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Model 5432

Marine Diesel Engine

Publication # 200147

Edition Two

May 1998



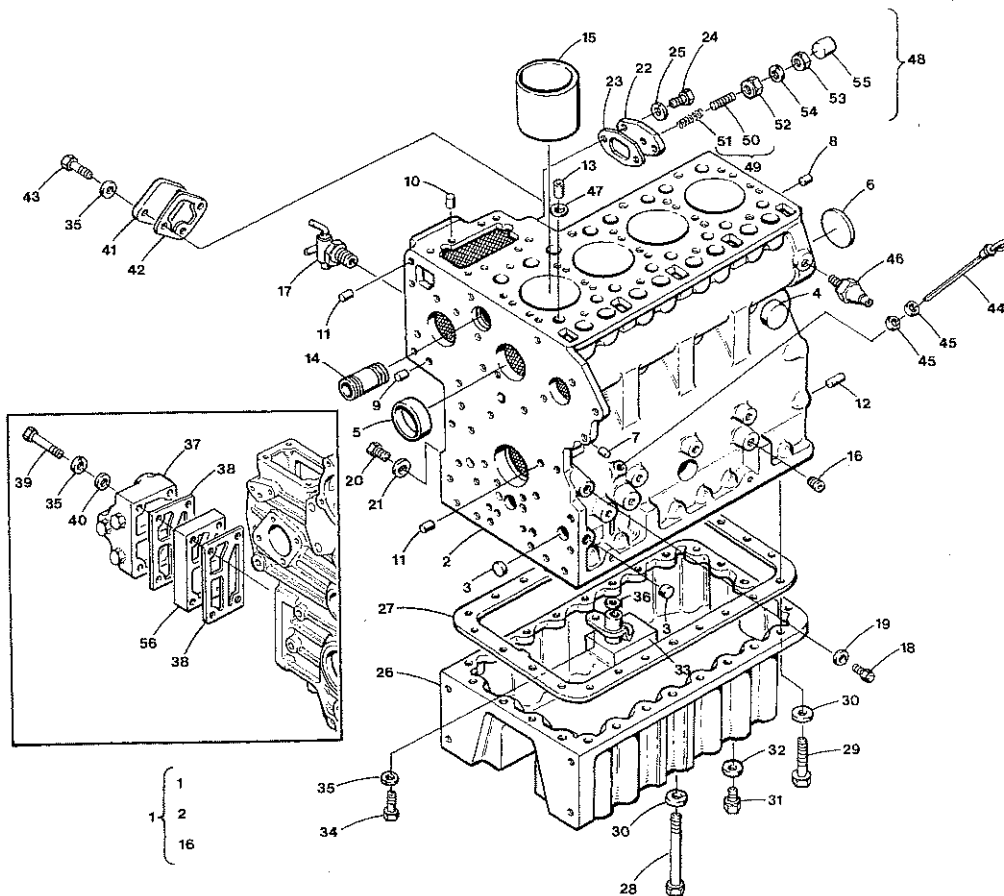
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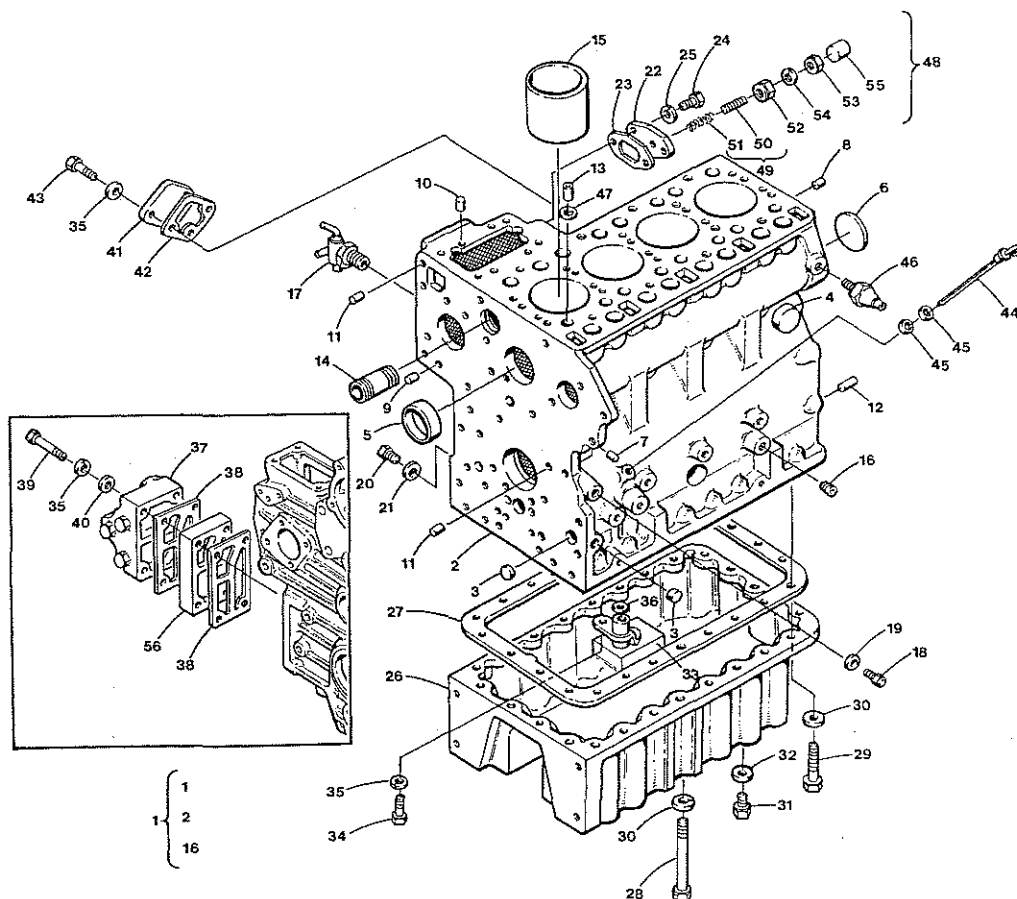
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CRANKCASE

