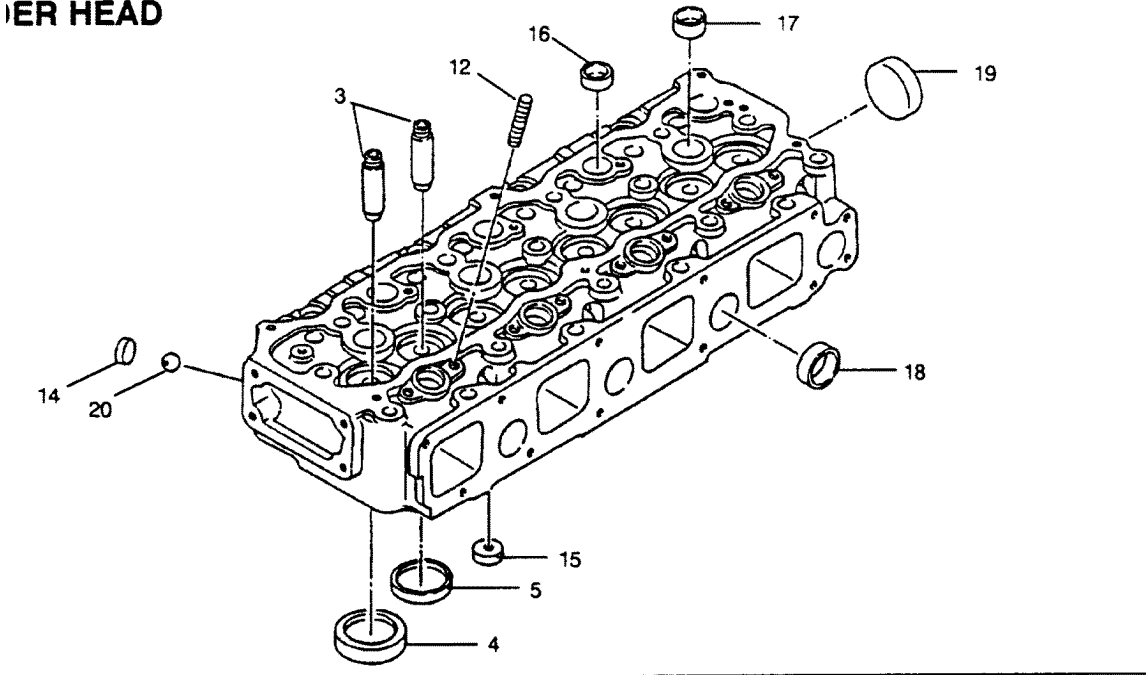


## TIMING COVER AND FLYWHEEL HOUSING

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
40	830062070		1	BEARING
NS	830311890		2	MOUNT, ISOLATOR - FRONT
	830352280		2	MOUNT, ISOLATOR - REAR
	831018090		8	NUT, LOCK - ISOLATOR STUD
	838018460		4	WASHER, LOCK - ISOLATOR STUD

# CYLINDER HEAD

## CYLINDER HEAD

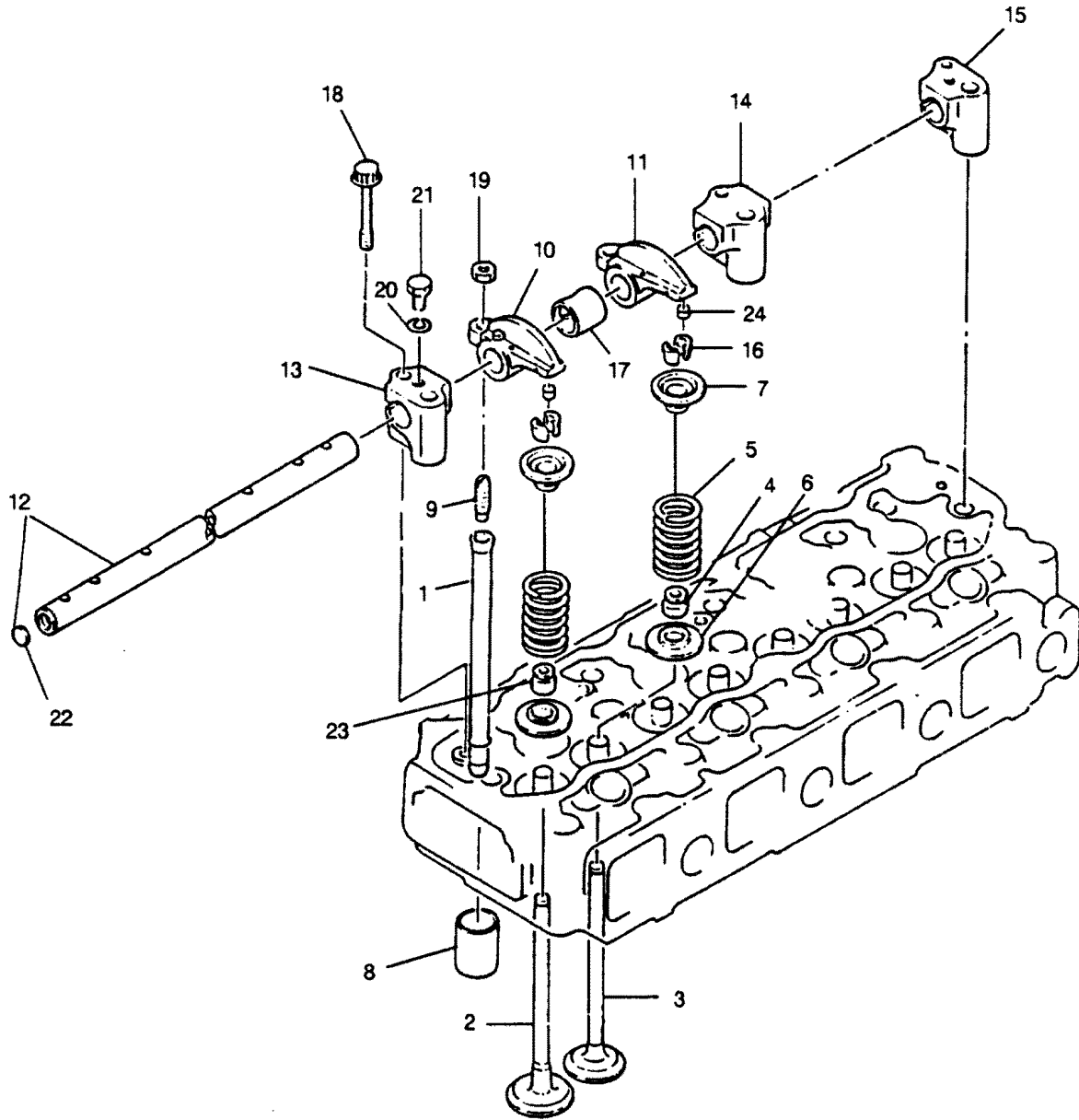


2

# CYLINDER HEAD

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831103400		1	CYLINDER HEAD - BARE
2	831151821		1	GASKET, CYLINDER HEAD
3	831221140		AR	BUSHING, VALVE GUIDE REPAIR
4	831311210		4	SEAT, VALVE - INTAKE
5	831351320		4	SEAT, VALVE - EXHAUST
6	831851440		13	BOLT, CYLINDER HEAD
7	831851450		5	BOLT, CYLINDER HEAD
8	832111940		1	COVER, CYLINDER HEAD
9	832131550		1	GASKET, CYLINDER HEAD COVER
10	831081100		1	CAP, OIL FILLER
11	839108351		6	BOLT, COVER
12	831108750		8	STUD, NOZZLE
13	831910128		4	BOLT
14	833914101		4	PLUG, CUP
15	833922107		4	PLUG, CUP
16	833924103		4	PLUG, CUP
17	833926102		4	PLUG, CUP
18	833930105		4	PLUG, CUP
19	833950103		1	PLUG, CUP
20	830005080		4	BALL

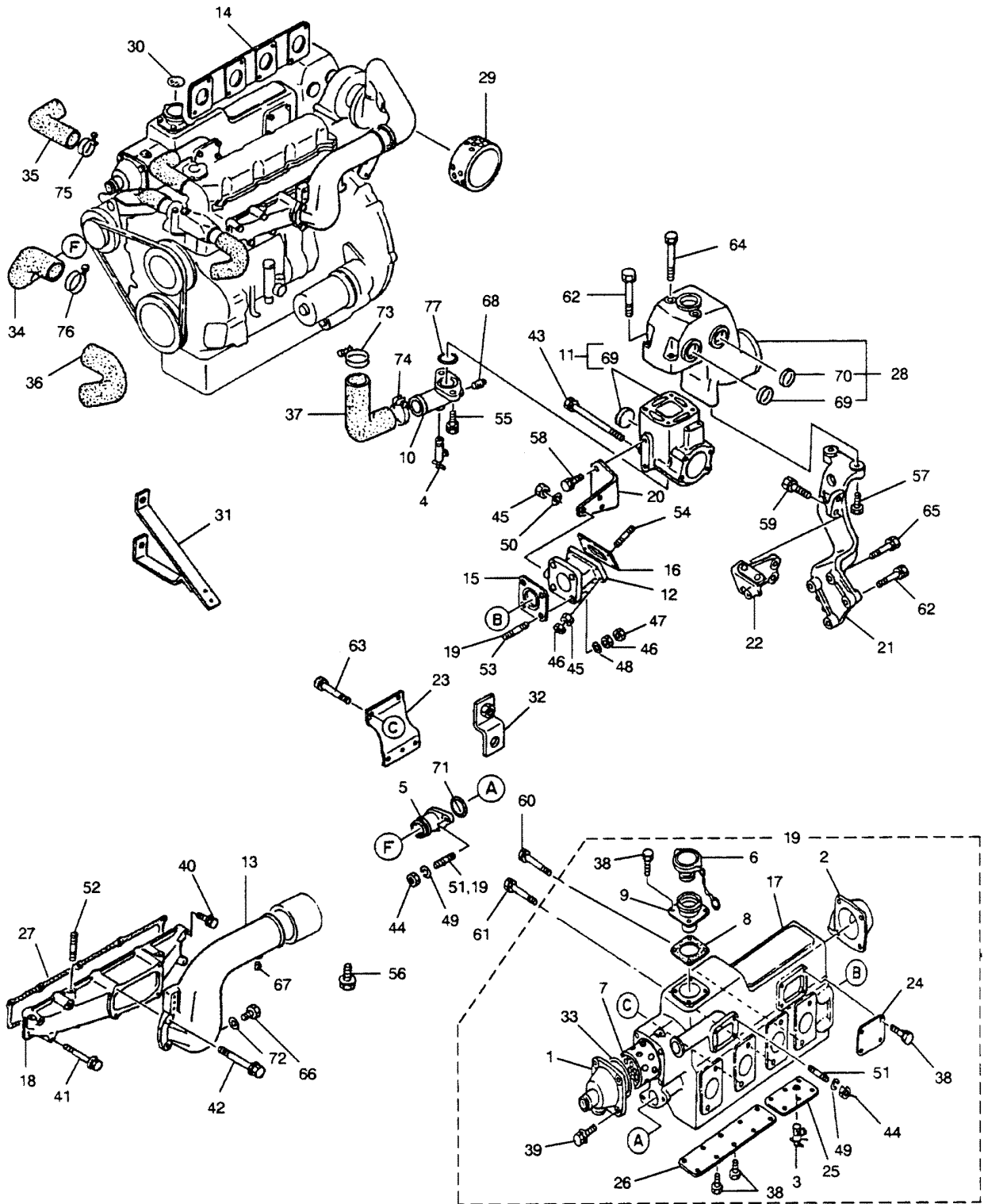
# VALVE SYSTEM



# VALVE SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837081160		8	PUSHROD
2	837111521		4	VALVE, INTAKE
3	837151570		4	VALVE, EXHAUST
4	837191020		8	SEAL, VALVE
5	837311312		8	SPRING, VALVE - INT. & EXH.
6	837341210		8	SEAT, SPRING - LOWER
7	837351260		8	SEAT, SPRING - UPPER
8	837511332		8	LIFTER, VALVE
9	837871161		8	SCREW, VALVE ADJUST
10	838111610		4	ARM, ROCKER - INTAKE
11	838111620		4	ARM, ROCKER - EXHAUST
12	839011190		1	SHAFT, ROCKER ARM
13	839511560		1	SUPPORT, SHAFT
14	839511570		3	SUPPORT, SHAFT
15	839511580		1	SUPPORT, SHAFT
16	830126105		16	LOCK, VALVE SPRING
17	830129174		4	COLLAR, SPACER
18	839108601		5	BOLT, SUPPORT
19	831908113		8	NUT, ADJUST SCREW
20	838005130		2	WASHER, LOCK
21	839105080		2	SCREW
22	833012160		2	PLUG, CUP
23	837191190		4	SEAL, VALVE - INTAKE
24	837391030		8	CAP, VALVE STEM

# INTAKE AND EXHAUST SYSTEM



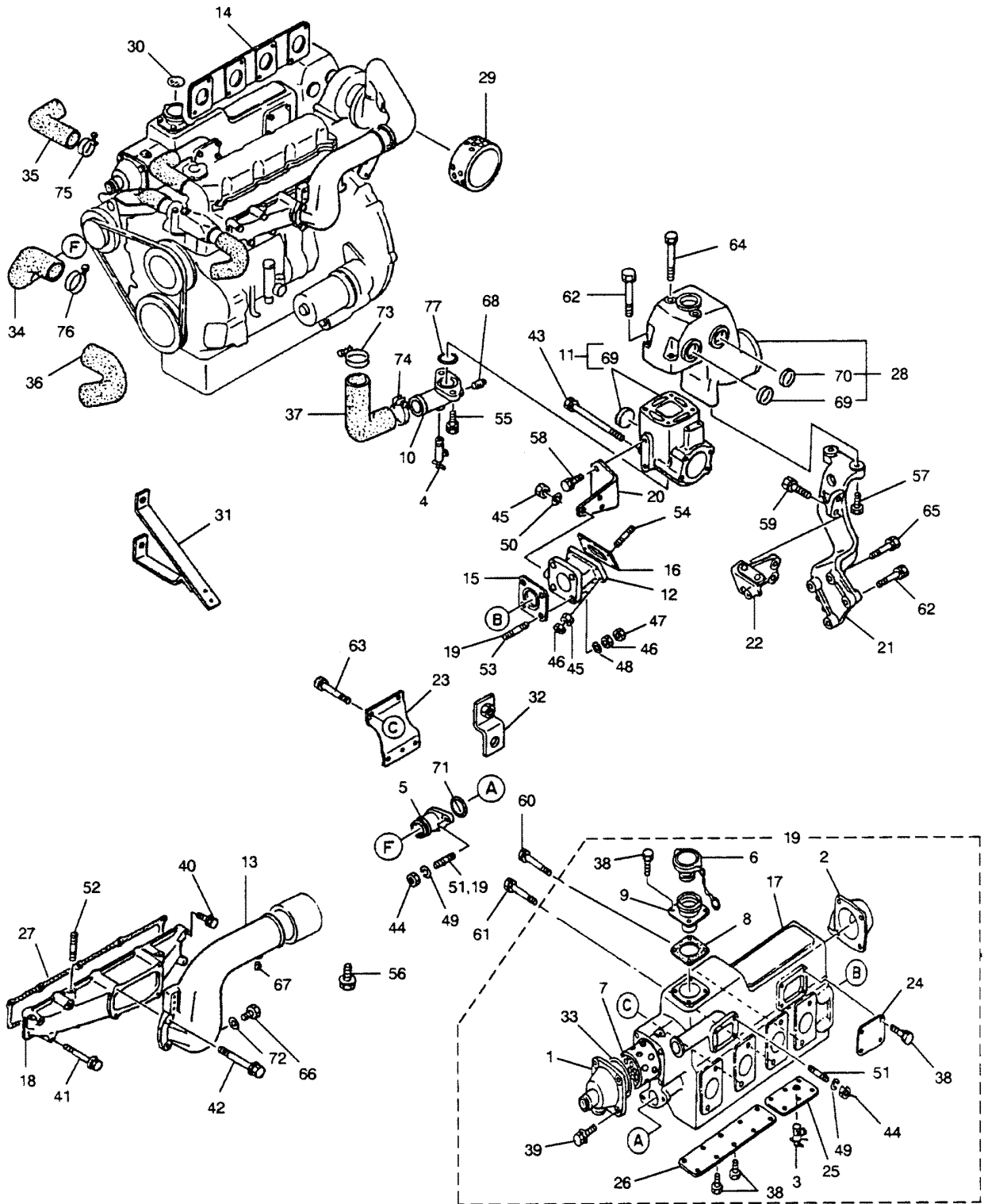


# INTAKE AND EXHAUST SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	832071120		1	COVER, END
2	832071150		1	COVER, END
3	830511090		1	PETCOCK, COOLANT
4	830511100		1	PETCOCK, WATER
5	831131620		1	PIPE, COOLANT
6	834011290		1	CAP, PRESSURE
7	834051020		1	ELEMENT, HEAT EXCHANGER
8	834131040		1	GASKET, SEAT
9	835851020		1	SEAT, FILLER
10	836911170		1	PIPE, COOLANT
11	830211121		1	PIPE, ADAPTER - EXHAUST
12	830211091		1	PIPE, TURBO
13	830313131		1	PIPE, INTAKE
14	831041122		1	GASKET, EXHAUST MANIFOLD
15	831041250		1	GASKET
16	831041210		1	GASKET, TURBO
17	831051020		1	MANIFOLD CASE, EXHAUST
18	831112871		1	MANIFOLD, INTAKE
19	831401100		1	MANIFOLD ASSEMBLY, EXHAUST
20	831521530		1	BRACKET, MANIFOLD
21	831521480		1	BRACKET, MANIFOLD
22	831521420		1	BRACKET, MANIFOLD
23	831521362		1	BRACKET, MANIFOLD
24	831691150		2	PLATE, MANIFOLD
25	831691170		1	PLATE, MANIFOLD
26	831691180		1	PLATE, MANIFOLD
27	831711401		1	GASKET, MANIFOLD
28	834401931		1	RISER, EXHAUST
29	837203360		1	AIR CLEANER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
30	835614470		1	PLATE, CAUTION
31	831043092		1	BRACKET, THROTTLE
32	839932830		1	HOLDER, CLIP
33	830115222		2	GASKET, END CAP
34	830234364		1	HOSE, COOLANT
35	830234365		1	HOSE, COOLANT
36	830234366		1	HOSE, COOLANT
37	830234378		1	HOSE, WATER
38	838108200		26	BOLT
39	839088252		8	BOLT, END COVER
40	839108402		2	BOLT, MANIFOLD
41	839108552		4	BOLT, MANIFOLD
42	839108952		4	BOLT, PIPE

