

# **PARTS LIST**

**UNIVERSAL**

**Model 5444**

**Marine Diesel Engine**

**Publication # 200148**

**Edition Two**

**May 1998**



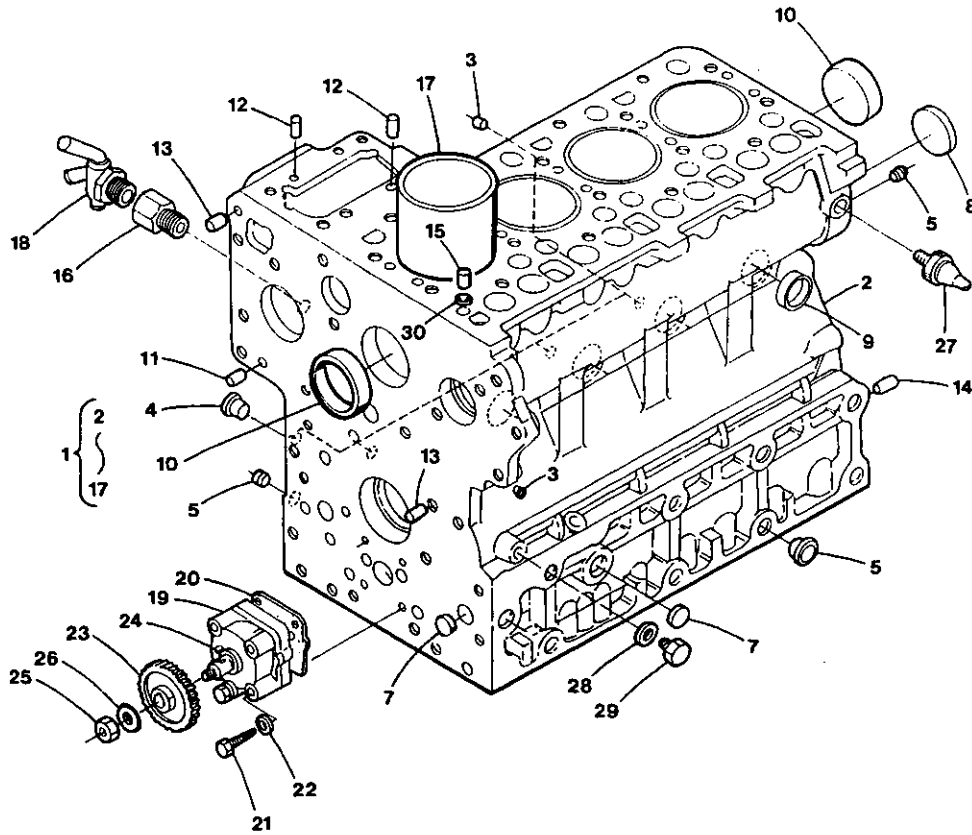
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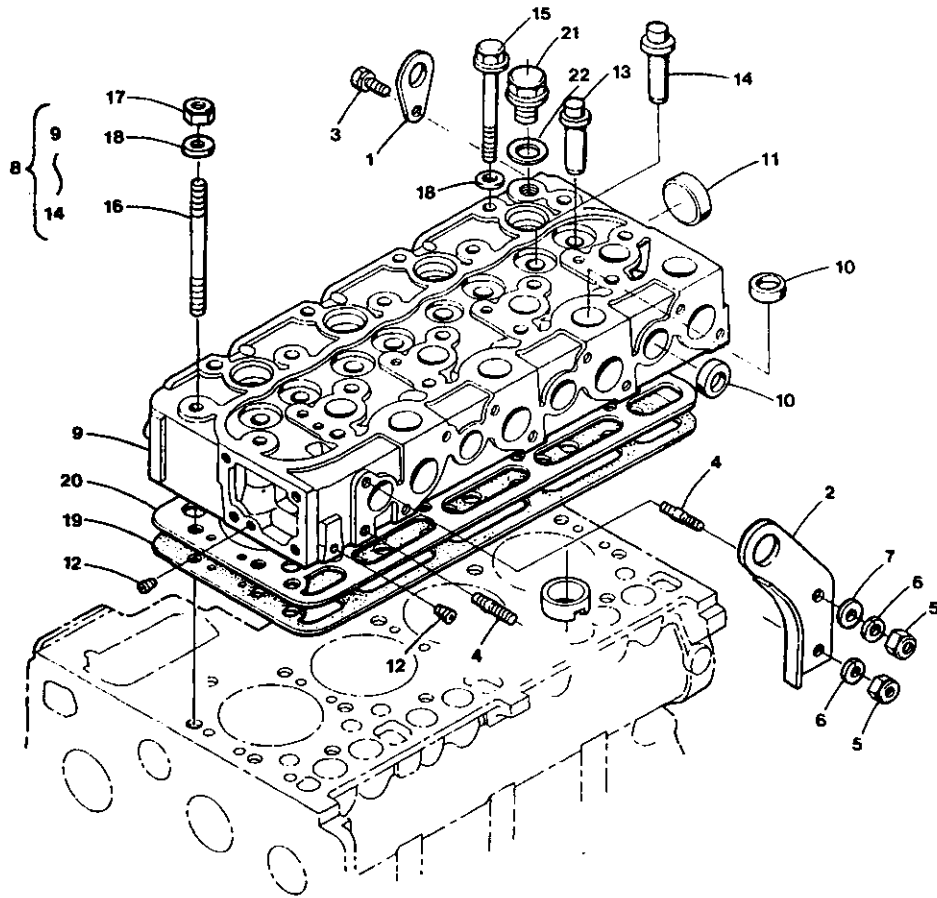
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# CRANKCASE



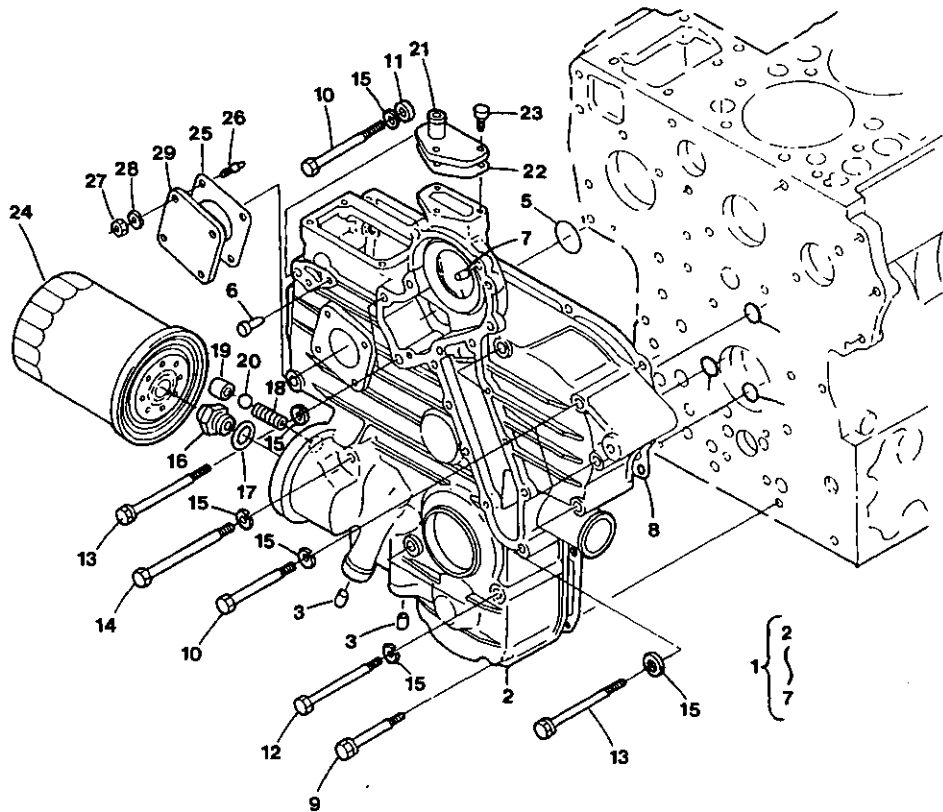
ITEM	PART NO.	DESCRIPTION	QTY.
1		Crankcase Assembly	1
2		Crankcase	1
3		Plug	6
4		Plug	1
5		Plug	2
6		Plug	19
7	299352	Plug, Expansion	3
8	299353	Plug, Expansion	1
9	299897	Cap, Sealing	6
10	299958	Cap, Sealing	2
11		Pin, Straight	2
12		Pin, Straight	2
13		Pin, Straight	2
14		Pin, Straight	1
15		Pin, Pipe	1
16		Joint, Drain Cock	1
17	299960	Liner, Cylinder	4
18	298664	Cock, Drain	1
19	299961	Oil Pump Assembly	1
20	298756	Gasket, Oil Pump	1
21	299433	Bolt	4
22	299369	Washer, Spring	4
23		Gear Oil Pump Drive	1
24		Key	1
25		Nut	1
26	298760	Washer	1
27	299964	Switch, Oil	1
28		Plug	1
29	298659	Gasket	1
30	299362	"O" Ring	1

# CYLINDER HEAD



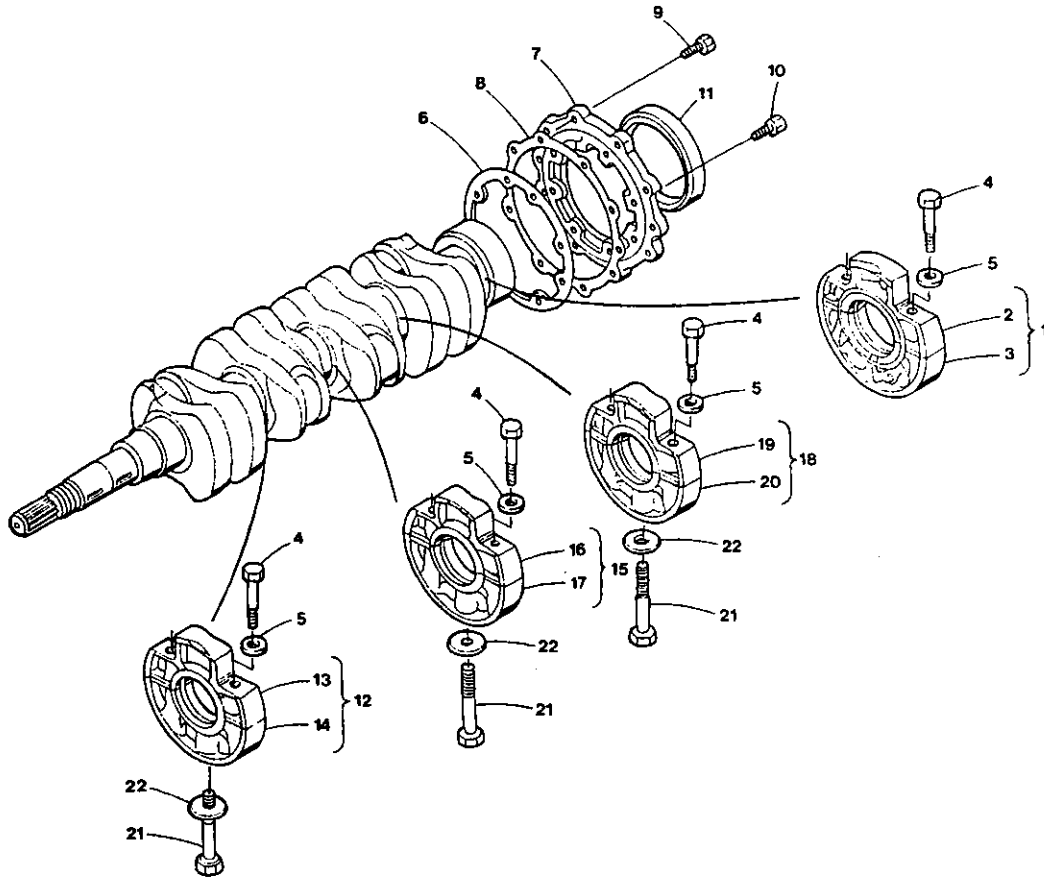
ITEM	PART NO.	DESCRIPTION	QTY.
1	298666	Hook, Engine	1
2		Hook, Engine	1
3	300008	Bolt	1
4		Stud	2
5		Nut	2
6	31786	Washer, Spring	2
7	31787	Washer, Plain	1
8	299971	Assembly, Cylinder Head	1
9		Cylinder Head	1
10	299898	Cap, Sealing	12
11	299355	Cap, Sealing	1
12		Plug, Pin	2
13	299555	Guide Valve	4
14	299558	Guide, Exhaust Valve	4
15	298668	Bolt, Cylinder Head	16
16		Stud, Cylinder Head	2
17		Nut, Cylinder	2
18	298761	Washer, Plain	18
19	299972	Gasket, Cylinder Head	1
20	299973	Shim, Cylinder Head Gasket	1
21		Plug, Head	1
22		Washer, With Rubber	1

