



# PARTS CATALOG

## US MARINE W04CTA (150 H.P.) DIESEL

### SERIAL NUMBER

HINO DIESEL (SEE MERCUISER) ..... W04CTA (150 H.P.) 4 CYL.

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

**AR** = As Required  
**OPT** = Optional

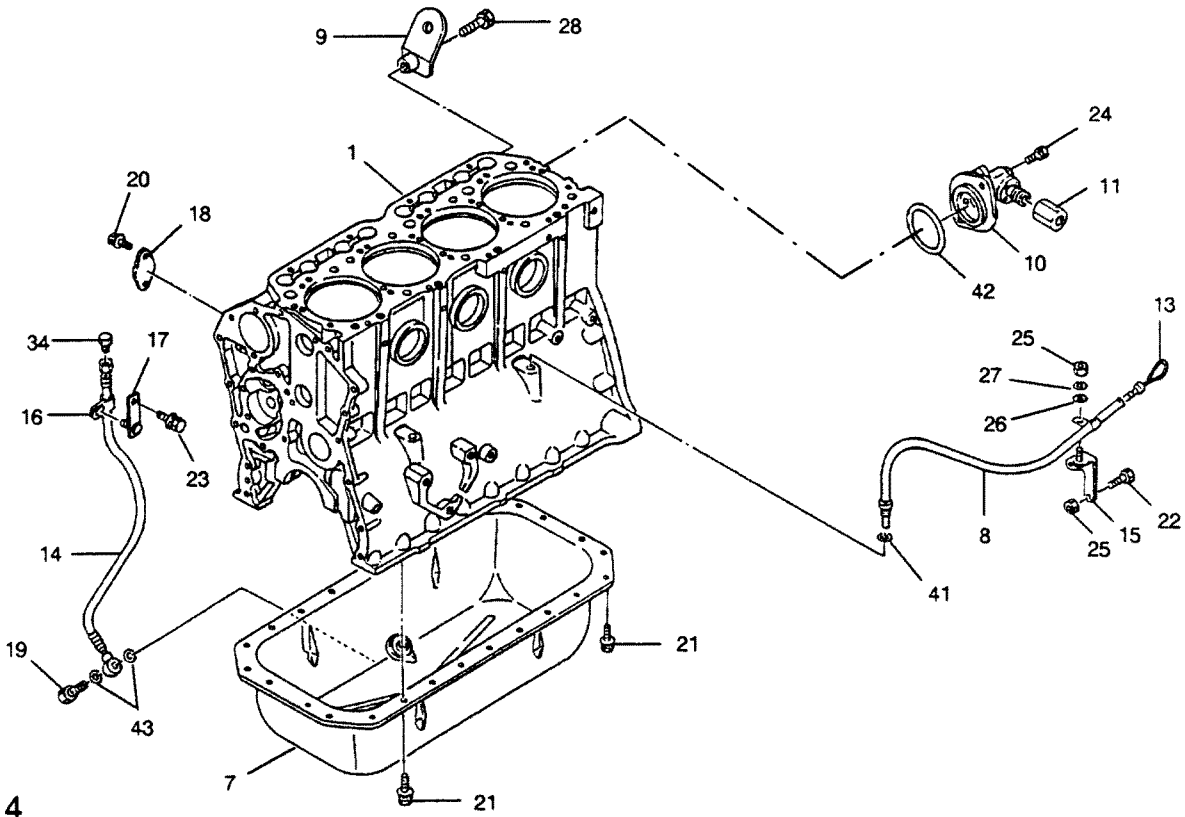
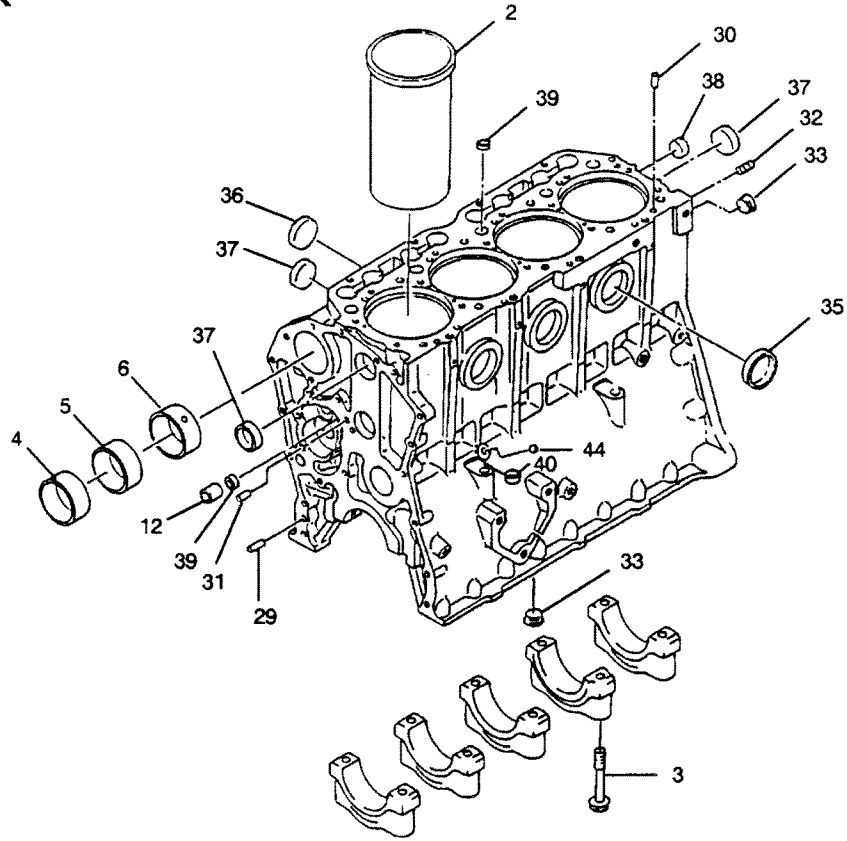
**NSS** = Not Sold Separate  
**NS** = Not Shown

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# CYLINDER BLOCK

## CYLINDER BLOCK



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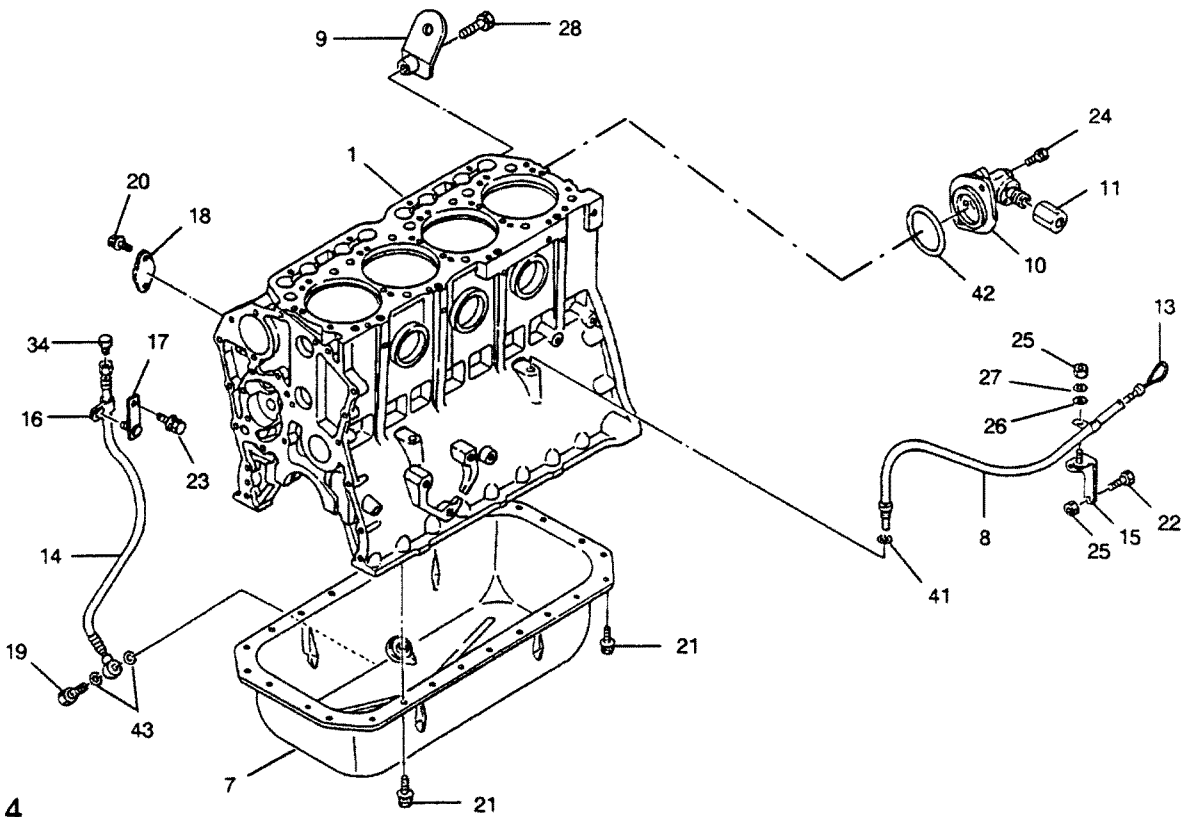
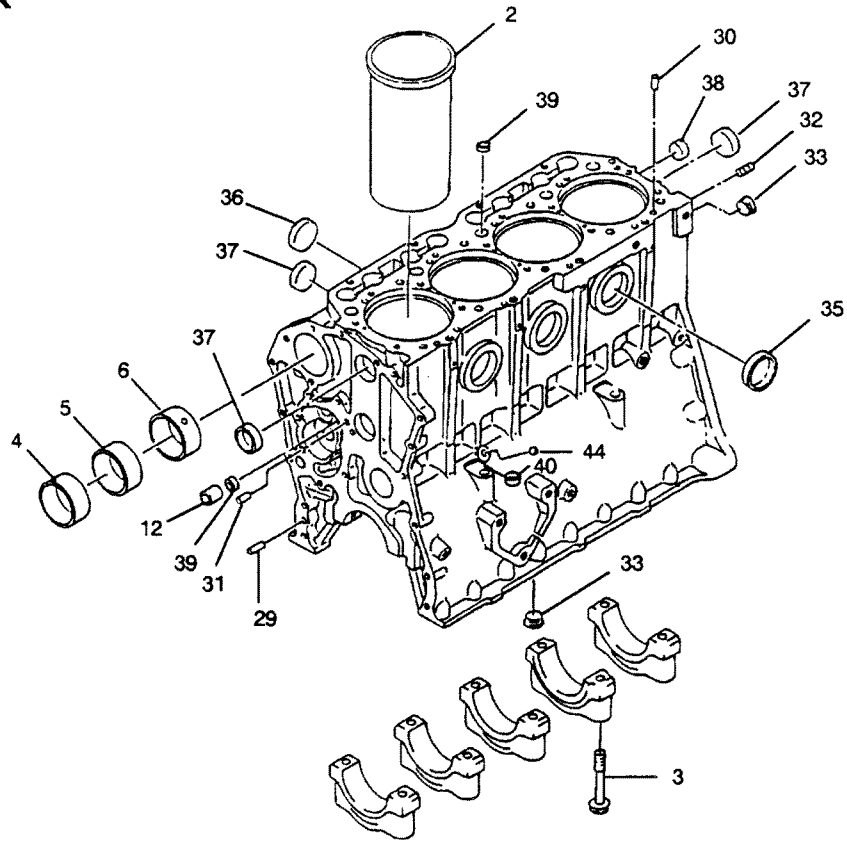
# CYLINDER BLOCK

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	833091061		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	834914401		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

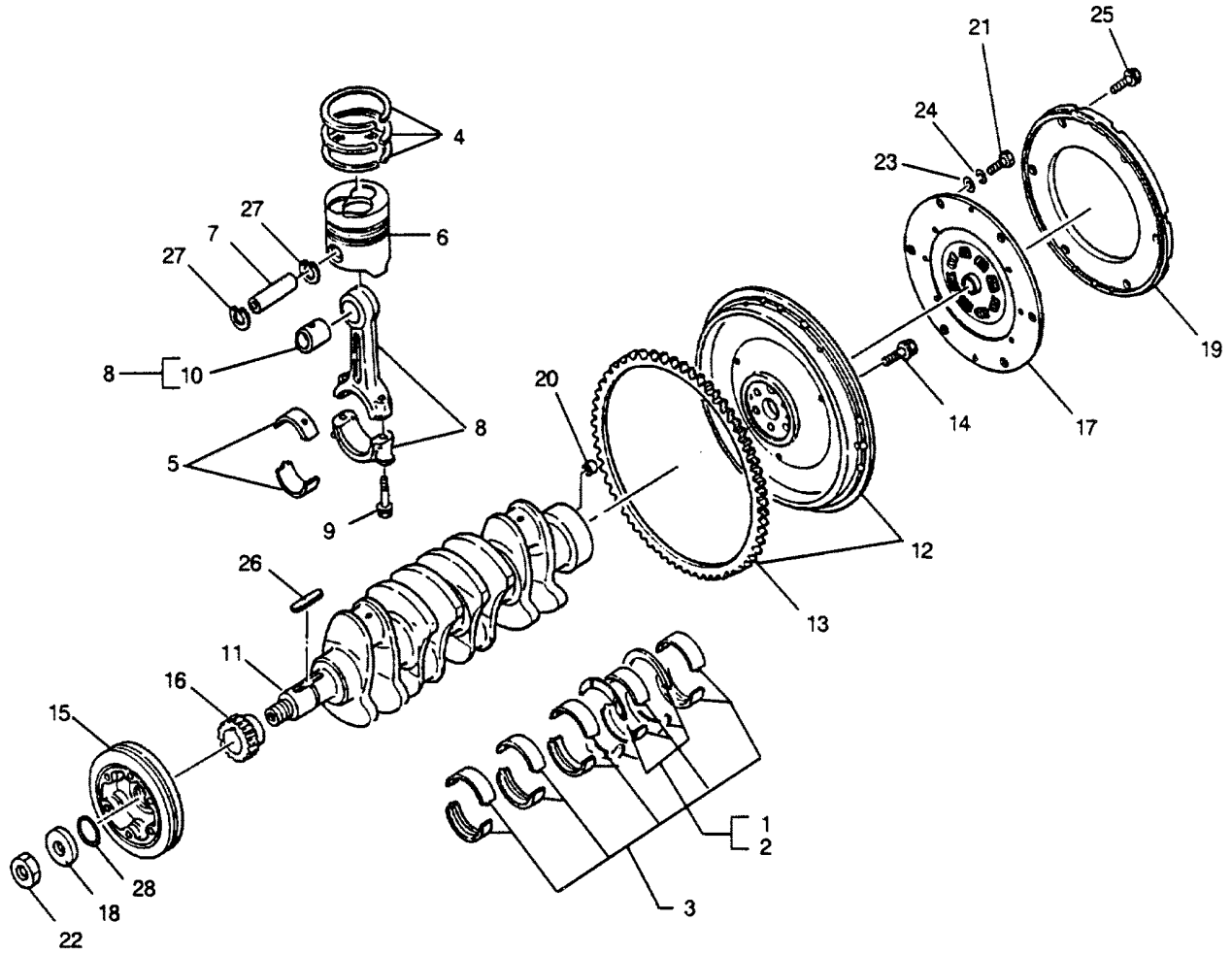


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# CYLINDER BLOCK

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	835918111		2	WASHER, SEALING
44	830006100		2	BALL

# CRANKSHAFT AND PISTON ASSEMBLY

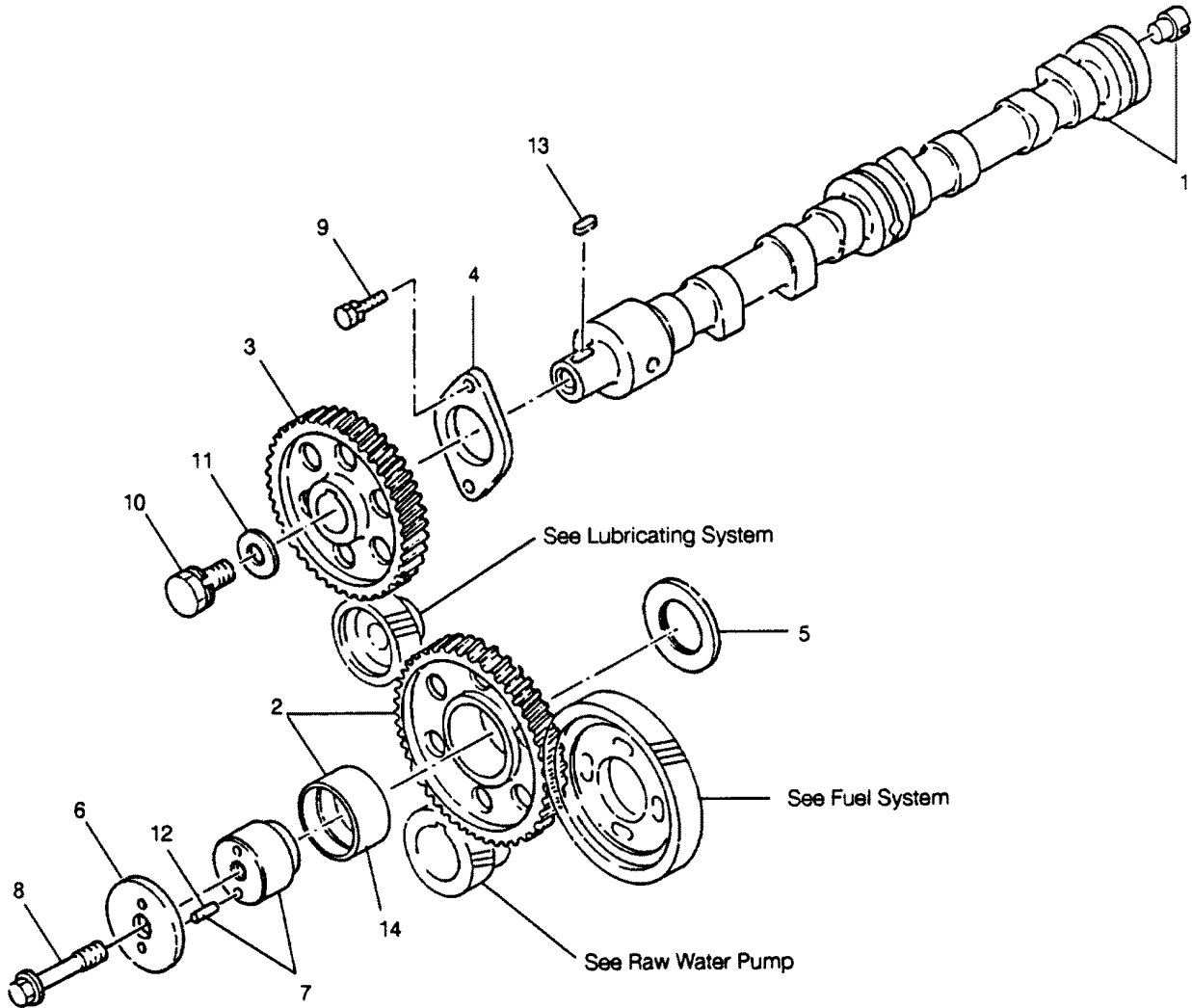




# CRANKSHAFT AND PISTON ASSEMBLY

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	830112270		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	832161631		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	834702050		1	PULLEY, CRANKSHAFT
16	835211110		1	GEAR, CRANKSHAFT
17	F733938		1	PLATE, DRIVE
18	830116148		1	SPACER
19	FI7200029		1	SPACER, FLYWHEEL
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	830210300		8	BOLT, SPACER
26	833910111		1	KEY, DRIVE GEAR
27	831937102		8	RING, RETAINING
28	835141101		1	O-RING, CRANKSHAFT