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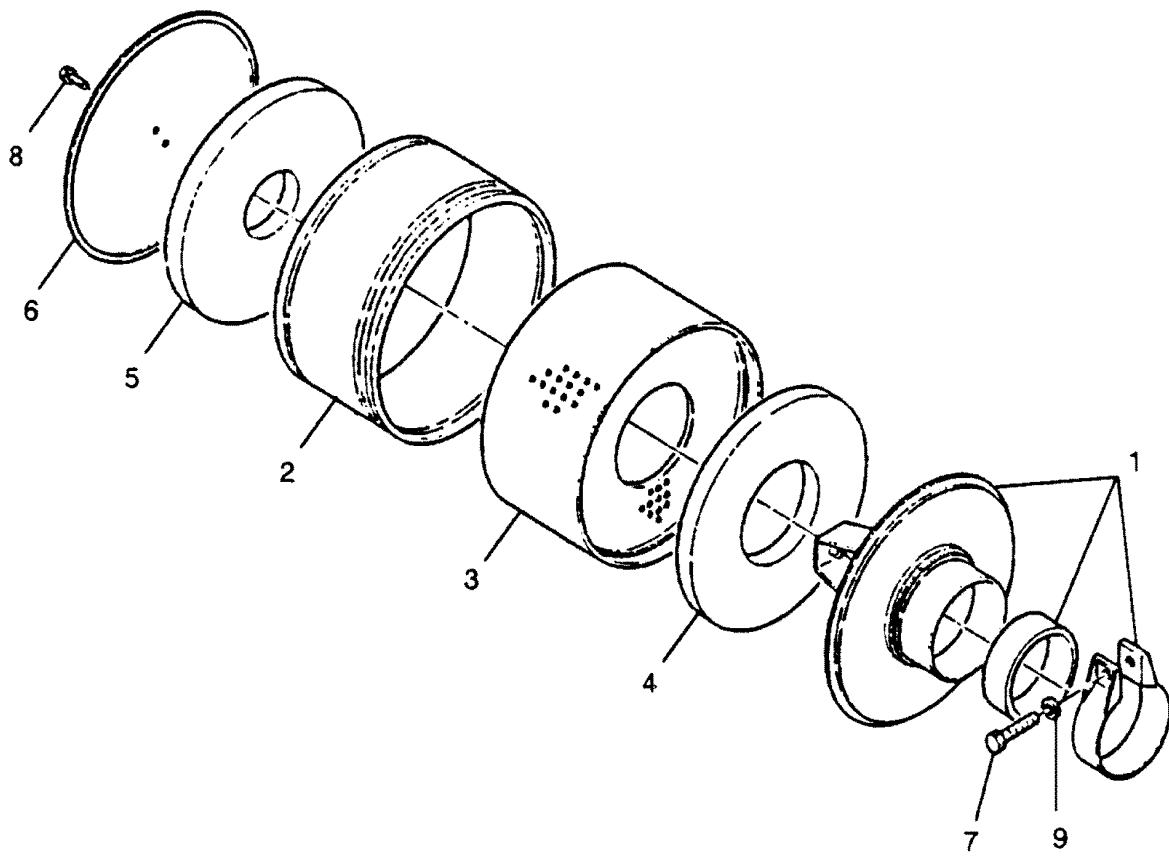
# INTAKE AND EXHAUST SYSTEM



## INTAKE AND EXHAUST SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
43	839908121		4	BOLT
44	830108070		4	NUT
45	830910142		7	NUT, TURBO
46	830910141		4	NUT, JAM
47	830910142		4	NUT, JAM
48	836010220		4	WASHER, FLAT
49	838008200		2	WASHER, LOCK
50	838010250		3	WASHER, LOCK
51	830108160		6	STUD
52	831906106		2	STUD
53	836910122		3	STUD
54	836910124		3	STUD
55	830110250		2	BOLT
56	831110252		2	BOLT, BRACKET
57	831110402		2	BOLT, BRACKET
58	831110202		2	BOLT, BRACKET
59	831210351		2	BOLT, BRACKET
60	831910105		2	BOLT, MANIFOLD
61	831910112		4	BOLT, MANIFOLD
62	831910118		4	BOLT
63	831910119		2	BOLT, BRACKET
64	831910132		2	BOLT, RISER
65	831912113		2	BOLT, BRACKET
66	830410110		1	PLUG
67	832217120		1	PLUG
68	832910115		1	PLUG
69	833930105		2	PLUG, CUP
70	833940104		3	PLUG, CUP
71	834404535		1	O-RING
72	835910105		1	WASHER, SEALING
73	836504220		1	CLAMP
74	836505020		1	CLAMP
75	836505220		2	CLAMP
76	836505520		4	CLAMP
77	835135102		1	O-RING
NS	831041150		1	GASKET, EXHAUST RISER

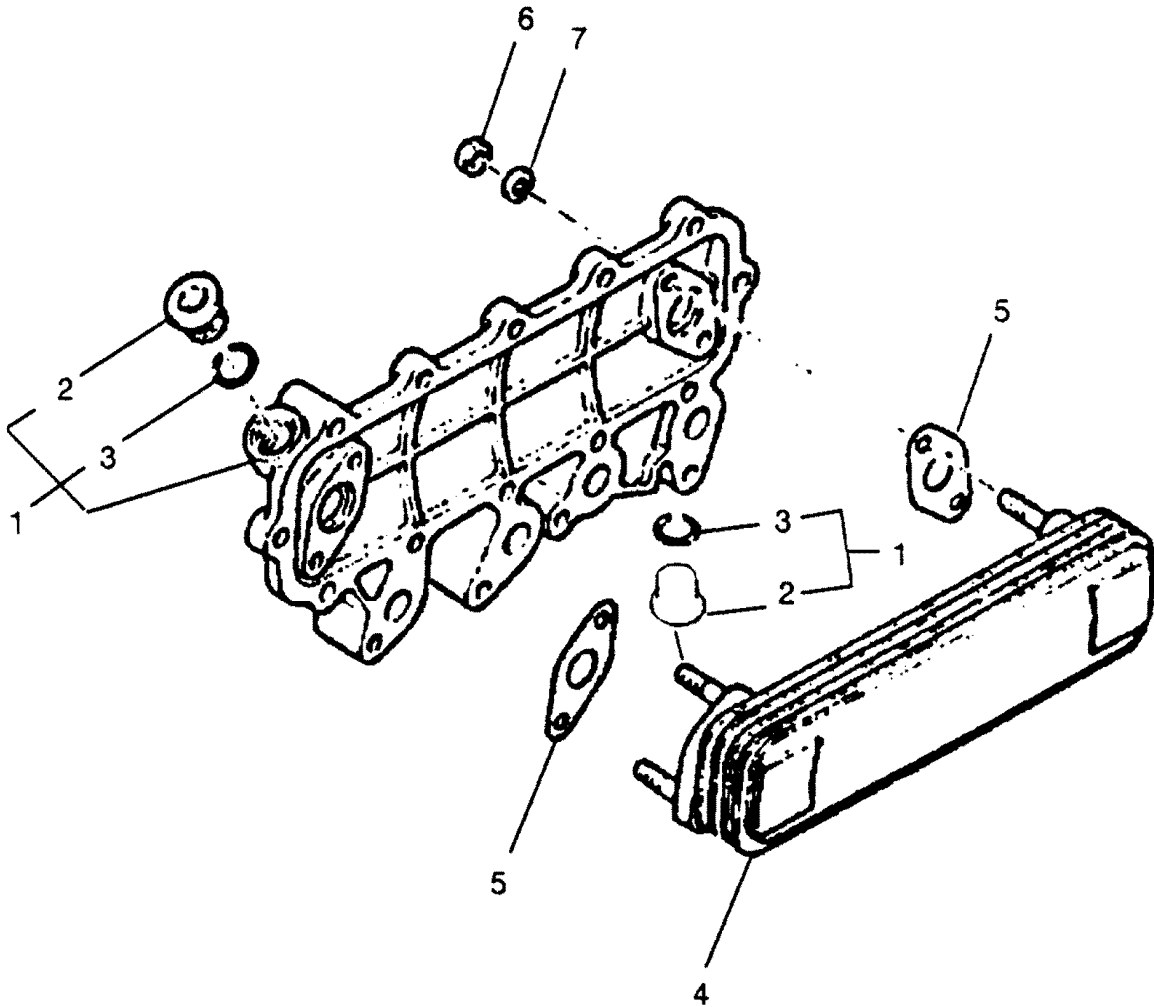
# AIR CLEANER (P/N 177203360)



## AIR CLEANER (P/N 177203360)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837013440		1	BODY ASSEMBLY
2	838012450		1	ELEMENT
3	837013110		1	BODY
4	838111230		1	GASKET
5	838111240		1	GASKET
6	837141280		1	COVER
7	833008450		1	BOLT, CLAMP
8	839006161		1	BOLT, COVER
9	838008200		1	WASHER, LOCK

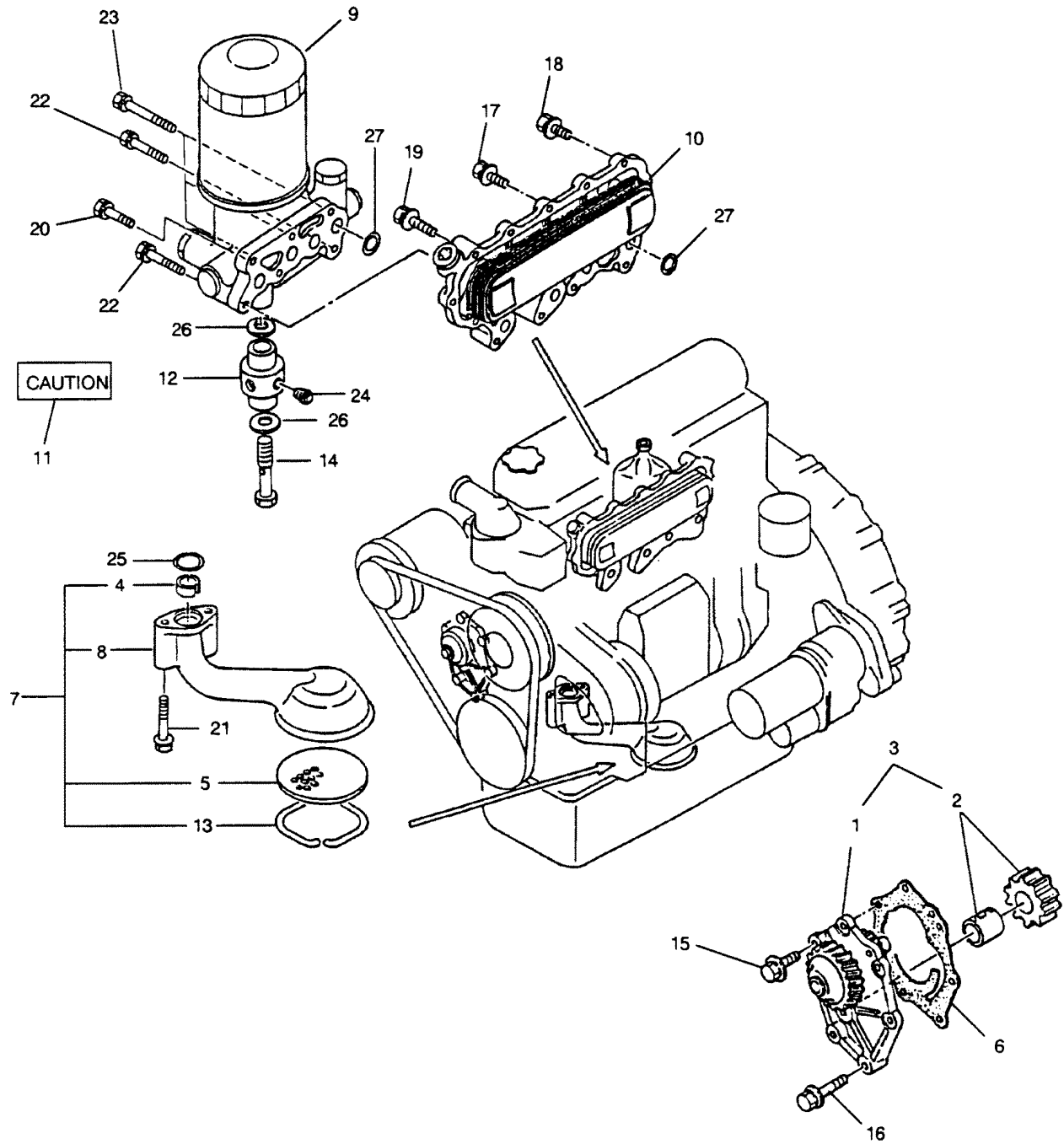
# OIL COOLER (P/N 157101680)



## OIL COOLER (P/N 157101680)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837011190		1	CASE ASSEMBLY
2	830920102		2	PLUG
3	835118111		2	O-RING
4	837121470		1	ELEMENT
5	837171160		2	GASKET, ELEMENT
6	830908137		4	NUT
7	838008200		4	WASHER, LOCK

# LUBRICATING SYSTEM

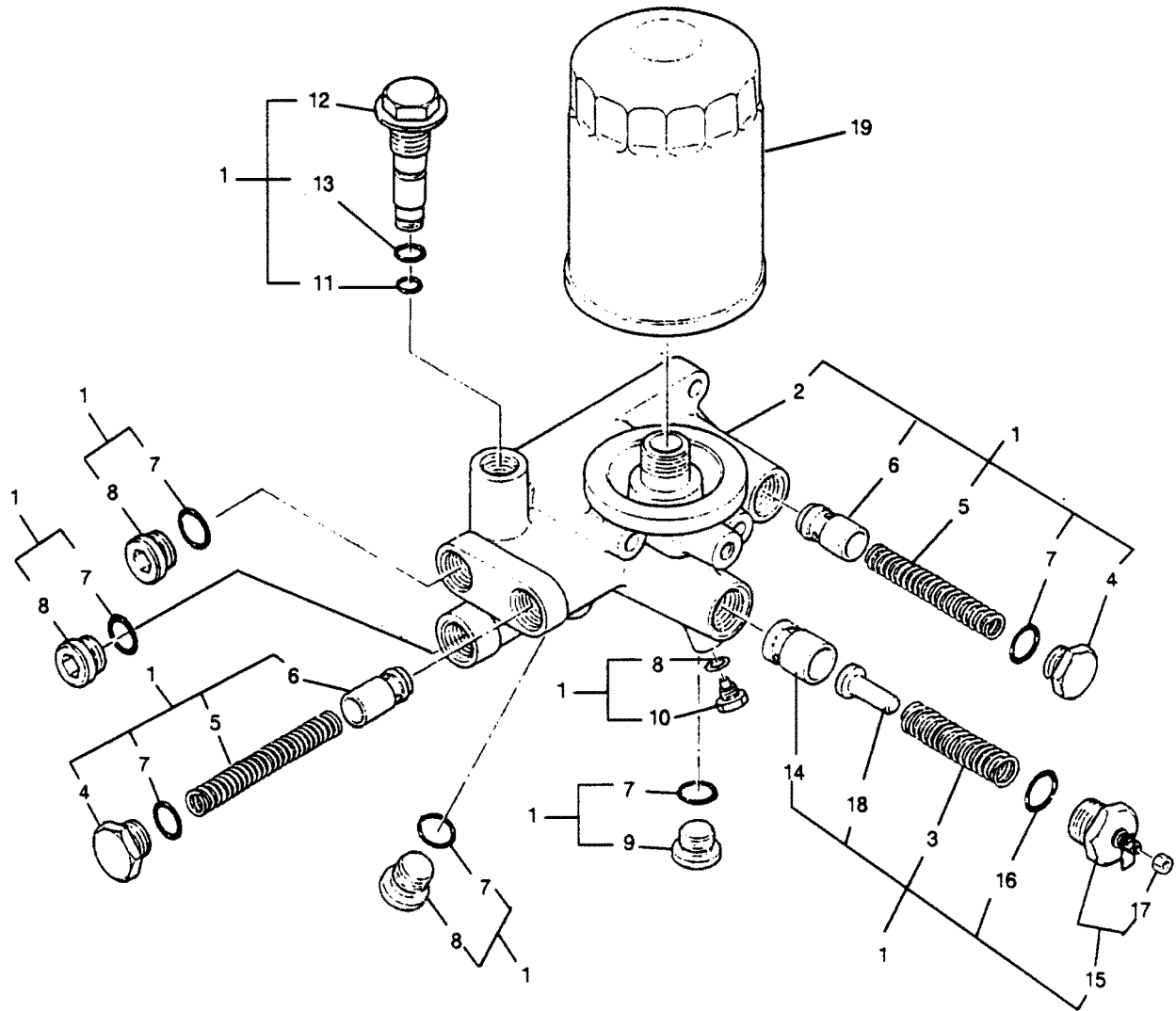




# LUBRICATING SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	830121221		1	COVER, OIL PUMP
2	831071250		1	COVER ASSEMBLY, OIL PUMP
3	831101521		1	PUMP ASSEMBLY, OIL
4	831141050		1	GUIDE, O-RING
5	831161071		1	SCREEN, STRAINER
6	831191121		1	GASKET, OIL PUMP
7	831401390		1	STRAINER ASSEMBLY
8	831411230		1	STRAINER
9	836003490		1	BASE ASSEMBLY, OIL FILTER (FOR INDIVIDUAL COMPONENTS, SEE SEPARATE SECTION)
10	837101680		1	COOLER ASSEMBLY, OIL (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
11	835818181		1	PLATE, CAUTION
12	830235130		1	CONNECTOR, PIPE
13	830875111		1	RING, RETAINING
14	831914237		1	BOLT, BANJO
15	838108200		5	BOLT, OIL PUMP
16	838108350		2	BOLT, OIL PUMP
17	838208300		3	BOLT, OIL COOLER
18	839108251		5	BOLT
19	839108401		2	BOLT
20	839108602		1	BOLT
21	839108651		2	BOLT, STRAINER
22	919108852		2	BOLT
23	839908115		3	BOLT
24	832910115		3	PLUG
25	834402135		1	O-RING, STRAINER
26	835914110		3	WASHER, SEALING
27	835119101		8	O-RING

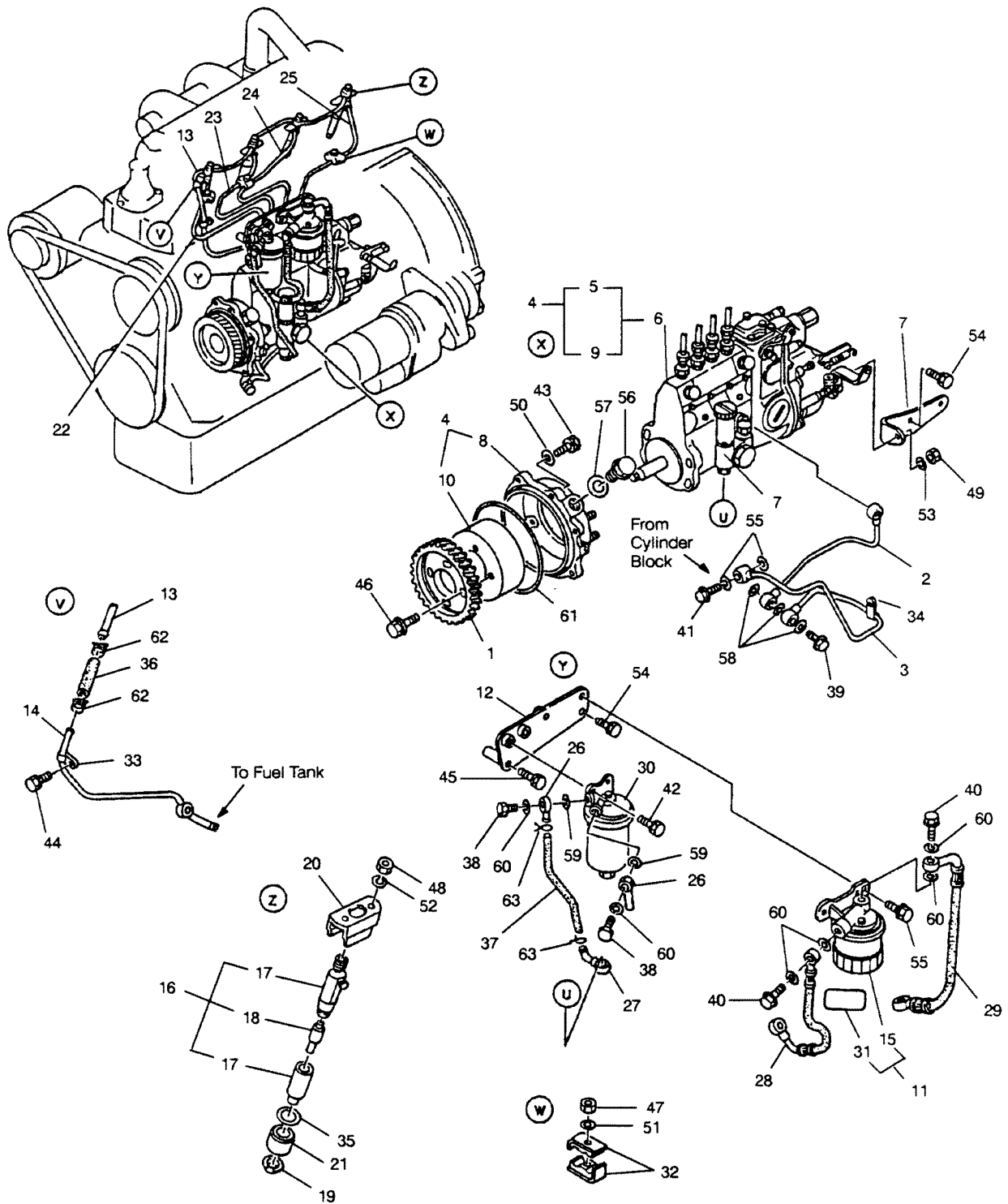
# OIL FILTER BASE ASSEMBLY (P/N 156003490)