# GEAR CASE



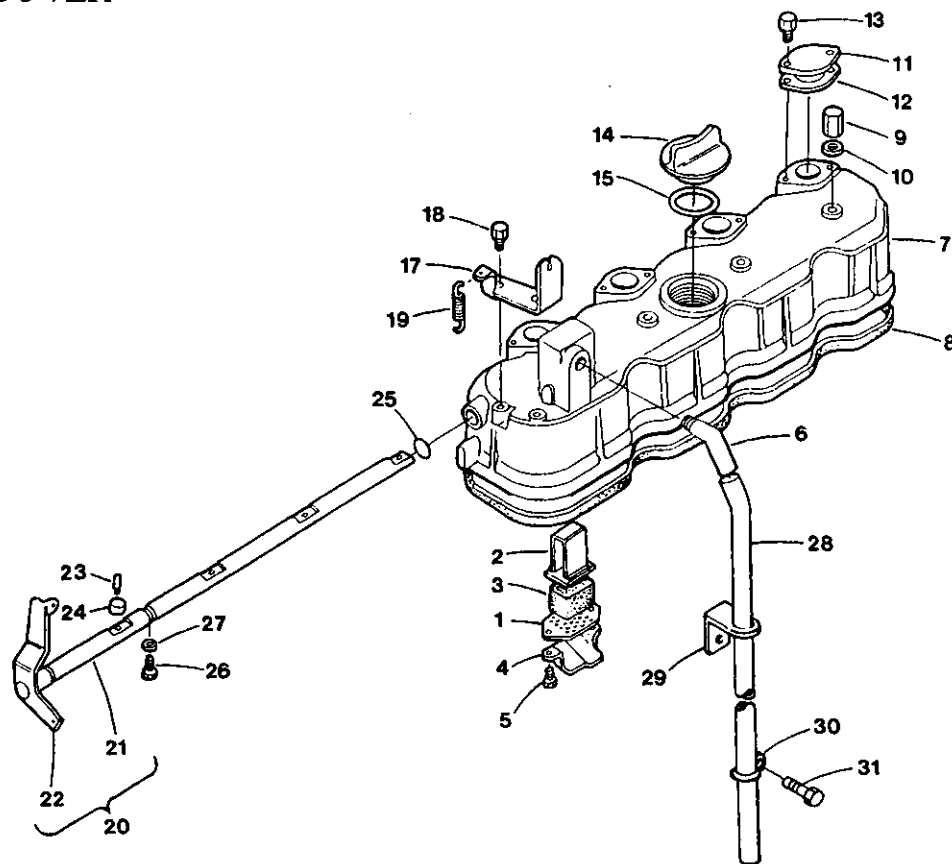
ITEM	PART NO.	DESCRIPTION	QTY.
1	299976	Assembly Case, Gear	1
2		Case, Gear	1
3		Plug, Pin	2
4	299559	"O" Ring	3
5	299978	"O" Ring	1
6		Pin, Starting Spring	1
7		Pin, Straight	2
8	299979	Gasket, Gear Case	1
9	299980	Bolt	2
10	299981	Bolt	5
11	31787	Washer, Plain	1
12	299982	Bolt	3
13	299984	Bolt	3
14	299983	Bolt	2
15	31786	Washer, Plain	13
16	299985	Joint, Pipe	1
17	32175	Washer, Plain	1
18	299987	Spring	1
19	299989	Seat, Valve	1
20	299988	Ball	1
21	299990	Flange, Water Return	1
22	299991	Gasket, Water Return Flange	1
23	299432	Bolt	3
24	299927	Cartridge, Oil Filter	1
25	298485	Gasket, Hour Meter	1
26	298683	Stud	4
27	298684	Nut	4
28	299369	Washer, Spring	4
29		Cover	1

# MAIN BEARING CASE



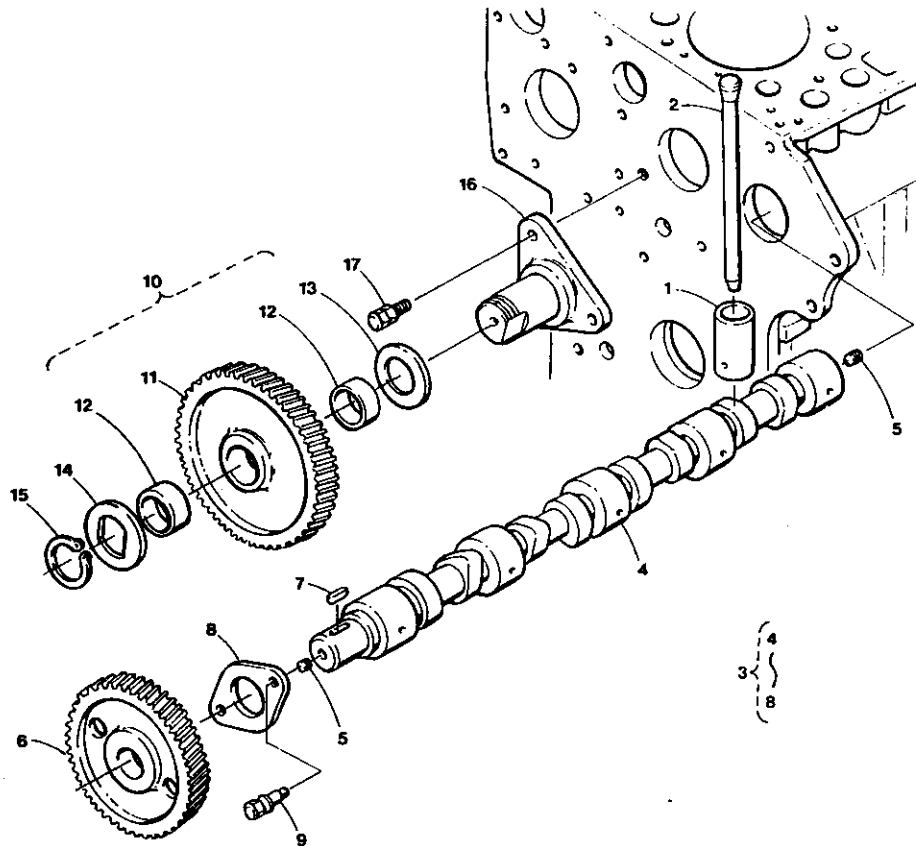
ITEM	PART NO.	DESCRIPTION	QTY.
1	298685	Assembly Case, Main Bearing	1
2		Case, Main Bearing 1	1
3		Case, Main Bearing 2	1
4	298686	Bolt, Bearing Case 1	8
5		Washer, Plain	8
6	298689	Gasket, Bearing	1
7	301036	Cover, Bearing	1
8	298691	Gasket, Cover	1
9		Bolt	8
10		Bolt	8
11	301035	Seal, Oil	1
12		Assembly Case, Main Bearing 1	1
13		Case, Main Bearing 1-1	1
14		Case, Main Bearing 1-2	1
15		Assembly Case, Main Bearing 2	1
16		Case, Main Bearing 2-1	1
17		Case, Main Bearing 2-2	1
18		Assembly Case, Main Bearing 3	1
19		Case, Main Bearing 3-1	1
20		Case, Main Bearing 3-2	1
21		Bolt 2	3
22		Washer, Plain	3

# HEAD COVER



ITEM	PART NO.	DESCRIPTION	QTY.
1		Plate, Element 1	1
2		Plate, Element 2	1
3		Element Breather	1
4		Oil Shield, Breather	1
5		Screw, With Washer	2
6		Joint, Breather Pipe	1
7	300000	Cover, Cylinder Head	1
8	300001	Gasket, Head Cover	1
9	300002	Nut, Cap	2
10	298659	Gasket	4
11		Cover, Decomp. Hole	4
12	298730	Gasket, Cover	4
13		Bolt	8
14	298739	Plug, Oil Filter	1
15	298740	"O" Ring	1
17		Holder, Decomp. Wire	1
18	199462	Bolt	2
19		Spring, Decompress	1
20		Assembly Shaft, Decompress	1
21		Shaft, Decompress	1
22		Lever, Decompress	1
23		Bolt, Decompress	4
24		Nut, Decompress	4
25	298738	"O" Ring	1
26		Bolt	1
27	299369	Washer, Spring	1
28	300013	Pipe, Breather	1
29		Clamp, Pipe	1
30		Clamp, Pipe	1
31		Bolt	1

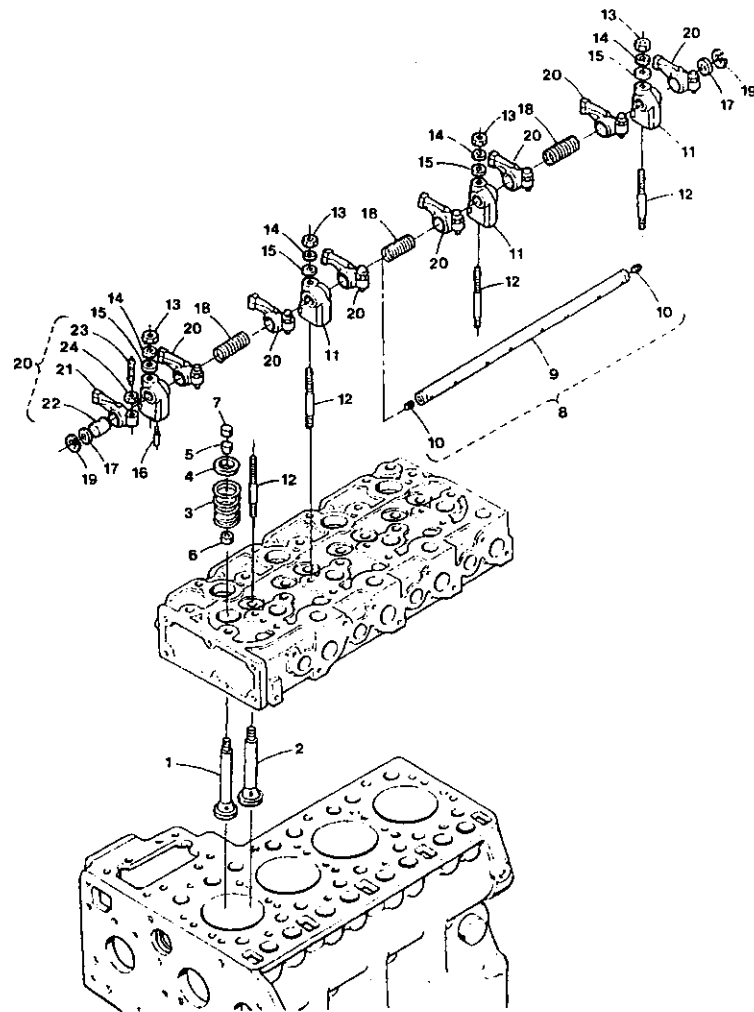
# CAMSHAFT



ITEM	PART NO.	DESCRIPTION	QTY.
1	298741	Tappet	8
2	298742	Rod, Push	8
3		Assembly, Camshaft	1
4		Camshaft	1
5		Screw, Set	2
6		Gear, Camshaft	1
7	298746	Key, Feather	1
8		Stopper, Camshaft	1
9	300008	Bolt	2
10		Assembly Gear, Idle	1
11		Gear, Idle	1
12	300007	Bushing, Idle Gear	2
13		Collar 1	1
14		Collar 2	1
15	298753	Air Clip, External	1
16		Shaft, Idle Gear	1
17	300008	Bolt	3