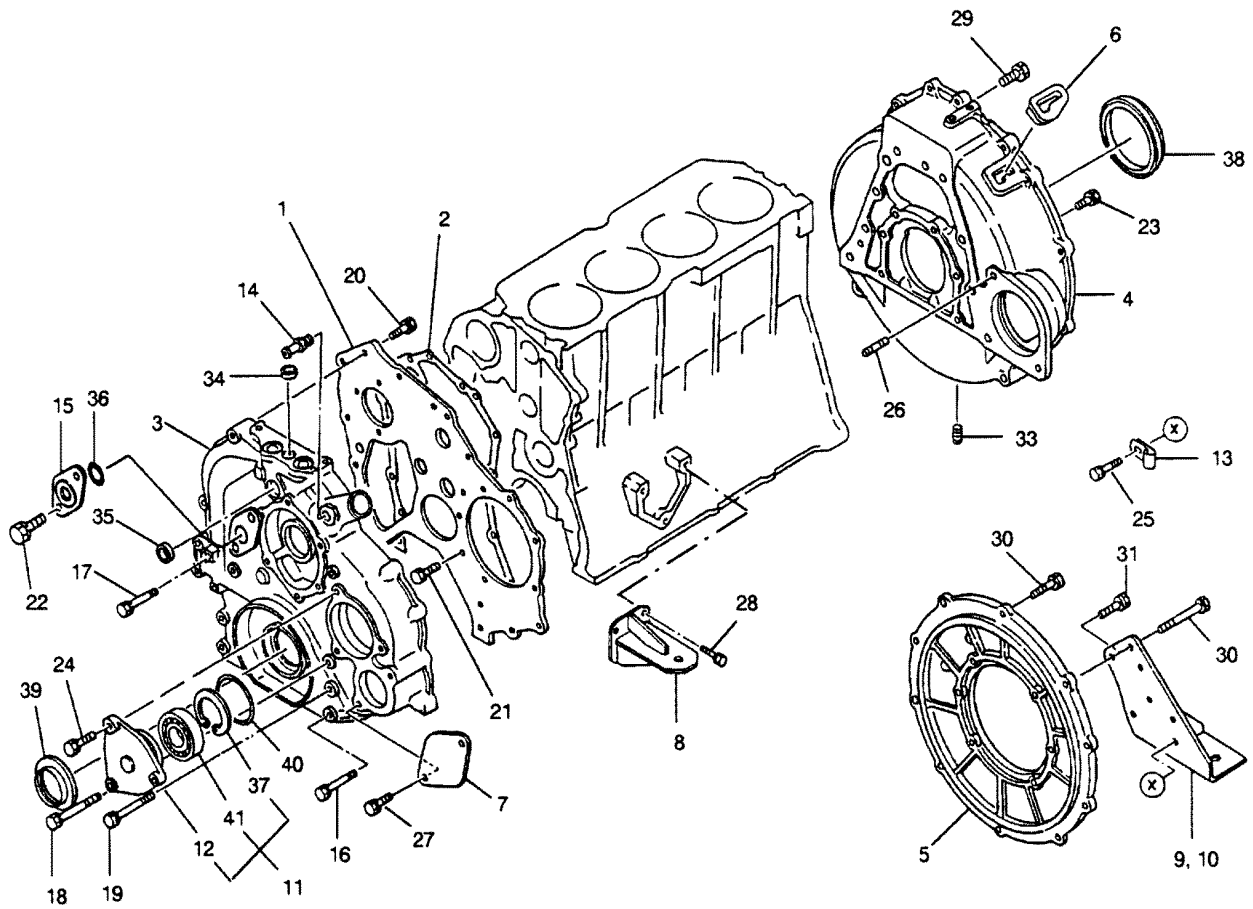
# CAMSHAFT AND IDLER GEAR



## CAMSHAFT AND IDLER GEAR

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	835011042		1	CAMSHAFT ASSEMBLY
2	835051280		1	GEAR, IDLER
3	835231270		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	SHAFT ASSEMBLY, 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

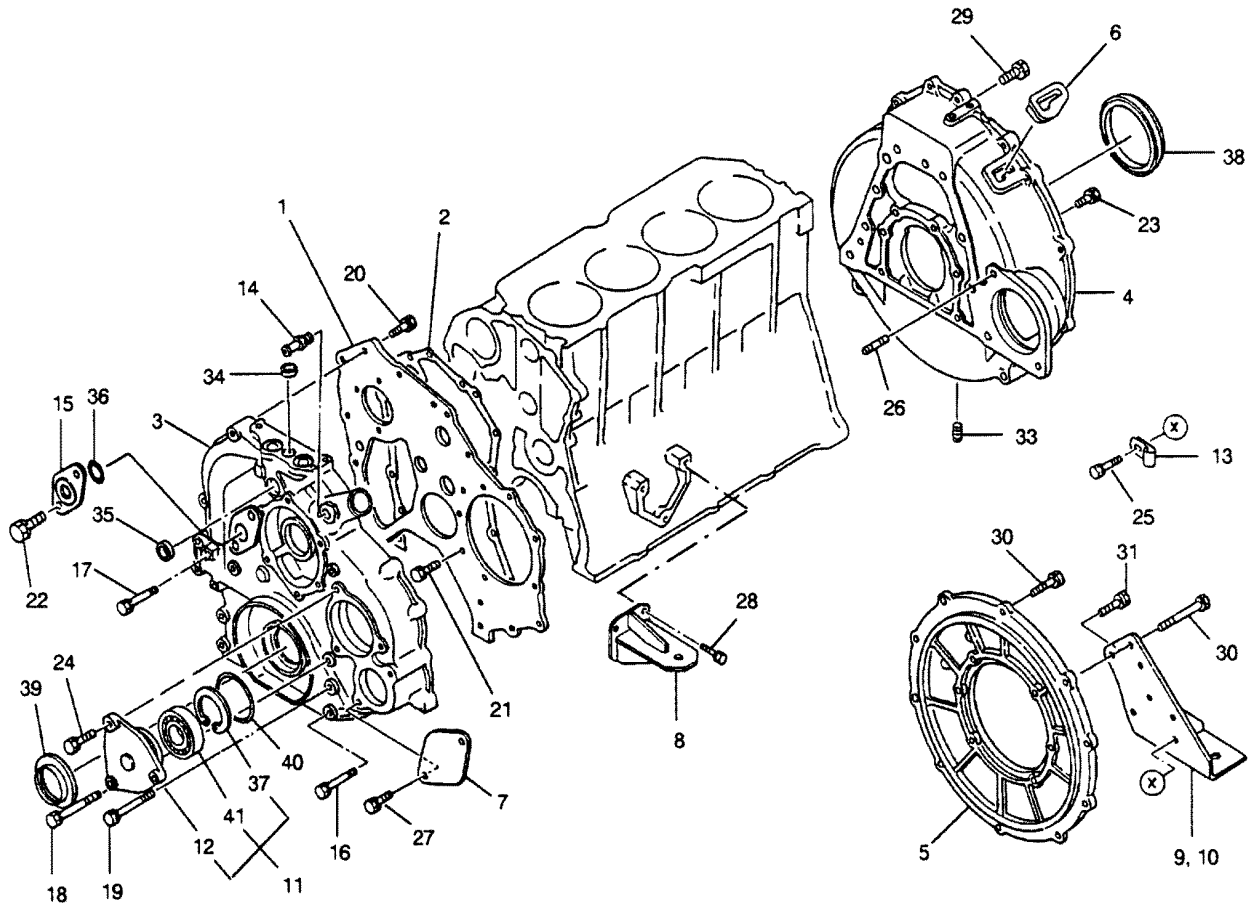


## TIMING COVER AND FLYWHEEL HOUSING

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833111330		1	PLATE, TIMING COVER
2	833121101		1	GASKET, PLATE
3	833223080		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	833041221		1	BRACKET, ENGINE MTG. - LEFT REAR
11	836901101		1	CASE ASSY., BEARING HOLDER
12	834999983		1	CASE, BEARING HOLDER
13	839041140		1	CLIP
14	833211020		1	NIPPLE, HOSE
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	839110161		1	BOLT, CLIP
26	835114350		1	STUD, STARTER
27	830110250		2	BOLT, PLATE
28	830210300		6	BOLT, BRACKET
29	831114402		8	BOLT, HOUSING
30	831110401		6	BOLT, HOUSING
31	831210301		4	BOLT, BRACKET
32	831910118		4	BOLT, BRACKET
33	832210080		1	PLUG HOUSING
34	833922105		1	PLUG, CUP
35	833932102		1	PLUG, CUP
36	834402135		1	O-RING
37	831372250		1	RING, RETAINING
38	832800109		1	SEAL, OIL
39	832858104		1	SEAL, OIL
40	835181102		1	O-RING

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# TIMING COVER AND FLYWHEEL HOUSING

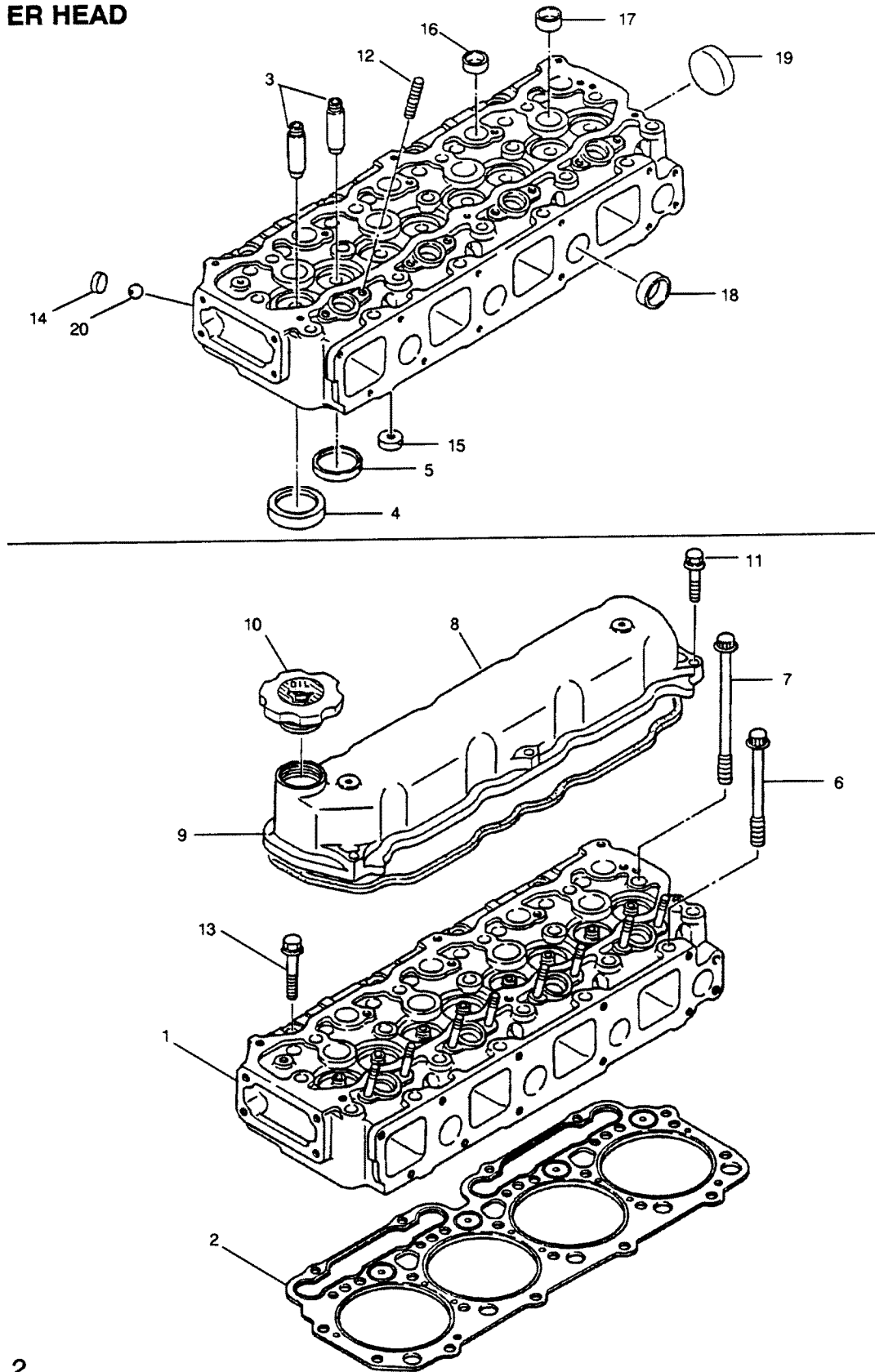


## TIMING COVER AND FLYWHEEL HOUSING

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
41	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

## ER HEAD



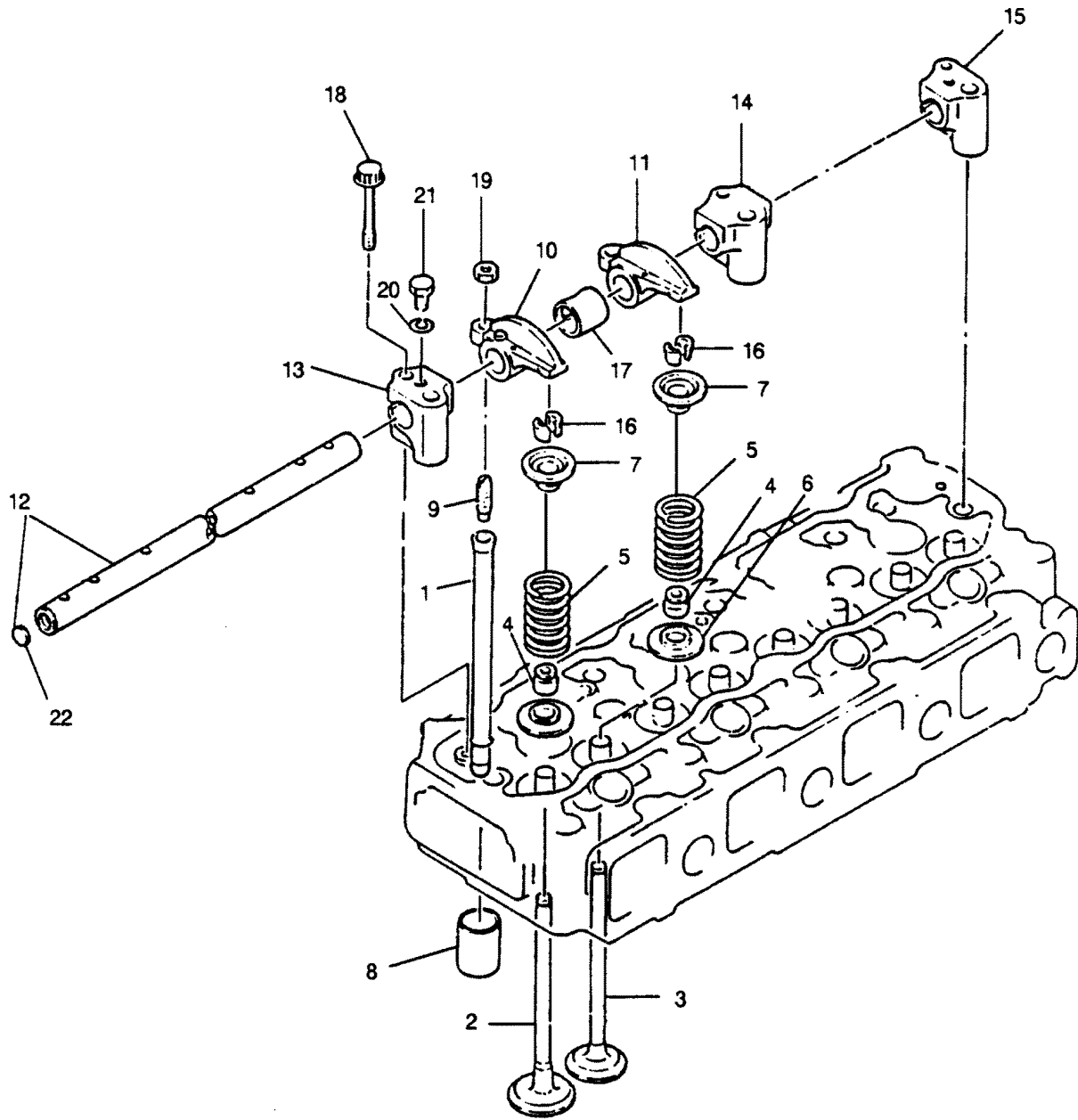
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# CYLINDER HEAD

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	831110401		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

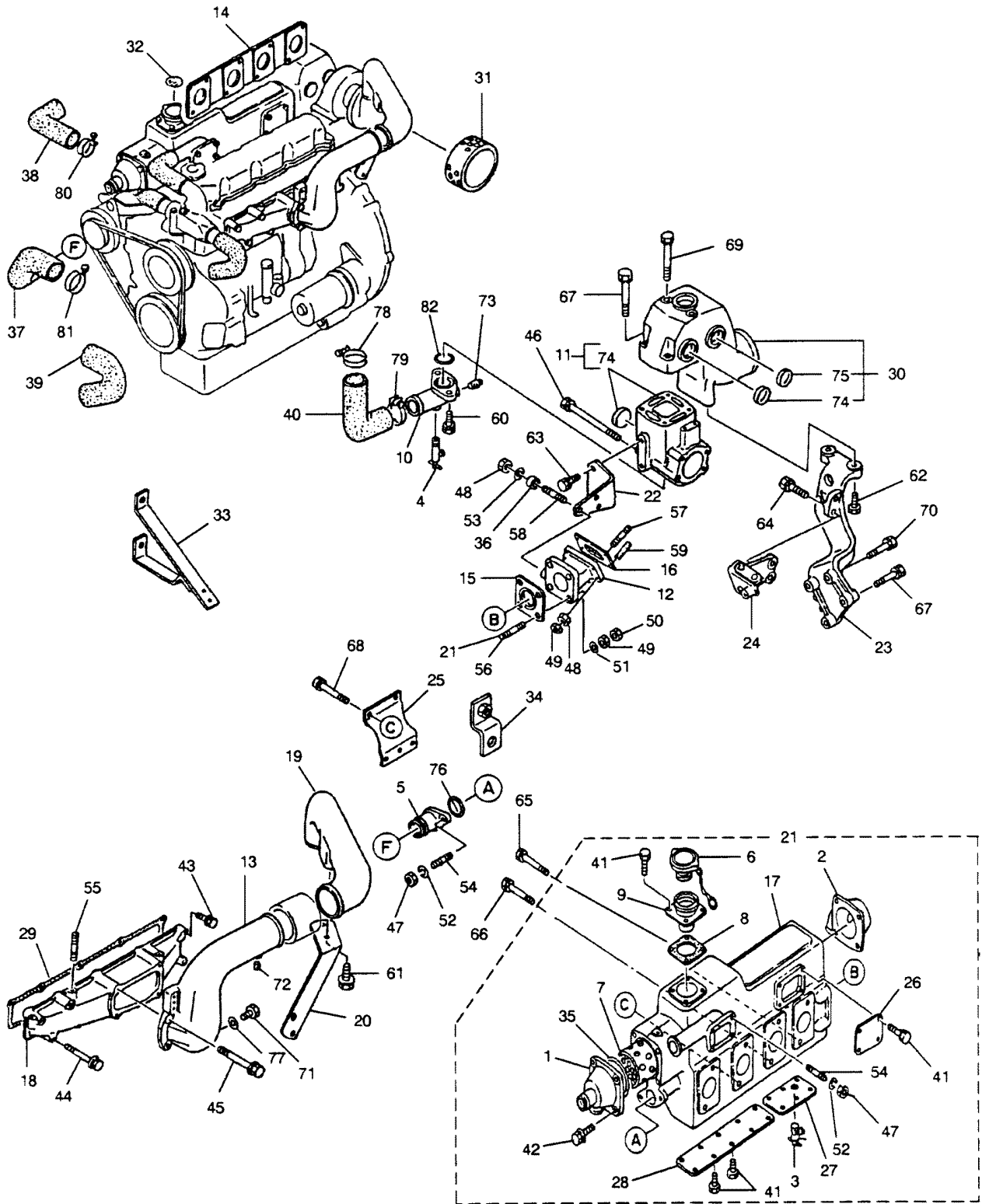
# VALVE SYSTEM



# VALVE SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	837081160		8	PUSH ROD
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