## 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
3	836611160		1	SPRING, OIL VALVE
4	837161050		2	PLUG
5	836611250		2	SPRING, OIL VALVE
6	836241200		2	VALVE, SAFETY
7	835118111		6	O-RING
8	835108101		1	O-RING
9	830920102		4	PLUG
10	836431020		1	PLUG, FILTER DRAIN
11	835110111		1	O-RING
12	836431140		1	PLUG
13	835112116		1	O-RING
14	836241040		1	VALVE, SAFETY
15	836601020		1	SWITCH, FILTER BY-PASS
16	835120107		1	O-RING
17	830004030		1	NUT
18	836041020		1	VALVE, SAFETY
19	836071630		1	FILTER, OIL - SPIN-ON

# FUEL SYSTEM

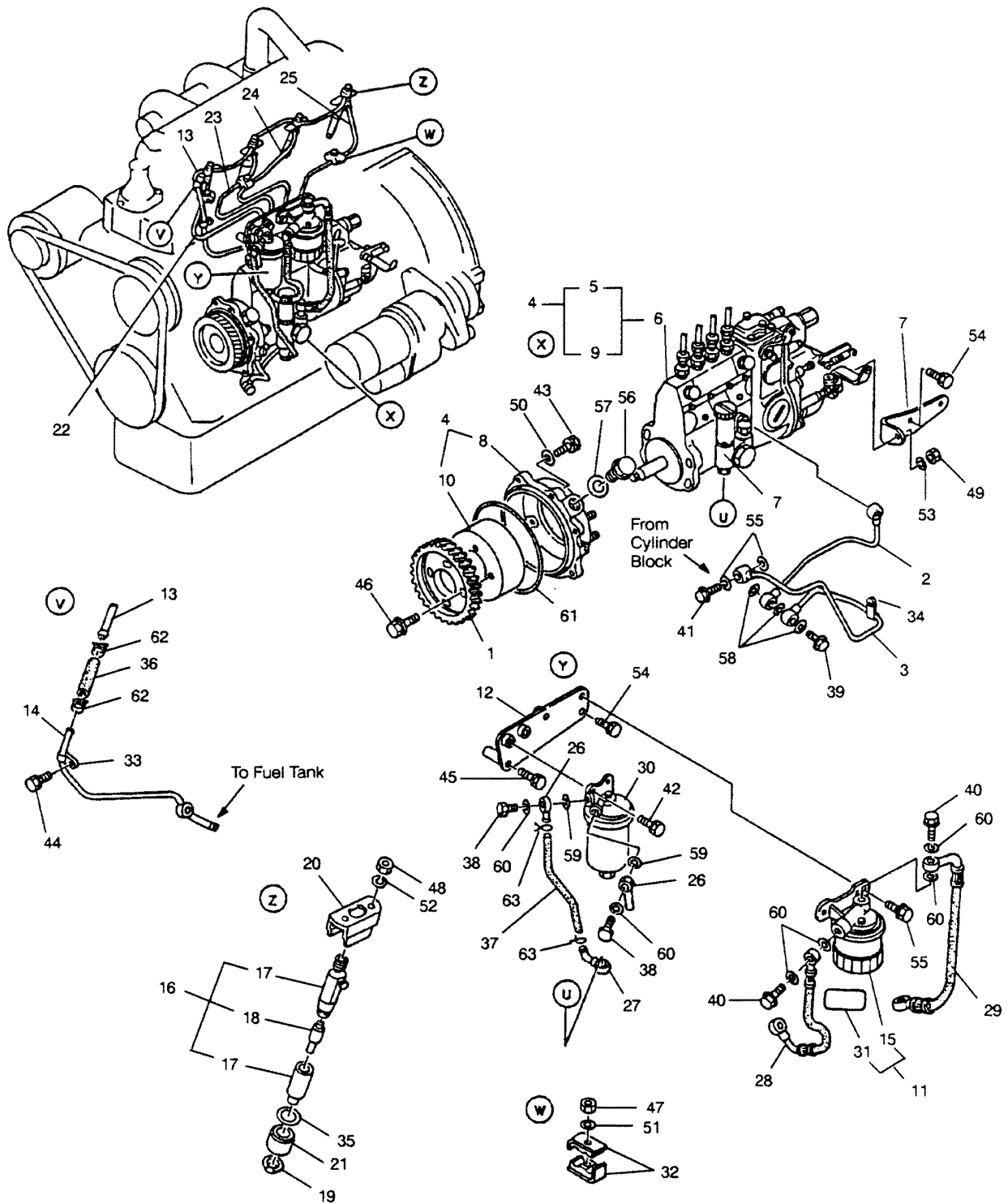


# FUEL SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836131280		1	GEAR DRIVE
2	837731480		1	PIPE, OIL
3	837731371		1	PIPE, OIL
4	830202810		1	PUMP ASSEMBLY COMPLETE, INJECTION
7	833432060		1	BRACKET, PUMP
8	835011020		1	COVER, TIMER
9	835601630		1	PUMP ASSEMBLY, FUEL FEED
10	836111630		1	FLANGE, COUPLING
11	830101183		1	BASE ASSEMBLY, FUEL FILTER
12	830311210		1	BRACKET
13	830812020		1	PIPE, FUEL RETURN
14	830831331		1	PIPE, FUEL FEED
15	833001812		1	BASE & FILTER ASSEMBLY, FUEL
16	836001780		4	NOZZLE & HOLDER SET
17	836201630		4	HOLDER, INJECTION NOZZLE <b>(FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)</b>
18	836401560		4	NOZZLE, INJECTOR
19	836611140		4	GASKET, NOZZLE - COPPER
20	836651110		4	ADAPTER, NOZZLE
21	836671070		4	RING, PACKING - RUBBER
22	837111610		1	PIPE, INJECTOR - #1
23	837121600		1	PIPE, INJECTOR - #2
24	837131540		1	PIPE, INJECTOR - #3
25	837141570		1	PIPE, INJECTOR - #4
26	837811620		2	PIPE, FUEL
27	837811981		1	PIPE, FUEL
28	838061610		1	HOSE, FUEL
29	838063030		1	HOSE, FUEL
30	838031080		1	SEPARATOR ASSEMBLY, WATER <b>(FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)</b>
31	835816020		1	PLATE, CAUTION
32	839041930		6	CLIP, PIPE
33	839042230		1	CLIP, PIPE
34	839041170		1	CLIP, PIPE
35	830111145		4	SHIM, NOZZLE
36	830231118		1	HOSE, FUEL
37	830562139		1	TUBE
38	831913101		2	BOLT, BANJO
39	832910189		1	BOLT, BANJO
40	832914137		2	BOLT, BANJO
41	832910235		1	BOLT, BANJO
42	839108301		2	BOLT
43	839108351		3	BOLT
44	839108451		1	BOLT

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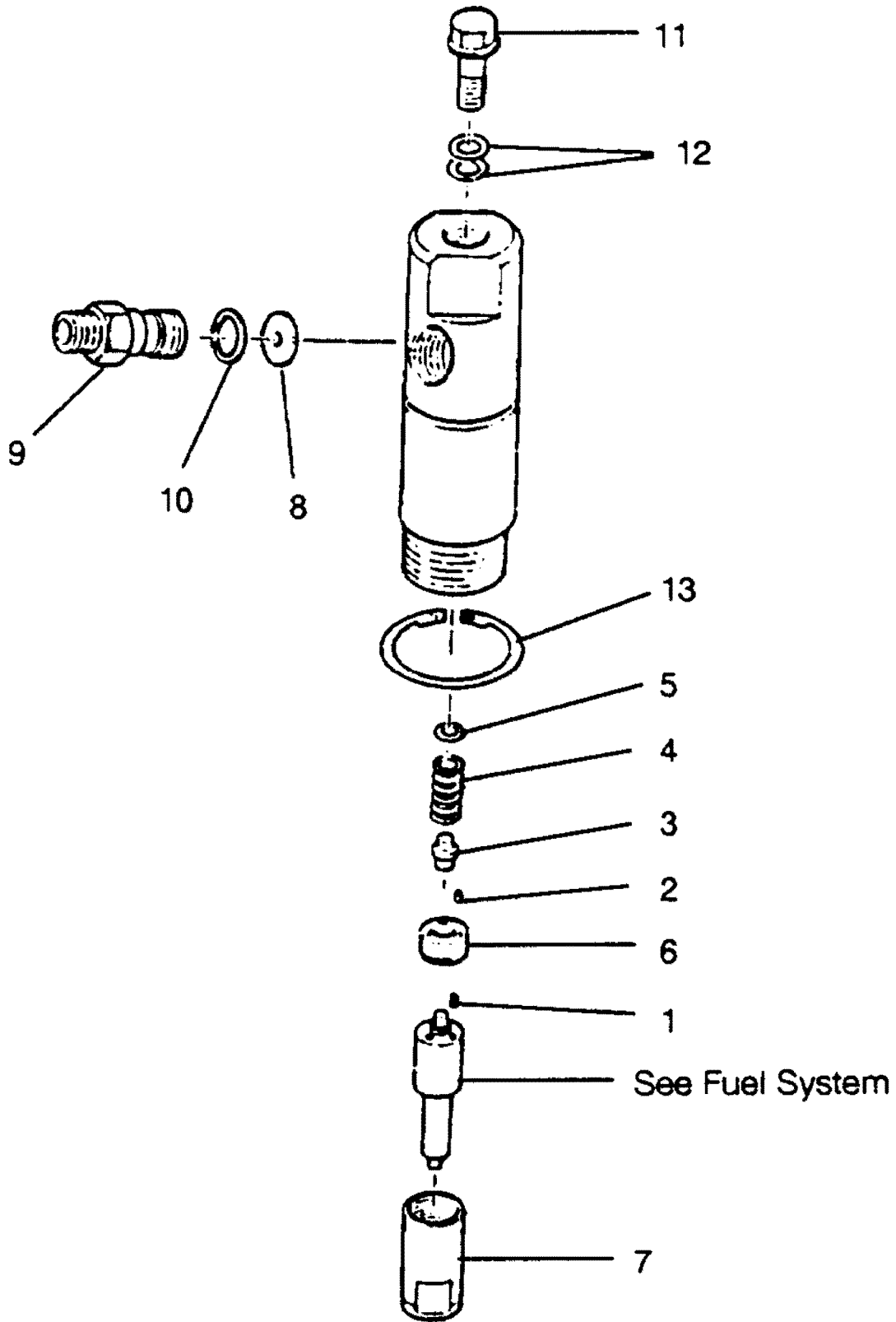
# FUEL SYSTEM



# FUEL SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
45	839908113		1	BOLT
46	839908143		4	BOLT
47	830106050		3	NUT
48	830108070		8	NUT
49	830110080		1	NUT
50	836208220		1	WASHER, FLAT
51	838006150		3	WASHER, LOCK
52	838008200		8	WASHER, LOCK
53	838010250		1	WASHER, LOCK
54	830110250		3	BOLT
55	831110351		2	BOLT
56	831922102		1	PLUG
57	835422150		1	WASHER, SEALING
58	835910105		5	WASHER, SEALING
59	835913110		2	WASHER, SEALING
60	835914104		6	WASHER, SEALING
61	835101125		1	O-RING
62	835410105		2	CLIP
63	835415104		2	CLIP

# INJECTOR NOZZLE (P/N 236201630)

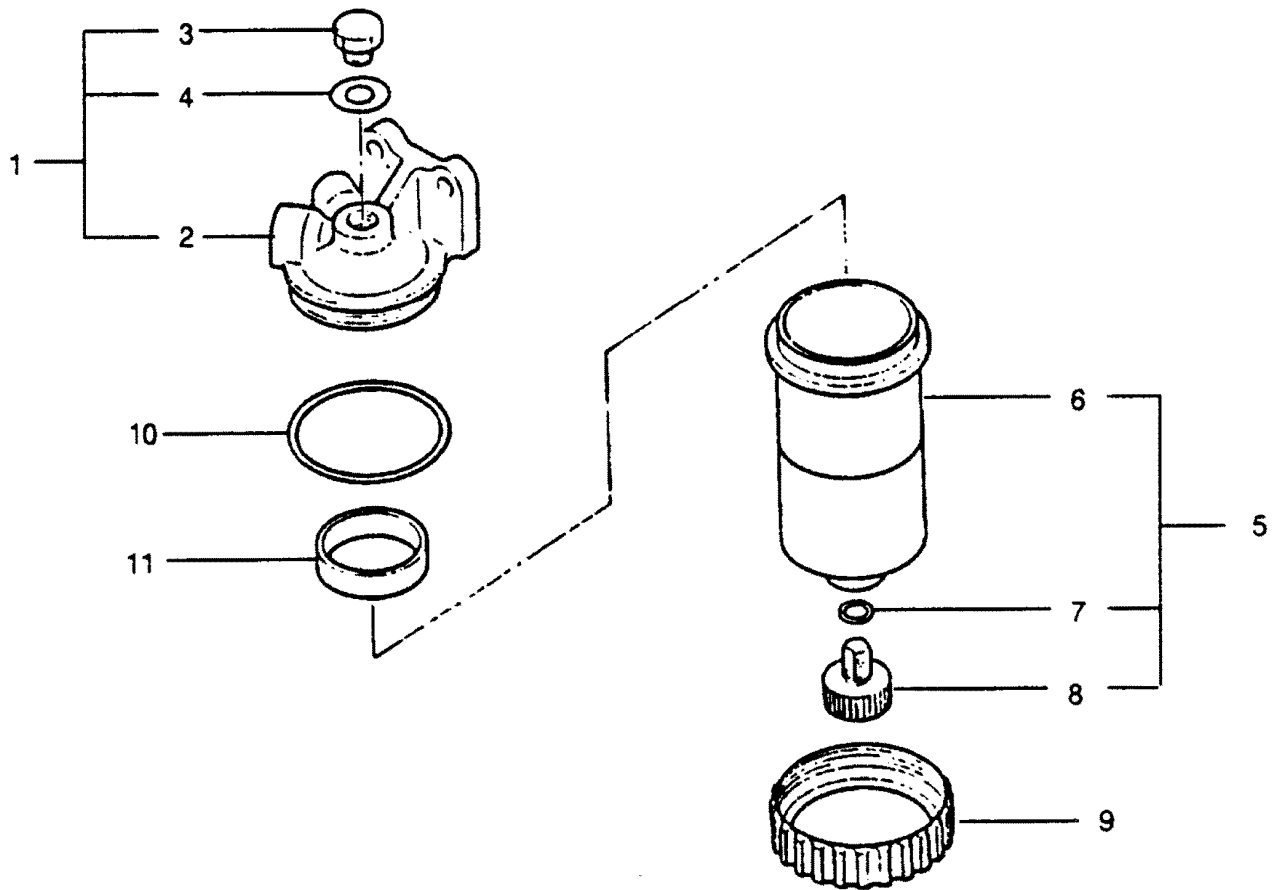




## INJECTOR NOZZLE (P/N 236201630)

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
6	836171560		1	DISTANCE PIECE
7	836221230		1	NUT, NOZZLE
8	836211080		1	GASKET
9	836111221		1	CONNECTOR, INLET
10	836671090		1	RING, PACKING
11	838311410		1	BOLT, BANJO
12	838431870		2	GASKET
13	838831080		1	RING, RETAINER

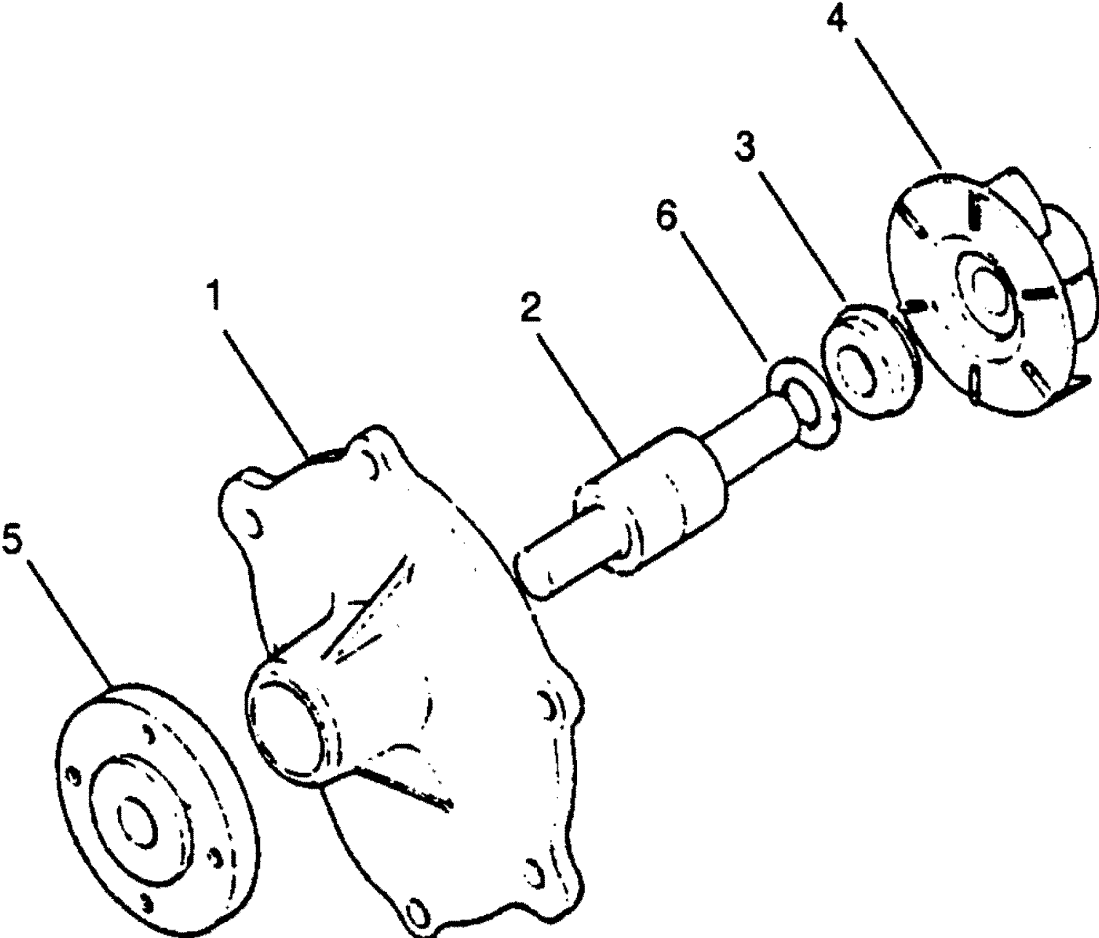
# WATER SEPARATOR (P/N 448031080)