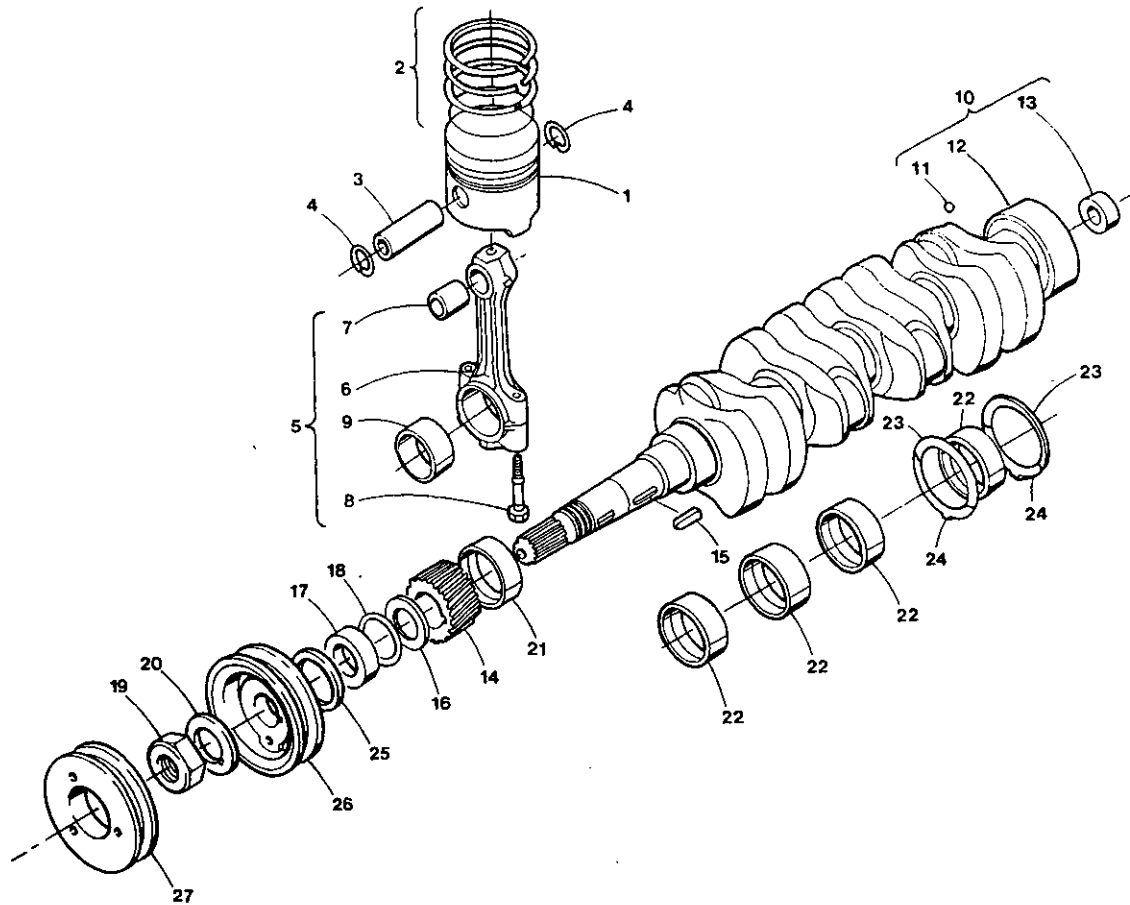


# VALVE - ROCKER



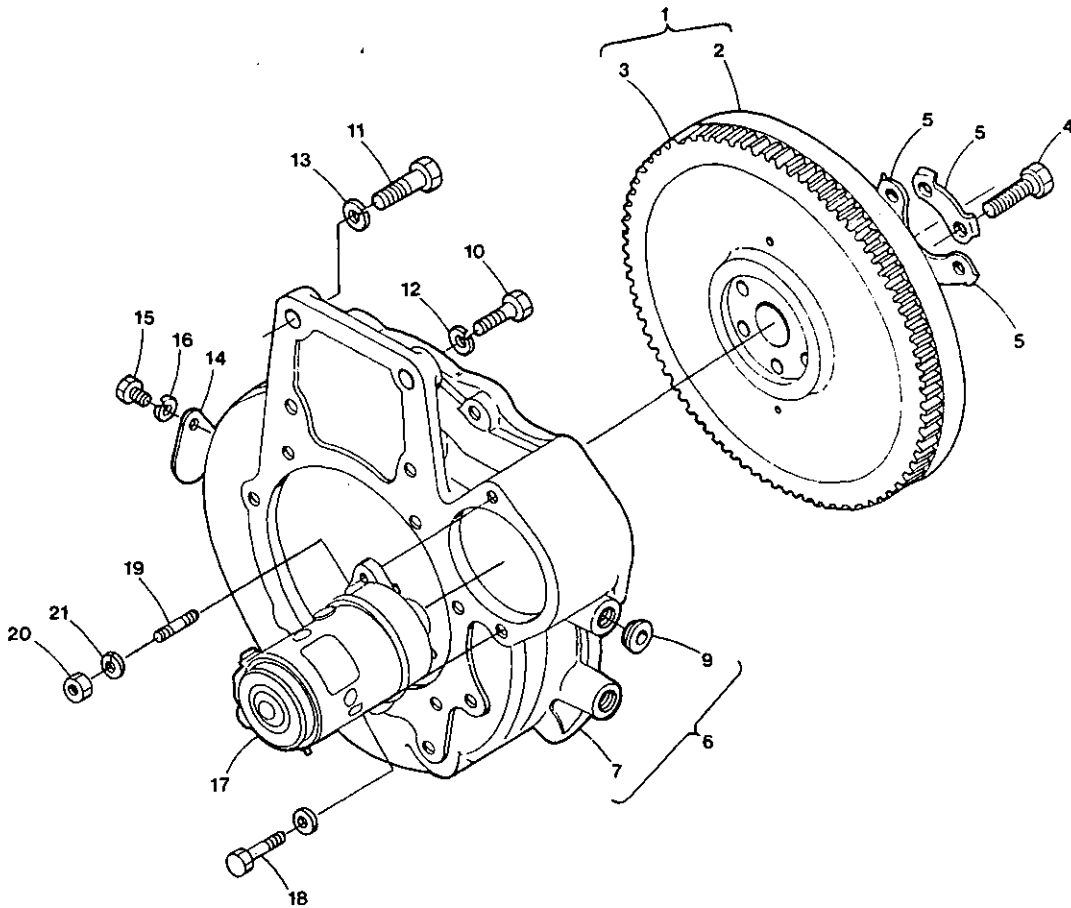
ITEM	PART NO.	DESCRIPTION	QTY.
1	298709	Valve, Inlet	4
2	298710	Valve, Exhaust	4
3	298711	Spring, Valve	8
4	298712	Retainer, Valve Spring	8
5	298713	Collect, Valve Spring	16
6	298714	Seal, Valve Stem	8
7	298715	Cap, Valve	8
8		Assembly Shaft, Rocker Arm	1
9		Shaft, Rocker Arm	1
10		Screw, Set	2
11	298717	Bracket, Rocker Arm	4
12	299999	Stud	4
13		Nut	4
14	31786	Washer, Spring	4
15	31787	Washer, Plain	4
16	298719	Screw Set	1
17	298720	Washer, Rocker Arm Shaft	2
18	298721	Spring, Rocker Arm	3
19	298722	Air Clip, External	2
20	298723	Assembly, Rocker Arm	8
21		Rocker Arm	8
22		Bushing, Rocker Arm	8
23		Screw, Adjusting	8
24		Nut	8

# PISTON - CRANKSHAFT



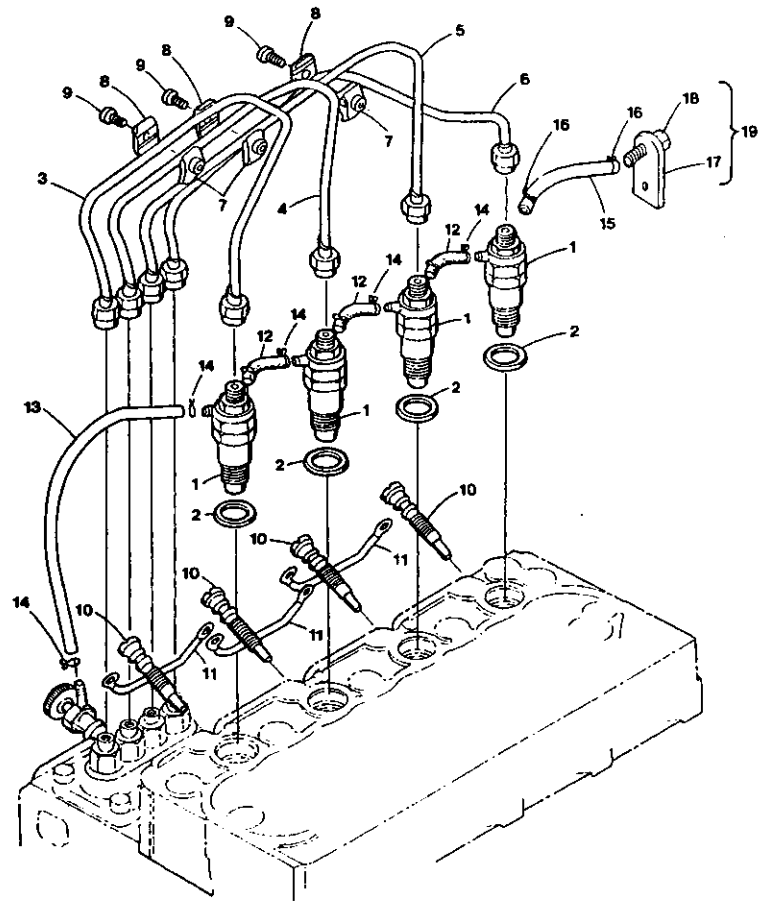
ITEM	PART NO.	DESCRIPTION	QTY.
1	300009	Piston	4
2	300010	Assembly, Piston Ring	4
3	298764	Piston Pin	4
4	298765	Air-Clip, Piston Pin	8
5	300011	Assembly Connecting Rod	4
6	#5	Connecting Rod	4
7	301714	Bushing, Piston Pin	4
8	300014	Bolt, Connecting Rod	8
9	300015	Metal, Crankpin	8
10	301778	Assembly Crankshaft	1
11	#10	Crankshaft	1
12		Plug, Pin	4
13		Bearing, Ball	1
14		Gear, Crankshaft	1
15	298746	Key, Feather	1
16		Oil, Slinger	1
17		Collar, Crankshaft	1
18	298773	"O" Ring	1
19	298836	Nut, Crankshaft	1
20	298837	Washer, Crankshaft	1
21	298775	Metal, Crankshaft 1	1
22	298776	Metal, Crankshaft 2	4
23	298777	Metal, Side 1	2
24	301780	Metal, Side 2	2
25-1	298774	Seal, Oil (To 32383)	1
25-2	302543	Seal, Oil (From 32384)	1
26	302199	Pulley, PTO	1
27	301201	Pulley, PTO	1

# FLYWHEEL GROUP



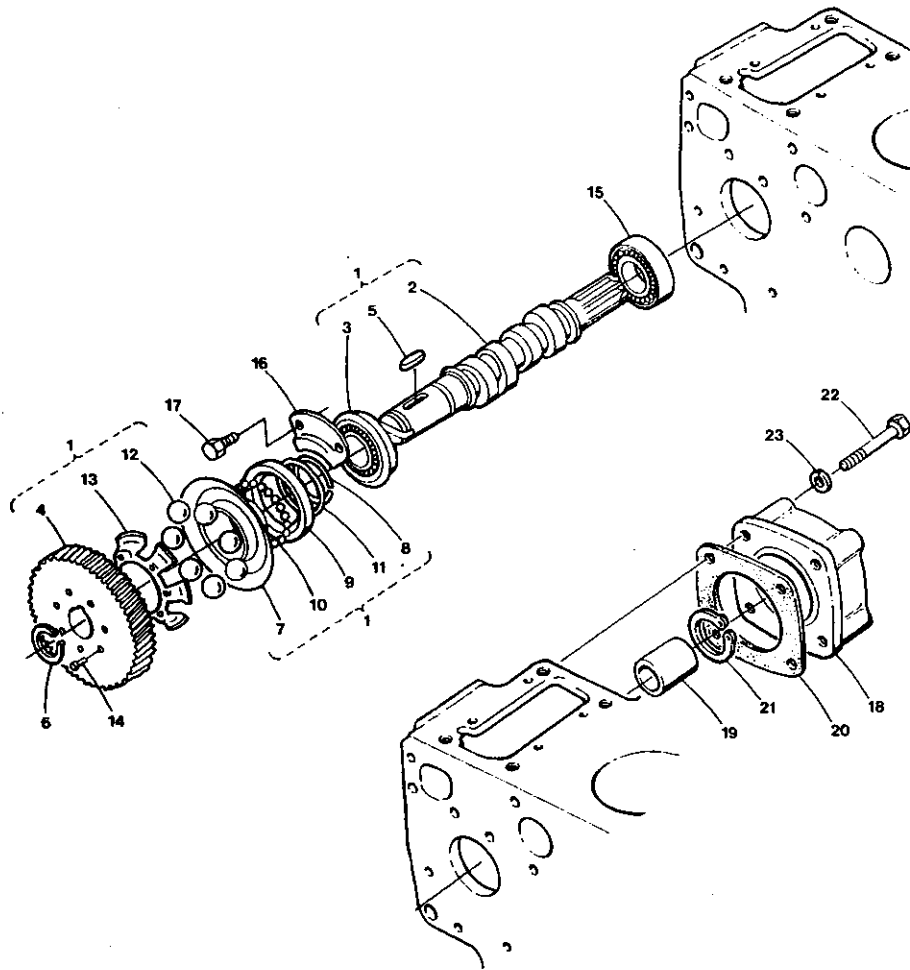
ITEM	PART NO.	DESCRIPTION	QTY.
1	299611	Assembly, Flywheel	1
2		Flywheel	1
3		Gear, Ring	1
4		Bolt, Flywheel	6
5	298781	Washer, Flywheel	3
6		Assembly Housing, Flywheel	1
7		Housing, Flywheel	1
8			
9		Plug	4
10		Bolt	11
11		Bolt	2
12	19262	Washer, Spring	11
13	31786	Washer, Spring	2
14		Cover	1
15	299485	Bolt	1
16		Washer, Spring	1
17	299574	Assembly Starter	1
18		Bolt	1
19		Stud	1
20		Nut	1
21	19262	Washer, Spring	1