# INTAKE AND EXHAUST SYSTEM

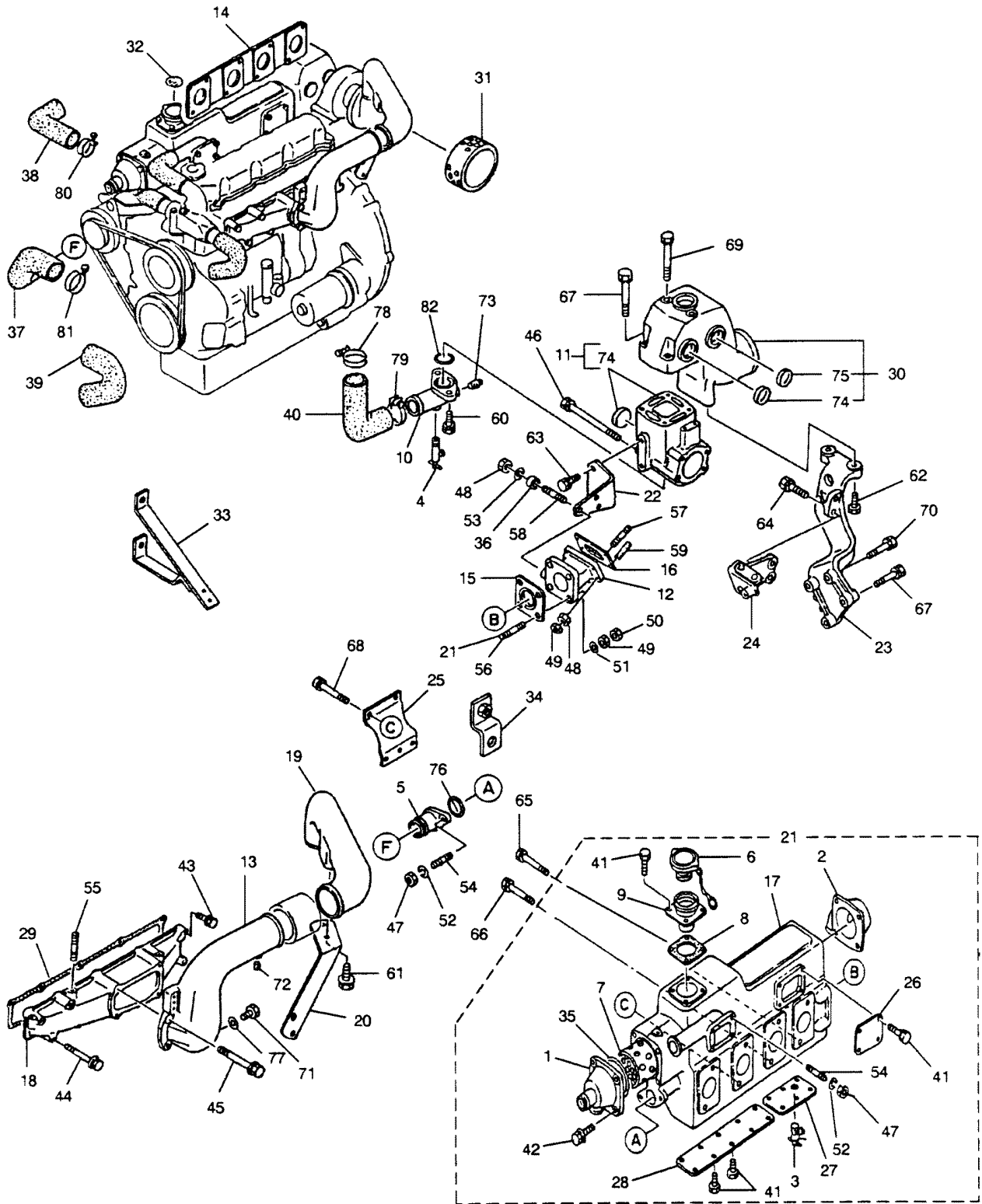


# INTAKE AND EXHAUST SYSTEM

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	830211130		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	831133270		1	PIPE, INTAKE
20	831362500		1	BRACKET, PIPE
21	831401100		1	MANIFOLD ASSEMBLY, EXHAUST
22	831521500		1	BRACKET, MANIFOLD
23	831521480		1	BRACKET, MANIFOLD
24	831521420		1	BRACKET, MANIFOLD
25	831521362		1	BRACKET, MANIFOLD
26	831691150		2	PLATE, MANIFOLD
27	831691170		1	PLATE, MANIFOLD
28	831691180		1	PLATE, MANIFOLD
29	831711401		1	GASKET, MANIFOLD
30	834401931		1	RISER, EXHAUST
31	837203360		1	AIR CLEANER ASSEMBLY (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
32	835614470		1	PLATE, CAUTION
33	831043092		1	BRACKET, THROTTLE
34	839932830		1	HOLDER, CLIP
35	830115222		2	GASKET, END CAP
NS	831041150		1	GASKET, EXHAUST RISER
36	830116318		3	SPACER
37	830234364		1	HOSE, COOLANT
38	830234365		1	HOSE, COOLANT
39	830234366		1	HOSE, COOLANT
40	830234378		1	HOSE, WATER
41	838108200		26	BOLT

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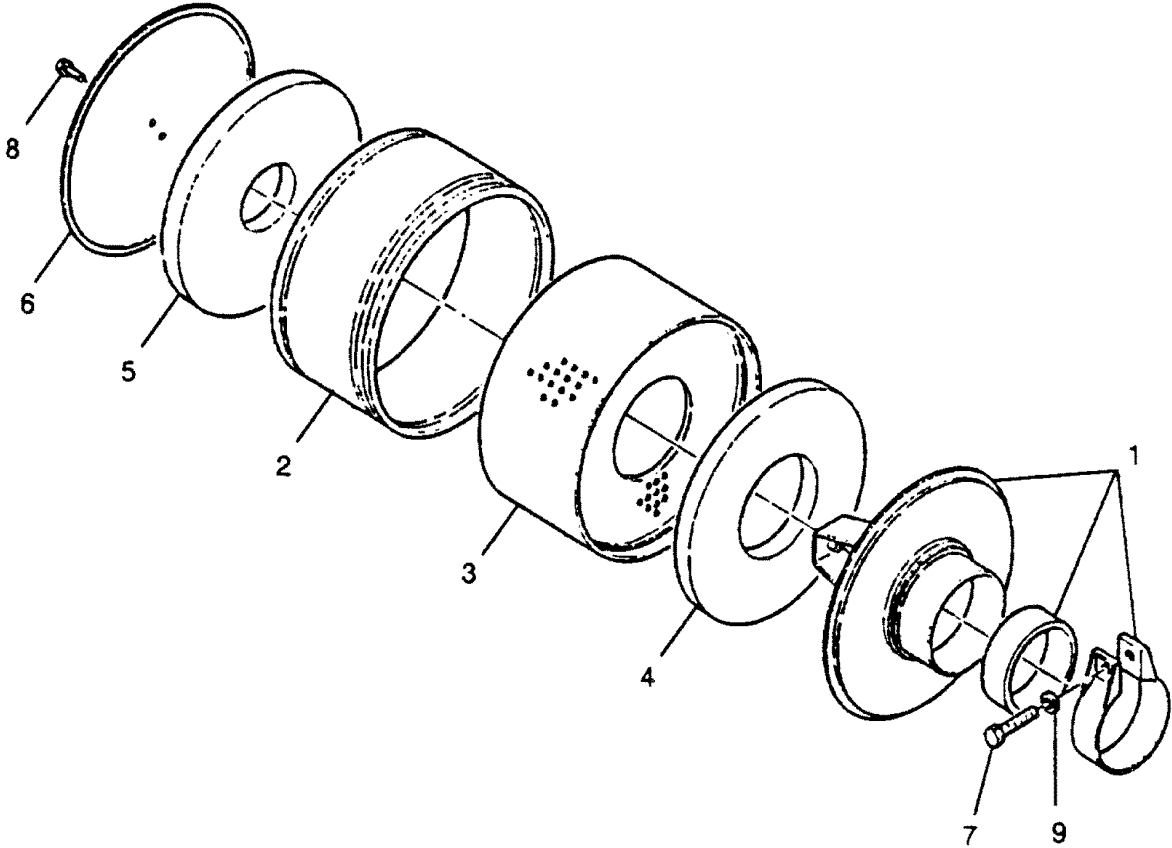
# INTAKE AND EXHAUST SYSTEM



## INTAKE AND EXHAUST SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
42	839088252		8	BOLT, END COVER
43	839108402		2	BOLT, MANIFOLD
44	839108552		4	BOLT, MANIFOLD
45	839108952		4	BOLT, PIPE
46	839908121		4	BOLT
47	830108070		4	NUT
48	830910142		7	NUT, TURBO
49	830910141		8	NUT, JAM,
50	830910142		4	NUT, JAM
51	836010220		4	WASHER, FLAT
52	838008200		2	WASHER, LOCK
53	838010250		3	WASHER, LOCK
54	830108160		6	STUD
55	831906106		2	STUD
56	836910103		4	STUD
57	836910122		3	STUD
58	836910103		3	STUD
59	836910109		1	STUD
60	830110250		2	BOLT
61	831110252		2	BOLT, BRACKET
62	831110402		2	BOLT, BRACKET
63	831110202		2	BOLT, BRACKET
64	831210351		2	BOLT, BRACKET
65	831910105		2	BOLT, MANIFOLD
66	831910112		4	BOLT, MANIFOLD
67	831910118		4	BOLT
68	831910119		2	BOLT, BRACKET
69	831910132		2	BOLT, RISER
70	831912113		2	BOLT, BRACKET
71	830410110		1	PLUG
72	832217120		1	PLUG
73	832910115		1	PLUG
74	833930105		2	PLUG, CUP
75	833940104		3	PLUG, CUP
76	834404535		1	O-RING
77	835910105		1	WASHER, SEALING
78	836504220		1	CLAMP
79	836505020		1	CLAMP
80	836505220		2	CLAMP
81	836505520		4	CLAMP
82	835135102		1	O-RING

# AIR CLEANER (P/N 177203360)

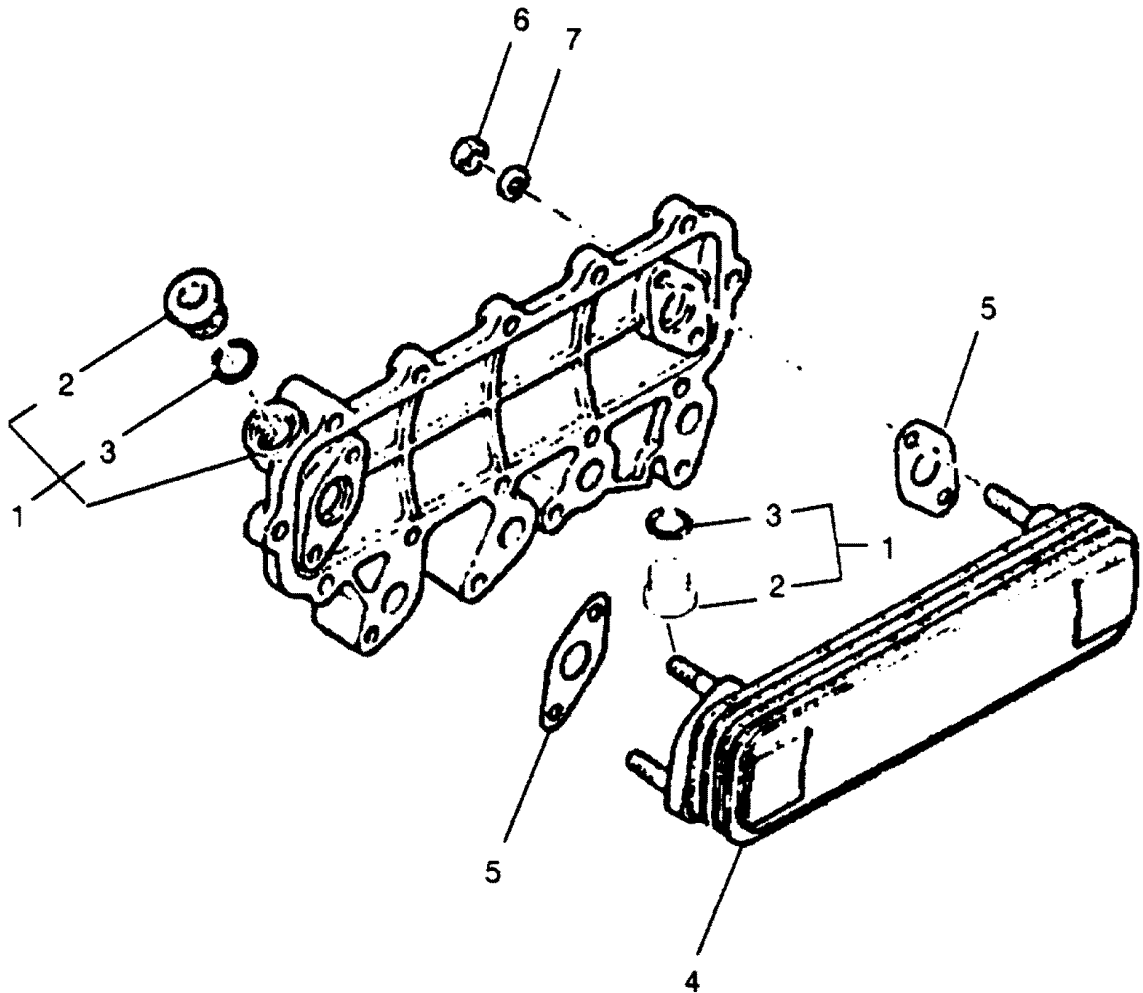




## AIR CLEANER (P/N 177203360)

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

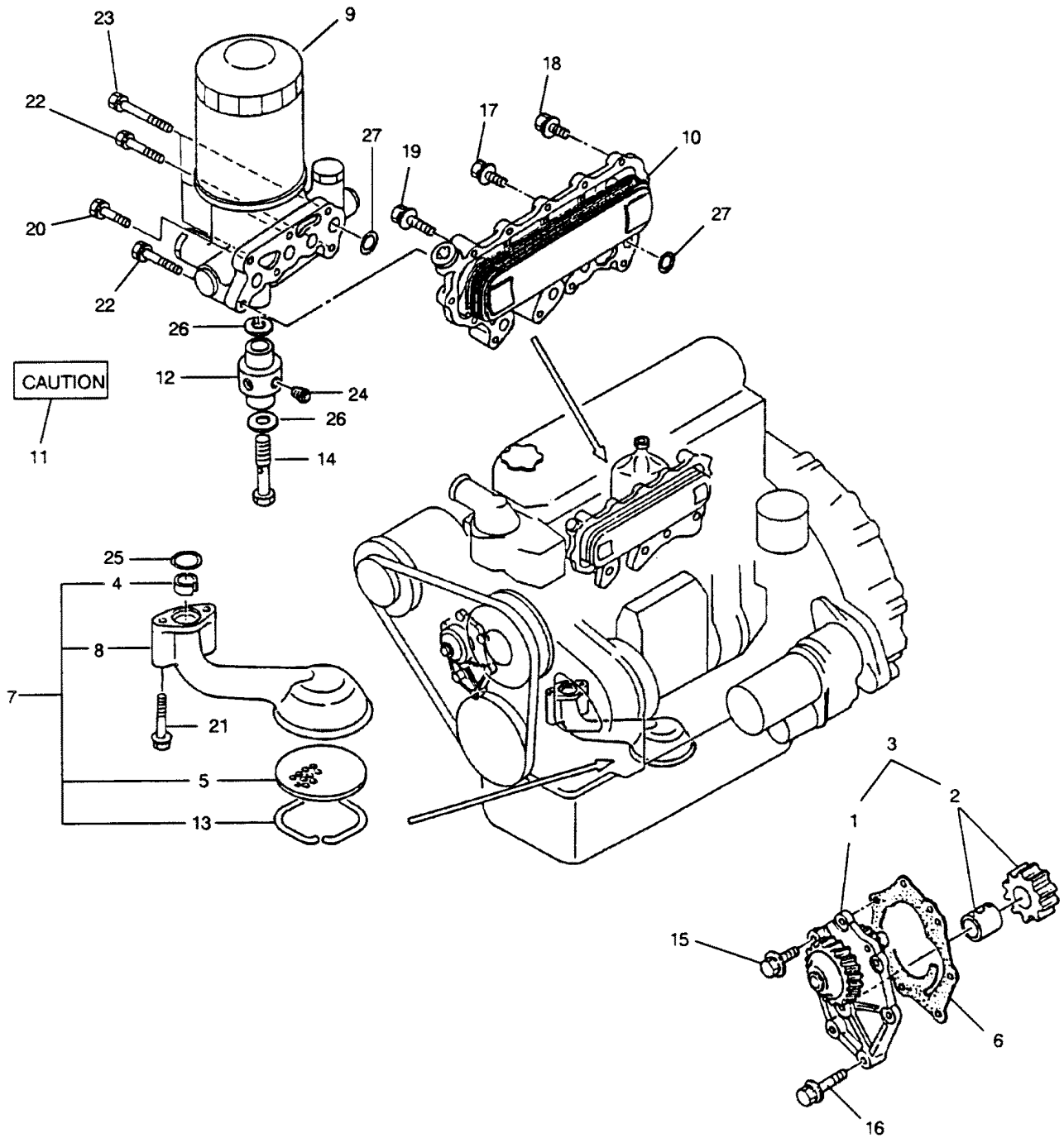
# OIL COOLER (P/N 157101680)