## WATER SEPARATOR (P/N 448031080)

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

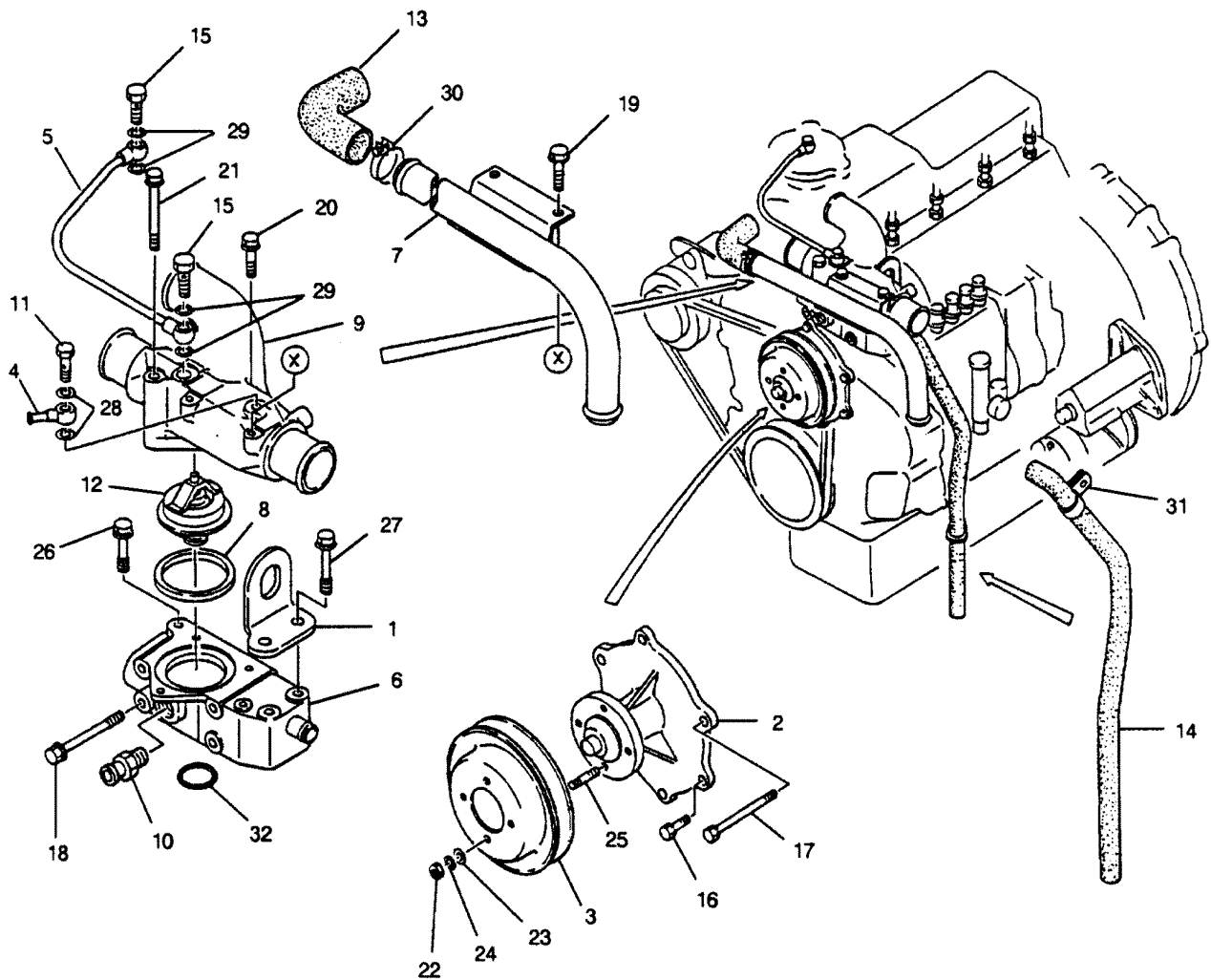
# COOLANT PUMP (P/N 161002342)



## COOLANT PUMP (P/N 161002342)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831111592		1	CASE
2	831091101		1	SHAFT
3	831041180		1	SEAL
4	831311340		1	VANE
5	831711021		1	CENTER, PULLEY
6	831471020		1	SLINGER

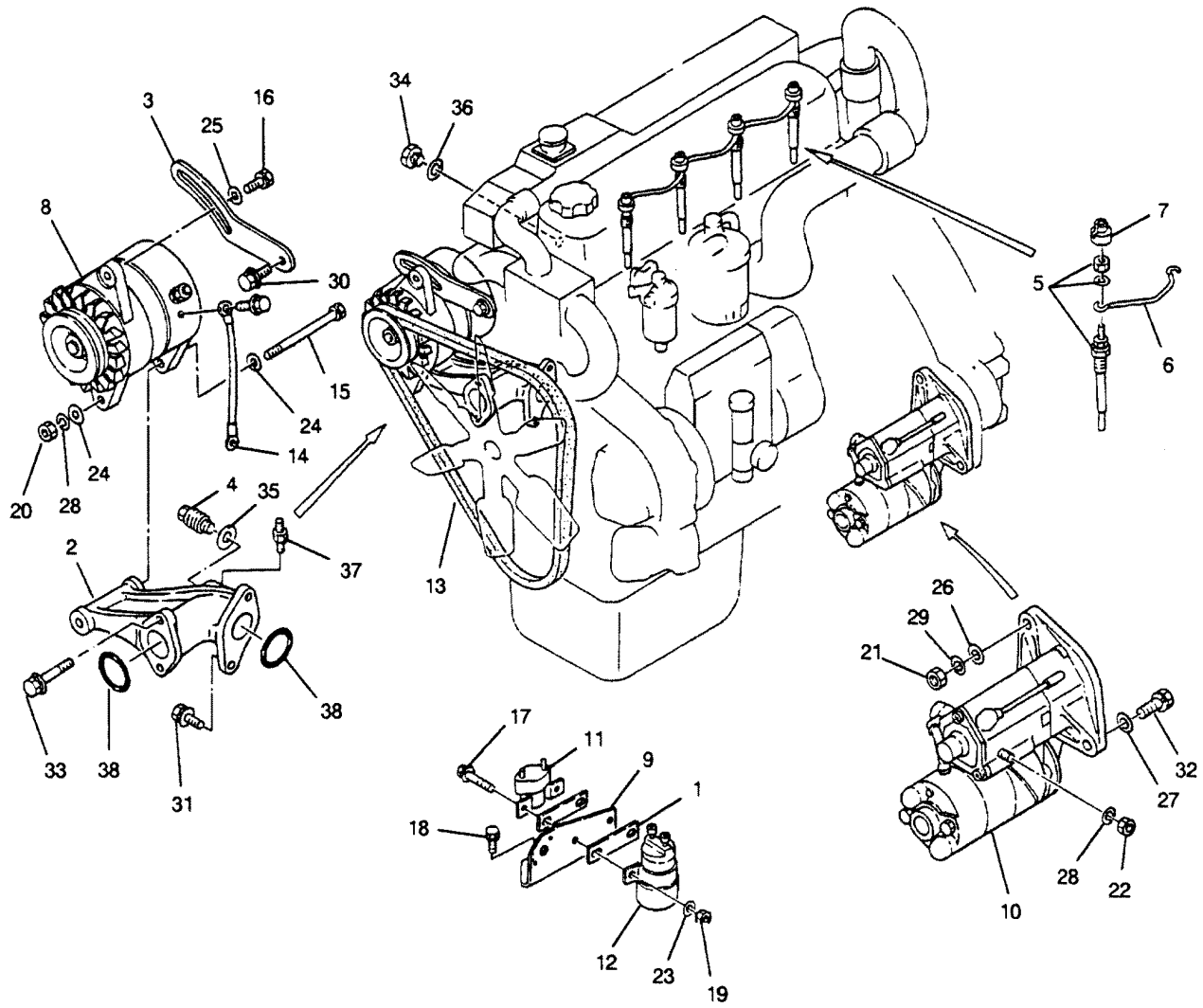
# COOLING SYSTEM



# COOLING SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	832811340		1	HANGER, ENGINE
2	831002342		1	PUMP, COOLANT
3	831732110		1	PULLEY, PUMP
4	832681900		1	PIPE, BANJO
5	832812190		1	PIPE
6	833011162		1	CASE, THERMOSTAT
7	833032341		1	MANIFOLD, COOLANT
8	833251280		1	GASKET, THERMOSTAT
9	833331621		1	MANIFOLD, COOLANT
10	833211020		1	JOINT
11	830124303		1	BOLT, BANJO
12	830146177		1	THERMOSTAT
13	830234376		1	HOSE, COOLANT
14	830236195		1	HOSE, CRANKCASE VENT
15	832912187		2	BOLT, BANJO
16	838108200		4	BOLT
17	838108950		2	BOLT
18	838108850		4	BOLT
19	839108161		2	BOLT
20	839108252		2	BOLT
21	839108851		1	BOLT
22	830106050		4	NUT
23	836006140		4	WASHER, FLAT
24	838006150		4	WASHER, LOCK
25	831106120		4	STUD
26	830110700		4	BOLT
27	831110801		2	BOLT
28	835420150		2	WASHER, SEALING
29	835912111		4	WASHER, SEALING
30	836504220		2	CLAMP
31	836926107		1	CLAMP
32	835131112		2	O-RING

# ELECTRICAL PARTS

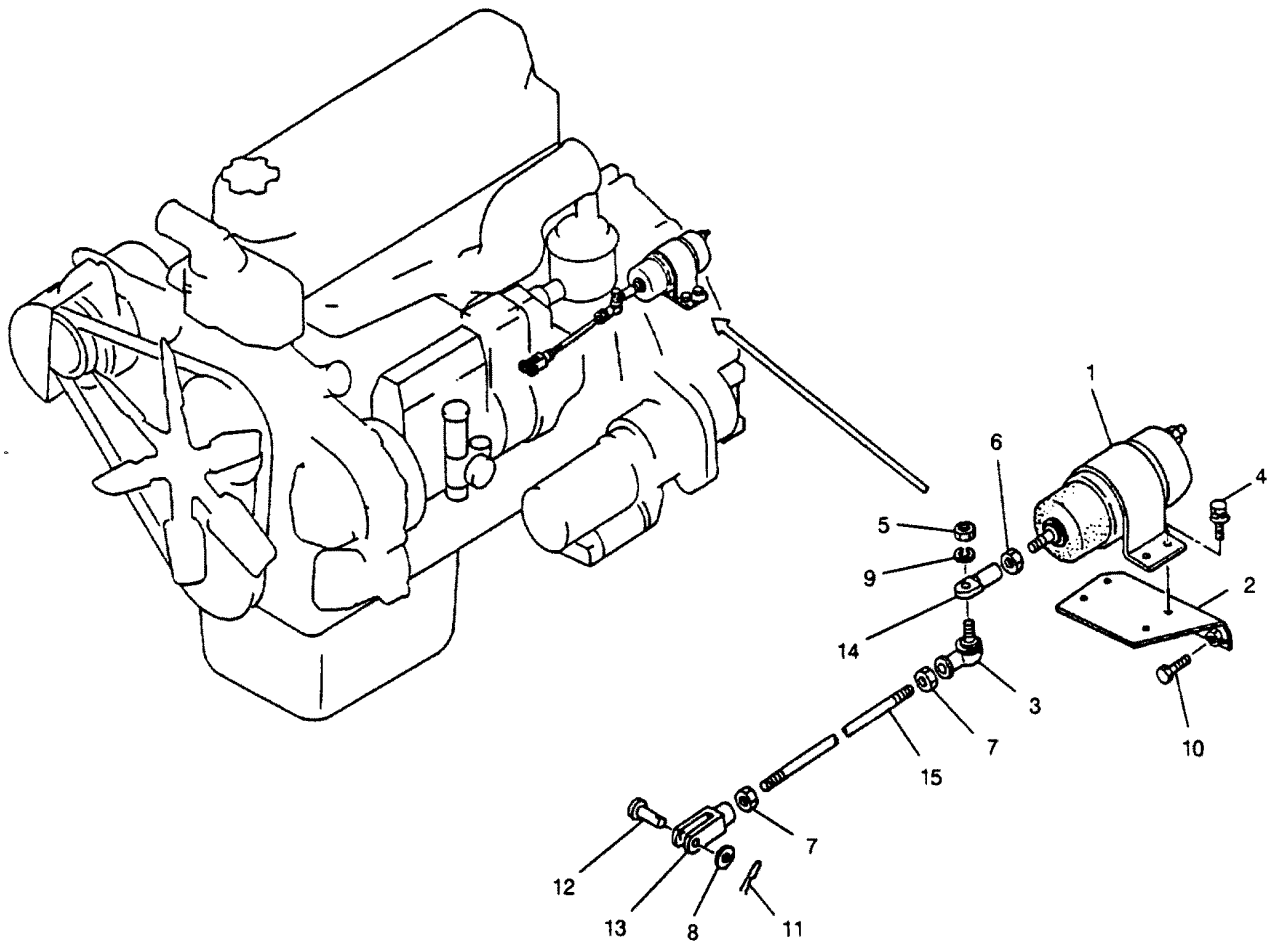




# ELECTRICAL PARTS

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	834551130		2	PLATE
2	835081530		1	BRACKET, ALTERNATOR
3	835122000		1	BRACE, ALTERNATOR
4	831811170		1	VALVE, COOLANT
5	831101160		4	GLOW PLUG ASSEMBLY
6	831121151		3	WIRE, GROUND
7	831131050		4	INSULATOR, GLOW PLUG
8	830401300		1	ALTERNATOR ASSEMBLY
9	836911330		1	BRACKET
10	831001561		1	STARTER ASSEMBLY
11	834101220		1	RELAY, STARTER
12	836201250		1	RELAY, GLOW PLUG
13	830149105		1	BELT, ALTERNATOR
14	830803105		1	STRAP, GROUND
15	831910115		1	BOLT, ALTERNATOR PIVOT
16	838110300		1	BOLT, ADJUST
17	839106202		2	BOLT
18	839108202		2	BOLT
19	830106050		2	NUT
20	830110080		1	NUT
21	830114110		1	NUT
22	830910141		1	NUT
23	836006140		2	WASHER, FLAT
24	836010180		2	WASHER, FLAT
25	836010330		1	WASHER, FLAT
26	836014270		1	WASHER, FLAT
27	836212270		1	WASHER, FLAT
28	838010250		2	WASHER, LOCK
29	838014350		1	WASHER, LOCK
30	830112200		1	BOLT
31	830110300		2	BOLT
32	830912119		1	BOLT
33	831110701		2	BOLT
34	830912102		1	PLUG
35	835113103		1	O-RING
36	835412100		1	WASHER, SEALING
37	832715200		1	CONNECTOR
38	835144112		1	O-RING
NS	F733459		1	HARNESS, ENGINE WIRING PORT
	F733460		1	HARNESS, ENGINE WIRING STARBOARD

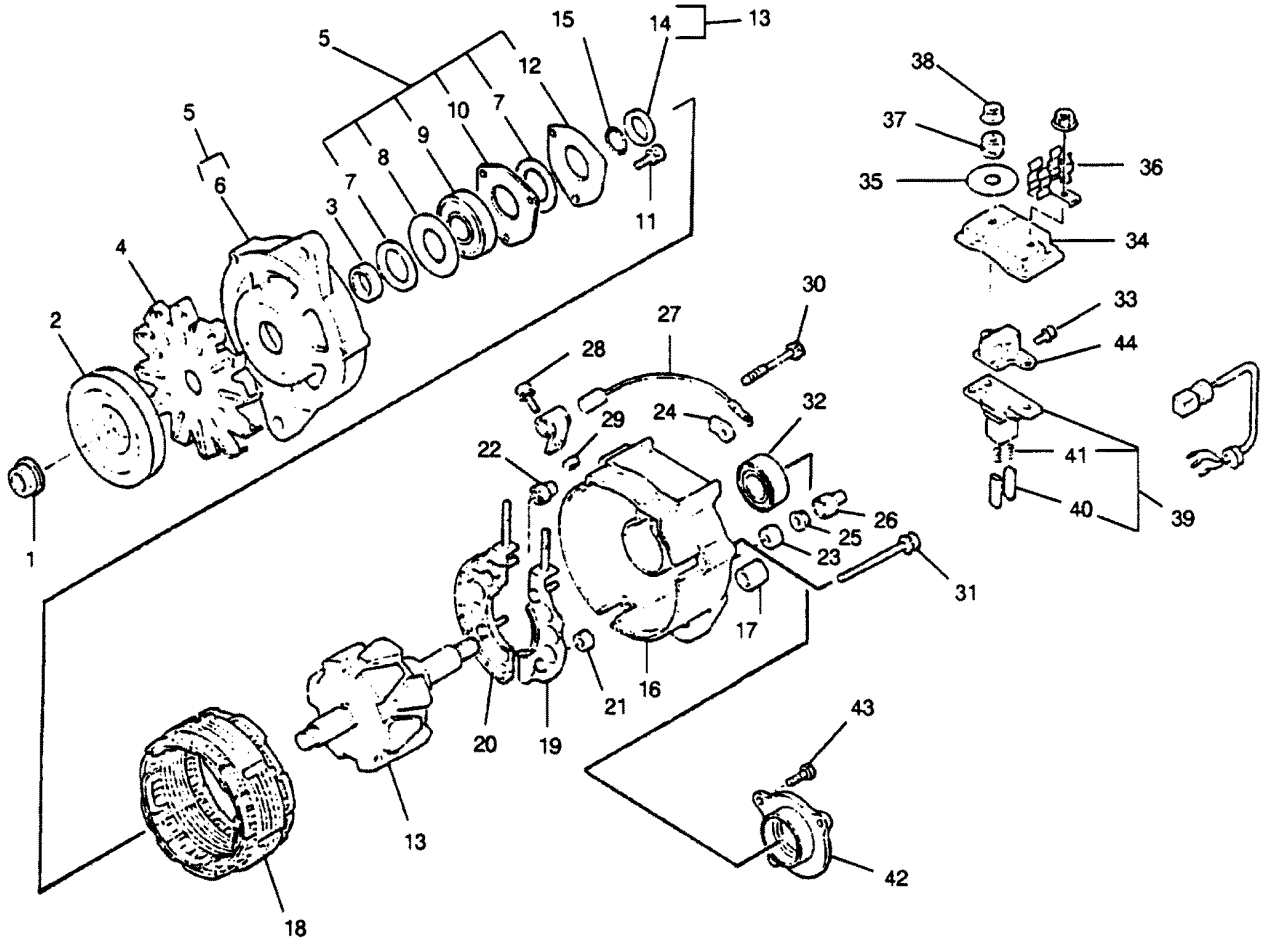
# STOP SOLENOID



# STOP SOLENOID

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836801080		1	SOLENOID, ENGINE STOP
2	836911211		1	BRACKET, SOLENOID
3	832501020		1	JOINT, ROD
4	839106202		4	BOLT
5	830006050		1	NUT
6	830906125		1	NUT
7	831006040		2	NUT, LOCK
8	836006120		1	WASHER, FLAT
9	838006150		1	WASHER, LOCK
10	831210301		2	BOLT
11	830016120		1	PIN, COTTER
12	831006170		1	PIN, CLEVIS
13	835106200		1	CLEVIS
14	835906123		1	CLEVIS
15	836030300		1	ROD, LINK