# NOZZLE HOLDER



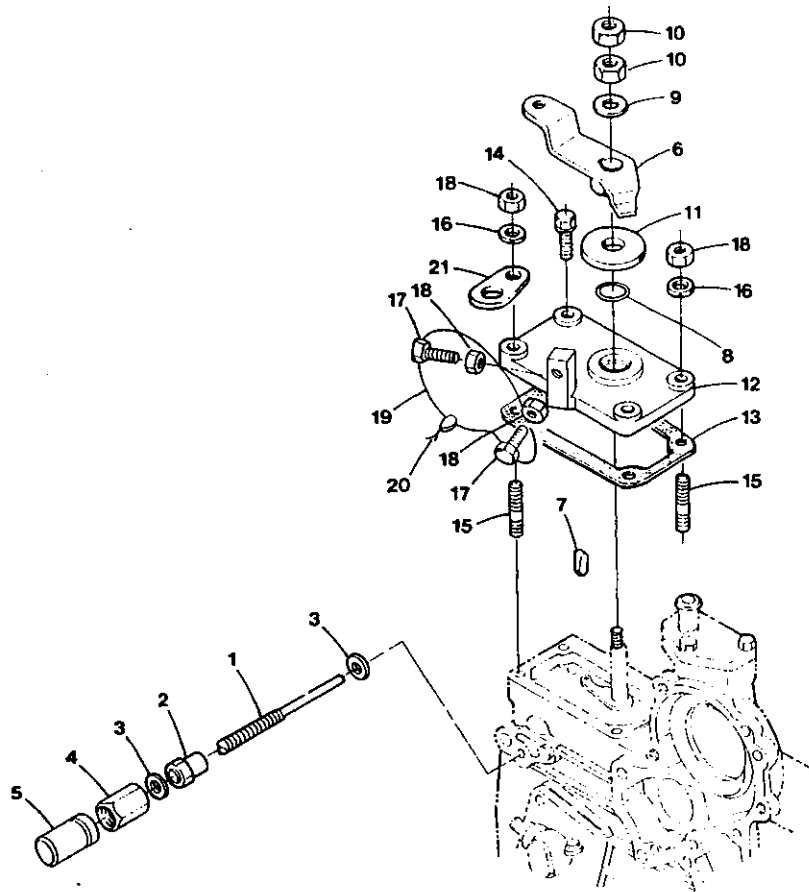
ITEM	PART NO.	DESCRIPTION	QTY.
1	299567	Assembly Holder, Nozzle 2 (V 1501-B)	4
1A	301782	Assembly Holder, Nozzle 2 (V 1502-B)	
2	298789	Gasket	4
3	298790	Pipe, Injection 1	1
4	298791	Pipe, Injection 2	1
5	301781	Pipe, Injection 3	1
6	301782	Pipe, Injection 4	1
7	298972	Clamp, Pipe 1	3
8	298973	Clamp, Pipe 2	3
9	298794	Screw, With Washer	3
10	298795	Glow Plug	4
11	298796	Cord, Glow Plug	3
12	298784	Pipe, Fuel Overflow	3
13		Pipe, fuel Overflow 2	1
14	298797	Clip, Pipe	8
15	299831	Hose Fuel Return	1
16		Clip Hose	2
17	299828	Mounting Bracket Fuel Return	1
18	299829	Connector Fuel Return	1
19	299830	Fuel Return Assembly	1

# FUEL CAMSHAFT



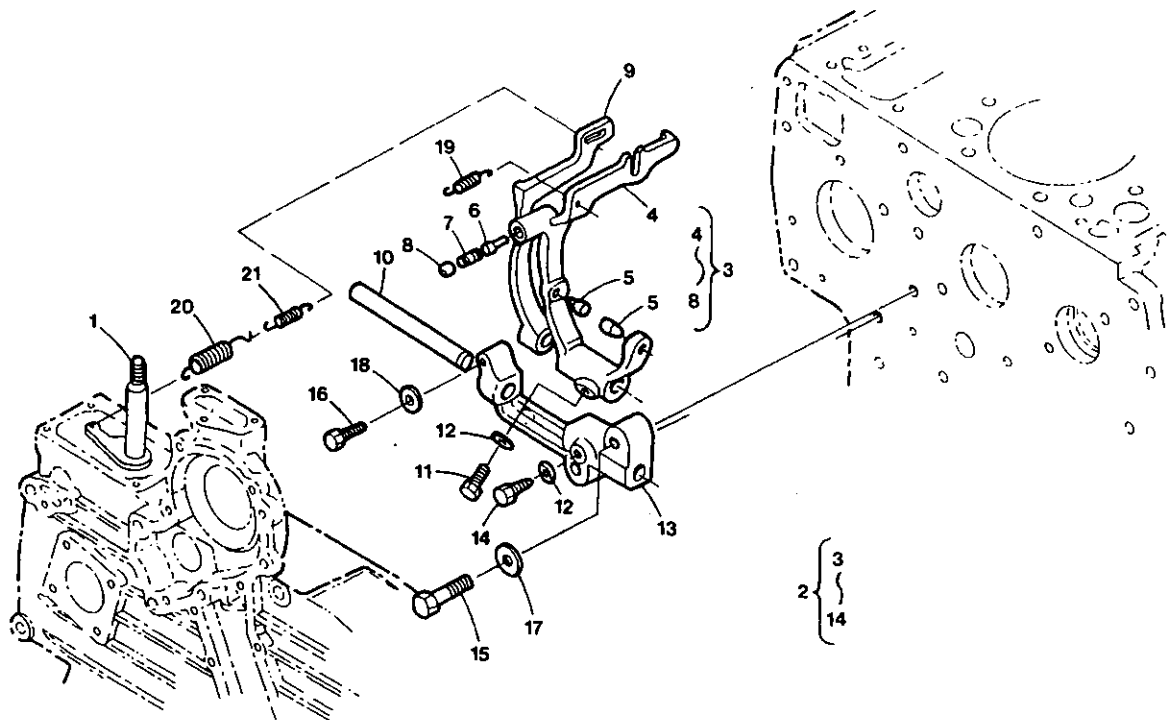
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Crankshaft, Fuel	1
2		Camshaft, Fuel	1
3	299816	Bearing, Ball	1
4		Gear, Injection Pump	1
5		Key, Feather	1
6	298748	Air-Clip, External	1
7	298802	Sleeve, Governor	1
8	298803	Air-Clip, Sleeve	1
9	298804	Case, Governor Ball	1
10	298805	Ball	39
11		Air-Clip, Ball case	1
12		Ball	7
13		Guide, Governor Ball	1
14		Rivet	7
15	300021	Bearing, Ball	1
16		Stopper, Fuel Camshaft	1
17	300008	Bolt	2
18	NLA	Cover, Fuel Camshaft	1
19	NLA	Collar	1
20	300024	Gasket	1
21	NLA	Air-Clip, External	1
22	NLA	Bolt	4
23	19262	Washer, spring	4

# SPEED CONTROL PLATE



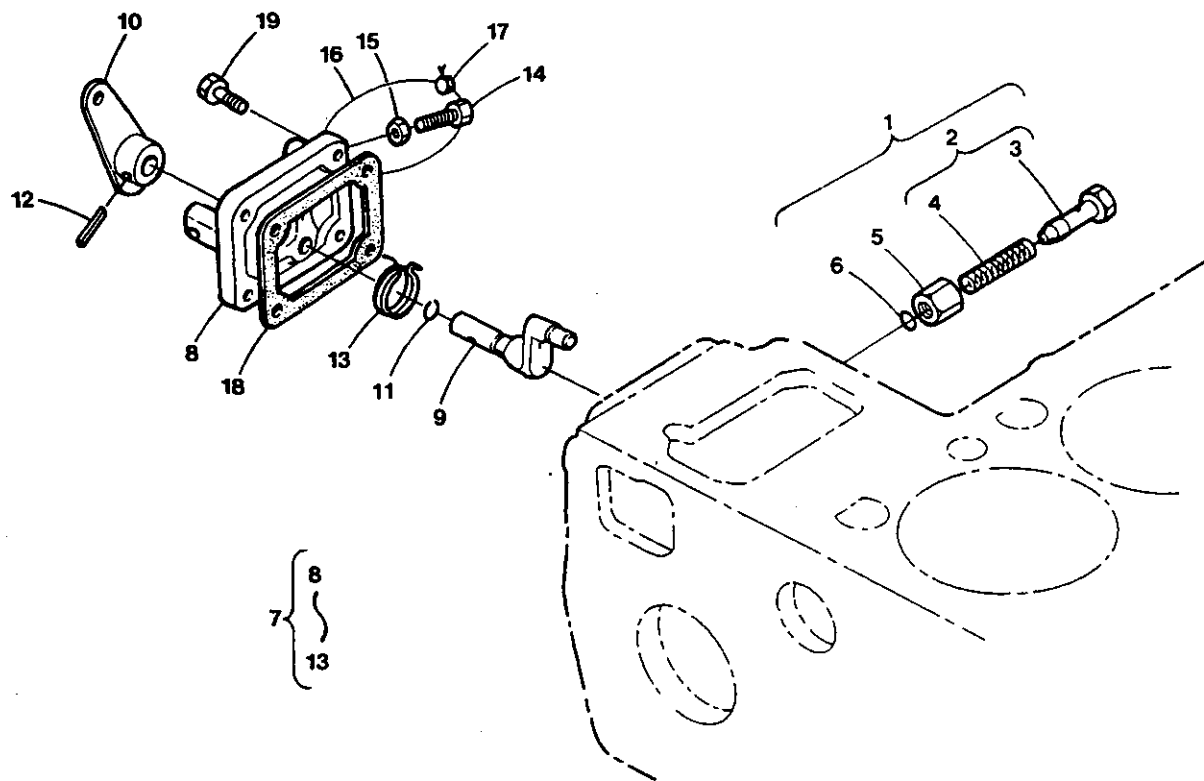
ITEM	PART NO.	DESCRIPTION	QTY.
1		Bolt, Adjusting	1
2		Nut	1
3		Gasket	2
4		Nut, Cap	1
5		Cap	1
6	300030	Lever, Speed Control	1
7		Key, Feather	1
8	298821	"O" Ring	1
9	300031	Washer, Plain	1
10		Nut	2
11	298822	Plate, Friction	1
12	300033	Plate, Speed Control	1
13	298824	Gasket, Control Plate	1
14	299432	Bolt	2
15	298825	Stud	2
16	299369	Washer, Spring	2
17		Stopper	2
18	298684	Nut	4
19		Wire	
20		Lead, Sealing	
21		Clamp, Pipe	

# GOVERNOR



ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Lever, Governor	1
2		Assembly Lever, Fork	1
3		Assembly Lever, Fork 1	1
4		Lever, Fork 1	1
5		Pin, Fork Lever 1	2
6		Pin	1
7		Spring	1
8		Screw, Set	1
9		Lever, Fork 2	1
10	298832	Shaft, Fork Lever	1
11		Bolt, Lever Shaft	1
12	299369	Washer, Spring	2
13	298834	Holder, Fork Lever	1
14	298835	Bolt	1
15		Bolt	2
16	299432	Bolt	1
17	31787	Washer, Plain	2
18		Washer, Plain	1
19		Spring, Start	1
20	300028	Spring, Governor 1	1
21	300029	Spring, Governor 2	1

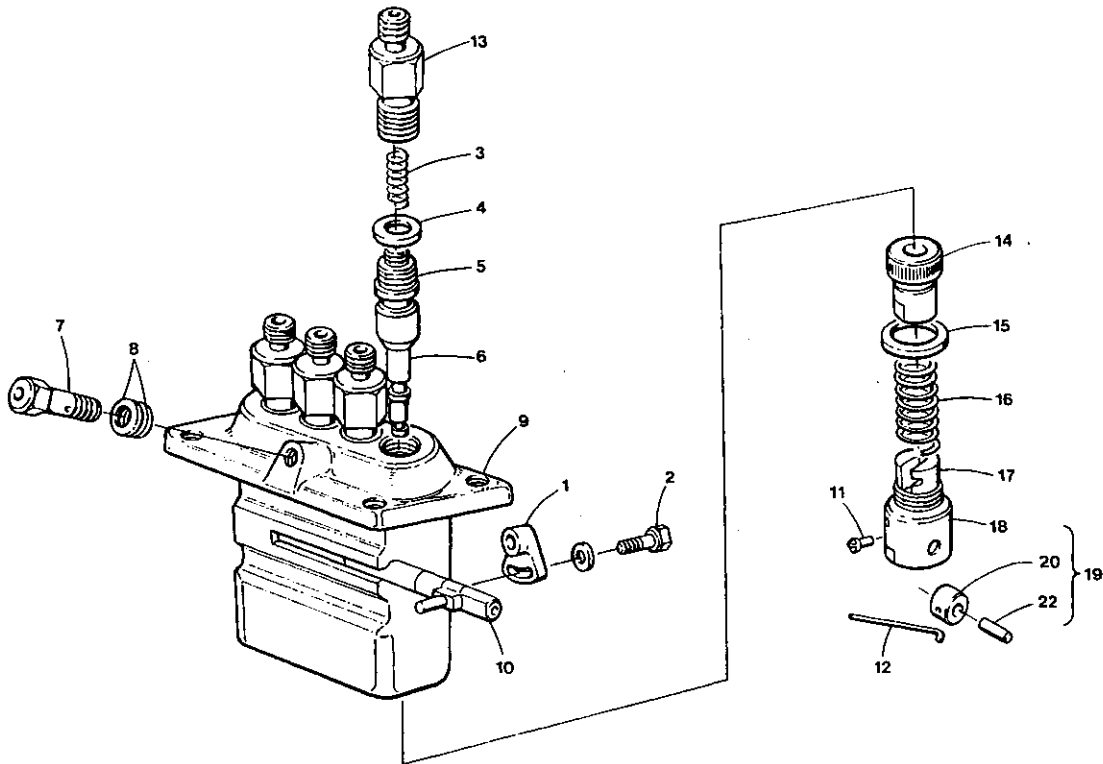
# ENGINE STOP LEVER



ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Apparatus, Idle	1
2		Assembly Bolt, Adjusting	1
3		Bolt, Adjusting	1
4		Spring	1
5		Nut	1
6		"O" Ring	1
7	300035	Assembly Lever, Engine Stop	1
8		Cover, Injection Pump	1
9		Shaft, Lever	1
10	300111	Lever, Engine Stop	1
11		"O" Ring	1
12		Pin, Spring	1
13		Spring	1
14		Stopper	1
15	298684	Nut	1
16		Wire	1
17		Lead, Sealing	1
18	299786	Gasket, Pump Cover	1
19	31810	Bolt	4