## 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

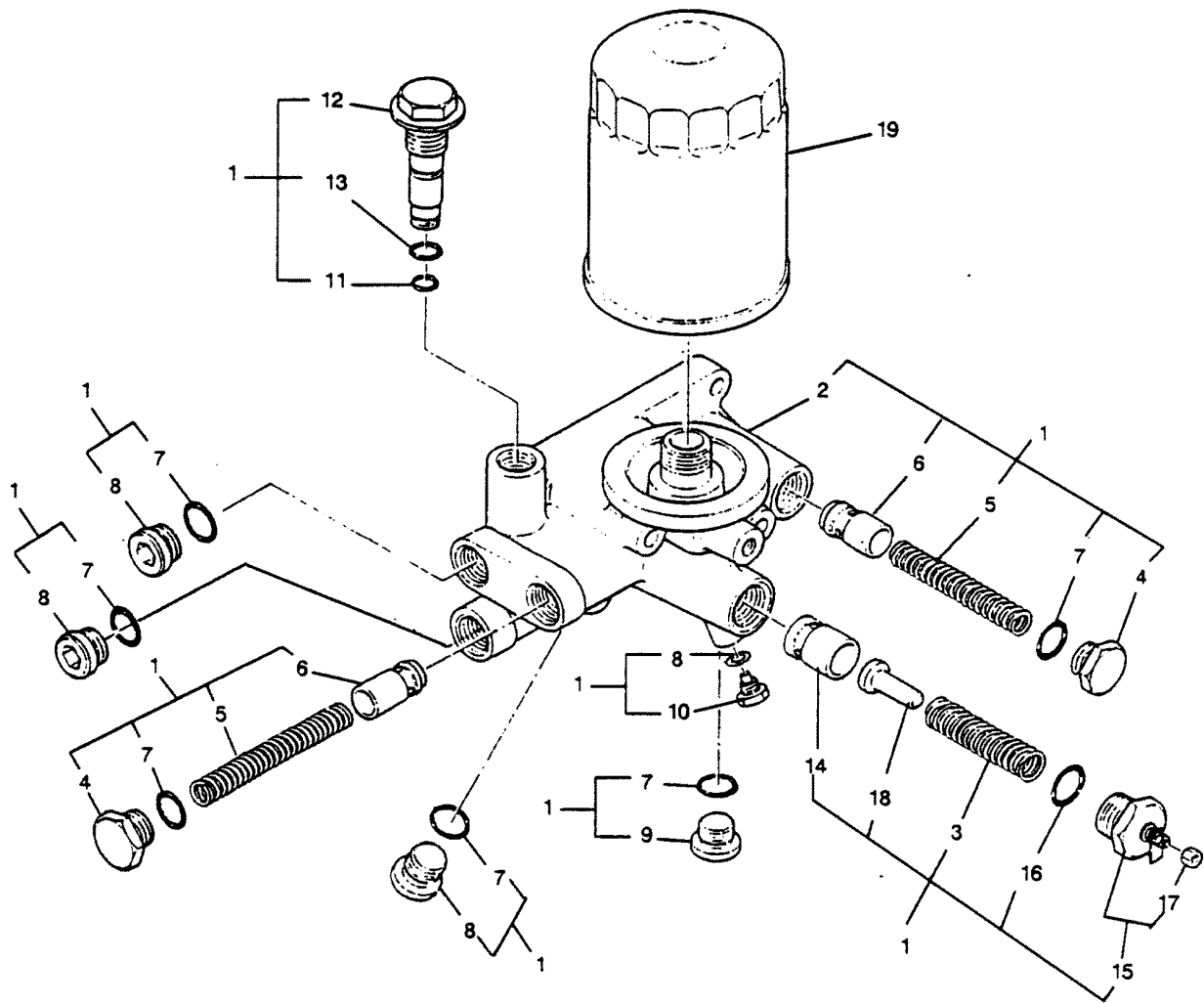
# LUBRICATING SYSTEM



# 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 SEPERATE 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

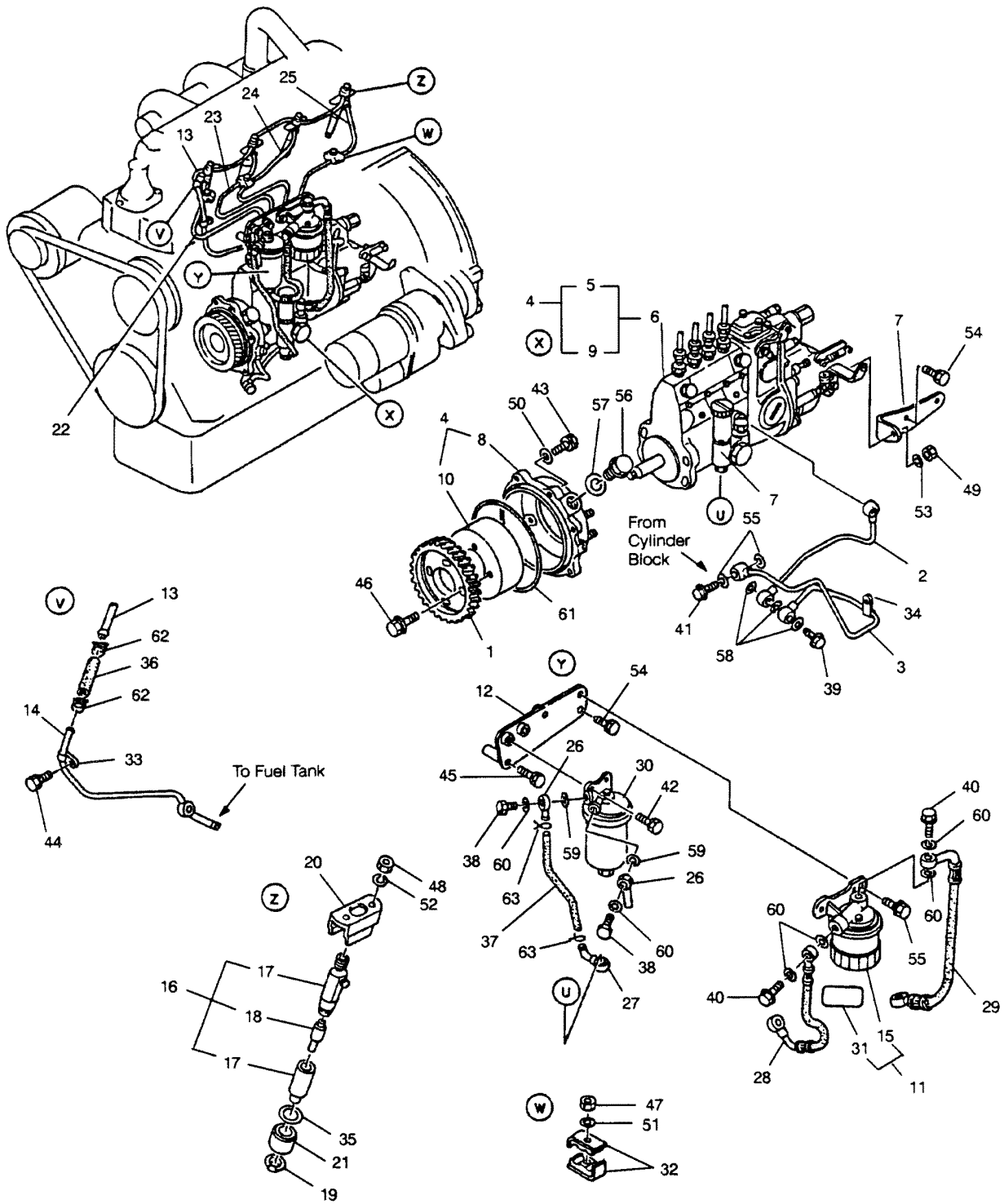
# OIL FILTER BASE ASSEMBLY (P/N 156003490)



## 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



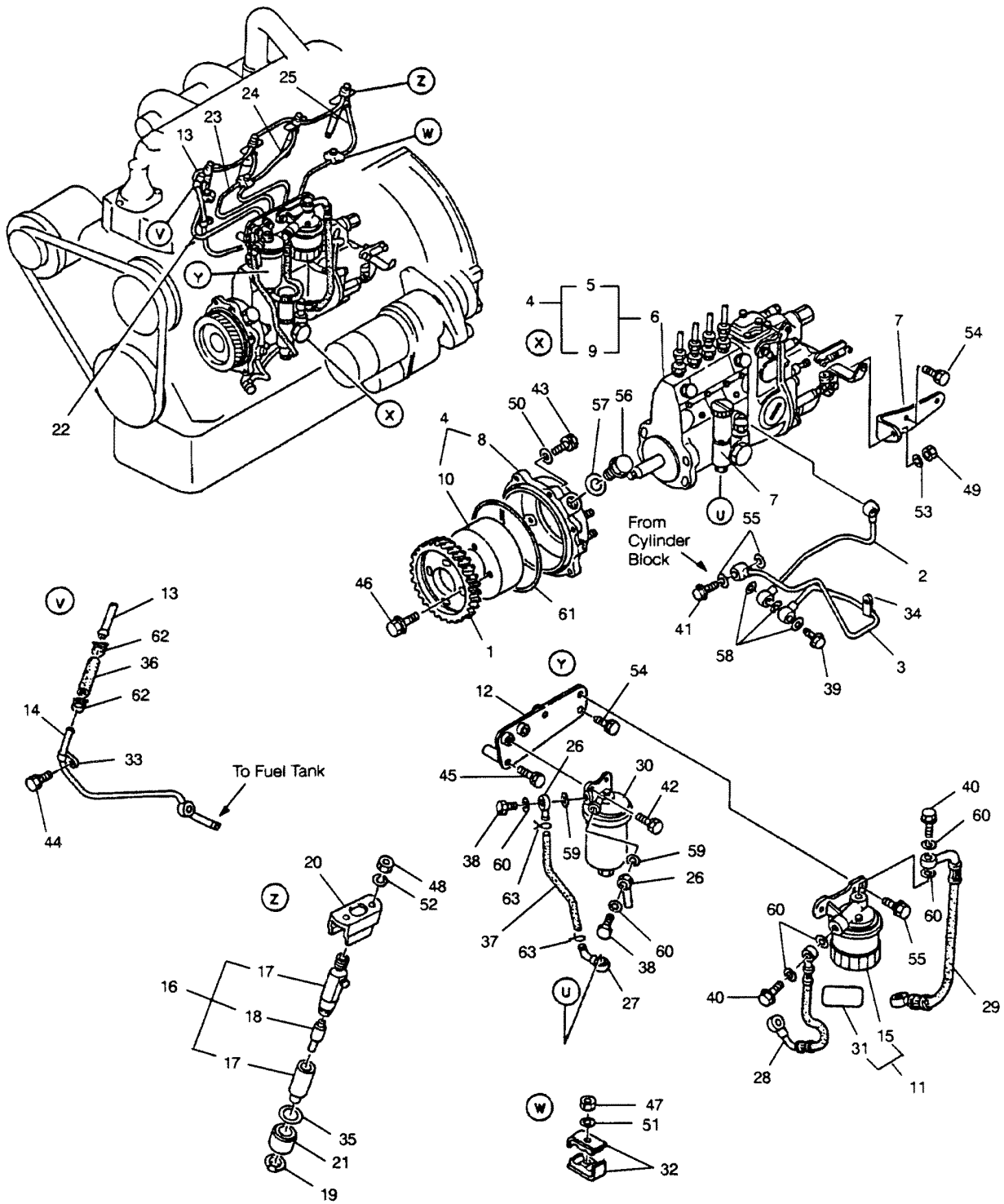


# FUEL SYSTEM

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836131280		1	GEAR DRIVE
2	837731480		1	PIPE, OIL
3	837731371		1	PIPE, OIL
4	830202732		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	830831320		1	PIPE, FUEL FEED
15	833001812		1	BASE & FILTER ASSEMBLY, FUEL
16	836001710		4	NOZZLE & HOLDER SET
17	836201461		4	HOLDER, INJECTION NOZZLE (FOR INDIVIDUAL COMPONENTS SEE SEPARATE SECTION)
18	836401510		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 (FOR INDIVIDUAL COMPONENTS SEE SEPERATE SECTION)
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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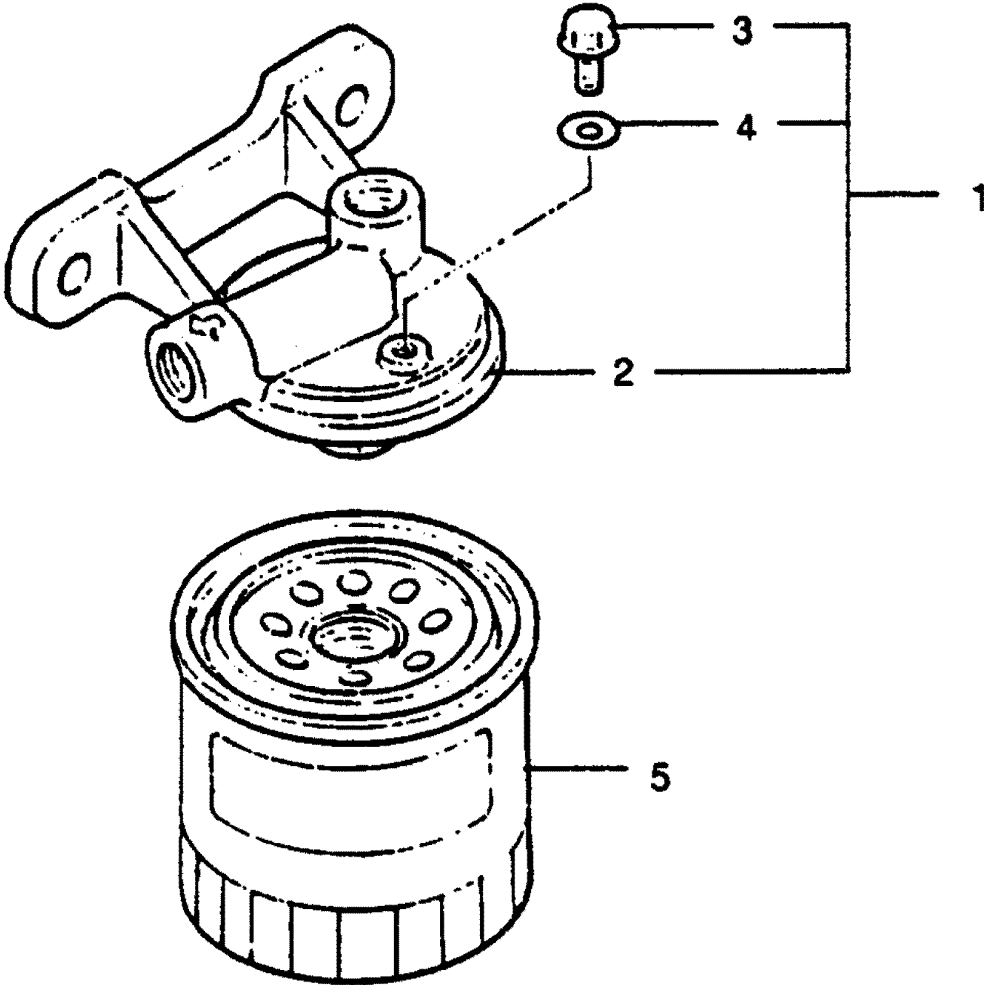
# FUEL SYSTEM



# 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

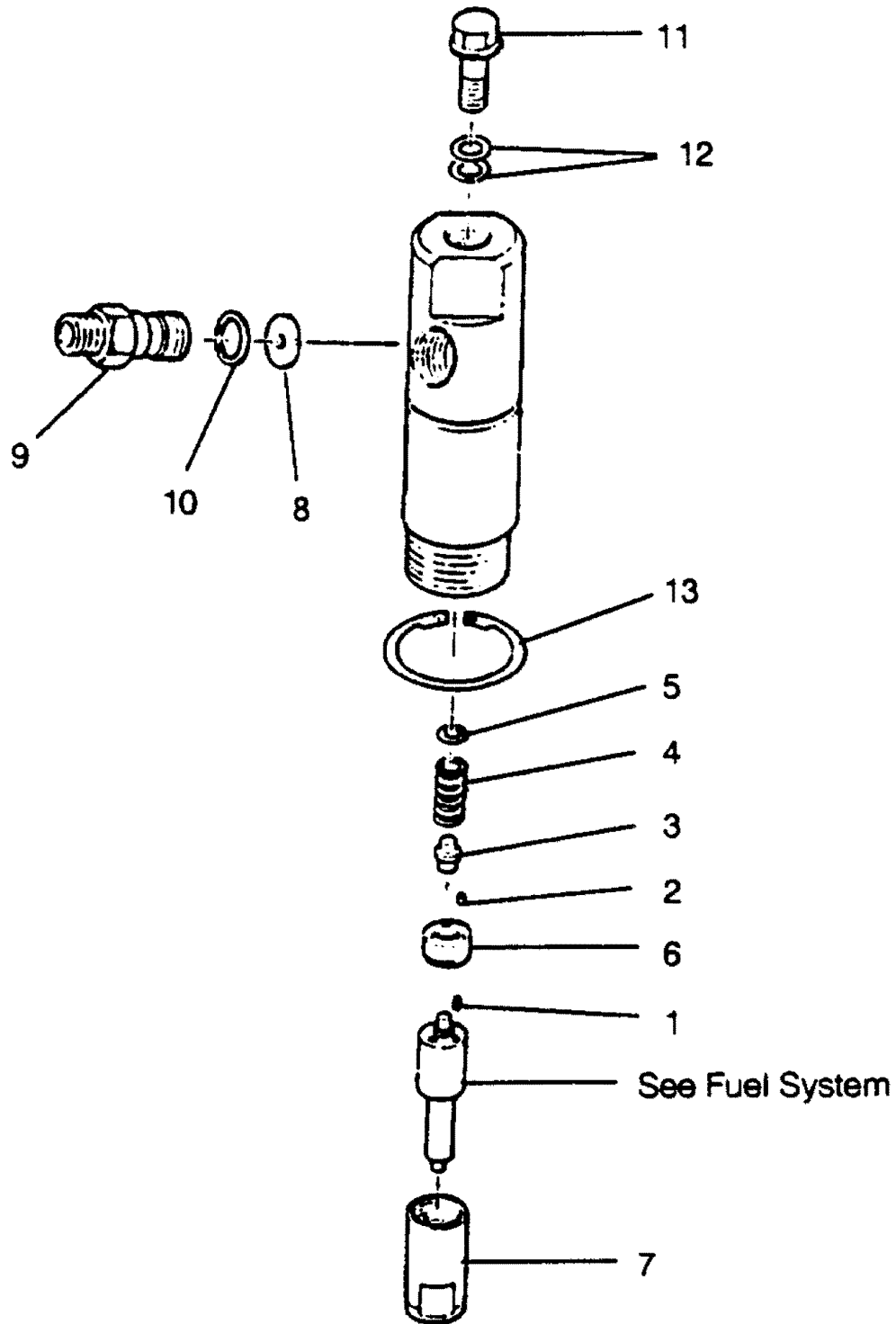
FUEL FILTER (P/N 233001812)



## FUEL FILTER (P/N 233001812)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	833101340		1	BASE ASSEMBLY
2	833111210		1	BASE
3	833161210		1	PLUG, VENT
4	833641040		1	GASKET, PLUG
5	834011132		1	FILTER, FUEL

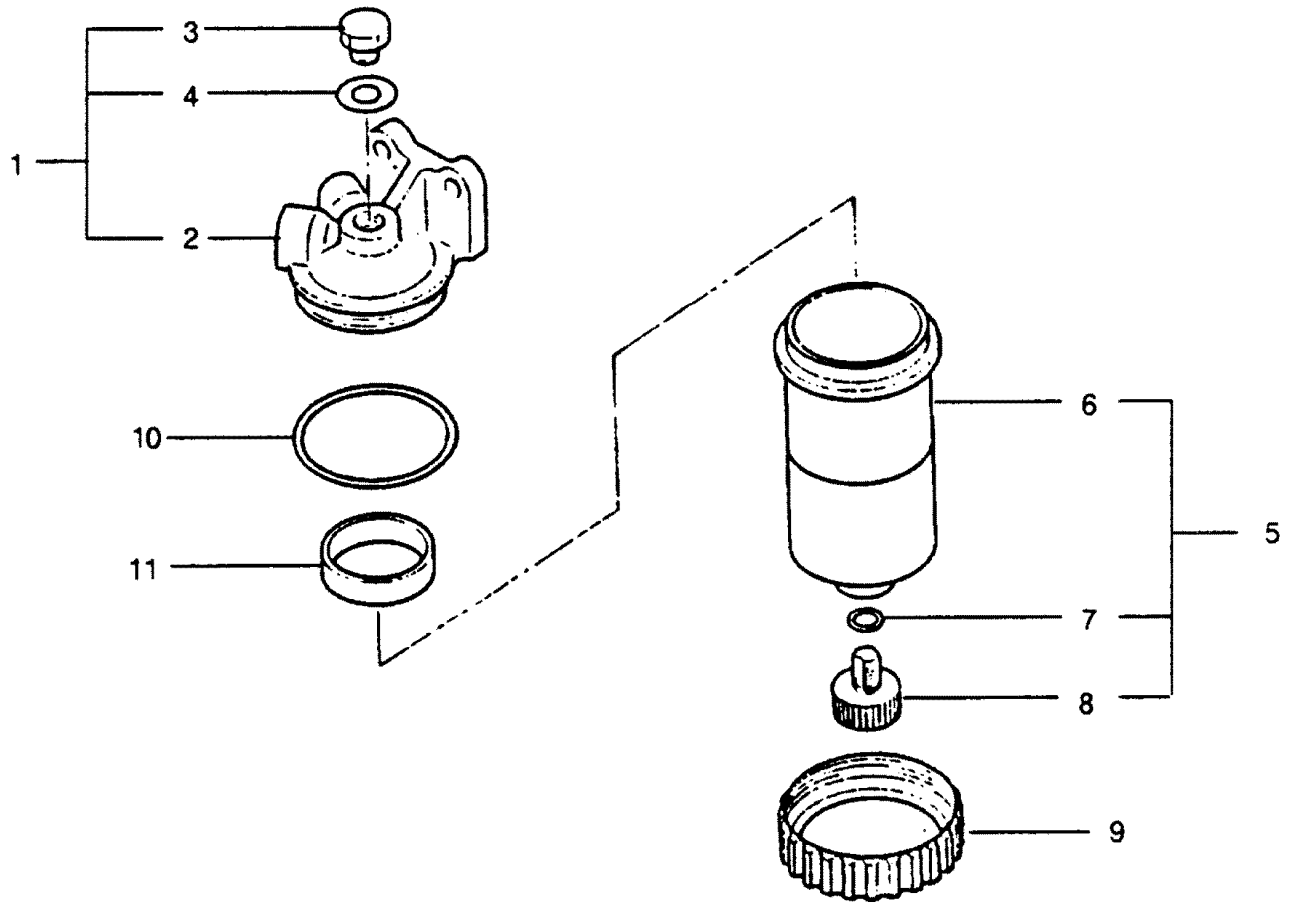
# INJECTOR NOZZLE (P/N 236201461)