# ALTERNATOR (P/N 270401300)

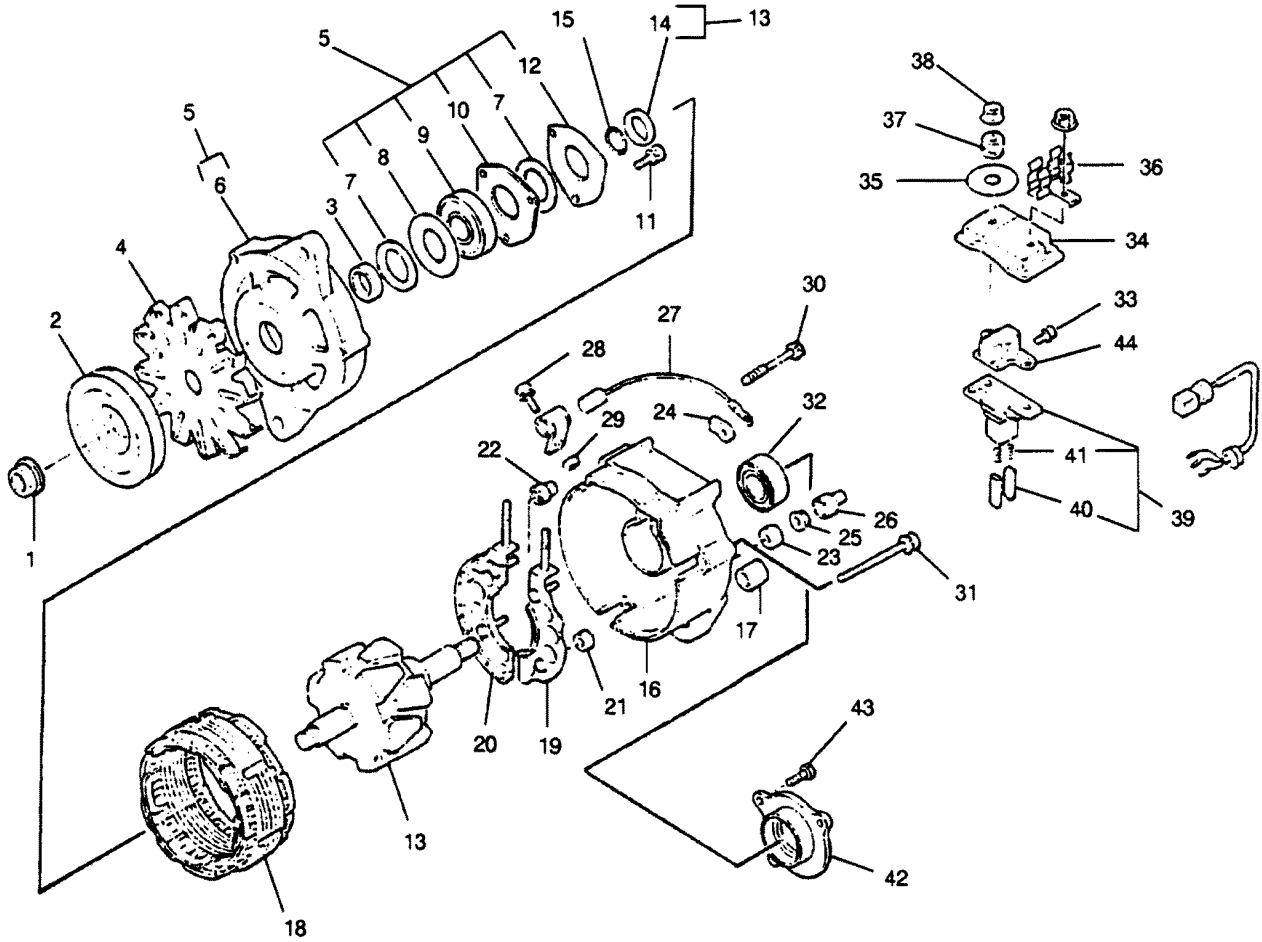


## ALTERNATOR (P/N 270401300)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833911030		1	NUT, PULLEY
2	834311360		1	PULLEY
3	834121140		1	COLLAR
4	834411150		1	FAN
5	833101470		1	FRAME ASSEMBLY, DRIVE END
6	833111410		1	FRAME, DRIVE END
7	833151180		2	FELT
8	833151190		1	FELT
9	838120122		1	BEARING
10	833121510		1	PLATE, RETAINER
11	833621090		3	BOLT
12	833151210		1	FELT
13	833301600		1	ROTOR ASSEMBLY
14	834121150		1	COLLAR
15	833331030		1	RING, SPACER
16	833501880		1	HOUSING ASSEMBLY
17	833511060		1	BUSHING
18	834101710		1	STATOR
19	833561240		1	RECTIFIER
20	833531370		1	HOLDER
21	833871100		2	INSULATOR
22	833871090		2	INSULATOR
23	833871080		1	INSULATOR
24	833871140		1	INSULATOR
25	830105040		4	NUT, TERMINAL
26	833871190		2	INSULATOR
27	833541020		1	CONDENSER
28	838005120		1	BOLT
29	831006040		1	NUT
30	833171480		2	BOLT
31	833171490		1	BOLT
32	830063023		1	BEARING
33	838304082		4	BOLT
34	833881150		1	COVER
35	833871200		1	INSULATOR
36	834451170		1	CLAMP
37	833871120		1	INSULATOR
38	830105040		3	NUT
39	833761040		1	HOLDER ASSEMBLY W/BRUSHES

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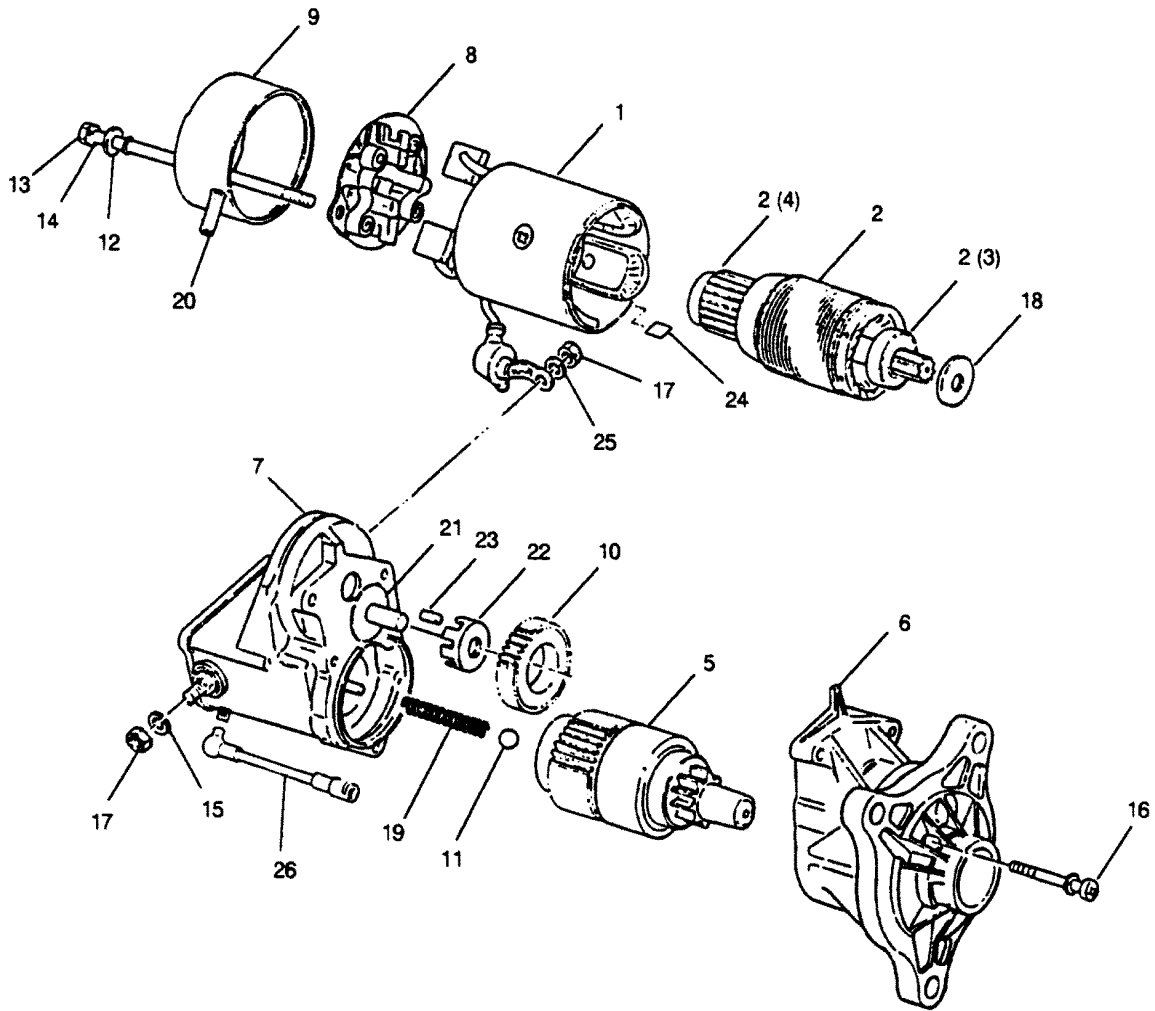
# ALTERNATOR (P/N 270401300)



## ALTERNATOR (P/N 270401300)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
40	833711160		2	BRUSH
41	833721120		2	SPRING, BRUSH
42	833521060		1	COVER, BRUSH
43	833006201		3	SCREW
44	837001610		1	REGULATOR ASSEMBLY

# STARTER (P/N 281001561)

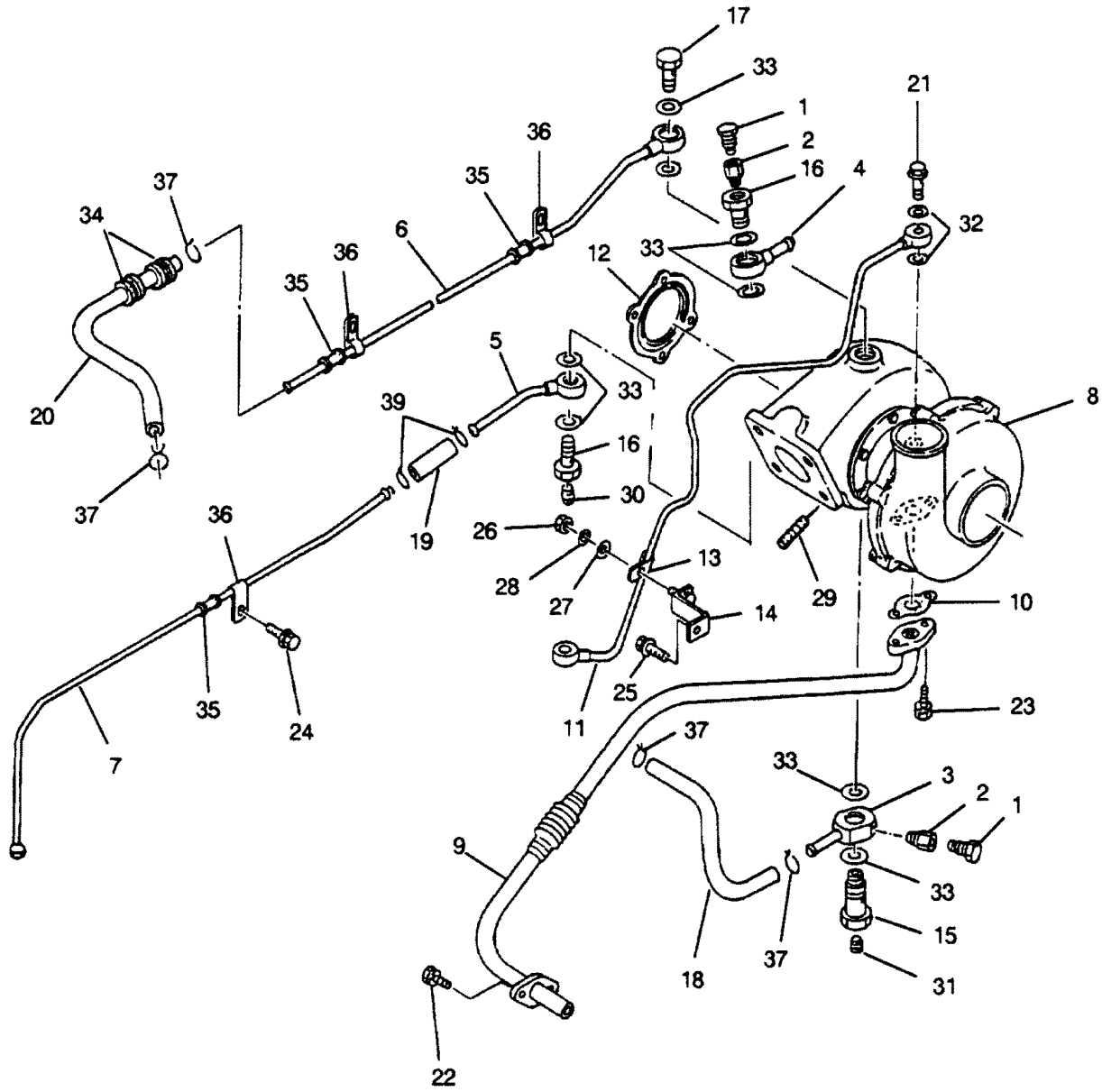




## STARTER (P/N 281001561)

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, STARTER DRIVE
6	831151530		1	HOUSING
7	831501640		1	SOLENOID, STARTER
8	831401220		1	HOLDER, BRUSH
9	831301320		1	FRAME ASSEMBLY
10	832501040		1	PINION
11	832621090		1	HOLDER
12	832191100		2	WASHER
13	831121590		2	BOLT, HOUSING
14	832191110		5	WASHER
15	832191120		1	WASHER
16	831121600		3	BOLT, HOUSING
17	831010060		2	NUT
18	831371080		1	FELT, OIL
19	832361030		1	SPRING, SOLENOID
20	831541090		1	BOOT, SOLENOID
21	831681280		1	RING, RETAINER
22	831681290		1	RING, RETAINER
23	832261020		5	ROLLER, CLUTCH
24	832661280		1	PLATE
25	832191130		1	WASHER
26	831391160		1	LEADWIRE
NS	F733936		1	BOOT, INSULATING

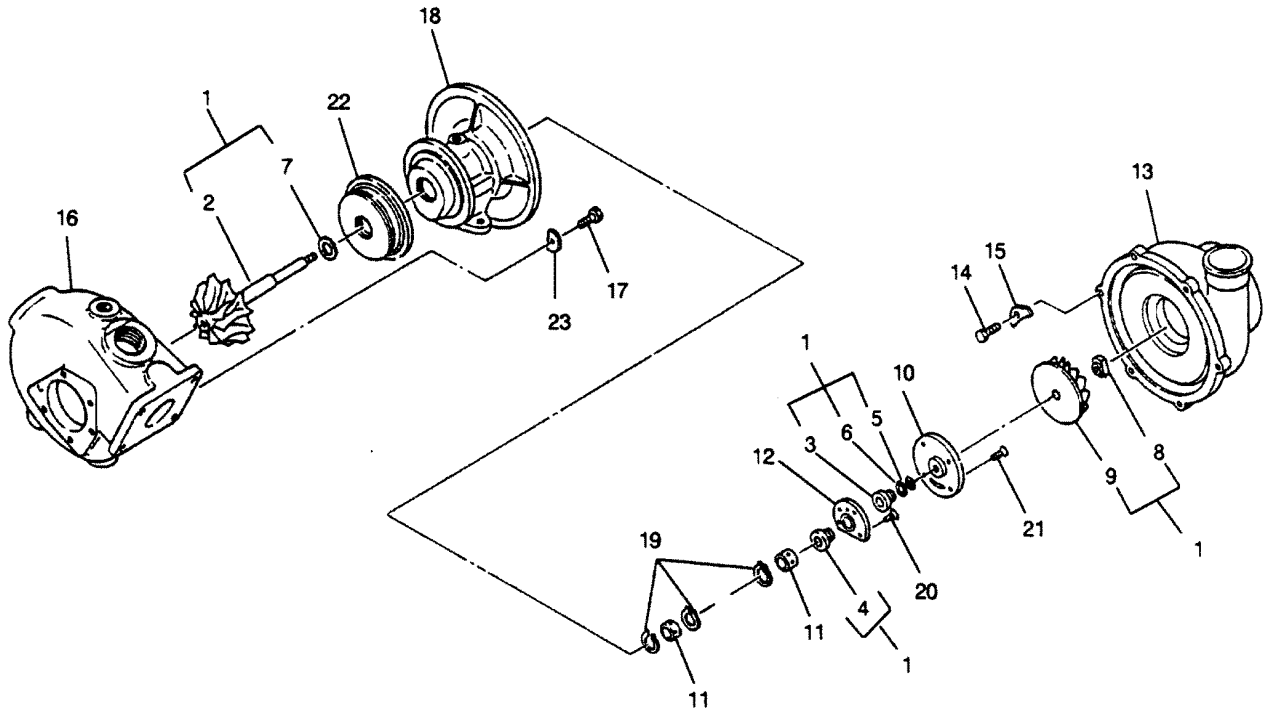
# TURBOCHARGER SYSTEM



# TURBOCHARGER SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831851110		2	BODY, VENT VALVE
2	831881020		2	SEAT, VALVE
3	832681960		1	PIPE, COOLANT
4	832681900		1	PIPE, COOLANT
5	832681990		1	PIPE, COOLANT
6	832682000		1	PIPE, COOLANT
7	832681890		1	PIPE, COOLANT
8	241001350		1	TURBOCHARGER ASSEMBLY
9	831071231		1	PIPE, OIL OUTLET
10	831351080		1	GASKET
11	831711830		1	PIPE, OIL INLET
12	831791170		1	GASKET, TURBO
13	839041290		1	CLIP
14	839932650		1	HOLDER, CLIP
15	830124344		1	BOLT, BANJO
16	830124329		1	BOLT, BANJO
17	830124303		1	BOLT, BANJO
18	830154248		1	HOSE, COOLANT
19	830154134		1	HOSE, JOINER
20	830154148		1	HOSE, COOLANT
21	832910261		1	BOLT, BANJO
22	838108200		2	BOLT
23	839106202		2	BOLT
24	839108162		1	BOLT
25	839108301		1	BOLT
26	830108070		1	NUT
27	836008180		1	WASHER, FLAT
28	838008200		1	WASHER, LOCK
29	831108250		1	STUD, TURBO
30	832610050		1	PLUG
31	832613060		1	PLUG
32	835410100		2	WASHER, SEALING
33	835420150		8	WASHER, SEALING
34	837225161		2	GROMMET
35	837915107		3	GROMMET
36	836920111		3	CLAMP
37	835424102		6	CLAMP