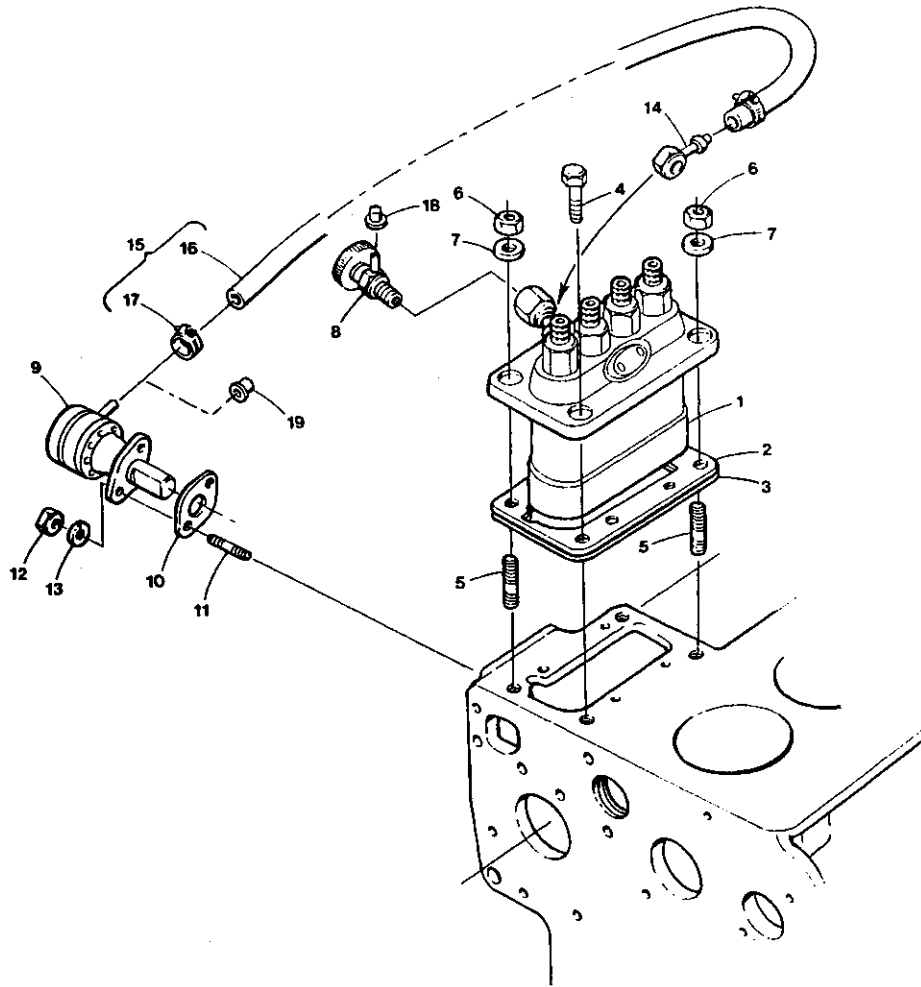


# INJECTION PUMP



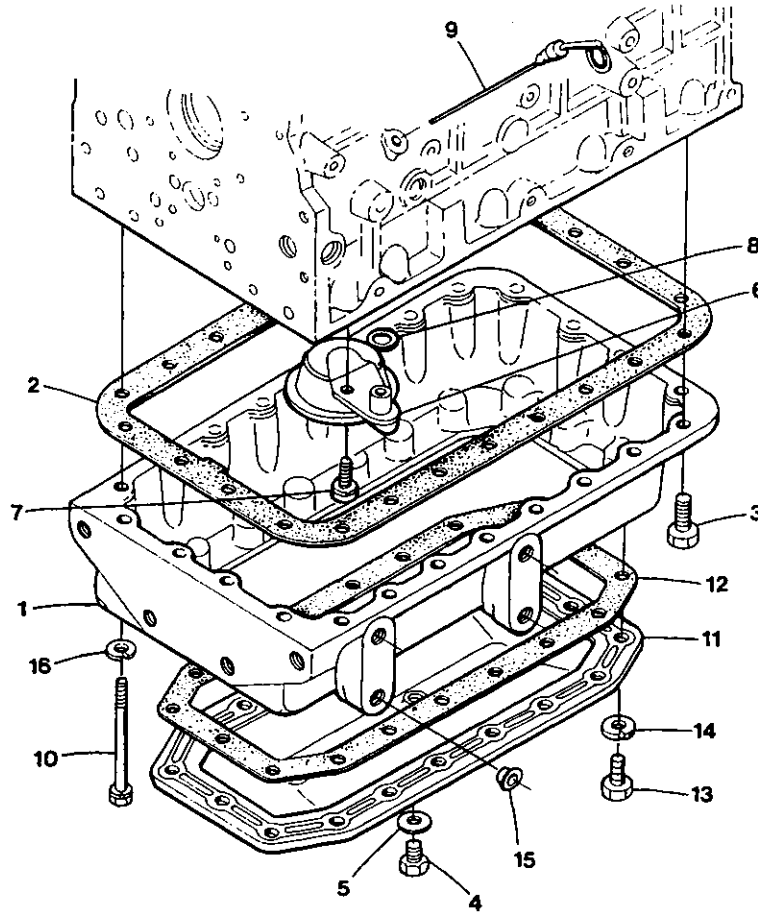
ITEM	PART NO.	DESCRIPTION	QTY.
*		Assembly Pump, Injection	1
1		Plate, Adjust	3
2		Bolt	3
3		Spring, Delivery Valve	4
4		Gasket, Delivery Valve	4
5		Valve, Delivery	4
6		Element, Pump	4
7	300057	Screw	1
8	298789	Gasket	2
9		Housing, Pump	1
10		Rack, Control	4
11		Pin, Tappet Guide	4
12		Pin, Clamp	2
13		Holder, Delivery Valve	4
14		Sleeve, Control	4
15		Seat, spring Upper	4
16		Spring, Plunger	4
17		Seat, Spring Under	4
18		Shim	4
19		Assembly Tappet	4
20		Roller	4
21		Pin, Roller	4

# INJECTION PUMP



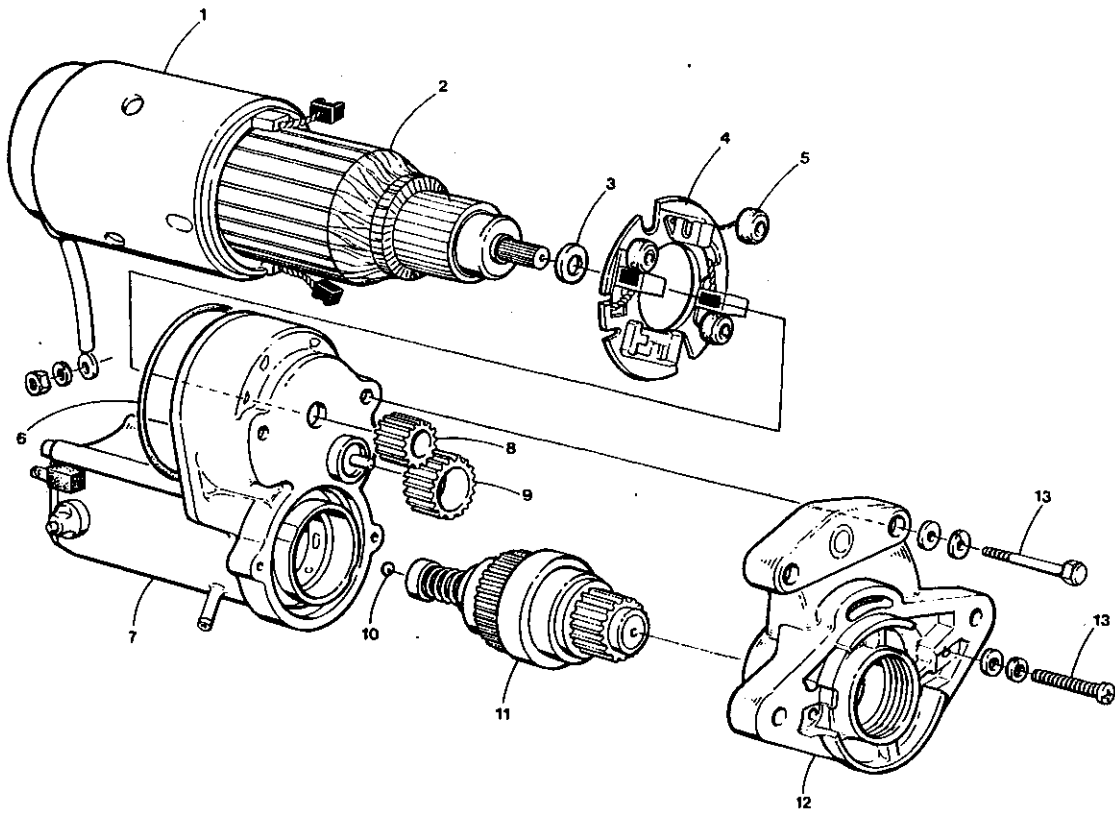
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Pump, Injection	1
2	299580	Shim	2
3	300049	Shim	1
4	299527	Bolt	4
5		Stud	2
6		Nut	2
7	299583	Washer, Spring	2
8	300050	Assembly Cock, Jet Start	1
9	299425	Assembly Pump, Fuel	1
10	299426	Gasket, Fuel Pump	1
11		Stud	2
12	298684	Nut	2
13	299369	Washer, Spring	2
14		Joint, Eye	1
15		Assembly Pipe, Fuel	1
16		Pipe, Fuel	2
17		Clip, Pipe	1
18		Cap	1
19		Cap	1

# OIL PAN



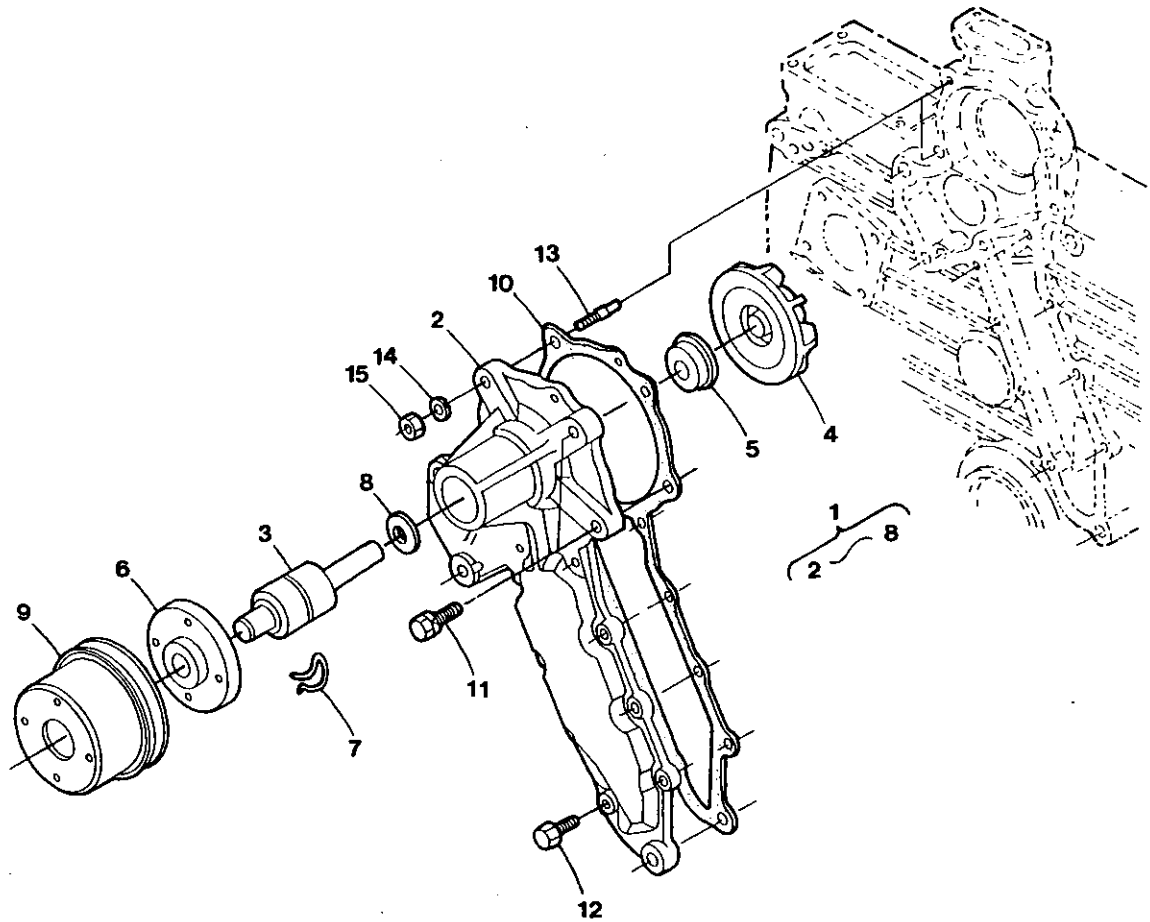
ITEM	PART NO.	DESCRIPTION	QTY.
1	299565	Oil Pan	1
2	299553	Gasket, Oil Pan	1
3	31083	Bolt	12
4	298660	Plug	1
5	299371	Gasket	1
6		Screen, Oil Pick-Up	1
7	300008	Bolt	1
8	299967	"O" Ring	1
9	299968	Dipstick, Oil	1
10	300018	Bolt	12
11	299564	Cover, Oil Pan	1
12	299560	Packing	1
13		Bolt	18
14	299583	Washer, Spring	18
15		Plug	8
16	19262	Washer, Spring	24