## INJECTOR NOZZLE (P/N 236201461)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	836221070		2	PIN, DOWEL
2	836221080		2	PIN, DOWEL
3	836161190		1	PIN, NOZZLE
4	836151180		1	SPRING
6	836171560		1	DISTANCE PIECE
7	836331230		1	NUT, NOZZLE
8	836211080		1	GASKET
9	836111211		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)

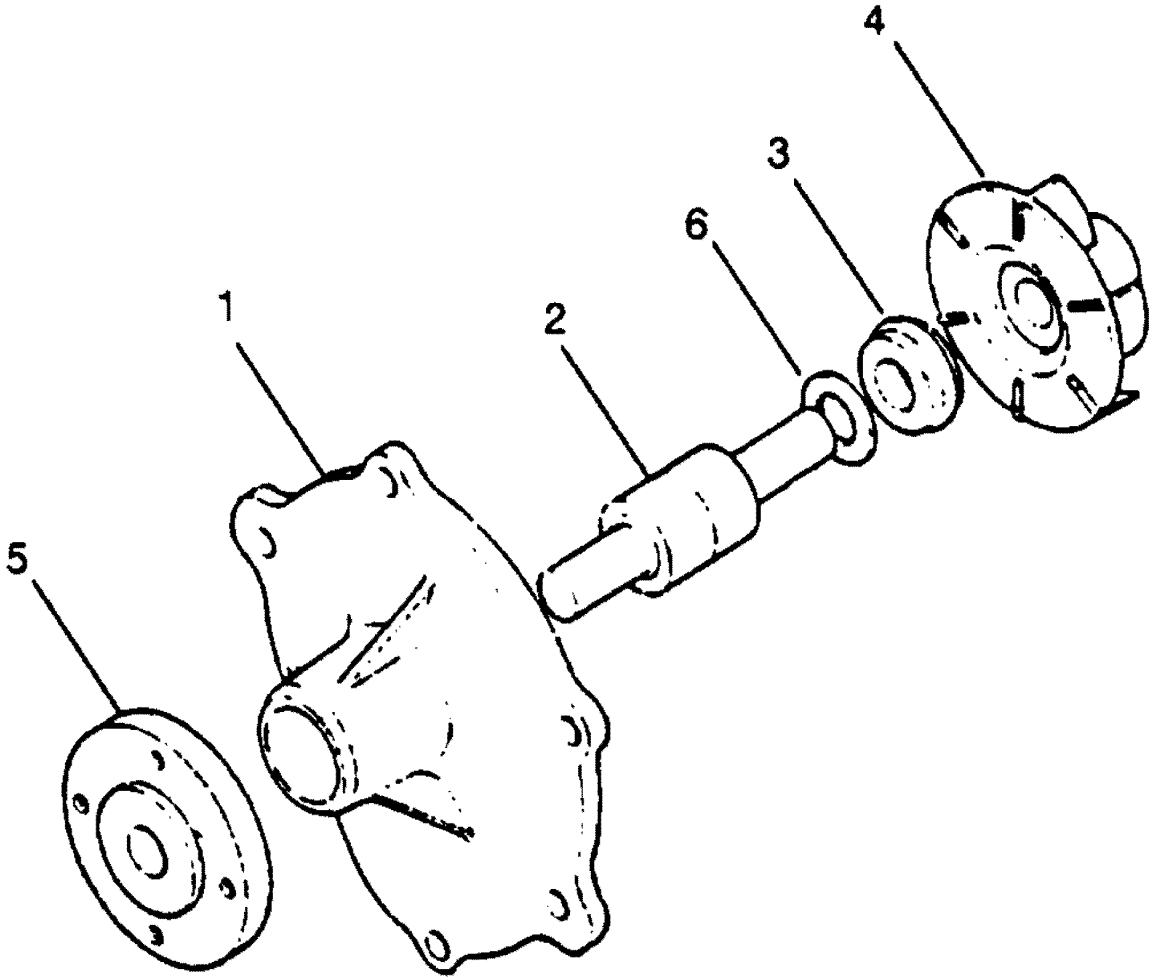




## WATER SEPARATOR (P/N 448031080)

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

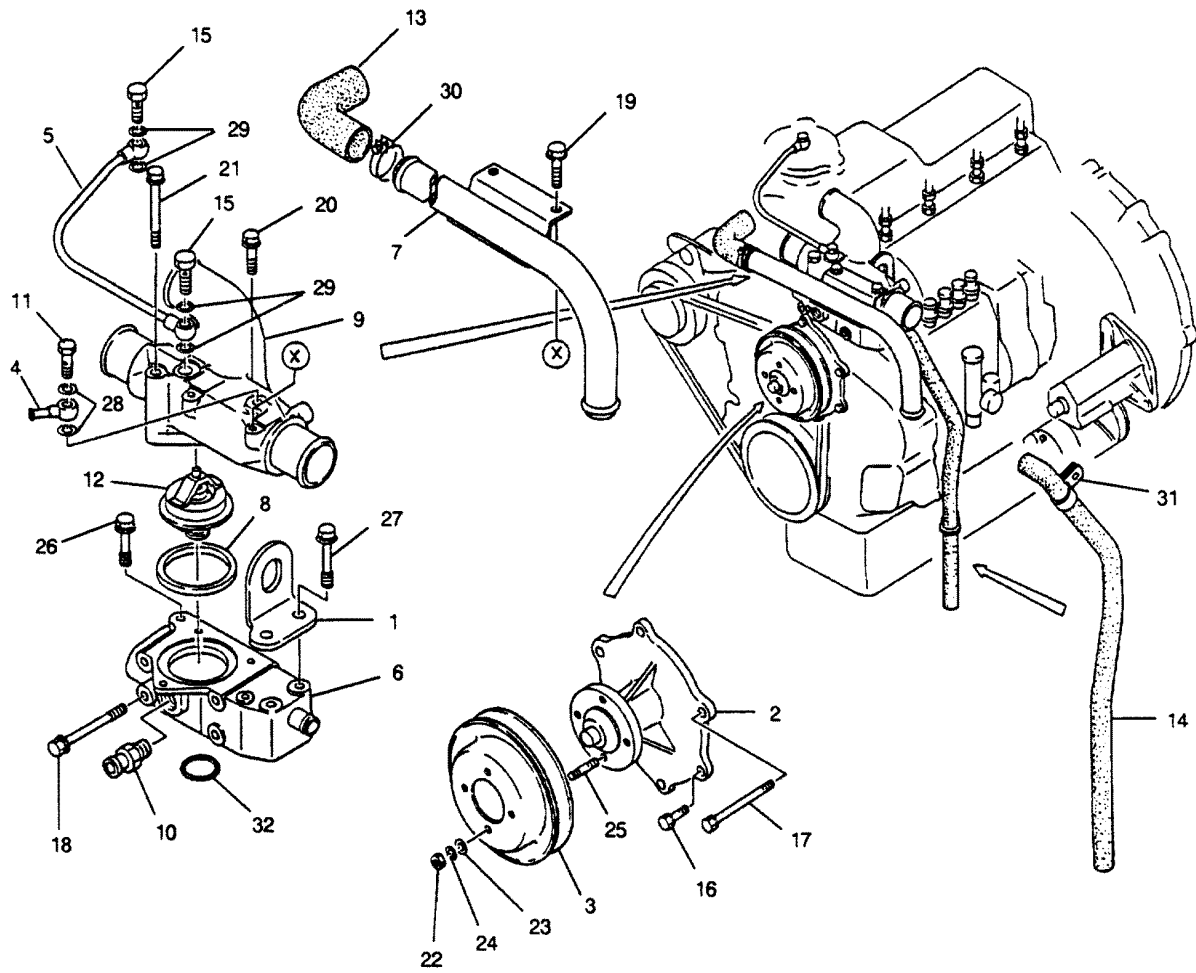
# COOLANT PUMP (P/N 161002342)



## 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

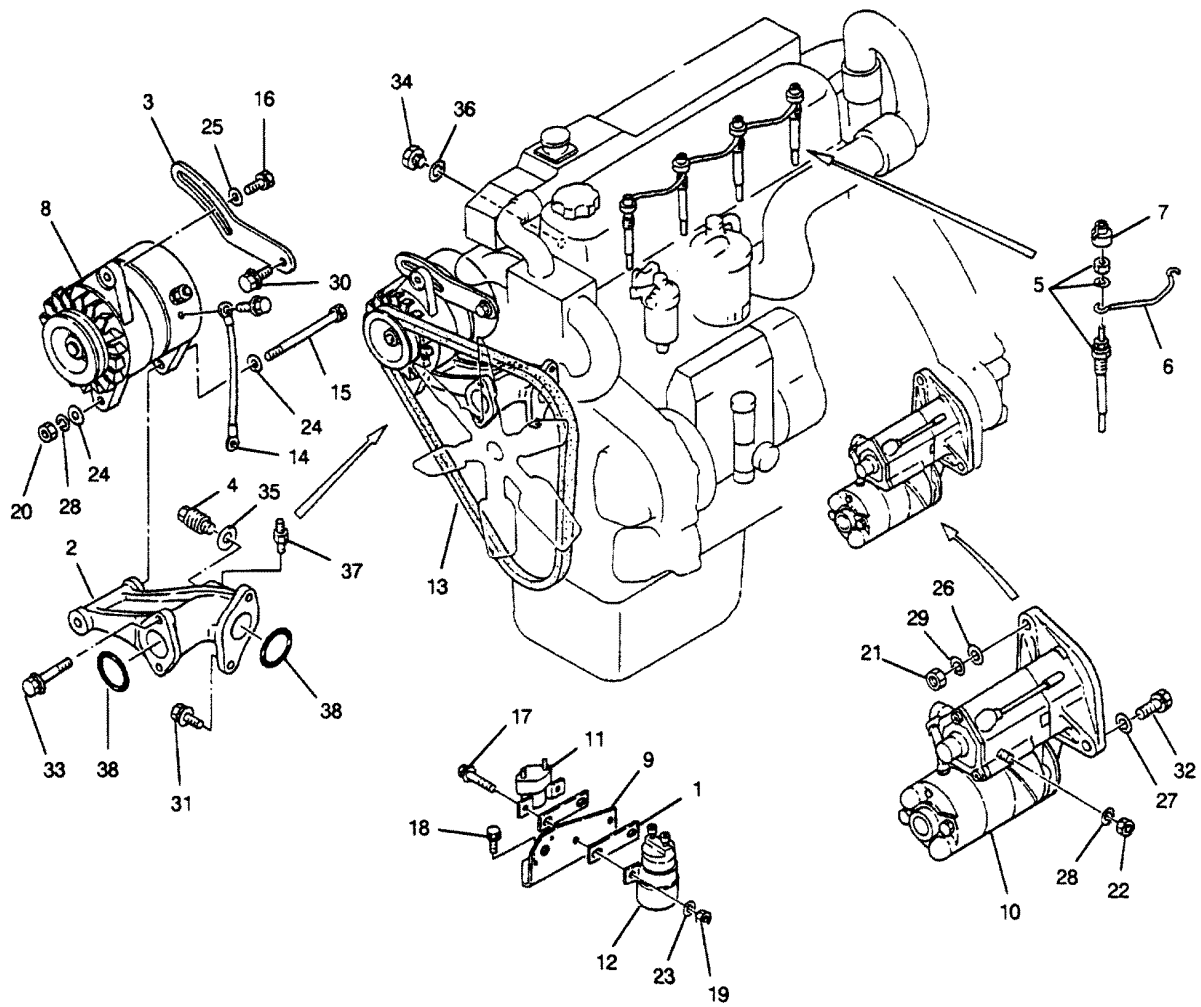
# COOLING SYSTEM



# 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

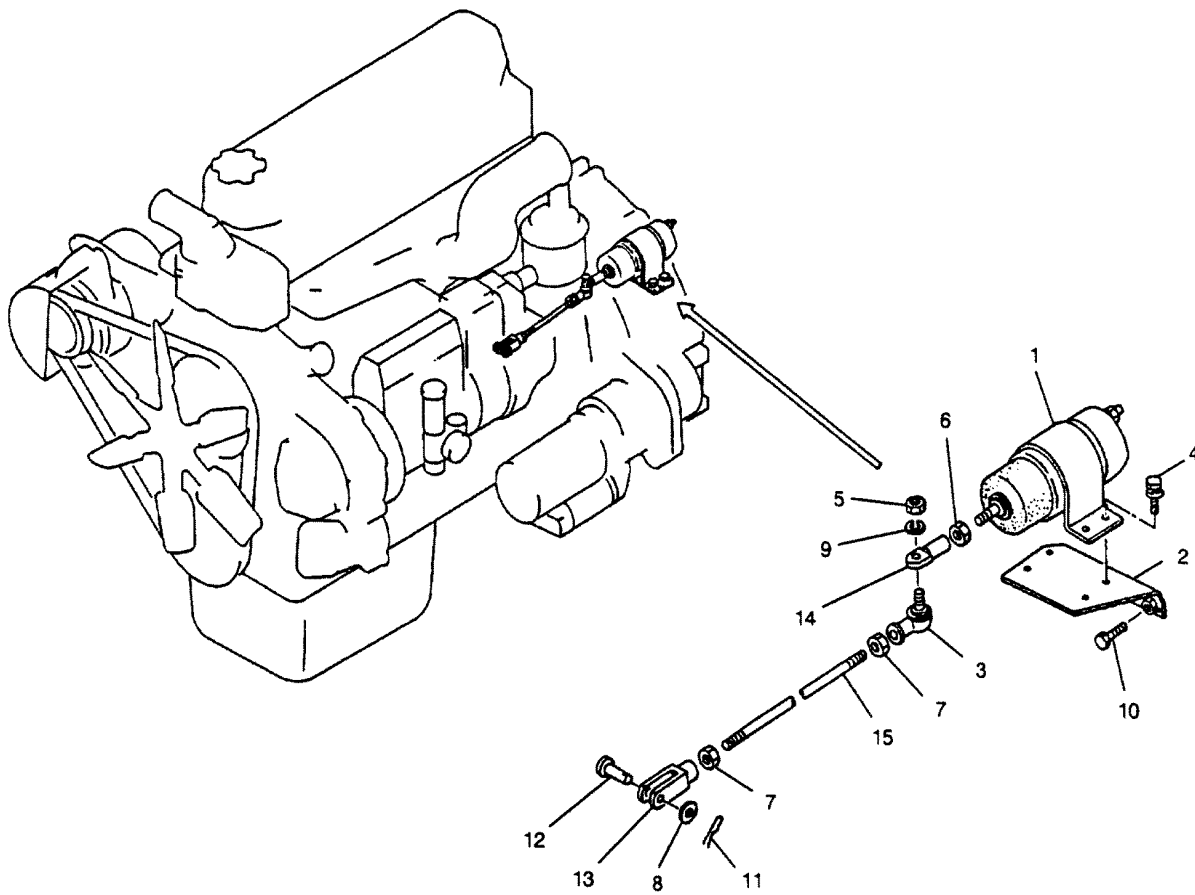
# ELECTRICAL PARTS



# 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	836911230		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	830110250		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		2	O-RING
NS	F733459		1	HARNESS, ENGINE WIRING PORT
	F733460		1	HARNESS, ENGINE WIRING STARBOARD

# STOP SOLENOID

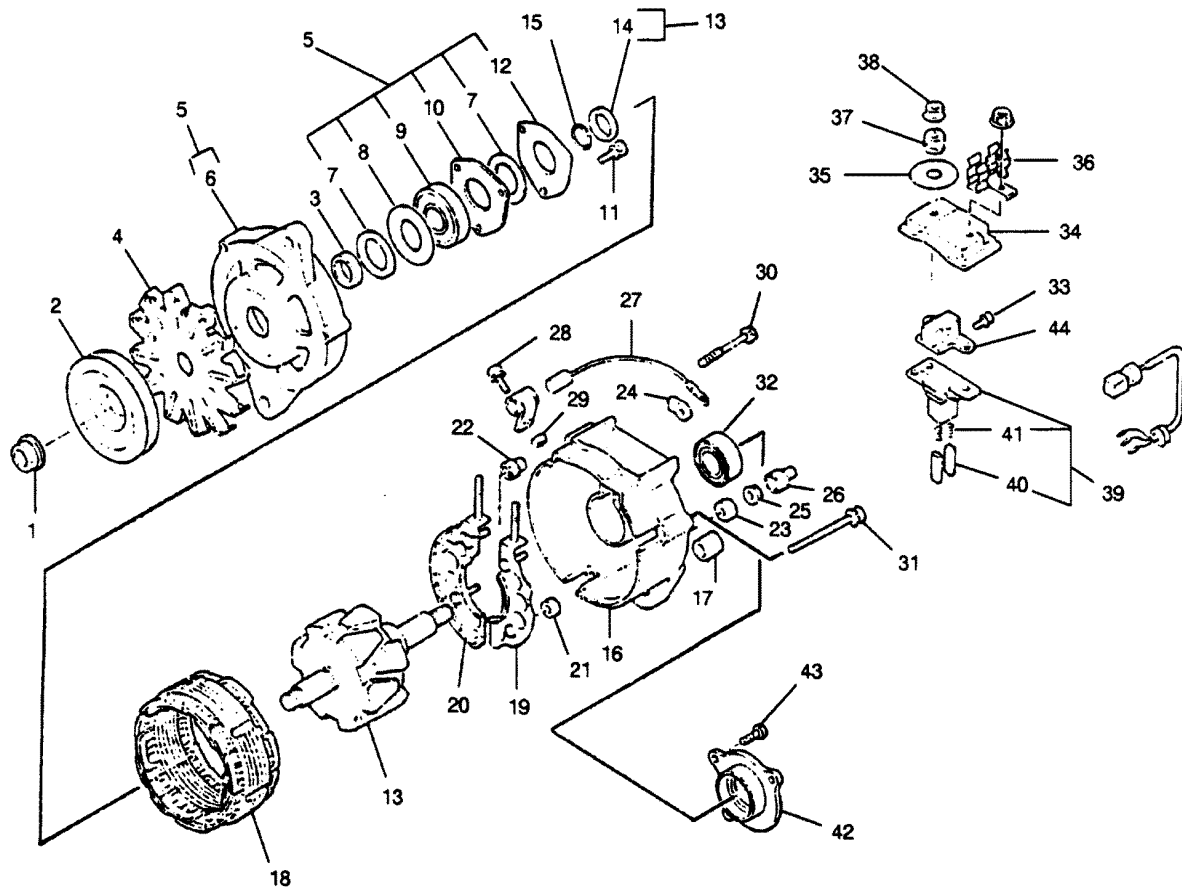




# STOP SOLENOID

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)