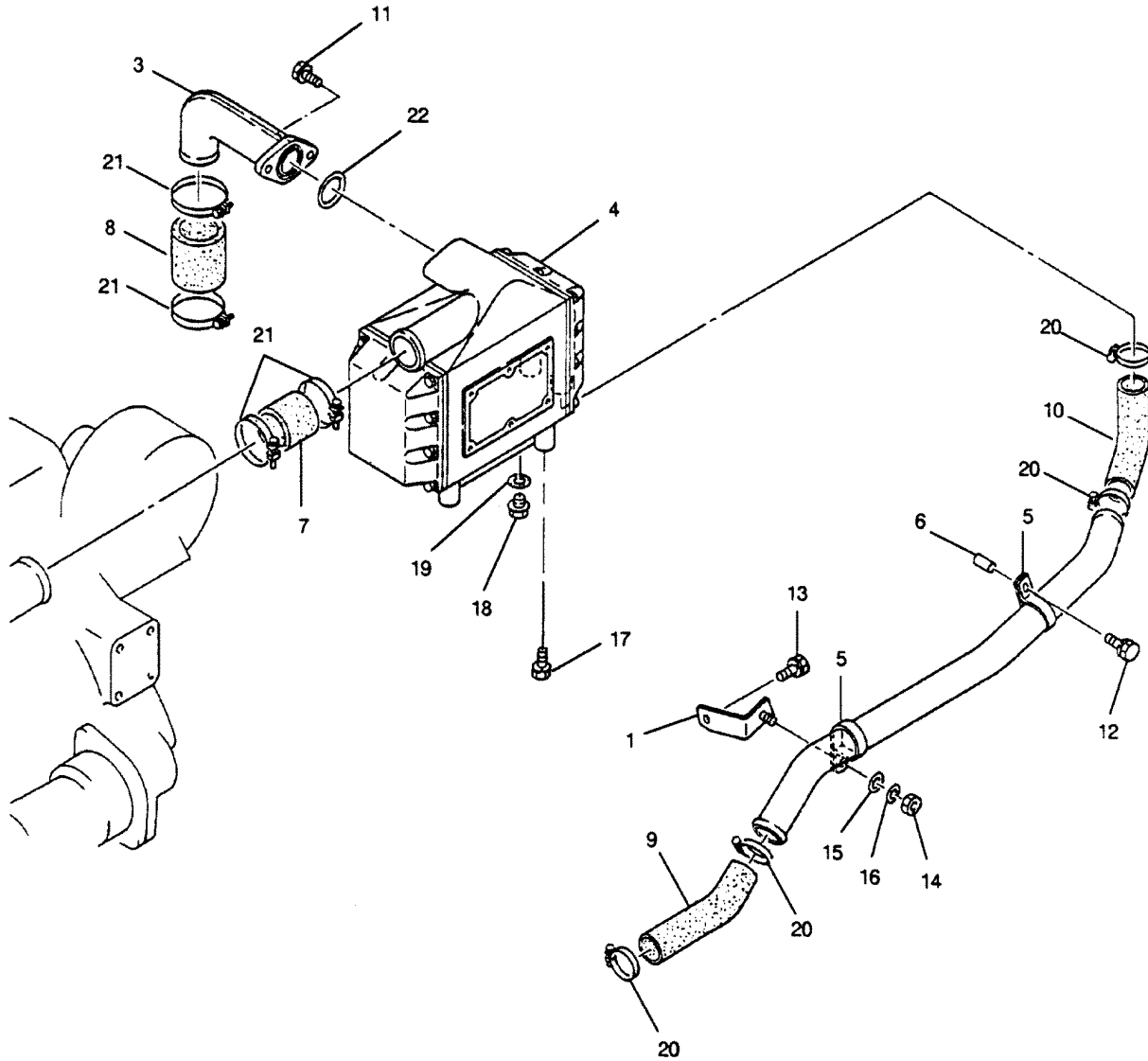
# TURBOCHARGER (P/N 241001350)



## TURBOCHARGER (P/N 241001350)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831501140		1	ROTOR ASSEMBLY
2	831151320		1	ROTOR
3	831161080		1	THROWER, OIL
4	831221080		1	BUSHING
5	831241200		1	SEAL, RING
6	831241190		1	SEAL, RING
7	831241270		1	SEAL, RING
8	831171250		1	NUT
9	831181200		1	IMPELLER, BLOWER
10	831271160		1	PLATE, BACK
11	831311160		2	BEARING
12	831431140		1	BEARING, THRUST
13	831141130		1	CASE, BLOWER
14	831451240		6	BOLT
15	831231220		6	PLATE
16	831111440		1	CASE, TURBINE
17	831451190		6	BOLT
18	831211260		1	CASE, BEARING
19	831321110		3	RING, NOZZLE
20	831361120		4	SCREW
21	831361130		3	SCREW
22	831411140		1	PROTECTOR, HEAT
23	831231270		6	PLATE

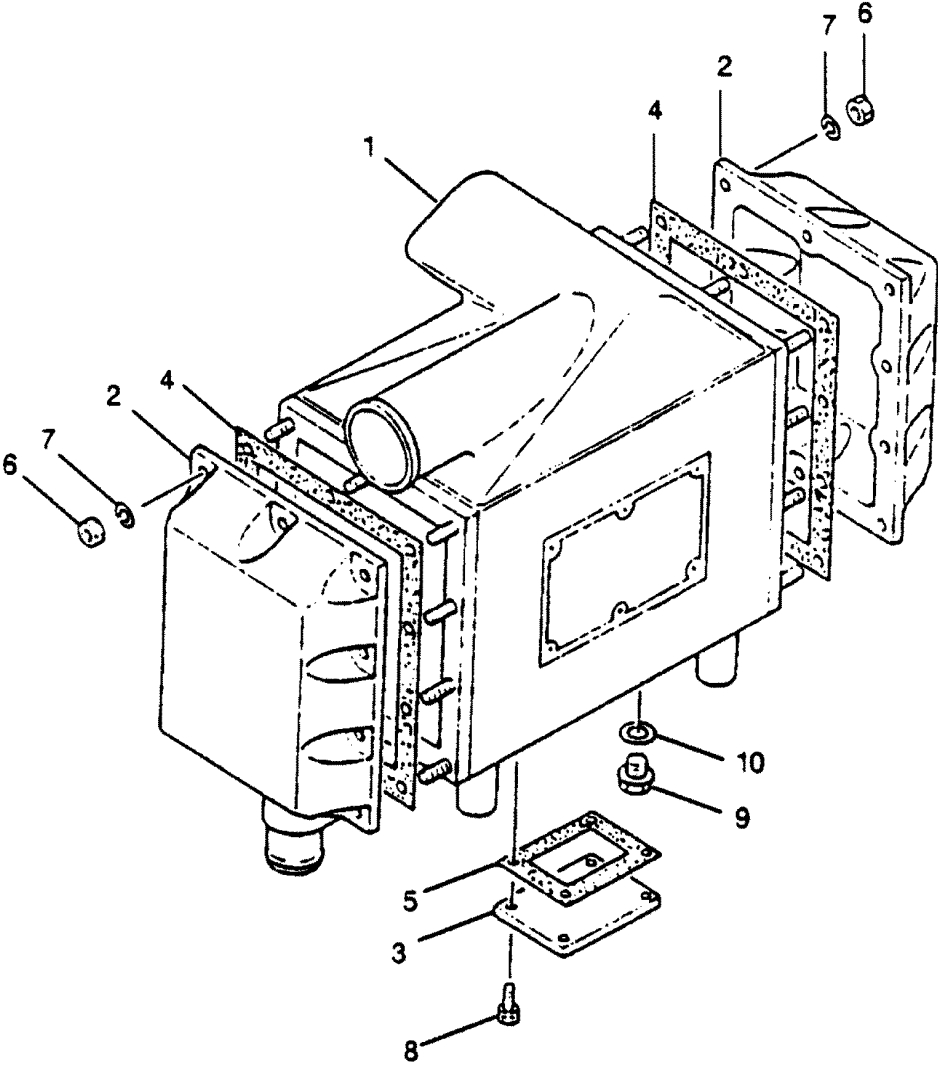
# INTERCOOLER SYSTEM



# INTERCOOLER SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	832691140		1	BRACKET
2	834999982		1	PIPE, WATER
3	831133470		1	PIPE, INTAKE
4	833001190		1	INTERCOOLER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
5	839042660		2	CLIP
6	830116160		1	SPACER
7	830233363		1	HOSE, AIR
8	830233437		1	HOSE, AIR
9	830234371		1	HOSE, WATER
10	830234430		1	HOSE, WATER
11	839108251		2	BOLT
12	839108501		1	BOLT
13	839108162		1	BOLT
14	830108070		1	NUT
15	836008180		1	WASHER, FLAT
16	838008200		1	WASHER, LOCK
17	830110350		4	BOLT
18	834999994		1	PLUG, DRAIN
19	835408180		1	WASHER, SEALING
20	836504820		4	CLAMP
21	836975103		4	CLAMP
22	835154101		1	O-RING

# INTERCOOLER (P/N 243001190)

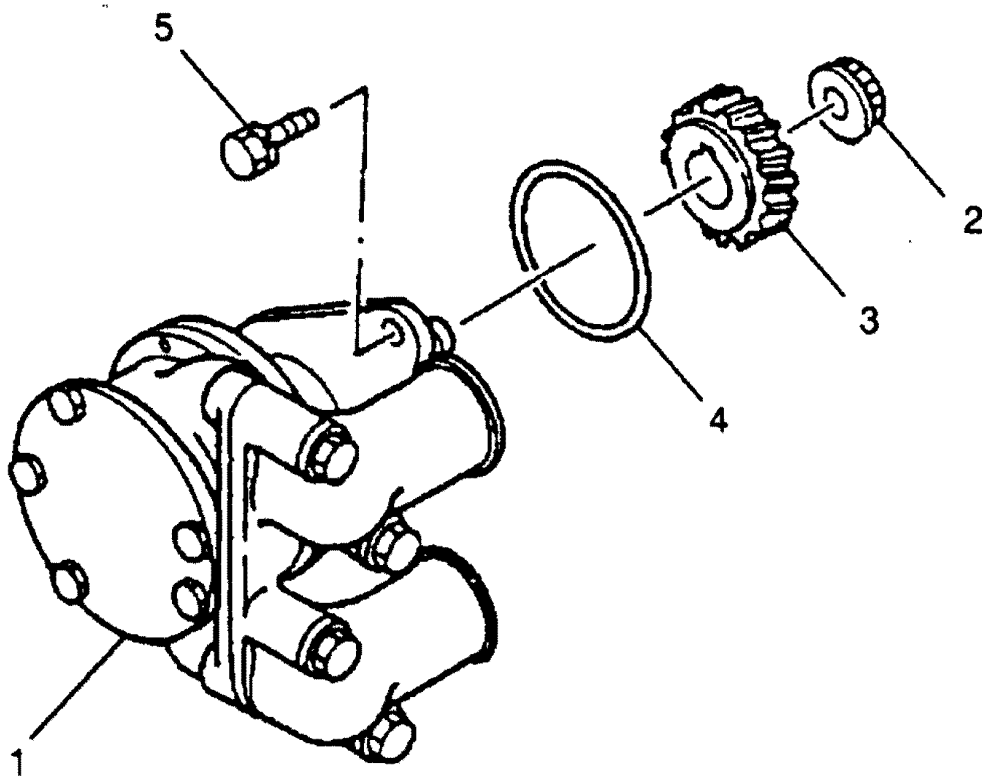




## INTERCOOLER (P/N 243001190)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833041060		1	CORE ASSEMBLY
2	833051030		2	TANK
3	833171010		1	PLATE, INSPECTION
4	833141040		2	GASKET
5	833141050		1	GASKET
6	830108070		20	NUT
7	838008200		20	WASHER, LOCK
8	838106200		4	BOLT
9	834999994		1	PLUG, DRAIN
10	835908104		1	WASHER, SEALING

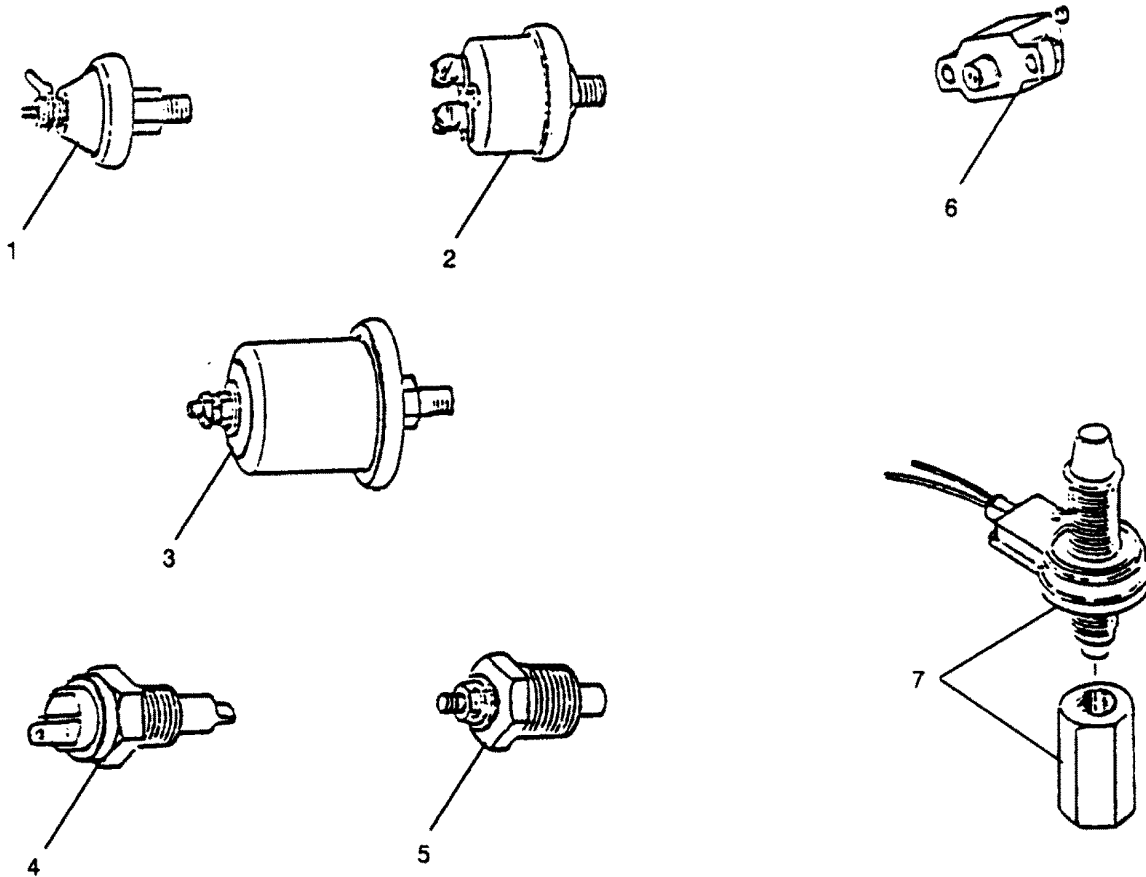
# RAW WATER PUMP (P/N 161003010)



## RAW WATER PUMP (P/N 161003010)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831003010		1	PUMP ASSEMBLY, COMPLETE
2	832661090		1	NUT, GEAR
3	833511110		1	GEAR, DRIVE
4	835160104		1	O-RING
5	830110250		2	BOLT
NS	831311510		1	IMPELLER, PUMP
	831191410		1	GASKET, END COVER

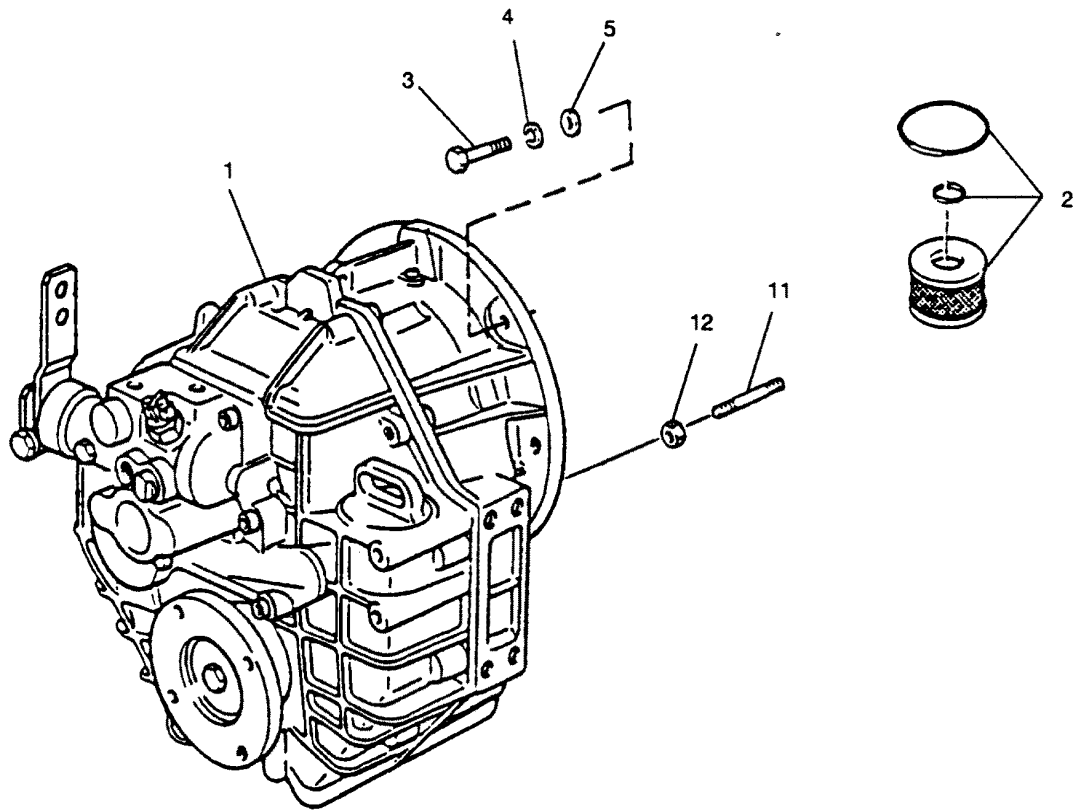
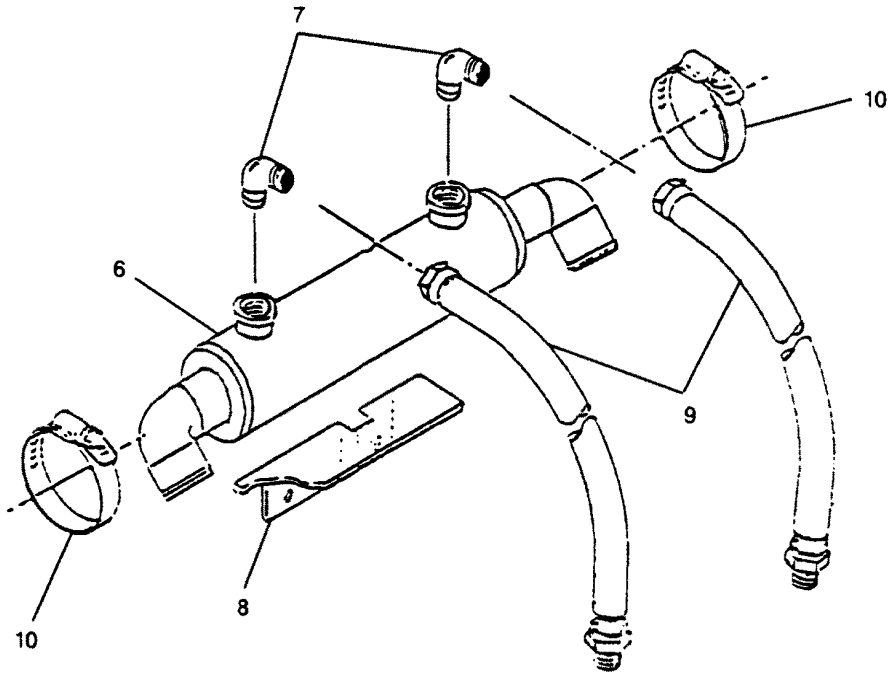
# ELECTRICAL SWITCHES AND SENDERS