# STARTER MOTOR



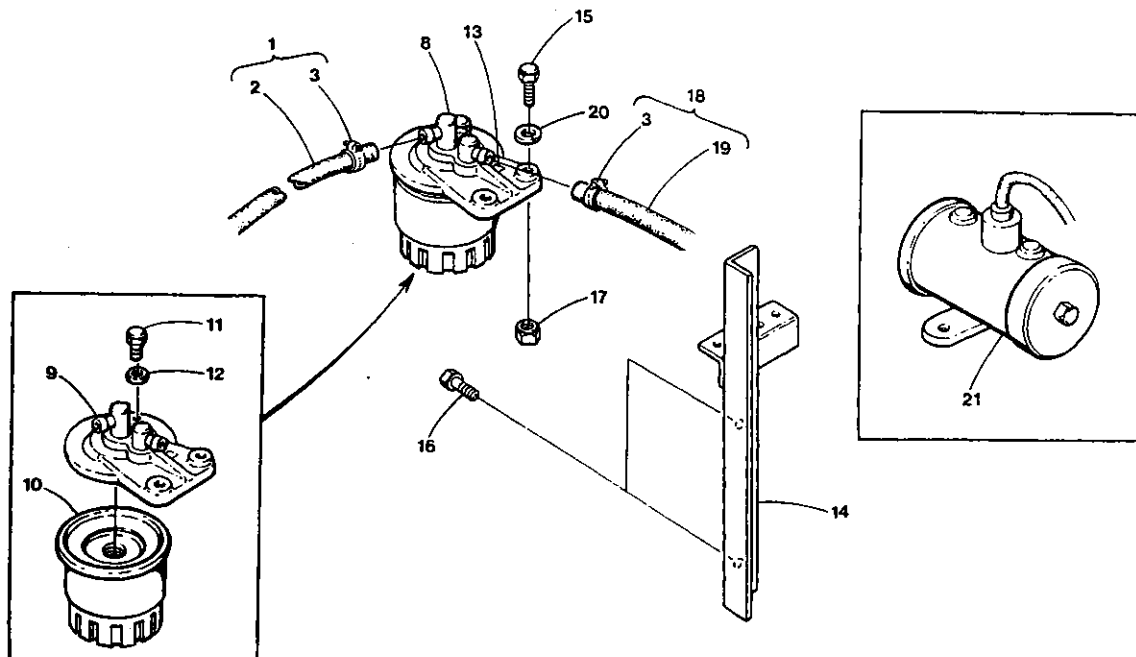
ITEM	PART NO.	DESCRIPTION	QTY.
*	299574	Assembly Starter	1
1		Yoke	1
2		Armature	1
3		Gasket	1
4	299841	Holder, Brush	1
5	299842	Spring, Brush	4
6		Gasket	1
7	300059	Switch, Magnetic	1
8		Gear, Spur 1	1
9		Gear, Spur 2	1
10		Ball	1
11	299846	Switch, Over-Running	1
12		Frame, Drive End	1
13		Bolt, Through	2
14		Screw, Pan Head	

# WATER PUMP



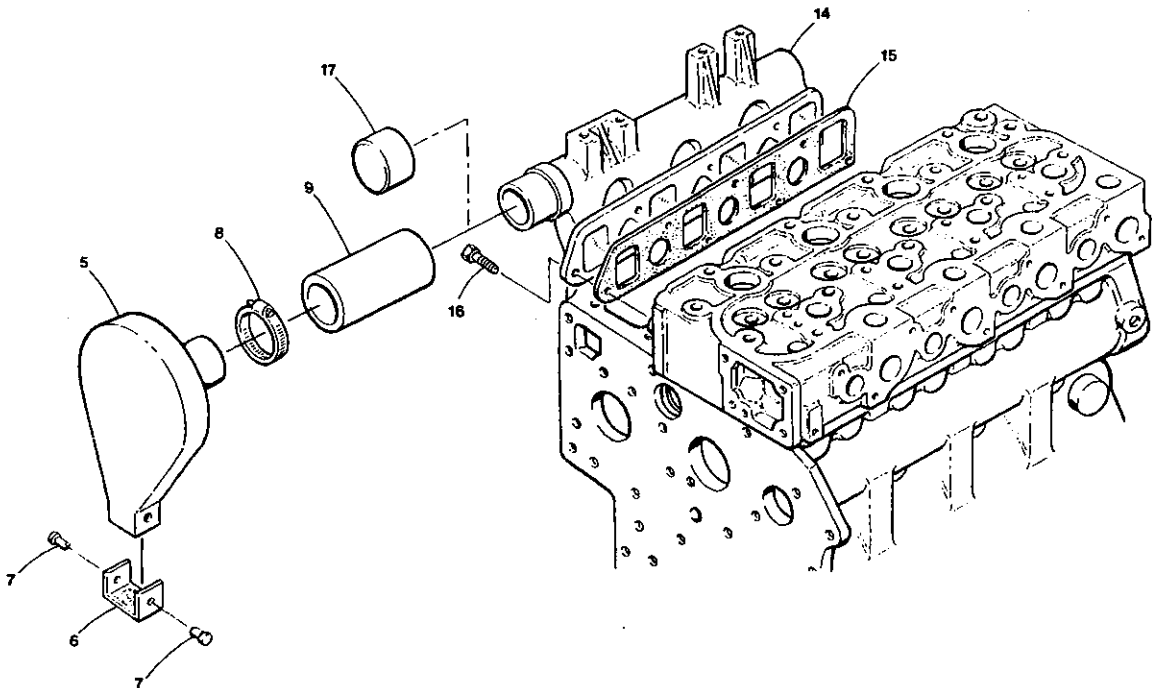
ITEM	PART NO.	DESCRIPTION	QTY.
1	300041	Assembly Pump, Water	1
2		Body, Water Pump	1
3	300042	Bearing	1
4	300043	Impeller, Water Pump	1
5	300044	Set, Seal	1
6		Flange, Water Pump Shaft	1
7		Pin, Snap	1
8		Slinger	1
9		Pulley, Fan	1
10	300047	Gasket, Water Pump	1
11	299527	Bolt	2
12	31810	Bolt	8
13		Stud	2
14	31786	Washer, Spring	2
15		Nut	2

# FUEL FILTER GROUP



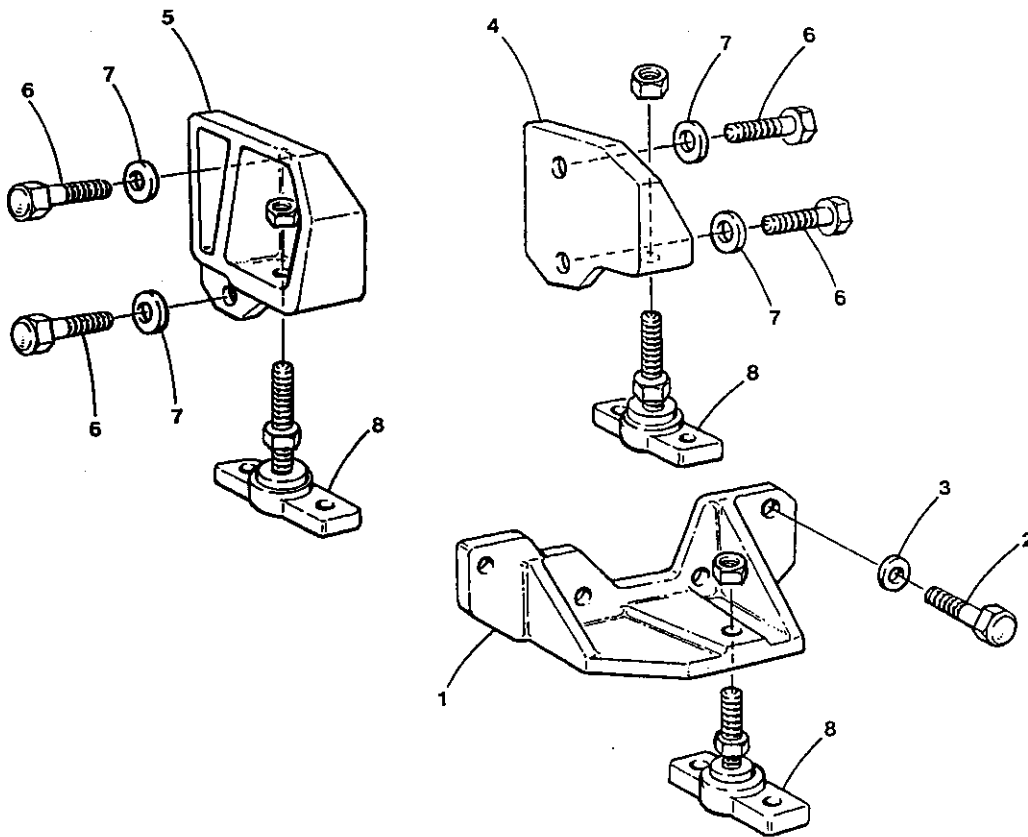
ITEM	PART NO.	DESCRIPTION	QTY.
1		Fuel Pipe Assembly	1
2		Pipe, Fuel	1
3		Clip, Pipe	4
4		Gasket	2
5		Joint, Fuel Pipe	1
6		Pipe, Fuel	1
7		Clip, Pipe	2
8	298853	Fuel Filter Assembly	1
9		Cover, Filter	1
10	298854	Element, Filter	1
11	299855	Plug, Filter Breather	1
12	299856	"O" Ring	1
13		Mark, form	1
14	298836	Bracket, Filter	1
15	31555	Bolt	2
16	298973	Bolt	2
17		Nut	2
18		Fuel Pipe Assembly	1
19	298567	Pipe, Fuel Filter To Engine	1
20	31786	Washer, Lock	1
21	302025	Electric Fuel Pump	1

# AIR CLEANER GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1			
2			
3			
4			
5	298548	Air Silencer	1
6	300525	Screw	1
7		Pop Rivet	2
8	21122	Clamp	2
9	299083	Hose	1
10			
11			
12			
13			
14	299997	Manifold, Inlet	1
15	299998	Gasket, In-Manifold	1
16	299527	Bolt	7
17		Cap	1

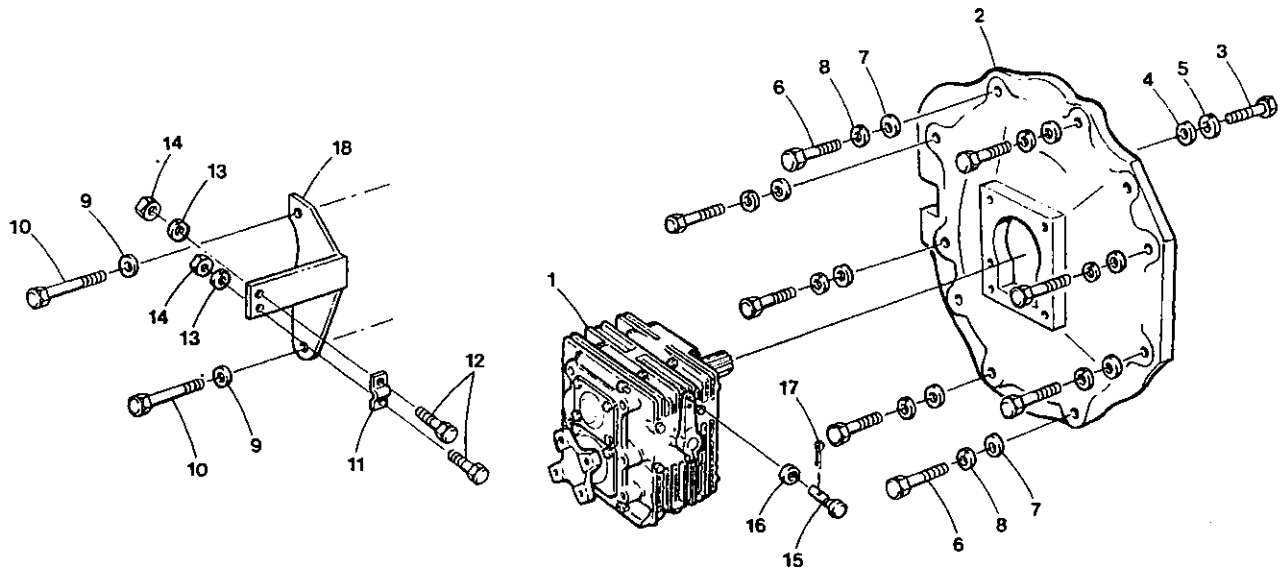
# ENGINE MOUNT GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1	301367	Mounting Bracket - Front	1
2	31228	Hex Hd. Cap Screw (10mm x 30mm Lg)	4
3	19262	Lockwasher - Split (10mm Screw)	4
4	298517	Mounting Bracket - Rear L.H.	1
5	298519	Mounting Bracket - Rear R.H.	1
6	298464	Hex Hd. Cap Screw (14mm x 35mm Lg)	4
7	31797	Lockwasher - Split (14mm Screw)	4
8		Flexible Mount	4-Mar
9		4 Pt. Mount - Use New Mt.	
		Note: When using the four point mount option, mounting bracket (Item 1) must be part no. 299706 and one extra 289232 mount is required.	
	300514	Flex Mount (Softer) Opt.	4-Mar
	301103	3-4 Point Mount	
	301442	1 Piece 10mm x 1.25 x 70m Bolt	1
		1 Piece 12mm x 1.25 x 70m Bolt	1