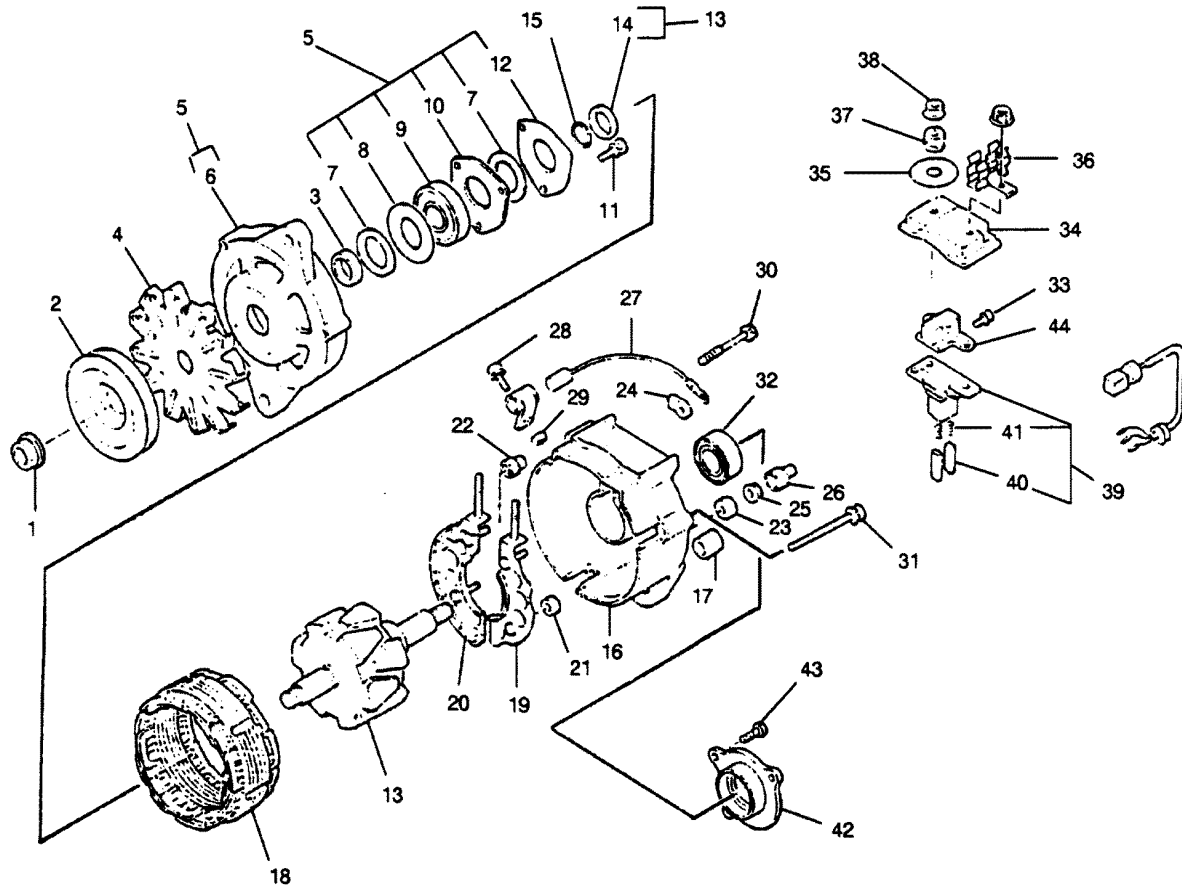


## ALTERNATOR (P/N 270401300)

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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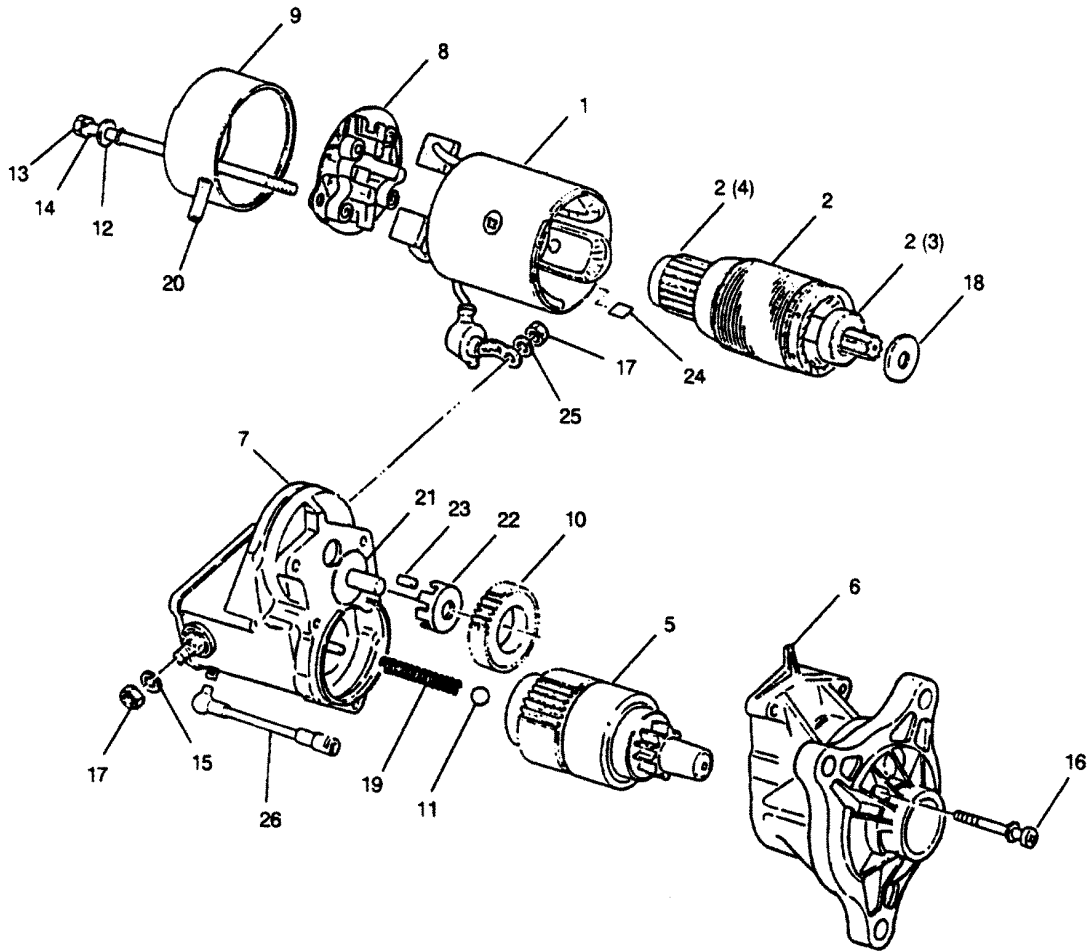
# ALTERNATOR (P/N 270401300)



## 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

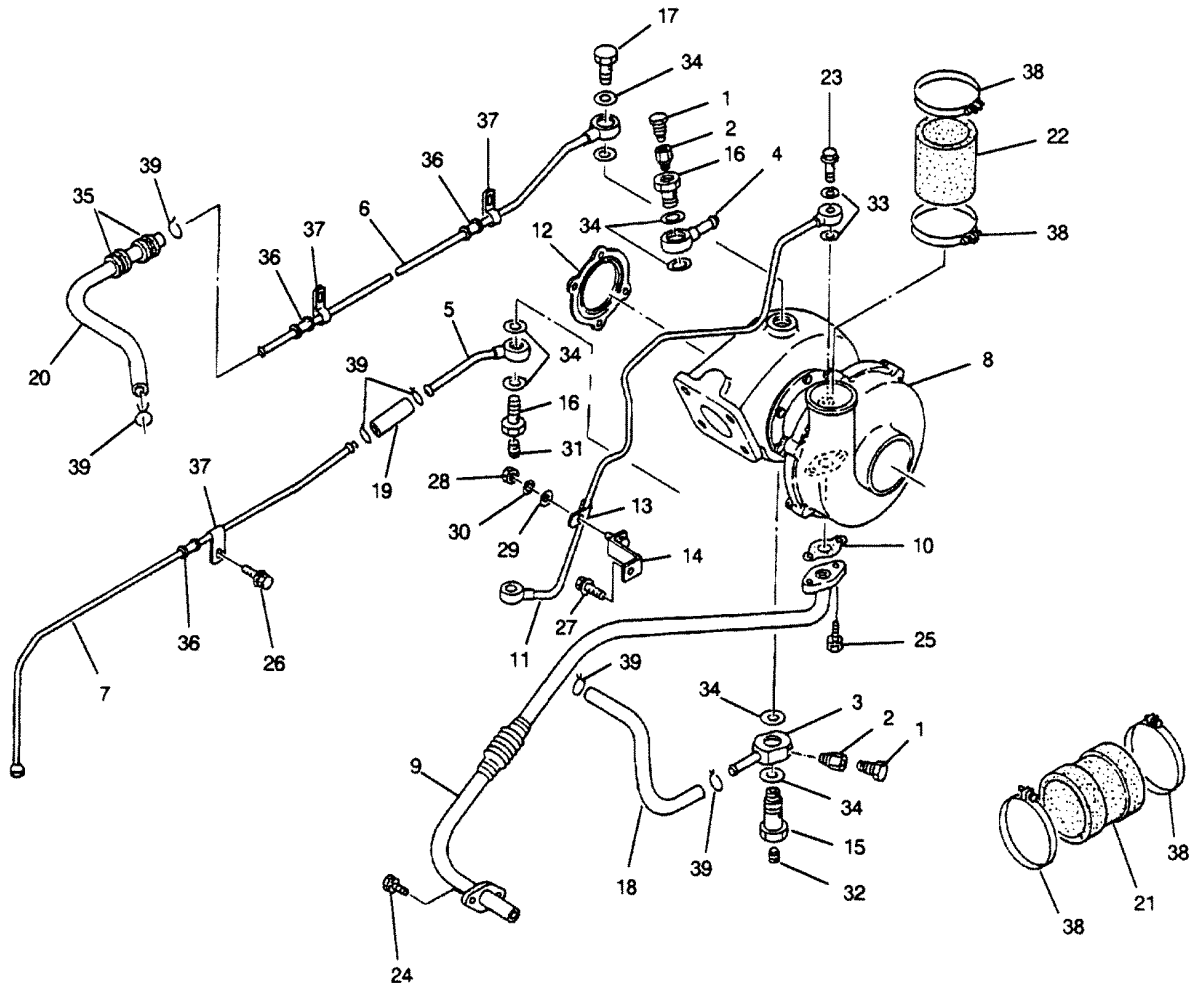
# STARTER (P/N 281001561)



## 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

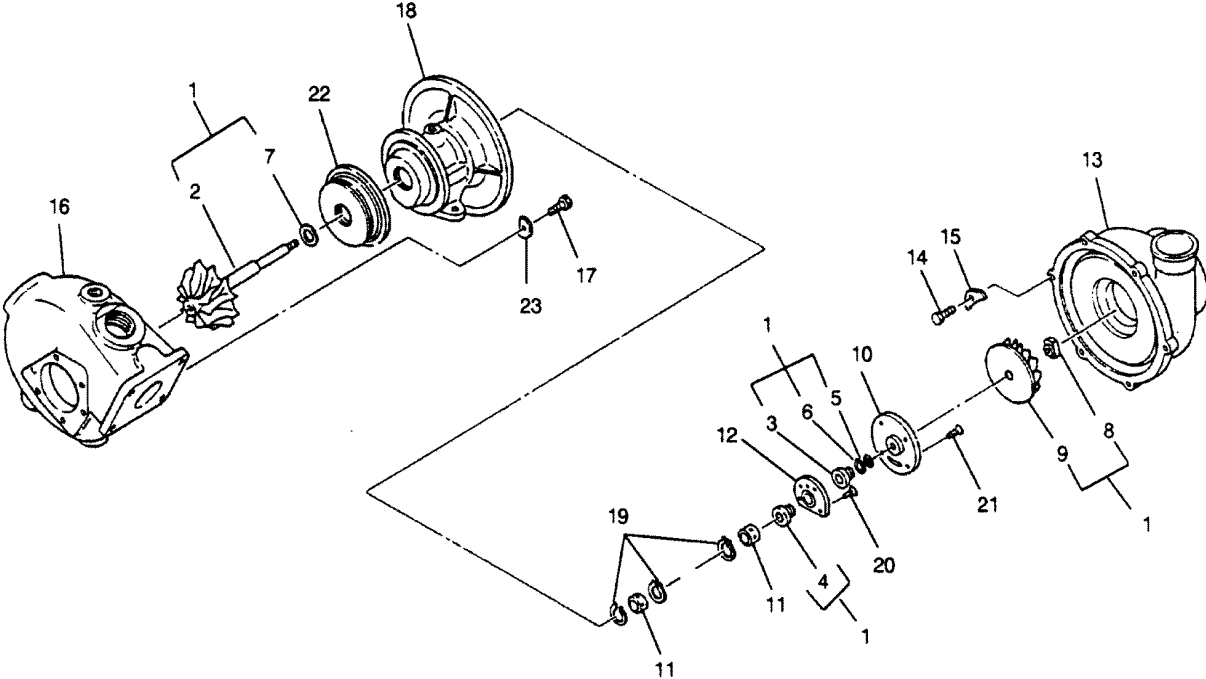




# TURBOCHARGER SYSTEM

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	831001821		1	TURBOCHARGER ASSEMBLY
9	831071231		1	PIPE, OIL DRAIN
10	831351080		1	GASKET
11	831711740		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		2	BOLT, BANJO
17	830124303		1	BOLT, BANJO
18	830154248		1	HOSE, COOLANT
19	830154134		1	HOSE, JOINER
20	830154148		1	HOSE, COOLANT
21	830233363		1	HOSE, AIR
22	830233437		1	HOSE, AIR
23	832910261		1	BOLT, BANJO
24	838108200		2	BOLT
25	839106202		2	BOLT
26	839108162		1	BOLT
27	839108301		1	BOLT
28	830108070		1	NUT
29	836008180		1	WASHER, FLAT
30	838008200		1	WASHER, LOCK
31	832610050		1	PLUG
32	832613060		1	PLUG
33	835410100		2	WASHER, SEALING
34	835420150		8	WASHER, SEALING
35	837225161		2	GROMMET
36	837915107		3	GROMMET
37	836920111		3	CLAMP
38	836975103		4	CLAMP
39	835424102		6	CLAMP

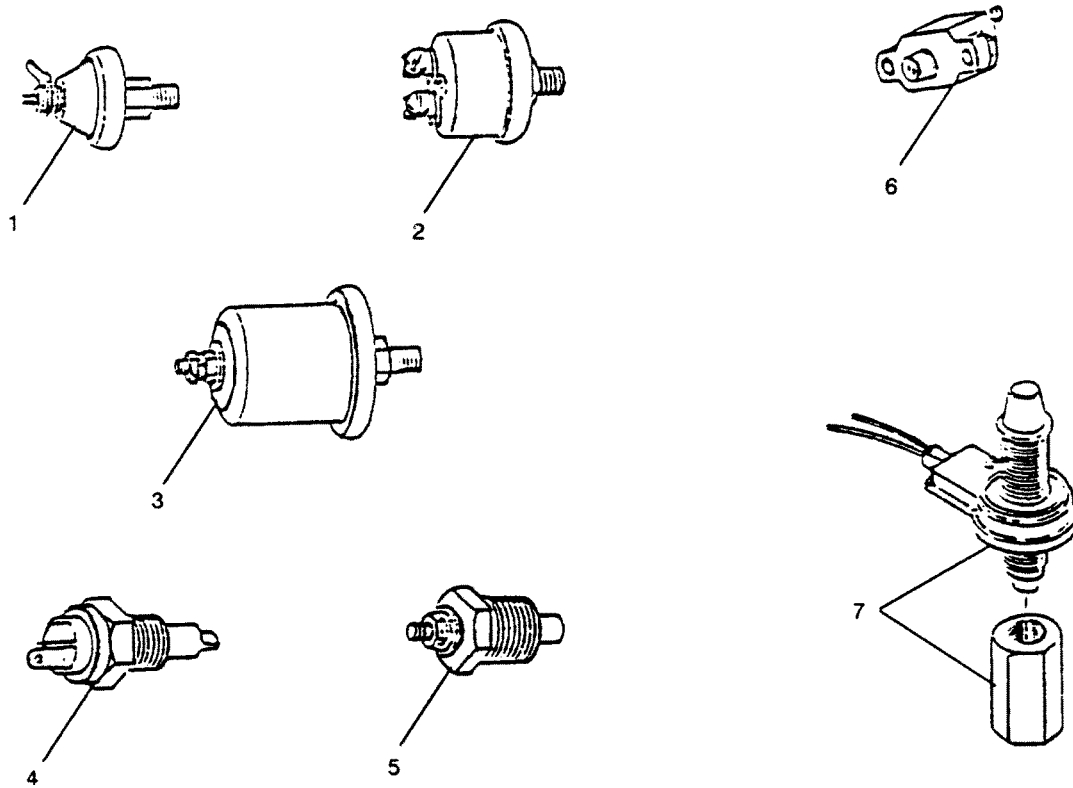
# TURBOCHARGER (P/N 241001821)



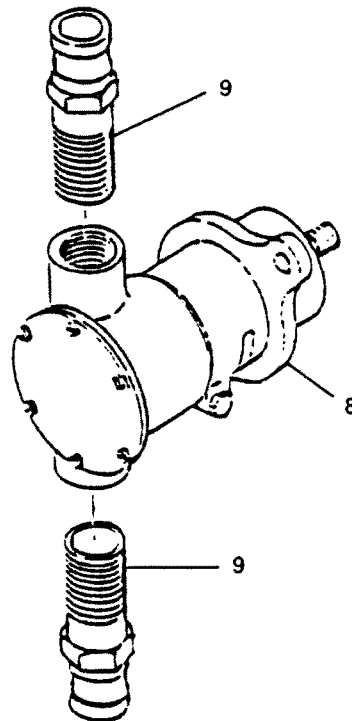
## TURBOCHARGER (P/N 241001821)

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	831501140		1	ROTOR ASSEMBLY
2	834999998		1	ROTOR
3	834999990		1	THROWER, OIL
4	831221050		1	BUSH
5	831241200		1	SEAL, RING
6	831241190		1	SEAL, RING
7	831241270		1	SEAL, RING
8	831171210		1	NUT
9	831181100		1	IMPELLER, BLOWER
10	831271090		1	PLATE
11	831311140		2	BEARING
12	831431090		1	BEARING, THRUST
13	831141130		1	CASE, BLOWER
14	831451240		6	BOLT
15	831231220		6	PLATE
16	831111290		1	CASE, TURBINE
17	831451190		5	BOLT
18	831211130		1	CASE, BEARING
19	831321080		3	RING, NOZZLE
20	831361120		4	SCREW
21	831361130		3	SCREW
22	831411100		1	PROTECTOR, HEAT
23	831231270		5	PLATE

# ELECTRICAL COMPONENTS/RAW WATER PUMP



**NOTE:** FOR PARTS NOT SHOWN SEE PARTS LIST

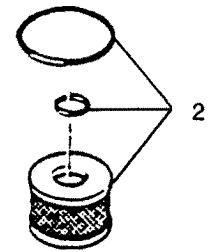
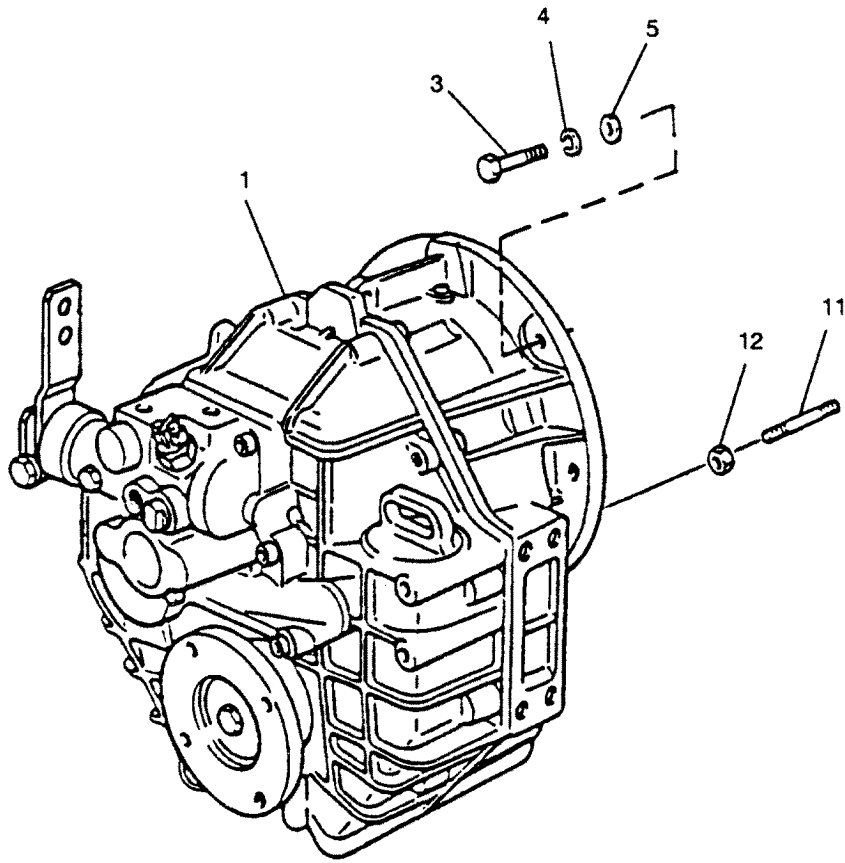
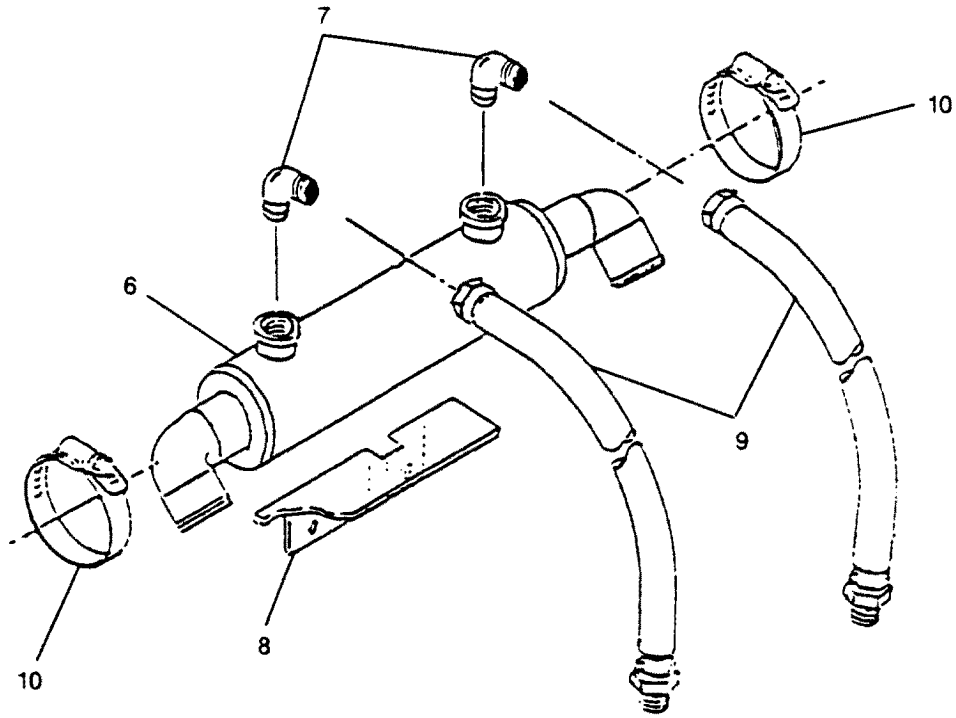