## ELECTRICAL SWITCHES AND SENDERS

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F700602		1	SWITCH, OIL PRESSURE ALARM
2	F708433		1	SWITCH, OIL PRESSURE - CIRCUIT INTERRUPT
3	F708432		1	SENDER, OIL PRESSURE - DUAL
4	F700935		1	SWITCH, ALARM - COOLANT TEMPERATURE
5	F733431		1	SENDER, COOLANT TEMPERATURE
6	F639460		1	CIRCUIT BREAKER, 40 AMP
7	F733458		1	SENDER, TACHOMETER - W/DRIVE PIN

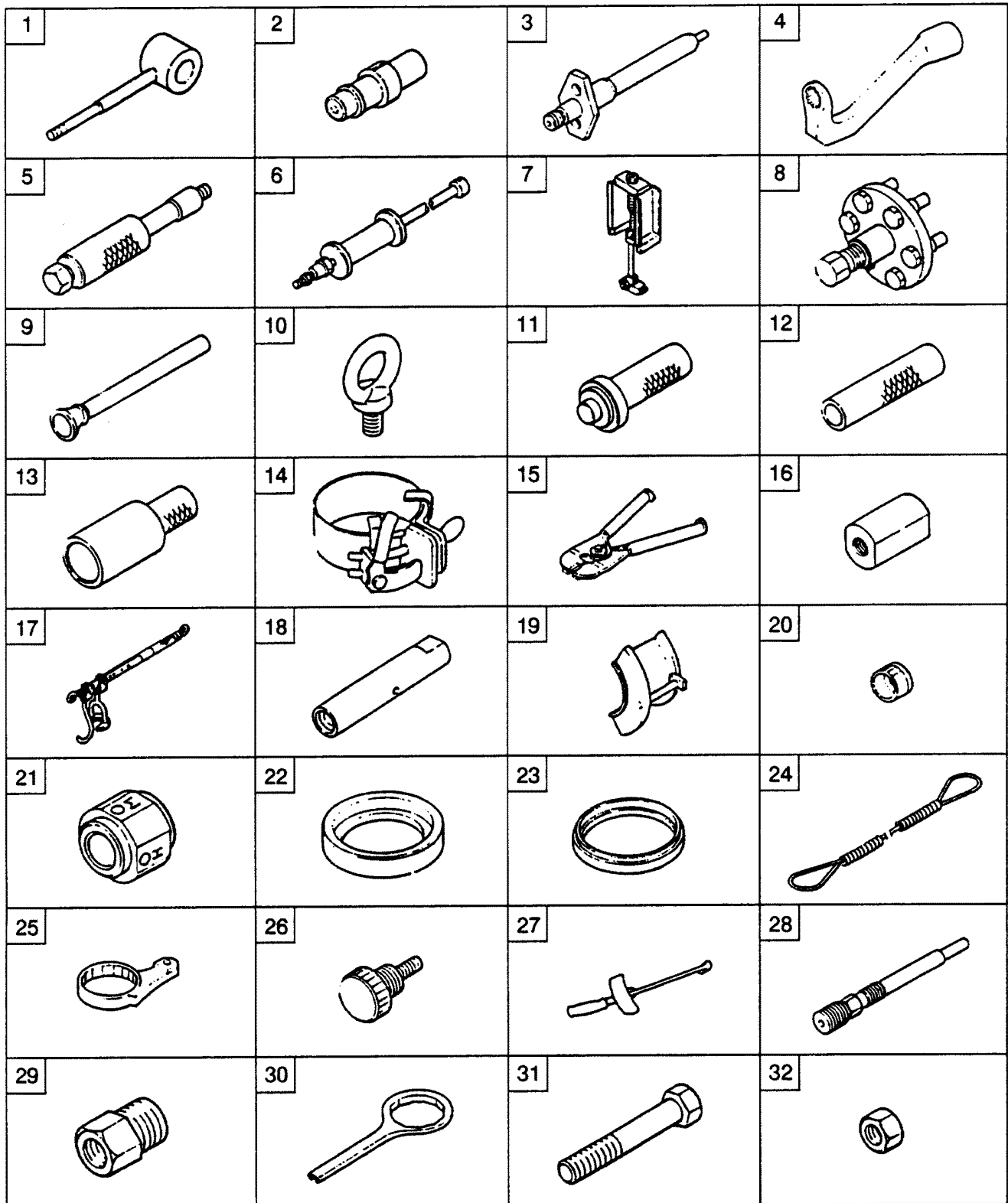
# HURTH TRANSMISSION AND COOLER



## HURTH TRANSMISSION AND COOLER

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F708028		1	TRANSMISSION, HURTH HSW630A-2.0:1
2	35-815419		1	FILTER KIT, TRANSMISSION
3	F2319		4	SCREW, TRANS. MOUNTING
4	F8153		6	WASHER, LOCK
5	F8165		6	WASHER, FLAT
6	F728935		1	COOLER, TRANSMISSION
7	F700580		2	ELBOW, OIL LINE
8	F733520		1	BRACKET, COOLER
9	F733770		2	HOSE ASSY., TRANS. OIL
10	F700944		2	CLAMP, OIL COOLER
11	F733155		2	STUD, TRANS. MOUNTING
12	F7066		2	NUT, TRANS. MTG. STUD
NS	F728520		1	BRACKET, SHIFT CABLE
	F2414		2	SCREW, SHIFT BRACKET
	F2205		2	WASHER, LOCK-SHIFT BRKT. SCREW
	F708821		1	KIT, SHIFT & THROTTLE CABLE END

# 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	834081041		1	ADAPTER, COMPRESSION GAUGE
4	834111190		1	WRENCH, CYL. HEAD BOLT
5	834201100		1	PULLER ASSY., IDLER GEAR SHAFT
6	094201442		1	SLIDE HAMMER
7	834201460		1	PULLER ASSY., CYL. LINER
8	834201500		1	PULLER, CRANKSHAFT PULLEY
9	834311010		1	TOOL, VALVE LAPPING
10	834331070		2	EYEBOLT, CYL. HEAD LIFT
11	834341110		1	PRESS, CYL. HEAD PLUG
12	834341130		1	PRESS, CYL. HEAD PLUG
13	834341140		1	PRESS, CYL. HEAD PLUG
14	834411260		1	COMPRESSOR, PISTON RING
15	834421180		1	EXPANDER, PISTON RING
16	834621370		1	ADAPTER, NOZZLE REMOVAL
17	834701022		1	COMPRESSOR, VALVE SPRING
18	834721650		1	TOOL, VALVE SEAL INSTALL
19	834801120		1	PRESS, CYLINDER LINER
20	834811120		1	GUIDE, CONN. ROD BUSHING
21	834811130		1	GUIDE, CONN. ROD BUSHING
22	834821530		1	PRESS, FRONT CRANK GEAR OIL SEAL
23	834821540		1	PRESS, REAR OIL SEAL
24	834911010		1	WIRE, ROPE, CYL. HD. LIFTING
25	835031040		1	WRENCH, FUEL FILTER
26	835122090		1	TOOL, INJECTION PUMP TIMING
27	835121350		1	WRENCH, TORQUE
28	835521051		1	ADAPTER, PRESSURE GAUGE
29	835521070		1	ADAPTER, PRESSURE GAUGE
30	835531010		1	WRENCH, OIL FILTER
31	839108252		1	BOLT
32	833310360		1	NUT

# PARTS INDEX

Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
094201442	SLIDE HAMMER	71	6	830202810	PUMP ASSEMBLY		
241001350	TURBOCHARGER ASSEMBLY	57	8		COMPLETE, INJECTION	35	4
830004030	NUT	33	17	830210300	BOLT, BRACKET	15	27
830005080	BALL	19	20	830211091	PIPE, TURBO	23	12
830006050	NUT	49	5	830211121	PIPE, ADAPTER - EXHAUST	23	11
830006100	BALL	9	44	830211159	FLANGE	7	18
830016120	PIN, COTTER	49	11	830211235	FLANGE	15	15
830062070	BEARING	17	40	830231118	HOSE, FUEL	35	36
830063023	BEARING	51	32	830233363	HOSE, AIR	61	7
830101183	BASE ASSEMBLY, FUEL FILTER	35	11	830233437	HOSE, AIR	61	8
830105040	NUT	51	38	830234364	HOSE, COOLANT	23	34
830105040	NUT, TERMINAL	51	25	830234365	HOSE, COOLANT	23	35
830106050	NUT	37	47	830234366	HOSE, COOLANT	23	36
830106050	NUT	45	22	830234371	HOSE, WATER	61	9
830106050	NUT	47	19	830234376	HOSE, COOLANT	45	13
830108070	NUT	7	25	830234378	HOSE, WATER	23	37
830108070	NUT	25	44	830234430	HOSE, WATER	61	10
830108070	NUT	37	48	830235130	CONNECTOR, PIPE	31	12
830108070	NUT	57	26	830236195	HOSE, CRANKCASE VENT	45	14
830108070	NUT	61	14	830311210	BRACKET	35	12
830108070	NUT	63	6	830311890	MOUNT, ISOLATOR - FRONT	17	NS
830108160	STUD	25	51	830313131	PIPE, INTAKE	23	13
830110080	NUT	37	49	830352280	MOUNT, ISOLATOR - REAR	17	NS
830110080	NUT	47	20	830401300	ALTERNATOR ASSEMBLY	47	8
830110250	BOLT	25	55	830405100	PIN, GUIDE	7	31
830110250	BOLT	37	54	830406100	PIN	13	12
830110250	BOLT	65	5	830408160	PIN, GUIDE	7	30
830110250	BOLT, PLATE	15	26	830408240	PIN, GUIDE	7	29
830110300	BOLT	47	31	830410110	PLUG	25	66
830110350	BOLT	61	17	830511090	PETCOCK, COOLANT	23	3
830110700	BOLT	45	26	830511100	PETCOCK, WATER	23	4
830111145	SHIM, NOZZLE	35	35	830562139	TUBE	35	37
830111240	BEARING SET, THRUST - STD	11	1	830803105	STRAP, GROUND	47	14
830111260	CLUTCH, STARTER DRIVE	55	5	830812020	PIPE, FUEL RETURN	35	13
830112200	BOLT	47	30	830831331	PIPE, FUEL FEED	35	14
830112550	RING SET, STD. (FOR ONE ENGINE)	11	4	830875111	RING, RETAINING	31	13
830114110	NUT	47	21	830906125	NUT	49	6
830115222	GASKET, END CAP	23	33	830906920	ENGINE ASSY., PARTIAL	3	-
830116148	SPACER	11	18	830908137	NUT	29	6
830116160	SPACER	61	6	830910141	NUT	47	22
830121221	COVER, OIL PUMP	31	1	830910141	NUT, JAM	25	46
830121250	BEARING SET, THRUST - .25MM O/S	11	2	830910142	NUT, JAM	25	47
830124244	BOLT, IDLER GEAR	13	8	830910142	NUT, TURBO	25	45
830124303	BOLT, BANJO	45	11	830912102	PLUG	47	34
830124303	BOLT, BANJO	57	17	830912103	PIN	7	32
830124329	BOLT, BANJO	57	16	830912118	BOLT	7	28
830124344	BOLT, BANJO	57	15	830912119	BOLT	47	32
830126105	LOCK, VALVE SPRING	21	16	830920102	PLUG	29	2
830129119	COLLAR	11	20	830920102	PLUG	33	9
830129174	COLLAR, SPACER	21	17	830927102	NUT, CRANKSHAFT	11	22
830146177	THERMOSTAT	45	12	831001561	STARTER ASSEMBLY	47	10
830149105	BELT, ALTERNATOR	47	13	831002342	PUMP, COOLANT	45	2
830154134	HOSE, JOINER	57	19	831003010	PUMP ASSEMBLY, COMPLETE	65	1
830154148	HOSE, COOLANT	57	20	831006040	NUT	51	29
830154248	HOSE, COOLANT	57	18	831006040	NUT, LOCK	49	7
				831006170	PIN, CLEVIS	49	12
				831010060	NUT	55	17
				831018090	NUT, LOCK - ISOLATOR		
					STUD	17	NS

# PARTS INDEX

Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
831041122	GASKET, EXHAUST MANIFOLD .....	23	14	831241200	SEAL, RING .....	59	5
831041150	GASKET, EXHAUST RISER .	25	NS	831241270	SEAL, RING .....	59	7
831041180	SEAL .....	43	3	831271160	PLATE, BACK .....	59	10
831041210	GASKET, TURBO .....	23	16	831301320	FRAME ASSEMBLY .....	55	9
831041250	GASKET .....	23	15	831311160	BEARING .....	59	11
831043092	BRACKET, THROTTLE .....	23	31	831311210	SEAT, VALVE - INTAKE .....	19	4
831051020	MANIFOLD CASE, EXHAUST	23	17	831311340	VANE .....	43	4
831071231	PIPE, OIL OUTLET .....	57	9	831311510	IMPELLER, PUMP .....	65	NS
831071250	COVER ASSEMBLY, OIL PUMP .....	31	2	831321110	RING, NOZZLE .....	59	19
831081100	CAP, OIL FILLER .....	19	10	831351080	GASKET .....	57	10
831091101	SHAFT .....	43	2	831351320	SEAT, VALVE - EXHAUST ..	19	5
831101160	GLOW PLUG ASSEMBLY ..	47	5	831361120	SCREW .....	59	20
831101521	PUMP ASSEMBLY, OIL .....	31	3	831361130	SCREW .....	59	21
831103400	CYLINDER HEAD - BARE ..	19	1	831371080	FELT, OIL .....	55	18
831106120	STUD .....	45	25	831372250	RING, RETAINING .....	15	36
831108250	STUD, TURBO .....	57	29	831391160	LEADWIRE .....	55	26
831108750	STUD, NOZZLE .....	19	12	831401100	MANIFOLD ASSEMBLY, EXHAUST .....	23	19
831110202	BOLT, BRACKET .....	25	58	831401220	HOLDER, BRUSH .....	55	8
831110252	BOLT, BRACKET .....	25	56	831401390	STRAINER ASSEMBLY .....	31	7
831110351	BOLT .....	37	55	831411140	PROTECTOR, HEAT .....	59	22
831110401	BOLT, HOUSING .....	15	29	831411230	STRAINER .....	31	8
831110402	BOLT, BRACKET .....	25	57	831412250	TUBE, OIL LEVER GAGE ...	7	8
831110701	BOLT .....	47	33	831431140	BEARING, THRUST .....	59	12
831110801	BOLT .....	45	27	831451190	BOLT .....	59	17
831111440	CASE, TURBINE .....	59	16	831451240	BOLT .....	59	14
831111592	CASE .....	43	1	831471020	SLINGER .....	43	6
831112871	MANIFOLD, INTAKE .....	23	18	831501140	ROTOR ASSEMBLY .....	59	1
831112920	PAN, OIL .....	7	7	831501640	SOLENOID, STARTER .....	55	7
831114402	BOLT, HOUSING .....	15	28	831521362	BRACKET, MANIFOLD .....	23	23
831121151	WIRE, GROUND .....	47	6	831521420	BRACKET, MANIFOLD .....	23	22
831121590	BOLT, HOUSING .....	55	13	831521480	BRACKET, MANIFOLD .....	23	21
831121600	BOLT, HOUSING .....	55	16	831521530	BRACKET, MANIFOLD .....	23	20
831131050	INSULATOR, GLOW PLUG .	47	7	831541090	BOOT, SOLENOID .....	55	20
831131620	PIPE, COOLANT .....	23	5	831601380	ARMATURE ASSEMBLY ...	55	2
831133470	PIPE, INTAKE .....	61	3	831681280	RING, RETAINER .....	55	21
831141050	GUIDE, O-RING .....	31	4	831681290	RING, RETAINER .....	55	22
831141130	CASE, BLOWER .....	59	13	831691150	PLATE, MANIFOLD .....	23	24
831151320	ROTOR .....	59	2	831691170	PLATE, MANIFOLD .....	23	25
831151530	HOUSING .....	55	6	831691180	PLATE, MANIFOLD .....	23	26
831151821	GASKET, CYLINDER HEAD .	19	2	831711021	CENTER, PULLEY .....	43	5
831161071	SCREEN, STRAINER .....	31	5	831711401	GASKET, MANIFOLD .....	23	27
831161080	THROWER, OIL .....	59	3	831711830	PIPE, OIL INLET .....	57	11
831171100	BUSHING, OIL PUMP .....	7	12	831732110	PULLEY, PUMP .....	45	3
831171250	NUT .....	59	8	831791170	GASKET, TURBO .....	57	12
831181200	IMPELLER, BLOWER .....	59	9	831811170	VALVE, COOLANT .....	47	4
831191121	GASKET, OIL PUMP .....	31	6	831851110	BODY, VENT VALVE .....	57	1
831191410	GASKET, END COVER .....	65	NS	831851440	BOLT, CYLINDER HEAD ...	19	6
831201310	YOKE ASSEMBLY .....	55	1	831851450	BOLT, CYLINDER HEAD ...	19	7
831210301	BOLT .....	49	10	831881020	SEAT, VALVE .....	57	2
831210301	BOLT, BRACKET .....	15	30	831906106	STUD .....	25	52
831210351	BOLT, BRACKET .....	25	59	831908113	NUT, ADJUST SCREW .....	21	19
831211260	CASE, BEARING .....	59	18	831910105	BOLT, MANIFOLD .....	25	60
831221080	BUSHING .....	59	4	831910112	BOLT, MANIFOLD .....	25	61
831221140	BUSHING, VALVE GUIDE REPAIR .....	19	3	831910115	BOLT, ALTERNATOR PIVOT	47	15
831231220	PLATE .....	59	15	831910118	BOLT .....	25	62
831231270	PLATE .....	59	23	831910118	BOLT, BRACKET .....	15	31
831241190	SEAL, RING .....	59	6	831910119	BOLT, BRACKET .....	25	63
				831910128	BOLT .....	19	13
				831910132	BOLT, RISER .....	25	64