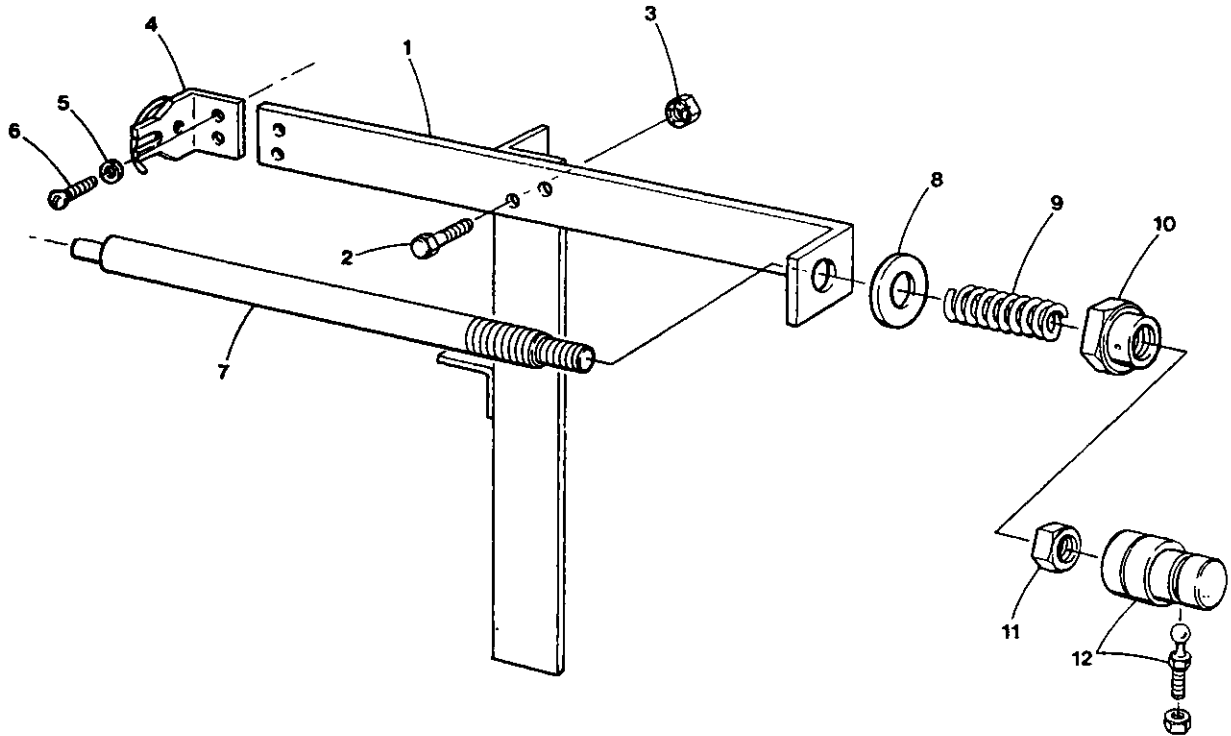


# TRANSMISSION GROUP



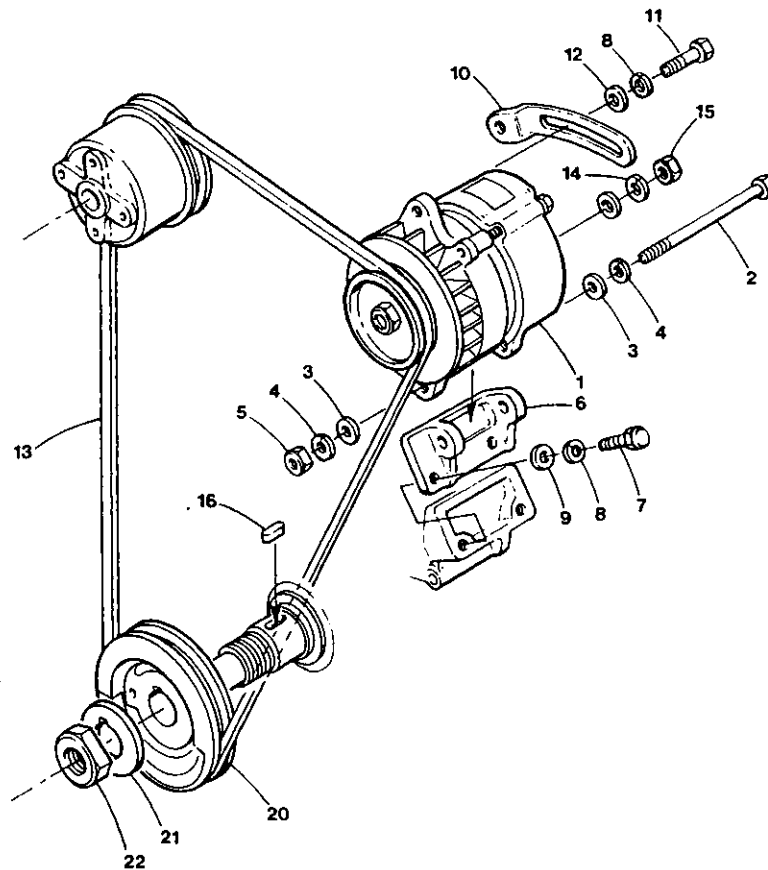
ITEM	PART NO.	DESCRIPTION	QTY.
1	300117	Reverse Gear Box, Complete	1
2	200403	Bell Housing, Reverse Gear	1
2A	300811	Bell Housing, w/ mounting feet (NEW)	
3	298468	Hex Hd. Cap Screw (8mm x 1.25 x 25mm)	6
4		Flat Washer, SAE 5/16	6
5	31786	Washer, Lock (8mm Screw)	6
6	298616	Hex Hd. Cap Screw, (10mm x 50mm Lg)	6
7	298456	Flat Washer (.413 ID)	6
8	19262	Lock Washer, Split (10mm Screw)	6
9	31786	Lock Washer, Split (8mm Screw)	2
10	298895	Hex Hd. Cap Screw (8mm x 1.25 x 16mm)	2
11	298897	Clamp, Shaft Cable to Shift Control Bracket	1
12	31872	Round Head Machine Screw (#10-32 x 1/2)	2
13	31849	Lock Washer, Split (#10 Screw)	2
14	31847	Hex Nut (#10-32)	2
15	299690	Pivot, Shift Cable to Reverse Gear Lever	1
16	231874	Flat Washer SAE 1/4"	1
17	230281	Cotter Pin 3/32 x 1/2"	1
18	300427	Bracket, Shift Control Mt'g Cable	1
19	298454	Damper	
20	298505	Damper Plate	
21	200403	Bell housing, V-Drive	
22		Borg Werner Housing	

# THROTTLE LINKAGE CONTROL GROUP



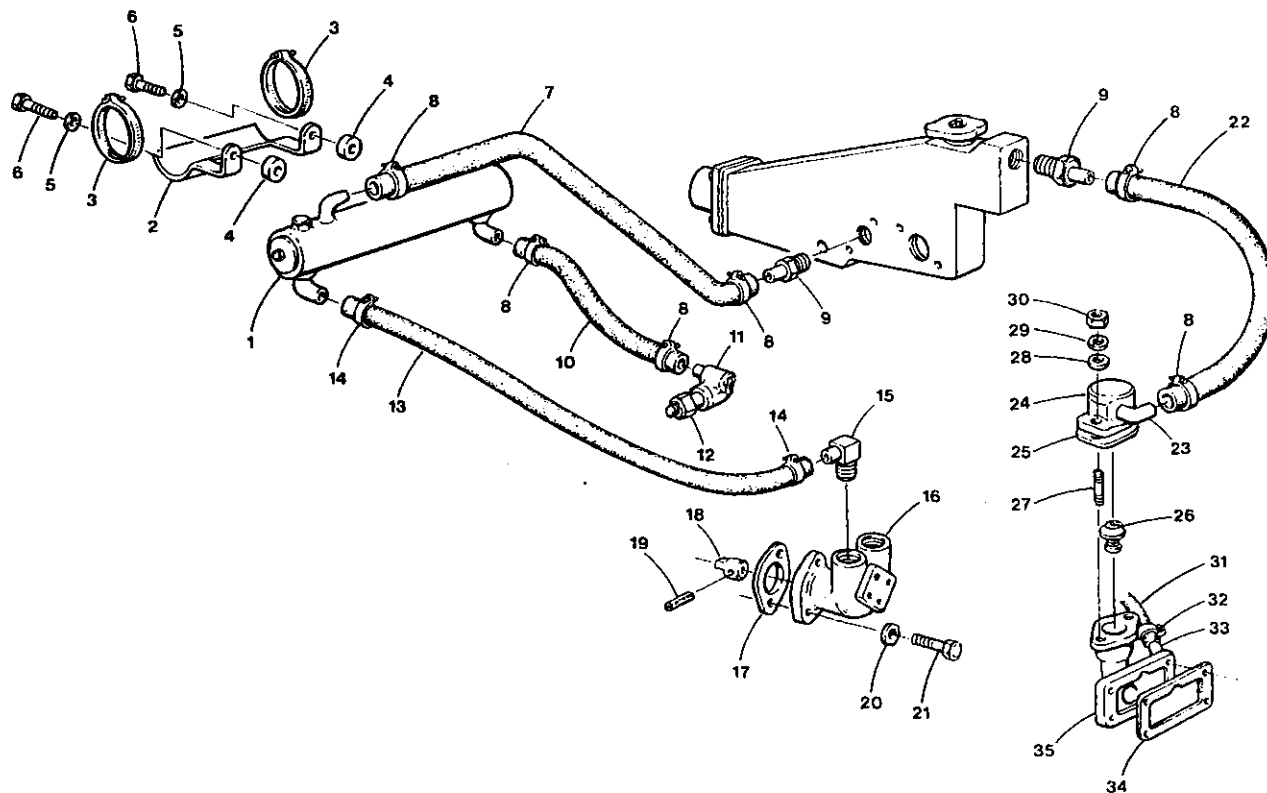
ITEM	PART NO.	DESCRIPTION	QTY.
1	298637	Bracket-Throttle Cable Mtg.	1
2	231035	Hex Hd. Cap Screw (1/4-20 x 3/4" Lg)	2
3	230257	Lock Nut-flexlock (1/4-20)	2
4	298630	Cable Hook Clip	1
5	31849	Lock Washer, Split (#10)	2
6	31872	Round Head Machine Screw (#10-32 x 1/2)	2
7	300322	Stud - Throttle Control Linkage	1
8	31759	Flat Washer SAE 5/16	1
9	298886	Spring, Throttle Stop	1
10	298610	Lock Nut, Flexlock (5/16 x 24)	1
11	31847	Hex, Nut (#10-32)	1
12	299767	Ball Joint, Throttle Linkage	1

# ALTERNATOR GROUP



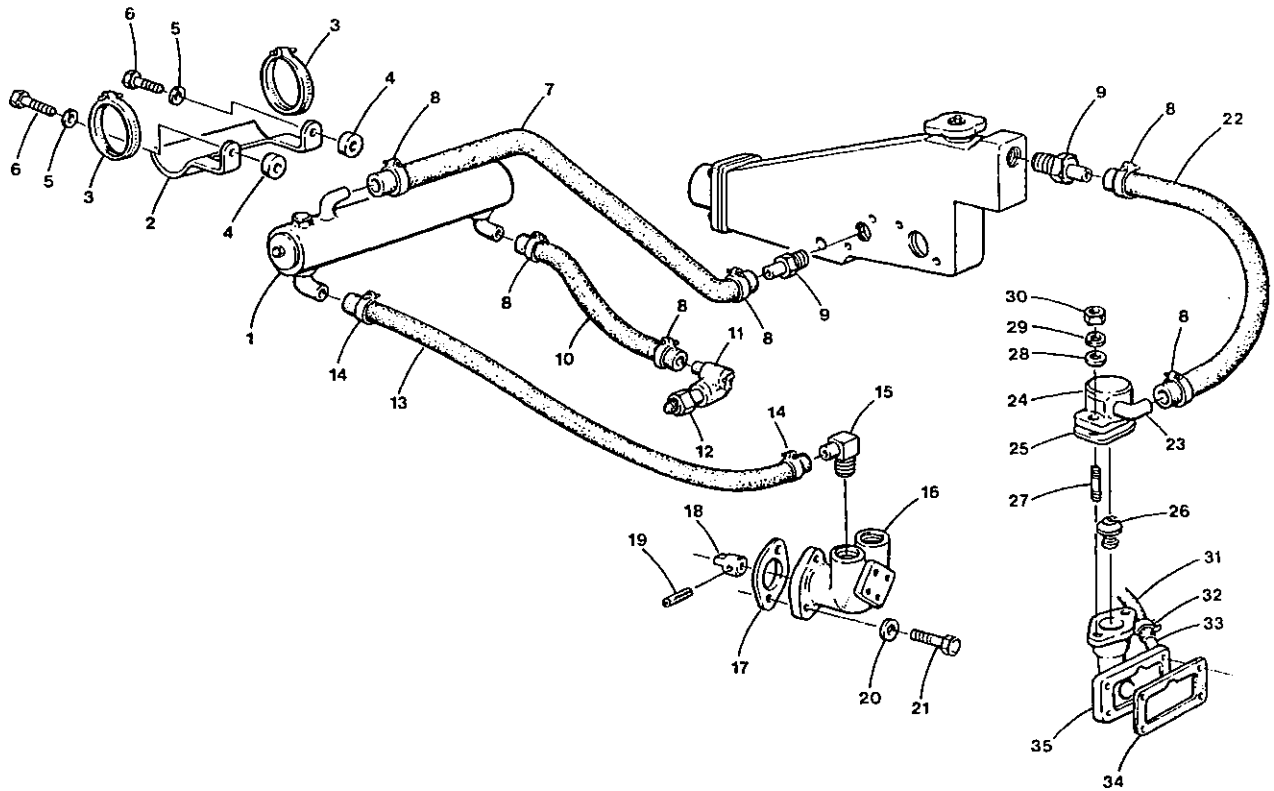
ITEM	PART NO.	DESCRIPTION	QTY.
1	302280	51 AMP Alternator & Tach A.C. Tap Kit	1
2	31616	Hex Hd. Cap Screw (3/8-16 x 3-3/4 Lg)	1
3	231876	Washer, SAE 3/8"	2
4	31764	Washer, Split Lock 3/8"	1
5	31762	Hex Nut, 3/8-16	1
6	298521	Alternator Mounting Bracket	1
7	298468	Hex Hd. Cap Screw (8mm x 1.25 x 25mm)	2
8	31786	Washer Lock (8mm Screw)	3
9	31759	Washer, Flat SAE 5/16	2
10	299809	Alternator Adjusting Arm	1
11	31553	Hex Hd. Cap Screw (5/16-18 x 3/4" Lg)	1
12	31759	Washer, Flat Plain 5/16"	1
13	239648	"V" Belt 1902 & 1101	1
13A	11668	"V" Belt V1902	1
14		(Supplied with Washer, Spring Alternator)	1
15		Nut	1
16		Key, Feather	1
17		Pulley	1
18	298837	Washer, Crankshaft	1
19	298836	Nut, Crankshaft	1
20	302199	Crank Pulley	1
21	298837	Washer, Crankshaft	1
22	298836	Nut, Crankshaft	1
23	300746	Alternator, 72 amp 12v	1