GE 48

## ELECTRICAL COMPONENTS/RAW WATER PUMP

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
NS	F733459		1	HARNESS, ENGINE WIRING - PORT
	F733460		1	HARNESS, ENGINE WIRING - STARBOARD
8	F733635		1	PUMP, RAW WATER
NS	FI8090176		1	IMPELLER
	FI8090175		1	CAM
	FI8090177		1	END COVER - IMPELLER
	FI8090178		1	GASKET, END COVER
	FI8090179		1	PLATE, WEAR - REAR
	FI8090180		1	PIN, LOCATOR - WEAR PLATE
	FI8090181		1	KEY - DRIVE GEAR
	FI8090182		1	SEAL, MECHANICAL
	FI8090183		1	SEAL, LIP
9	F733570		2	NIPPLE 1" NPT X 1-1/4"
NS	833511110		0	GEAR, RAW WATER PUMP DRIVE
	832661090		0	NUT, DRIVE GEAR

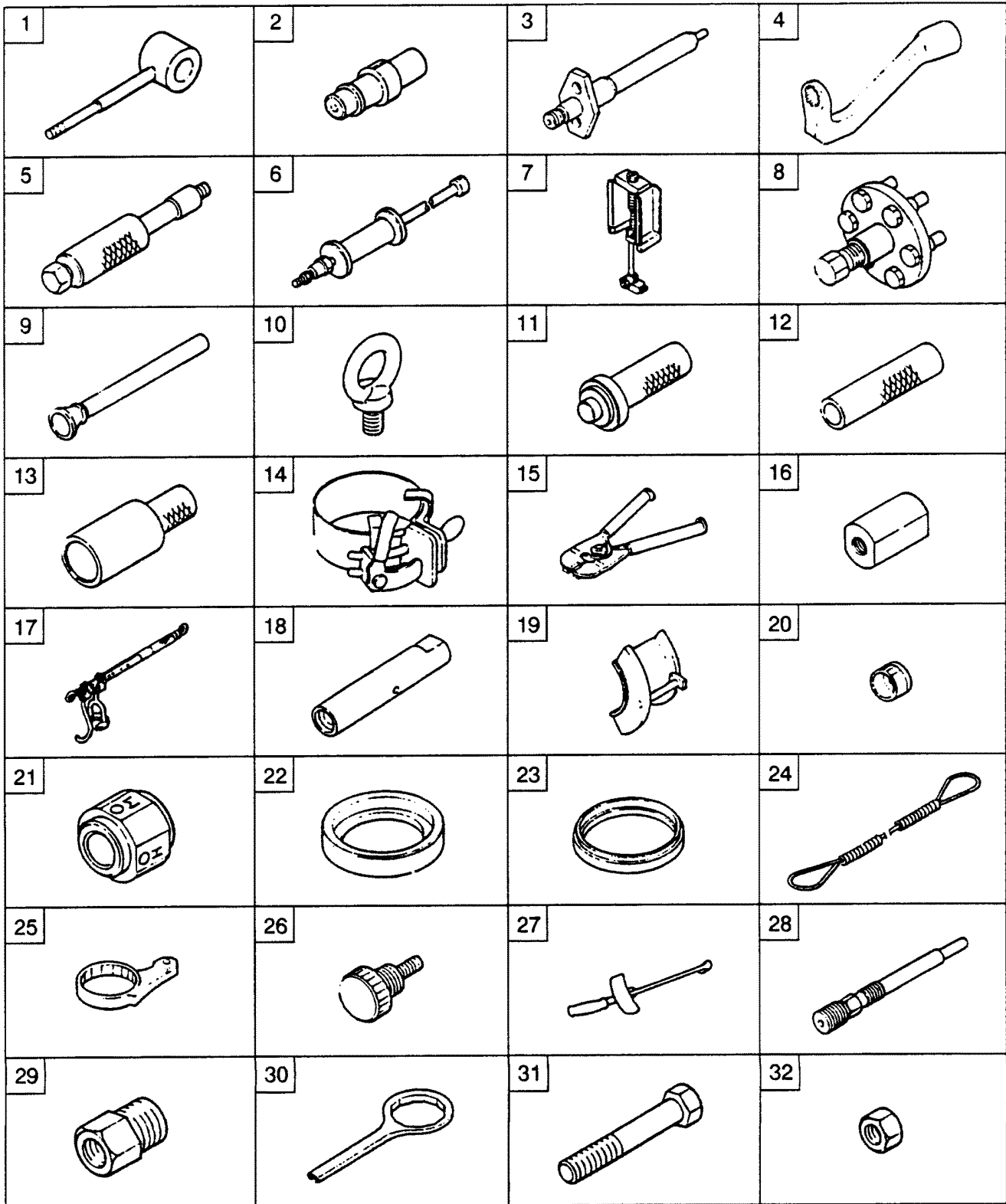
# HURTH TRANSMISSION AND COOLER



## HURTH TRANSMISSION AND COOLER

REF. NO.	PART NO.	SYM.	QTY.	DESCRIPTION
1	F708027		1	TRANSMISSION, HURTH HSW630A-15:1
2	FI9608751		1	FILTER KIT, TRANSMISSION
3	F2319		4	SCREW, TRANS. MOUNTING
4	F8153		6	WASHER, LOCK
5	F8165		6	WASHER, FLAT
6	F733940		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	F708535		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	63	6	830211159	FLANGE	3	18
830004030	NUT	29	17	830211235	FLANGE	11	15
830005080	BALL	15	20	830231118	HOSE, FUEL	31	36
830006050	NUT	47	5	830233363	HOSE, AIR	55	21
830006100	BALL	5	44	830233437	HOSE, AIR	55	22
830016120	PIN, COTTER	47	11	830234364	HOSE, COOLANT	19	37
830062070	BEARING	13	41	830234365	HOSE, COOLANT	19	38
830063023	BEARING	49	32	830234366	HOSE, COOLANT	19	39
830101183	BASE ASSEMBLY, FUEL FILTER	31	11	830234376	HOSE, COOLANT	43	13
830105040	NUT	49	38	830234378	HOSE, WATER	19	40
830105040	NUT, TERMINAL	49	25	830235130	CONNECTOR, PIPE	27	12
830106050	NUT	33	47	830236195	HOSE, CRANKCASE VENT	43	14
830106050	NUT	43	22	830311210	BRACKET	31	12
830106050	NUT	45	19	830311890	MOUNT, ISOLATOR - FRONT	13	NS
830108070	NUT	3	25	830313131	PIPE, INTAKE	19	13
830108070	NUT	21	47	830352280	MOUNT, ISOLATOR - REAR	13	NS
830108070	NUT	33	48	830401300	ALTERNATOR ASSEMBLY	45	8
830108070	NUT	55	28	830405100	PIN, GUIDE	3	31
830108160	STUD	21	54	830406100	PIN	9	12
830110080	NUT	33	49	830408160	PIN, GUIDE	3	30
830110080	NUT	45	20	830408240	PIN, GUIDE	3	29
830110250	BOLT	21	60	830410110	PLUG	21	71
830110250	BOLT	33	54	830511090	PETCOCK, COOLANT	19	3
830110250	BOLT	45	30	830511100	PETCOCK, WATER	19	4
830110250	BOLT, PLATE	11	27	830562139	TUBE	31	37
830110300	BOLT	45	31	830803105	STRAP, GROUND	45	14
830110700	BOLT	43	26	830812020	PIPE, FUEL RETURN	31	13
830111145	SHIM, NOZZLE	31	35	830831320	PIPE, FUEL FEED	31	14
830111240	BEARING SET, THRUST - STD	7	1	830875111	RING, RETAINING	27	13
830111260	CLUTCH, STARTER DRIVE	53	5	830906125	NUT	47	6
830112270	RING SET, STD. (FOR ONE ENGINE)	7	4	830908137	NUT	25	6
830114110	NUT	45	21	830910141	NUT	45	22
830115222	GASKET, END CAP	19	35	830910141	NUT, JAM,	21	49
830116148	SPACER	7	18	830910142	NUT, JAM	21	50
830116318	SPACER	19	36	830910142	NUT, TURBO	21	48
830121221	COVER, OIL PUMP	27	1	830912102	PLUG	45	34
830121250	BEARING SET, THRUST - .25MM O/S	7	2	830912103	PIN	3	32
830124244	BOLT, IDLER GEAR	9	8	830912118	BOLT	3	28
830124303	BOLT, BANJO	43	11	830912119	BOLT	45	32
830124303	BOLT, BANJO	55	17	830920102	PLUG	25	2
830124329	BOLT, BANJO	55	16	830920102	PLUG	29	9
830124344	BOLT, BANJO	55	15	830927102	NUT, CRANKSHAFT	7	22
830126105	LOCK, VALVE SPRING	17	16	831001561	STARTER ASSEMBLY	45	10
830129119	COLLAR	7	20	831001821	TURBOCHARGER ASSEMBLY	55	8
830129174	COLLAR, SPACER	17	17	831002342	PUMP, COOLANT	43	2
830146177	THERMOSTAT	43	12	831006040	NUT	49	29
830149105	BELT, ALTERNATOR	45	13	831006040	NUT, LOCK	47	7
830154134	HOSE, JOINER	55	19	831006170	PIN, CLEVIS	47	12
830154148	HOSE, COOLANT	55	20	831010060	NUT	53	17
830154248	HOSE, COOLANT	55	18	831018090	NUT, LOCK - ISOLATOR STUD	13	NS
830202732	PUMP ASSEMBLY COMPLETE, INJECTION	31	4	831041122	GASKET, EXHAUST MANIFOLD	19	14
830210300	BOLT, BRACKET	11	28	831041150	GASKET, EXHAUST RISER	19	NS
830210300	BOLT, SPACER	7	25	831041180	SEAL	41	3
830211121	PIPE, ADAPTER - EXHAUST	19	11	831041210	GASKET, TURBO	19	16
830211130	PIPE, TURBO	19	12	831041250	GASKET	19	15
				831043092	BRACKET, THROTTLE	19	33
				831051020	MANIFOLD CASE, EXHAUST	19	17

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
831071231	PIPE, OIL DRAIN	55	9	831361130	SCREW	57	21
831071250	COVER ASSEMBLY, OIL PUMP	27	2	831362500	BRACKET, PIPE	19	20
831081100	CAP, OIL FILLER	15	10	831371080	FELT, OIL	53	18
831091101	SHAFT	41	2	831372250	RING, RETAINING	11	37
831101160	GLOW PLUG ASSEMBLY	45	5	831391160	LEADWIRE	53	26
831101521	PUMP ASSEMBLY, OIL	27	3	831401100	MANIFOLD ASSEMBLY, EXHAUST	19	21
831103400	CYLINDER HEAD - BARE	15	1	831401220	HOLDER, BRUSH	53	8
831106120	STUD	43	25	831401390	STRAINER ASSEMBLY	27	7
831108750	STUD, NOZZLE	15	12	831411100	PROTECTOR, HEAT	57	22
831110202	BOLT, BRACKET	21	63	831411230	STRAINER	27	8
831110252	BOLT, BRACKET	21	61	831412250	TUBE, OIL LEVER GAGE	3	8
831110351	BOLT	33	55	831431090	BEARING, THRUST	57	12
831110401	BOLT	15	13	831451190	BOLT	57	17
831110401	BOLT, HOUSING	11	30	831451240	BOLT	57	14
831110402	BOLT, BRACKET	21	62	831471020	SLINGER	41	6
831110701	BOLT	45	33	831501140	ROTOR ASSEMBLY	57	1
831110801	BOLT	43	27	831501640	SOLENOID, STARTER	53	7
831111290	CASE, TURBINE	57	16	831521362	BRACKET, MANIFOLD	19	25
831111592	CASE	41	1	831521420	BRACKET, MANIFOLD	19	24
831112871	MANIFOLD, INTAKE	19	18	831521480	BRACKET, MANIFOLD	19	23
831112920	PAN, OIL	3	7	831521500	BRACKET, MANIFOLD	19	22
831114402	BOLT, HOUSING	11	29	831541090	BOOT, SOLENOID	53	20
831121151	WIRE, GROUND	45	6	831601380	ARMATURE ASSEMBLY	53	2
831121590	BOLT, HOUSING	53	13	831681280	RING, RETAINER	53	21
831121600	BOLT, HOUSING	53	16	831681290	RING, RETAINER	53	22
831131050	INSULATOR, GLOW PLUG	45	7	831691150	PLATE, MANIFOLD	19	26
831131620	PIPE, COOLANT	19	5	831691170	PLATE, MANIFOLD	19	27
831133270	PIPE, INTAKE	19	19	831691180	PLATE, MANIFOLD	19	28
831141050	GUIDE, O-RING	27	4	831711021	CENTER, PULLEY	41	5
831141130	CASE, BLOWER	57	13	831711401	GASKET, MANIFOLD	19	29
831151530	HOUSING	53	6	831711740	PIPE, OIL INLET	55	11
831151821	GASKET, CYLINDER HEAD	15	2	831732110	PULLEY, PUMP	43	3
831161071	SCREEN, STRAINER	27	5	831791170	GASKET, TURBO	55	12
831171100	BUSHING, OIL PUMP	3	12	831811170	VALVE, COOLANT	45	4
831171210	NUT	57	8	831851110	BODY, VENT VALVE	55	1
831181100	IMPELLER, BLOWER	57	9	831851440	BOLT, CYLINDER HEAD	15	6
831191121	GASKET, OIL PUMP	27	6	831851450	BOLT, CYLINDER HEAD	15	7
831201310	YOKE ASSEMBLY	53	1	831881020	SEAT, VALVE	55	2
831210301	BOLT	47	10	831906106	STUD	21	55
831210301	BOLT, BRACKET	11	31	831908113	NUT, ADJUST SCREW	17	19
831210351	BOLT, BRACKET	21	64	831910105	BOLT, MANIFOLD	21	65
831211130	CASE, BEARING	57	18	831910112	BOLT, MANIFOLD	21	66
831221050	BUSH	57	4	831910115	BOLT, ALTERNATOR PIVOT	45	15
831221140	BUSHING, VALVE GUIDE REPAIR	15	3	831910118	BOLT	21	67
831231220	PLATE	57	15	831910118	BOLT, BRACKET	11	32
831231270	PLATE	57	23	831910119	BOLT, BRACKET	21	68
831241190	SEAL, RING	57	6	831910132	BOLT, RISER	21	69
831241200	SEAL, RING	57	5	831912113	BOLT, BRACKET	21	70
831241270	SEAL, RING	57	7	831913101	BOLT, BANJO	31	38
831271090	PLATE	57	10	831914237	BOLT, BANJO	27	14
831301320	FRAME ASSEMBLY	53	9	831918169	BOLT, BANJO	3	19
831311140	BEARING	57	11	831922102	PLUG	33	56
831311210	SEAT, VALVE - INTAKE	15	4	831937102	RING, RETAINING	7	27
831311340	VANE	41	4	832011540	BEARING SET, STD. (FOR ONE ENGINE)	7	5
831321080	RING, NOZZLE	57	19	832031550	BEARING SET, .25MM U/S	7	-
831351080	GASKET	55	10	832041520	BEARING SET, .50MM U/S	7	-
831351320	SEAT, VALVE - EXHAUST	15	5	832051510	BEARING SET, .75MM U/S	7	-
831361120	SCREW	57	20	832061500	BEARING SET, 1.0MM U/S	7	-

# PARTS INDEX

Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
832071120	COVER, END	19	1	833041221	BRACKET, ENGINE MTG. - LEFT REAR	11	10
832071150	COVER, END	19	2				
832111940	COVER, CYLINDER HEAD	15	8	833091061	HANGER, ENGINE	3	9
832131550	GASKET, CYLINDER HEAD COVER	15	9	833101340	BASE ASSEMBLY	35	1
832161631	PISTON	7	6	833101470	FRAME ASSEMBLY, DRIVE END	49	5
832191100	WASHER	53	12	833111210	BASE	35	2
832191110	WASHER	53	14	833111330	PLATE, TIMING COVER	11	1
832191120	WASHER	53	15	833111410	FRAME, DRIVE END	49	6
832191130	WASHER	53	25	833121101	GASKET, PLATE	11	2
832210080	PLUG HOUSING	11	33	833121510	PLATE, RETAINER	49	10
832217120	PLUG	21	72	833151180	FELT	49	7
832261020	ROLLER, CLUTCH	53	23	833151190	FELT	49	8
832361030	SPRING, SOLENOID	53	19	833151210	FELT	49	12
832501020	JOINT, ROD	47	3	833161030	PLUG, VENT	39	3
832501040	PINION	53	10	833161210	PLUG, VENT	35	3
832511300	PIN, PISTON	7	7	833171480	BOLT	49	30
832521190	BEARING	53	3	833171490	BOLT	49	31
832521200	BEARING	53	4	833211020	JOINT	43	10
832601460	ROD ASSEMBLY, CONNECTING	7	8	833211020	NIPPLE, HOSE	11	14
832610050	PLUG	55	31	833221030	PLUG, DRAIN	39	8
832613060	PLUG	55	32	833223080	COVER, TIMING GEAR	11	3
832621090	HOLDER	53	11	833251280	GASKET, THERMOSTAT	43	8
832651371	BOLT, ROD CAP	7	9	833301600	ROTOR ASSEMBLY	49	13
832661090	NUT, DRIVE GEAR	59	NS	833307200	KEY, GEAR	9	13
832661280	PLATE	53	24	833310360	NUT	63	32
832681890	PIPE, COOLANT	55	7	833331030	RING, SPACER	49	15
832681900	PIPE, BANJO	43	4	833331621	MANIFOLD, COOLANT	43	9
832681900	PIPE, COOLANT	55	4	833432060	BRACKET, PUMP	31	7
832681960	PIPE, COOLANT	55	3	833501880	HOUSING ASSEMBLY	49	16
832681990	PIPE, COOLANT	55	5	833511060	BUSHING	49	17
832682000	PIPE, COOLANT	55	6	833511110	GEAR, RAW WATER PUMP DRIVE	59	NS
832715200	CONNECTOR	45	37	833512842	HOUSING, FLYWHEEL - FRONT	11	4
832721290	BUSHING, ROD - REPAIR	7	10	833513481	HOUSING, FLYWHEEL - REAR	11	5
832800109	SEAL, OIL	11	38	833521060	COVER, BRUSH	51	42
832811340	HANGER, ENGINE	43	1	833531370	HOLDER	49	20
832812190	PIPE	43	5	833541020	CONDENSER	49	27
832858104	SEAL, OIL	11	39	833561240	RECTIFIER	49	19
832910115	PLUG	21	73	833601010	COVER ASSEMBLY	39	1
832910115	PLUG	27	24	833611011	COVER	39	2
832910189	BOLT, BANJO	31	39	833611250	COVER, INSPECTION	11	6
832910235	BOLT, BANJO	31	41	833621020	RING, RETAINER	39	9
832910241	BOLT, PLATE	7	21	833621090	BOLT	49	11
832910261	BOLT, BANJO	55	23	833641010	GASKET, PLUG	39	4
832912187	BOLT, BANJO	43	15	833641040	GASKET, PLUG	35	4
832914137	BOLT, BANJO	31	40	833701010	BODY ASSEMBLY	39	5
832917111	PLUG, OIL HOSE	3	34	833711010	BODY	39	6
833001812	BASE & FILTER ASSEMBLY, FUEL	31	15	833711160	BRUSH	51	40
833006201	SCREW	51	43	833721010	FLOAT	39	11
833008450	BOLT, CLAMP	23	7	833721120	SPRING, BRUSH	51	41
833011162	CASE, THERMOSTAT	43	6	833761040	HOLDER ASSEMBLY W/BRUSHES	49	39
833011341	BRACKET, ENGINE MTG. - FRONT	11	8	833871080	INSULATOR	49	23
833012160	PLUG, CUP	17	22	833871090	INSULATOR	49	22
833013991	GAGE, OIL LEVEL	3	13	833871100	INSULATOR	49	21
833031332	BRACKET, ENGINE MTG. - RIGHT REAR	11	9	833871120	INSULATOR	49	37
833032341	MANIFOLD, COOLANT	43	7	833871140	INSULATOR	49	24