# PARTS INDEX

Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
831912113	BOLT, BRACKET	25	65	832912187	BOLT, BANJO	45	15
831913101	BOLT, BANJO	35	38	832914137	BOLT, BANJO	35	40
831914237	BOLT, BANJO	31	14	832917111	PLUG, OIL HOSE	7	34
831918169	BOLT, BANJO	7	19	833001190	INTERCOOLER ASSEMBLY	61	4
831922102	PLUG	37	56	833001812	BASE & FILTER ASSEMBLY, FUEL	35	15
831937102	RING, RETAINING	11	26	833006201	SCREW	53	43
832011540	BEARING SET, STD. (FOR ONE ENGINE)	11	5	833008450	BOLT, CLAMP	27	7
832031030	HANGER, ENGINE	7	9	833011050	PIPE, COOLANT	15	14
832031550	BEARING SET, .25MM U/S	11	-	833011162	CASE, THERMOSTAT	45	6
832041520	BEARING SET, .50MM U/S	11	-	833011341	BRACKET, ENGINE MTG. - FRONT	15	8
832051510	BEARING SET, .75MM U/S	11	-	833012160	PLUG, CUP	21	22
832061500	BEARING SET, 1.0MM U/S	11	-	833013991	GAGE, OIL LEVEL	7	13
832071120	COVER, END	23	1	833031332	BRACKET, ENGINE MTG. - RIGHT REAR	15	9
832071150	COVER, END	23	2	833032341	MANIFOLD, COOLANT	45	7
832111940	COVER, CYLINDER HEAD	19	8	833041060	CORE ASSEMBLY	63	1
832131550	GASKET, CYLINDER HEAD COVER	19	9	833051030	TANK	63	2
832161781	PISTON	11	6	833101470	FRAME ASSEMBLY, DRIVE END	51	5
832191100	WASHER	55	12	833111330	PLATE, TIMING COVER	15	1
832191110	WASHER	55	14	833111410	FRAME, DRIVE END	51	6
832191120	WASHER	55	15	833121101	GASKET, PLATE	15	2
832191130	WASHER	55	25	833121510	PLATE, RETAINER	51	10
832210080	PLUG HOUSING	15	32	833141040	GASKET	63	4
832210301	BOLT, PLATE	11	19	833141050	GASKET	63	5
832217120	PLUG	25	67	833151180	FELT	51	7
832261020	ROLLER, CLUTCH	55	23	833151190	FELT	51	8
832361030	SPRING, SOLENOID	55	19	833151210	FELT	51	12
832501020	JOINT, ROD	49	3	833161030	PLUG, VENT	41	3
832501040	PINION	55	10	833171010	PLATE, INSPECTION	63	3
832511300	PIN, PISTON	11	7	833171480	BOLT	51	30
832521190	BEARING	55	3	833171490	BOLT	51	31
832521200	BEARING	55	4	833211020	JOINT	45	10
832601460	ROD ASSEMBLY, CONNECTING	11	8	833221030	PLUG, DRAIN	41	8
832610050	PLUG	57	30	833223120	COVER, TIMING GEAR	15	3
832613060	PLUG	57	31	833251280	GASKET, THERMOSTAT	45	8
832621090	HOLDER	55	11	833251530	BRACKET, ENGINE MTG. - LEFT REAR	15	10
832651371	BOLT, ROD CAP	11	9	833301600	ROTOR ASSEMBLY	51	13
832661090	NUT, GEAR	65	2	833307200	KEY, GEAR	13	13
832661280	PLATE	55	24	833310360	NUT	71	32
832681890	PIPE, COOLANT	57	7	833331030	RING, SPACER	51	15
832681900	PIPE, BANJO	45	4	833331621	MANIFOLD, COOLANT	45	9
832681900	PIPE, COOLANT	57	4	833432060	BRACKET, PUMP	35	7
832681960	PIPE, COOLANT	57	3	833501880	HOUSING ASSEMBLY	51	16
832681990	PIPE, COOLANT	57	5	833511060	BUSHING	51	17
832682000	PIPE, COOLANT	57	6	833511110	GEAR, DRIVE	65	3
832691140	BRACKET	61	1	833512842	HOUSING, FLYWHEEL - FRONT	15	4
832715200	CONNECTOR	47	37	833513481	HOUSING, FLYWHEEL - REAR	15	5
832721290	BUSHING, ROD - REPAIR	11	10	833521060	COVER, BRUSH	53	42
832800109	SEAL, OIL	15	37	833531370	HOLDER	51	20
832811340	HANGER, ENGINE	45	1	833541020	CONDENSER	51	27
832812190	PIPE	45	5	833561240	RECTIFIER	51	19
832858104	SEAL, OIL	15	38	833601010	COVER ASSEMBLY	41	1
832910115	PLUG	25	68	833611011	COVER	41	2
832910115	PLUG	31	24	833611250	COVER, INSPECTION	15	6
832910189	BOLT, BANJO	35	39				
832910235	BOLT, BANJO	35	41				
832910241	BOLT, PLATE	11	21				
832910261	BOLT, BANJO	57	21				

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833621090	BOLT	51	11	834311360	PULLEY	51	2
833641010	GASKET, PLUG	41	4	834331070	EYEBOLT, CYL. HEAD LIFT	71	10
833701010	BODY ASSEMBLY	41	5	834341110	PRESS, CYL. HEAD PLUG	71	11
833711010	BODY	41	6	834341130	PRESS, CYL. HEAD PLUG	71	12
833711160	BRUSH	53	40	834341140	PRESS, CYL. HEAD PLUG	71	13
833721010	FLOAT	41	11	834400925	O-RING, TUBE	9	41
833721120	SPRING, BRUSH	53	41	834401931	RISER, EXHAUST	23	28
833761040	HOLDER ASSEMBLY W/BRUSHES	51	39	834402135	O-RING	15	35
833871080	INSULATOR	51	23	834402135	O-RING, STRAINER	31	25
833871090	INSULATOR	51	22	834404535	O-RING	25	71
833871100	INSULATOR	51	21	834411150	FAN	51	4
833871120	INSULATOR	51	37	834411260	COMPRESSOR, PISTON RING	71	14
833871140	INSULATOR	51	24	834421180	EXPANDER, PISTON RING	71	15
833871190	INSULATOR	51	26	834451170	CLAMP	51	36
833871200	INSULATOR	51	35	834501563	FLYWHEEL ASSEMBLY	11	12
833881150	COVER	51	34	834531270	GEAR, RING	11	13
833910111	KEY, DRIVE GEAR	11	25	834551100	BOLT, FLYWHEEL	11	14
833911030	NUT, PULLEY	51	1	834551130	PLATE	47	1
833911330	POINTER, TIMING	15	13	834611630	HOSE, OIL REMOVAL	7	14
833914101	PLUG, CUP	7	40	834621370	ADAPTER, NOZZLE REMOVAL	71	16
833914101	PLUG, CUP	19	14	834671761	LINER, CYLINDER - CODE W	7	2
833917101	PLUG, CUP	7	39	834671771	LINER, CYLINDER - CODE X	7	-
833922105	PLUG, CUP	15	33	834671781	LINER, CYLINDER - CODE Y	7	-
833922107	PLUG, CUP	19	15	834671791	LINER, CYLINDER - CODE Z	7	-
833924103	PLUG, CUP	7	38	834701022	COMPRESSOR, VALVE SPRING	71	17
833924103	PLUG, CUP	19	16	834702161	PULLEY, CRANKSHAFT	11	15
833926102	PLUG, CUP	19	17	834721650	TOOL, VALVE SEAL INSTALL	71	18
833930105	PLUG, CUP	19	18	834801120	PRESS, CYLINDER LINER	71	19
833930105	PLUG, CUP	25	69	834811120	GUIDE, CONN. ROD BUSHING	71	20
833932102	PLUG, CUP	15	34	834811130	GUIDE, CONN. ROD BUSHING	71	21
833936102	PLUG, CUP	7	37	834821530	PRESS, FRONT CRANK GEAR OIL SEAL	71	22
833940104	PLUG, CUP	7	36	834821540	PRESS, REAR OIL SEAL	71	23
833940104	PLUG, CUP	25	70	834911010	WIRE, ROPE, CYL. HD. LIFTING	71	24
833950103	PLUG, CUP	7	35	834914402	BRACKET, PIPE	7	15
833950103	PLUG, CUP	19	19	834991060	PLATE, SEAL	15	7
834004390	BLOCK ASSY., SHORT	5	-	834999982	PIPE, WATER	61	2
834011290	CAP, PRESSURE	23	6	834999983	CASE, BEARING HOLDER	15	12
834021450	PRESS, CONN. ROD BUSHING	71	1	834999987	PLUG	7	33
834021460	PRESS, CONN. ROD BUSHING	71	2	834999994	PLUG, DRAIN	61	18
834051020	ELEMENT, HEAT EXCHANGER	23	7	834999994	PLUG, DRAIN	63	9
834081041	ADAPTER, COMPRESSION GAUGE	71	3	835011020	COVER, TIMER	35	8
834101220	RELAY, STARTER	47	11	835011042	CAMSHAFT ASSEMBLY	13	1
834101710	STATOR	51	18	835031040	WRENCH, FUEL FILTER	71	25
834104370	BLOCK ASSEMBLY	7	1	835051280	GEAR, IDLER	13	2
834111190	WRENCH, CYL. HEAD BOLT	71	4	835081530	BRACKET, ALTERNATOR	47	2
834111681	CRANKSHAFT	11	11	835101125	O-RING	37	61
834121140	COLLAR	51	3	835106200	CLEVIS	49	13
834121150	COLLAR	51	14	835108101	O-RING	33	8
834131040	GASKET, SEAT	23	8	835109103	O-RING	41	7
834201100	PULLER ASSY., IDLER GEAR SHAFT	71	5	835110111	O-RING	33	11
834201460	PULLER ASSY., CYL. LINER	71	7	835112116	O-RING	33	13
834201500	PULLER, CRANKSHAFT PULLEY	71	8	835113103	O-RING	47	35

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835118111	O-RING	29	3	836008180	WASHER, FLAT	57	27
835118111	O-RING	33	7	836008180	WASHER, FLAT	61	15
835119101	O-RING	31	27	836008180	WASHER, PLAIN	7	26
835120107	O-RING	33	16	836010180	WASHER, FLAT	11	23
835121350	WRENCH, TORQUE	71	27	836010180	WASHER, FLAT	47	24
835122000	BRACE, ALTERNATOR	47	3	836010220	WASHER, FLAT	25	48
835122090	TOOL, INJECTION PUMP TIMING	71	26	836010330	WASHER, FLAT	47	25
835131112	O-RING	45	32	836014270	WASHER, FLAT	47	26
835135102	O-RING	25	77	836030300	ROD, LINK	49	15
835141101	O-RING, CRANKSHAFT	11	27	836041020	VALVE, SAFETY	33	18
835144112	O-RING	47	38	836071630	FILTER, OIL - SPIN-ON	33	19
835154101	O-RING	61	22	836111221	CONNECTOR, INLET	39	9
835159101	O-RING	41	10	836111630	FLANGE, COUPLING	35	10
835160104	O-RING	65	4	836122190	BASE	33	2
835165103	O-RING, DRIVE	9	42	836131280	GEAR DRIVE	35	1
835181102	O-RING	15	39	836151180	SPRING	39	4
835211062	BOLT, BEARING CAP	7	3	836161190	PIN, NOZZLE	39	3
835211110	GEAR, CRANKSHAFT	11	16	836171560	DISTANCE PIECE	39	6
835231290	GEAR, CAMSHAFT	13	3	836201250	RELAY, GLOW PLUG	47	12
835408180	WASHER, SEALING	61	19	836201630	HOLDER, INJECTION NOZZLE	35	17
835410100	WASHER, SEALING	57	32	836202570	BASE ASSEMBLY, OIL FILTER	33	1
835410105	CLIP	37	62	836208220	WASHER, FLAT	37	50
835412100	WASHER, SEALING	47	36	836211080	GASKET	39	8
835415104	CLIP	37	63	836212270	WASHER, FLAT	47	27
835418150	WASHER, SEALING	9	43	836214440	WASHER, FLAT	13	11
835420150	WASHER, SEALING	45	28	836221070	PIN, DOWEL	39	1
835420150	WASHER, SEALING	57	33	836221080	PIN, DOWEL	39	2
835422150	WASHER, SEALING	37	57	836221230	NUT, NOZZLE	39	7
835424102	CLAMP	57	37	836241040	VALVE, SAFETY	33	14
835521051	ADAPTER, PRESSURE GAUGE	71	28	836241200	VALVE, SAFETY	33	6
835521070	ADAPTER, PRESSURE GAUGE	71	29	836401120	DRIVE, TACHOMETER	7	10
835531010	WRENCH, OIL FILTER	71	30	836401560	NOZZLE, INJECTOR	35	18
835601630	PUMP ASSEMBLY, FUEL FEED	35	9	836431020	PLUG, FILTER DRAIN	33	10
835614470	PLATE, CAUTION	23	30	836431140	PLUG	33	12
835711040	PLATE, CAMSHAFT THRUST	13	4	836504220	CLAMP	25	73
835721090	PLATE, IDLER GEAR THRUST	13	5	836504220	CLAMP	45	30
835721100	PLATE, IDLER GEAR	13	6	836504820	CLAMP	61	20
835801240	SHAFTASSY., IDLER GEAR	13	7	836505020	CLAMP	25	74
835816020	PLATE, CAUTION	35	31	836505220	CLAMP	25	75
835818181	PLATE, CAUTION	31	11	836505520	CLAMP	25	76
835851020	SEAT, FILLER	23	9	836601020	SWITCH, FILTER BY-PASS	33	15
835906123	CLEVIS	49	14	836611140	GASKET, NOZZLE - COPPER	35	19
835908104	WASHER, SEALING	63	10	836611160	SPRING, OIL VALVE	33	3
835910105	WASHER, SEALING	25	72	836611250	SPRING, OIL VALVE	33	5
835910105	WASHER, SEALING	37	58	836651110	ADAPTER, NOZZLE	35	20
835912111	WASHER, SEALING	45	29	836671070	RING, PACKING - RUBBER	35	21
835913110	WASHER, SEALING	37	59	836671090	RING, PACKING	39	10
835914104	WASHER, SEALING	37	60	836750124	BUSHING	13	14
835914110	WASHER, SEALING	31	26	836801080	SOLENOID, ENGINE STOP	49	1
836001780	NOZZLE & HOLDER SET	35	16	836901101	CASE ASSY., BEARING HOLDER	15	11
836003490	BASE ASSEMBLY, OIL FILTER	31	9	836910122	STUD	25	53
836006120	WASHER, FLAT	49	8	836910124	STUD	25	54
836006140	WASHER, FLAT	45	23	836911170	PIPE, COOLANT	23	10
				836911211	BRACKET, SOLENOID	49	2
				836911330	BRACKET	47	9
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836941122	ADAPTER, TACH. DRIVE	7	11	838008200	WASHER, LOCK	63	7
836975103	CLAMP	61	21	838010250	WASHER, LOCK	25	50
837001610	REGULATOR ASSEMBLY	53	44	838010250	WASHER, LOCK	37	53
837011190	CASE ASSEMBLY	29	1	838010250	WASHER, LOCK	47	28
837011730	BEARING SET, CRANKSHAFT - STD	11	3	838012450	ELEMENT	27	2
837013110	BODY	27	3	838014350	WASHER, LOCK	47	29
837013440	BODY ASSEMBLY	27	1	838018460	WASHER, LOCK - ISOLATOR STUD	17	NS
837031620	BEARING SET, CRANKSHAFT - .25MM U/S	11	-	838031080	SEPARATOR ASSEMBLY, WATER	35	30
837041650	BEARING SET, CRANKSHAFT - .50MM U/S	11	-	838061610	HOSE, FUEL	35	28
837051620	BEARING SET, CRANKSHAFT - .75MM U/S	11	-	838063030	HOSE, FUEL	35	29
837061650	BEARING SET, CRANKSHAFT - 1.0MM U/S	11	-	838106200	BOLT	63	8
837081160	PUSHROD	21	1	838108160	BOLT, OIL PAN	7	21
837101680	COOLER ASSEMBLY, OIL	31	10	838108160	BOLT, PLATE	15	21
837111521	VALVE, INTAKE	21	2	838108200	BOLT	23	38
837111610	PIPE, INJECTOR - #1	35	22	838108200	BOLT	45	16
837121470	ELEMENT	29	4	838108200	BOLT	57	22
837121600	PIPE, INJECTOR - #2	35	23	838108200	BOLT, COVER	15	20
837131540	PIPE, INJECTOR - #3	35	24	838108200	BOLT, FLANGE	7	20
837141280	COVER	27	6	838108200	BOLT, OIL PUMP	31	15
837141570	PIPE, INJECTOR - #4	35	25	838108250	BOLT, THRUST PLATE	13	9
837151570	VALVE, EXHAUST	21	3	838108350	BOLT, OIL PUMP	31	16
837161050	PLUG	33	4	838108650	BOLT, COVER	15	16
837171160	GASKET, ELEMENT	29	5	838108750	BOLT, COVER	15	19
837191020	SEAL, VALVE	21	4	838108850	BOLT	45	18
837191190	SEAL, VALVE - INTAKE	21	23	838108850	BOLT, COVER	15	17
837203360	AIR CLEANER ASSEMBLY	23	29	838108850	BOLT, COVER	15	18
837225161	GROMMET	57	34	838108900	BOLT, COVER	15	18
837311312	SPRING, VALVE - INT. & EXH.	21	5	838108950	BOLT	45	17
837341210	SEAT, SPRING - LOWER	21	6	838110300	BOLT, ADJUST	47	16
837351260	SEAT, SPRING - UPPER	21	7	838111180	BEARING, CAMSHAFT - #1	7	4
837391030	CAP, VALVE STEM	21	24	838111230	GASKET	27	4
837511332	LIFTER, VALVE	21	8	838111240	GASKET	27	5
837731371	PIPE, OIL	35	3	838111610	ARM, ROCKER - INTAKE	21	10
837731480	PIPE, OIL	35	2	838111620	ARM, ROCKER - EXHAUST	21	11
837811620	PIPE, FUEL	35	26	838114400	BOLT, GEAR	13	10
837811981	PIPE, FUEL	35	27	838120122	BEARING	51	9
837871161	SCREW, VALVE ADJUST	21	9	838208300	BOLT, OIL COOLER	31	17
837915107	GROMMET	57	35	838211190	BEARING, CAMSHAFT - #2	7	5
838005120	BOLT	51	28	838304082	BOLT	51	33
838005130	WASHER, LOCK	21	20	838311130	BEARING, CAMSHAFT - #3	7	6
838006150	WASHER, LOCK	37	51	838311410	BOLT, BANJO	39	11
838006150	WASHER, LOCK	45	24	838431870	GASKET	39	12
838006150	WASHER, LOCK	49	9	838831080	RING, RETAINER	39	13
838008200	WASHER, LOCK	7	27	839006161	BOLT, COVER	27	8
838008200	WASHER, LOCK	25	49	839011190	SHAFT, ROCKER ARM	21	12
838008200	WASHER, LOCK	27	9	839041140	CLIP	7	16
838008200	WASHER, LOCK	29	7	839041170	CLIP, PIPE	35	34
838008200	WASHER, LOCK	37	52	839041290	CLIP	57	13
838008200	WASHER, LOCK	57	28	839041930	CLIP, PIPE	35	32
				839042230	CLIP, PIPE	35	33
				839042660	CLIP	61	5
				839088252	BOLT, END COVER	23	39
				839105080	SCREW	21	21
				839106202	BOLT	47	17
				839106202	BOLT	49	4
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839108162	BOLT	61	13	F733459	HARNES, ENGINE WIRING PORT	47	NS
839108201	BOLT, DRIVE	7	24	F733460	HARNES, ENGINE WIRING STARBOARD	47	NS
839108202	BOLT	47	18	F733520	BRACKET, COOLER	69	8
839108202	BOLT, FLANGE	15	22	F733770	HOSE ASSY., TRANS. OIL	69	9
839108251	BOLT	31	18	F733936	BOOT, INSULATING	55	NS
839108251	BOLT	61	11	F733938	PLATE, DRIVE	11	17
839108252	BOLT	45	20	F8153	WASHER, LOCK	69	4
839108252	BOLT	71	31	F8165	WASHER, FLAT	69	5
839108252	BOLT, CASE	15	24	FI4290003	WASHER, LOCK	11	24
839108301	BOLT	35	42	35-815419	FILTER KIT, TRANSMISSION	69	2
839108301	BOLT	57	25				
839108351	BOLT	35	43				
839108351	BOLT, COVER	19	11				
839108351	BOLT, HOUSING	15	23				
839108401	BOLT	31	19				
839108402	BOLT, MANIFOLD	23	40				
839108451	BOLT	35	44				
839108501	BOLT	61	12				
839108552	BOLT, MANIFOLD	23	41				
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839108602	BOLT	31	20				
839108651	BOLT, STRAINER	31	21				
839108851	BOLT	45	21				
839108952	BOLT, PIPE	23	42				
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839511570	SUPPORT, SHAFT	21	14				
839511580	SUPPORT, SHAFT	21	15				
839908113	BOLT	37	45				
839908115	BOLT	31	23				
839908121	BOLT	25	43				
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839932650	HOLDER, CLIP	57	14				
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