# COOLING SYSTEM GROUP



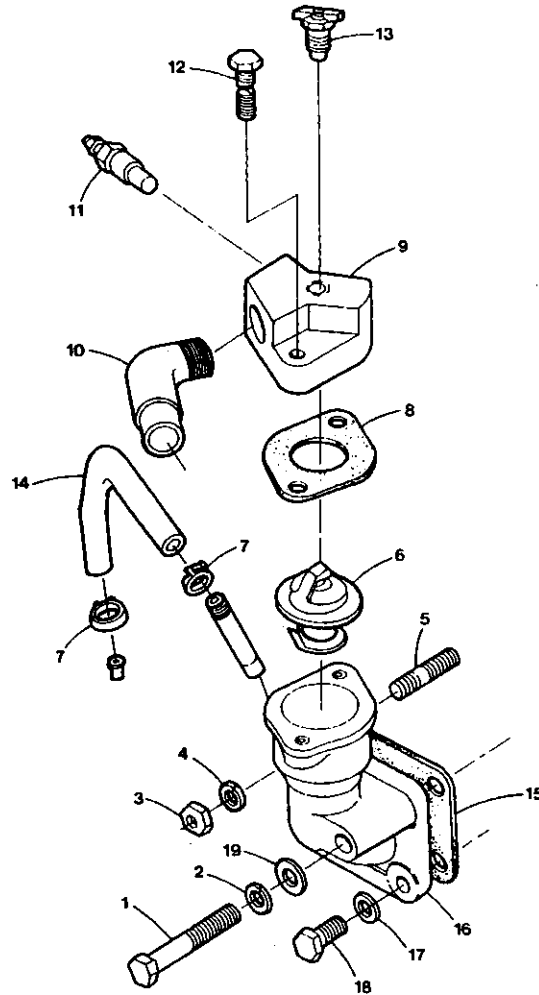
ITEM	PART NO.	DESCRIPTION	QTY.
1	299818	Heat Exchanger 3"x17" Long	1
2	301683	Support Bracket	1
3	298837	Camp, Heat Exchanger	2
4	299853	Spacer	2
5	19262	Washer, Lock Split (10mm Screw)	2
6	301442	Hex Hd Cap Screw (10mm x 1.25 x 55mm)	2
7	299079	Wire Flex Hose 7/8 ID x 10-3/4 Lg	1
8	11386	Hose Clamp for 7/8 Hose	6
9	286075	Hose Connector - 3/4 MPT to 7/8 ID Hose	2
10	299826	Hose 7/8 ID x 26" Lg	1
11		Drain Cock 1/8"	1
12		Hose and Drain Adapter	1
13	299824	Hose 5/8 ID x 28" Lg	1
14		Hose Clamp 3/8 to 7/8"	2
15	241019	Hose Fitting 90 Deg. x 3/8	1
16	301357	Raw Water Pump	1
17	300253	Gasket, Raw Water Pump Mtg.	1
18	298478	Coupling, Water Pump	1
19	230371	Roll Pin, 3/16 x 7/8 Lg	1
20	31764	Washer, Lock Split 3/8	2
21	31605	Hex Hd Cap Screw (3/8-16 x 1" Lg)	1
22	299825	Hose 7/8 ID x 8" Lg	1
23	298644	Hose Connector	1
24	298583	Thermostat Housing	1
25	298843	Gasket, Thermostat Housing	1
26	299798	Thermostat Element	1

# COOLING SYSTEM GROUP



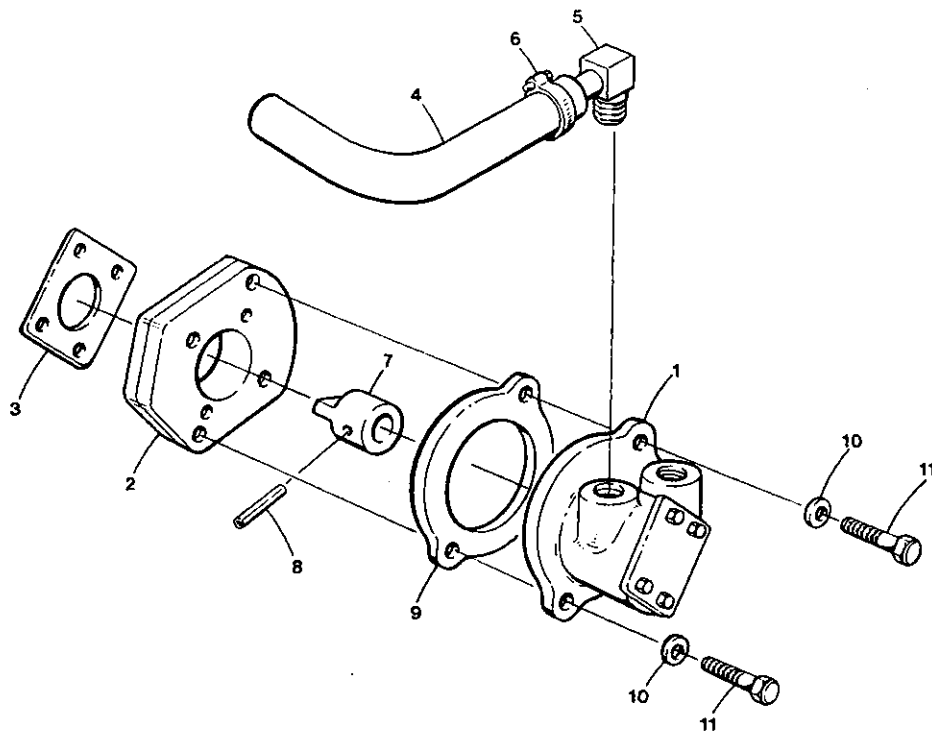
ITEM	PART NO.	DESCRIPTION	QTY.
27		Stud	2
28		Washer, Plain	2
29		Washer, Lock Split	2
30		Hex, Nut	2
31	298841	Hose, Water Return	1
32	298842	Clamp, Hose	2
33	298840	Pipe, Water Return	1
34	298839	Gasket, Water Flange	1
35	300039	Flange, Water	1
36	299066	Temperature Sender	1
37	13970	1/4 NPT Pet-Cock	

# THERMOSTAT



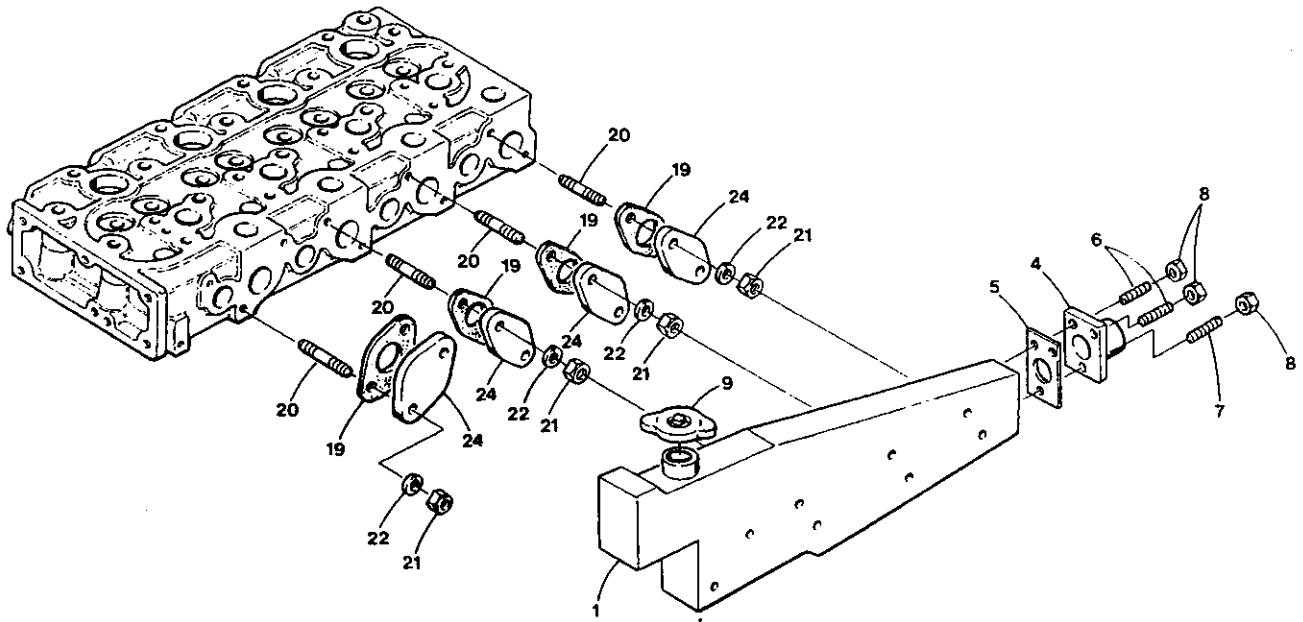
ITEM	PART NO.	DESCRIPTION	QTY.
1	299981	Bolt	1
2	31786	Lockwasher	2
3	301297	Nut	1
4	31786	Lockwasher	1
5	302558	Stud	1
6	299798	Thermostat	1
7	298842	Clamp	2
8	298843	Gasket	1
9	298583	Thermostat	1
10	298644	Elbow	1
11	299066	Temperature Sender	1
12	301748	Bolt	2
13	239138	Drain Cock	1
14	300312	Hose	1
15	300040	Gasket, Water Flange	1
16	300039	Flange, Water	1
17	299583	Washer, Spring	2
18	299527	Bolt	2
19	31787	Washer, Plain	1

WATER PUMP GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1		Pump-Oberdorfer	1
2	298477	Adapter Plate	1
3	298485	Gasket, Adapter Plate	1
4	299162	Hose 1/2" Pump to Engine	1
5	241019	Fitting 90 Deg. 1/2" Hose	1
6		Clamp 1/2" Hose	1
7	298478	Coupling Adapter	1
8	230371	Roll Pin 3/16 Dia. x 7/8 Lg	1
9	300253	Gasket	1
10	31764	Washer	2
11	31605	Cap Screw	2
12	298889	Cam	1
	301788	Shaft New Style	
		When replacing pump impeller order "water pump repair kit" Part No. 298416-A.	
		Kit consists of: impeller, lip seal, gasket, and retaining ring.	

# EXHAUST MANIFOLD GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1	299886	Manifold	1
2			
3			
4	299788	Exhaust Flange	1
5	298600	Gasket, Exhaust Flange	1
6	276440	Stud, Exhaust Flange Mounting	2
7	298974	Stud, Exhaust Flange Mounting	1
8	31766	Hex Nut, Exhaust Flange Mounting 3/8-24	3
9	24306	Radiator Cap, Pressurized 7 PSI	1
10	298635	Stud, Exhaust Manifold	8
11	18242	Hex Nut, Exhaust Manifold (8mm x 1.25p)	8
12			
13			
14			
15			
16			
17			
18			
19	298707	Gasket, Exhaust Manifold	4
20		Stud	8
21		Nut	8
22		Washer, Spring	8
23			
24		Cover	4



# ELECTRICAL SYSTEM

ITEM	PART NO.	DESCRIPTION	QTY.
		Instrument Panel Complete	1
	300667	Panel	1
	298385	Ammeter	1
	299240	Oil Indicator Light	1
	298383	Temperature Gauge	1
	299190	Ignition Switch	1
	299650	Blower Switch	1
		Blower Switch Plate	1
	299839	Glow Plug Switch	1
	299755	Glow Plug Switch Plate	1
		Caution Plate	1
		Fuse - 10A	1
	299066	Temperature Sender - 1/4"	1
	298584	Panel Harness	1
	300675	10 Ft. Extension Harness	1
	298586	Engine Wire Harness	1
	300684	Tach	1
	299263	Tach	1
		Instrument Panel Complete with 299263	
		Tachometer and all other components	
		listed above.	
	256784	Gasket Set	Optional
	256774	Spare Parts Kit	Optional
	256835	Valve Grind Kit	
		Volt Meter	
		Dual Temperature Sender	
	256774	Spare Parts Kit	