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Part Number	Description	Pg.	Ref. No.	Part Number	Description	Pg.	Ref. No.
833871190	INSULATOR	49	26	834501563	FLYWHEEL ASSEMBLY	7	12
833871200	INSULATOR	49	35	834531270	GEAR, RING	7	13
833881150	COVER	49	34	834551100	BOLT, FLYWHEEL	7	14
833910111	KEY, DRIVE GEAR	7	26	834551130	PLATE	45	1
833911030	NUT, PULLEY	49	1	834611630	HOSE, OIL REMOVAL	3	14
833914101	PLUG, CUP	3	40	834621370	ADAPTER, NOZZLE REMOVAL	63	16
833914101	PLUG, CUP	15	14	834671761	LINER, CYLINDER - CODE W	3	2
833917101	PLUG, CUP	3	39	834671771	LINER, CYLINDER - CODE X	3	-
833922105	PLUG, CUP	11	34	834671781	LINER, CYLINDER - CODE Y	3	-
833922107	PLUG, CUP	15	15	834671791	LINER, CYLINDER - CODE Z	3	-
833924103	PLUG, CUP	3	38	834701022	COMPRESSOR, VALVE SPRING	63	17
833924103	PLUG, CUP	15	16	834702050	PULLEY, CRANKSHAFT	7	15
833926102	PLUG, CUP	15	17	834721650	TOOL, VALVE SEAL INSTALL	63	18
833930105	PLUG, CUP	15	18	834801120	PRESS, CYLINDER LINER	63	19
833930105	PLUG, CUP	21	74	834811120	GUIDE, CONN. ROD BUSHING	63	20
833932102	PLUG, CUP	11	35	834811130	GUIDE, CONN. ROD BUSHING	63	21
833936102	PLUG, CUP	3	37	834821530	PRESS, FRONT CRANK GEAR OIL SEAL	63	22
833940104	PLUG, CUP	3	36	834821540	PRESS, REAR OIL SEAL	63	23
833940104	PLUG, CUP	21	75	834911010	WIRE, ROPE, CYL. HD. LIFTING	63	24
833950103	PLUG, CUP	3	35	834914401	BRACKET, PIPE	3	15
833950103	PLUG, CUP	15	19	834991060	PLATE, SEAL	11	7
834011132	FILTER, FUEL	35	5	834999983	CASE, BEARING HOLDER	11	12
834011290	CAP, PRESSURE	19	6	834999987	PLUG	3	33
834021450	PRESS, CONN. ROD BUSHING	63	1	834999990	THROWER, OIL	57	3
834021460	PRESS, CONN. ROD BUSHING	63	2	834999998	ROTOR	57	2
834051020	ELEMENT, HEAT EXCHANGER	19	7	835011020	COVER, TIMER	31	8
834081041	ADAPTER, COMPRESSION GAUGE	63	3	835011042	CAMSHAFT ASSEMBLY	9	1
834101220	RELAY, STARTER	45	11	835031040	WRENCH, FUEL FILTER	63	25
834101710	STATOR	49	18	835051280	GEAR, IDLER	9	2
834104370	BLOCK ASSEMBLY	3	1	835081530	BRACKET, ALTERNATOR	45	2
834111190	WRENCH, CYL. HEAD BOLT	63	4	835101125	O-RING	33	61
834111681	CRANKSHAFT	7	11	835106200	CLEVIS	47	13
834121140	COLLAR	49	3	835108101	O-RING	29	8
834121150	COLLAR	49	14	835109103	O-RING	39	7
834131040	GASKET, SEAT	19	8	835110111	O-RING	29	11
834201100	PULLER ASSY., IDLER GEAR SHAFT	63	5	835112116	O-RING	29	13
834201460	PULLER ASSY., CYL. LINER	63	7	835113103	O-RING	45	35
834201500	PULLER, CRANKSHAFT PULLEY	63	8	835114350	STUD, STARTER	11	26
834311010	TOOL, VALVE LAPPING	63	9	835118111	O-RING	25	3
834311360	PULLEY	49	2	835118111	O-RING	29	7
834331070	EYEBOLT, CYL. HEAD LIFT	63	10	835119101	O-RING	27	27
834341110	PRESS, CYL. HEAD PLUG	63	11	835120107	O-RING	29	16
834341130	PRESS, CYL. HEAD PLUG	63	12	835121350	WRENCH, TORQUE	63	27
834341140	PRESS, CYL. HEAD PLUG	63	13	835122000	BRACE, ALTERNATOR	45	3
834400925	O-RING, TUBE	5	41	835122090	TOOL, INJECTION PUMP TIMING	63	26
834401931	RISER, EXHAUST	19	30	835131112	O-RING	43	32
834402135	O-RING	11	36	835135102	O-RING	21	82
834402135	O-RING, STRAINER	27	25	835141101	O-RING, CRANKSHAFT	7	28
834404535	O-RING	21	76	835144112	O-RING	45	38
834411150	FAN	49	4	835159101	O-RING	39	10
834411260	COMPRESSOR, PISTON RING	63	14	835165103	O-RING, DRIVE	5	42
834421180	EXPANDER, PISTON RING	63	15	835181102	O-RING	11	40
834451170	CLAMP	49	36	835211062	BOLT, BEARING CAP	3	3

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835211110	GEAR, CRANKSHAFT	7	16	836202570	BASE ASSEMBLY, OIL		
835231270	GEAR, CAMSHAFT	9	3		FILTER	29	1
835410100	WASHER, SEALING	55	33	836208220	WASHER, FLAT	33	50
835410105	CLIP	33	62	836211080	GASKET	37	8
835412100	WASHER, SEALING	45	36	836212270	WASHER, FLAT	45	27
835415104	CLIP	33	63	836214440	WASHER, FLAT	9	11
835420150	WASHER, SEALING	43	28	836221070	PIN, DOWEL	37	1
835420150	WASHER, SEALING	55	34	836221080	PIN, DOWEL	37	2
835422150	WASHER, SEALING	33	57	836241040	VALVE, SAFETY	29	14
835424102	CLAMP	55	39	836241200	VALVE, SAFETY	29	6
835521051	ADAPTER, PRESSURE			836331230	NUT, NOZZLE	37	7
	GAUGE	63	28	836401120	DRIVE, TACHOMETER	3	10
835521070	ADAPTER, PRESSURE			836401510	NOZZLE, INJECTOR	31	18
	GAUGE	63	29	836431020	PLUG, FILTER DRAIN	29	10
835531010	WRENCH, OIL FILTER	63	30	836431140	PLUG	29	12
835601630	PUMP ASSEMBLY, FUEL			836504220	CLAMP	21	78
	FEED	31	9	836504220	CLAMP	43	30
835614470	PLATE, CAUTION	19	32	836505020	CLAMP	21	79
835711040	PLATE, CAMSHAFT THRUST	9	4	836505220	CLAMP	21	80
835721090	PLATE, IDLER GEAR			836505520	CLAMP	21	81
	THRUST	9	5	836601020	SWITCH, FILTER BY-PASS	29	15
835721100	PLATE, IDLER GEAR	9	6	836611140	GASKET, NOZZLE - COPPER	31	19
835801240	SHAFT ASSEMBLY, IDLER			836611160	SPRING, OIL VALVE	29	3
	GEAR	9	7	836611250	SPRING, OIL VALVE	29	5
835816020	PLATE, CAUTION	31	31	836651110	ADAPTER, NOZZLE	31	20
835818181	PLATE, CAUTION	27	11	836671070	RING, PACKING - RUBBER	31	21
835851020	SEAT, FILLER	19	9	836671090	RING, PACKING	37	10
835906123	CLEVIS	47	14	836750124	BUSHING	9	14
835910105	WASHER, SEALING	21	77	836801080	SOLENOID, ENGINE STOP	47	1
835910105	WASHER, SEALING	33	58	836901101	CASE ASSY., BEARING		
835912111	WASHER, SEALING	43	29		HOLDER	11	11
835913110	WASHER, SEALING	33	59	836910103	STUD	21	56
835914104	WASHER, SEALING	33	60	836910103	STUD	21	58
835914110	WASHER, SEALING	27	26	836910109	STUD	21	59
835918111	WASHER, SEALING	5	43	836910122	STUD	21	57
836001710	NOZZLE & HOLDER SET	31	16	836911170	PIPE, COOLANT	19	10
836003490	BASE ASSEMBLY, OIL			836911211	BRACKET, SOLENOID	47	2
	FILTER	27	9	836911230	BRACKET	45	9
836006120	WASHER, FLAT	47	8	836920111	CLAMP	55	37
836006140	WASHER, FLAT	43	23	836926107	CLAMP	43	31
836006140	WASHER, FLAT	45	23	836941122	ADAPTER, TACH. DRIVE	3	11
836008180	WASHER, FLAT	55	29	836975103	CLAMP	55	38
836008180	WASHER, PLAIN	3	26	837001610	REGULATOR ASSEMBLY	51	44
836010180	WASHER, FLAT	7	23	837011190	CASE ASSEMBLY	25	1
836010180	WASHER, FLAT	45	24	837011730	BEARING SET,		
836010220	WASHER, FLAT	21	51		CRANKSHAFT - STD	7	3
836010330	WASHER, FLAT	45	25	837013110	BODY	23	3
836014270	WASHER, FLAT	45	26	837013440	BODY ASSEMBLY	23	1
836030300	ROD, LINK	47	15	837031620	BEARING SET,		
836041020	VALVE, SAFETY	29	18		CRANKSHAFT - .25MM		
836071630	FILTER, OIL - SPIN-ON	29	19		U/S	7	-
836111211	CONNECTOR, INLET	37	9	837041650	BEARING SET,		
836111630	FLANGE, COUPLING	31	10		CRANKSHAFT - .50MM		
836122190	BASE	29	2		U/S	7	-
836131280	GEAR DRIVE	31	1	837051620	BEARING SET,		
836151180	SPRING	37	4		CRANKSHAFT - .75MM		
836161190	PIN, NOZZLE	37	3		U/S	7	-
836171560	DISTANCE PIECE	37	6	837061650	BEARING SET,		
836201250	RELAY, GLOW PLUG	45	12		CRANKSHAFT - 1.0MM		
					U/S	7	-

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837081160	PUSH ROD	17	1	838108850	BOLT	43	18
837101680	COOLER ASSEMBLY, OIL	27	10	838108850	BOLT, COVER	11	17
837111521	VALVE, INTAKE	17	2	838108900	BOLT, COVER	11	18
837111610	PIPE, INJECTOR - #1	31	22	838108950	BOLT	43	17
837121470	ELEMENT	25	4	838110300	BOLT, ADJUST	45	16
837121600	PIPE, INJECTOR - #2	31	23	838111180	BEARING, CAMSHAFT - #1	3	4
837131540	PIPE, INJECTOR - #3	31	24	838111230	GASKET	23	4
837141280	COVER	23	6	838111240	GASKET	23	5
837141570	PIPE, INJECTOR - #4	31	25	838111610	ARM, ROCKER - INTAKE	17	10
837151570	VALVE, EXHAUST	17	3	838111620	ARM, ROCKER - EXHAUST	17	11
837161050	PLUG	29	4	838114400	BOLT, GEAR	9	10
837171160	GASKET, ELEMENT	25	5	838120122	BEARING	49	9
837191020	SEAL, VALVE	17	4	838208300	BOLT, OIL COOLER	27	17
837203360	AIR CLEANER ASSEMBLY	19	31	838211190	BEARING, CAMSHAFT - #2	3	5
837225161	GROMMET	55	35	838304082	BOLT	49	33
837311312	SPRING, VALVE - INT. & EXH.	17	5	838311130	BEARING, CAMSHAFT - #3	3	6
837341210	SEAT, SPRING - LOWER	17	6	838311410	BOLT, BANJO	37	11
837351260	SEAT, SPRING - UPPER	17	7	838431870	GASKET	37	12
837511332	LIFTER, VALVE	17	8	838831080	RING, RETAINER	37	13
837731371	PIPE, OIL	31	3	839006161	BOLT, COVER	23	8
837731480	PIPE, OIL	31	2	839011190	SHAFT, ROCKER ARM	17	12
837811620	PIPE, FUEL	31	26	839041140	CLIP	3	16
837811981	PIPE, FUEL	31	27	839041140	CLIP	11	13
837871161	SCREW, VALVE ADJUST	17	9	839041170	CLIP, PIPE	31	34
837915107	GROMMET	55	36	839041290	CLIP	55	13
838005120	BOLT	49	28	839041930	CLIP, PIPE	31	32
838005130	WASHER, LOCK	17	20	839042230	CLIP, PIPE	31	33
838006150	WASHER, LOCK	33	51	839088252	BOLT, END COVER	21	42
838006150	WASHER, LOCK	43	24	839105080	SCREW	17	21
838006150	WASHER, LOCK	47	9	839106202	BOLT	45	17
838008200	WASHER, LOCK	3	27	839106202	BOLT	47	4
838008200	WASHER, LOCK	21	52	839106202	BOLT	55	25
838008200	WASHER, LOCK	23	9	839108161	BOLT	3	23
838008200	WASHER, LOCK	25	7	839108161	BOLT	43	19
838008200	WASHER, LOCK	33	52	839108162	BOLT	3	22
838008200	WASHER, LOCK	55	30	839108162	BOLT	55	26
838010250	WASHER, LOCK	21	53	839108201	BOLT, DRIVE	3	24
838010250	WASHER, LOCK	33	53	839108202	BOLT	45	18
838010250	WASHER, LOCK	45	28	839108202	BOLT, FLANGE	11	22
838012450	ELEMENT	23	2	839108251	BOLT	27	18
838014350	WASHER, LOCK	45	29	839108252	BOLT	43	20
838018460	WASHER, LOCK - ISOLATOR STUD	13	NS	839108252	BOLT	63	31
838031080	SEPARATOR ASSEMBLY, WATER	31	30	839108252	BOLT, CASE	11	24
838061610	HOSE, FUEL	31	28	839108301	BOLT	31	42
838063030	HOSE, FUEL	31	29	839108301	BOLT	55	27
838108160	BOLT, OIL PAN	3	21	839108351	BOLT	31	43
838108160	BOLT, PLATE	11	21	839108351	BOLT, COVER	15	11
838108200	BOLT	19	41	839108351	BOLT, HOUSING	11	23
838108200	BOLT	43	16	839108401	BOLT	27	19
838108200	BOLT	55	24	839108402	BOLT, MANIFOLD	21	43
838108200	BOLT, COVER	11	20	839108451	BOLT	31	44
838108200	BOLT, FLANGE	3	20	839108552	BOLT, MANIFOLD	21	44
838108200	BOLT, OIL PUMP	27	15	839108601	BOLT, SUPPORT	17	18
838108250	BOLT, THRUST PLATE	9	9	839108602	BOLT	27	20
838108350	BOLT, OIL PUMP	27	16	839108651	BOLT, STRAINER	27	21
838108650	BOLT, COVER	11	16	839108851	BOLT	43	21
838108750	BOLT, COVER	11	19	839108952	BOLT, PIPE	21	45
				839110161	BOLT, CLIP	11	25
				839511560	SUPPORT, SHAFT	17	13
				839511570	SUPPORT, SHAFT	17	14

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839511580	SUPPORT, SHAFT	17	15	F18090181	KEY - DRIVE GEAR	59	NS
839908113	BOLT	33	45	F18090182	SEAL, MECHANICAL	59	NS
839908115	BOLT	27	23	F18090183	SEAL, LIP	59	NS
839908121	BOLT	21	46	F19608751	FILTER KIT, TRANSMISSION	61	2
839908143	BOLT	33	46				
839932650	HOLDER, CLIP	55	14				
839932830	HOLDER, CLIP	19	34				
839935260	HOLDER, CLIP	3	17				
919108852	BOLT	27	22				
F2205	WASHER, LOCK-SHIFT						
	BRKT. SCREW	61	NS				
F2319	SCREW, TRANS. MOUNTING	61	3				
F2414	SCREW, SHIFT BRACKET	61	NS				
F639460	CIRCUIT BREAKER, 40 AMP	59	6				
F700580	ELBOW, OIL LINE	61	7				
F700602	SWITCH, OIL PRESSURE						
	ALARM	59	1				
F700935	SWITCH, ALARM - COOLANT						
	TEMPERATURE	59	4				
F700944	CLAMP, OIL COOLER	61	10				
F7066	NUT, TRANS. MTG. STUD	61	12				
F708027	TRANSMISSION, HURTH						
	HSW630A-15:1	61	1				
F708432	SENDER, OIL PRESSURE -						
	DUAL	59	3				
F708433	SWITCH, OIL PRESSURE -						
	CIRCUIT INTERRUPT	59	2				
F708535	BRACKET, SHIFT CABLE	61	NS				
F708821	KIT, SHIFT & THROTTLE						
	CABLE END	61	NS				
F733155	STUD, TRANS. MOUNTING	61	11				
F733431	SENDER, COOLANT						
	TEMPERATURE	59	5				
F733458	SENDER, TACHOMETER -						
	W/DRIVE PIN	59	7				
F733459	HARNESS, ENGINE WIRING						
	- PORT	59	NS				
F733459	HARNESS, ENGINE WIRING						
	PORT	45	NS				
F733460	HARNESS, ENGINE WIRING						
	- STARBOARD	59	NS				
F733460	HARNESS, ENGINE WIRING						
	STARBOARD	45	NS				
F733520	BRACKET, COOLER	61	8				
F733570	NIPPLE 1" NPT X 1-1/4"	59	9				
F733635	PUMP, RAW WATER	59	8				
F733770	HOSE ASSY., TRANS. OIL	61	9				
F733936	BOOT, INSULATING	53	NS				
F733938	PLATE, DRIVE	7	17				
F733940	COOLER, TRANSMISSION	61	6				
F8153	WASHER, LOCK	61	4				
F8165	WASHER, FLAT	61	5				
FI4290003	WASHER, LOCK	7	24				
FI7200029	SPACER, FLYWHEEL	7	19				
FI8090175	CAM	59	NS				
FI8090176	IMPELLER	59	NS				
FI8090177	END COVER - IMPELLER	59	NS				
FI8090178	GASKET, END COVER	59	NS				
FI8090179	PLATE, WEAR - REAR	59	NS				