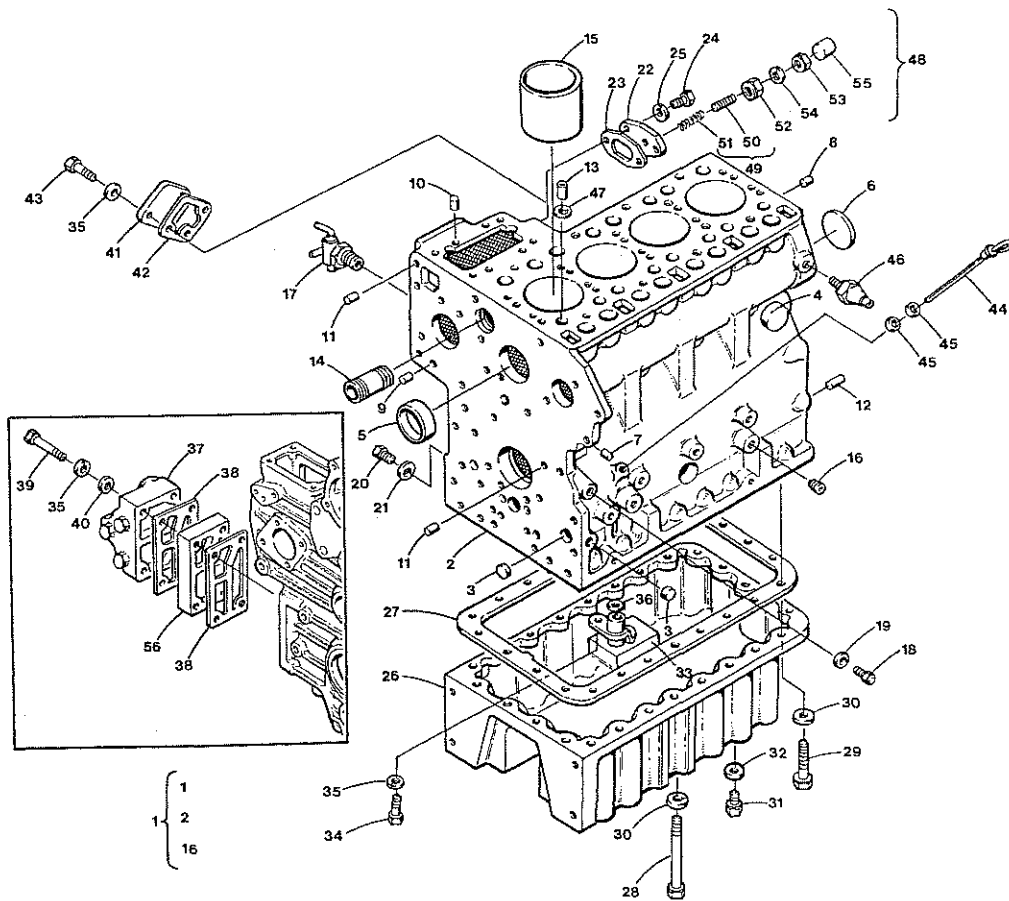
To Serial Number 315022



ITEM	PART NO.	DESCRIPTION	QTY.
1	299552	Crankcase Assembly	
2	Order # 1	Crankcase	1
3		Plug, Expansion	3
4	299897	Cap, Sealing	6
5	299958	Cap, Sealing	2
6		Plug, Expansion	1
7		Plug, Pin	2
8		Plug, Pin	1
9	301700	Pin, Straight	2
10	299359	Pin, Straight	2
11	301701	Pin, Straight	2
12	301702	Pin, Straight	1
13	301485	Pin, Pipe	1
14	302401	Pipe, Water	1
15	298856	Liner, Cylinder	4
16	301697	Plug	2
17	298664	Cock, Drain	1
18	298658	Plug	5
19	298659	Gasket	5
20	298653	Plug	1
21	299553	Gasket	1
22	298881	Cover	1
23		Gasket	1
24		Bolt	2



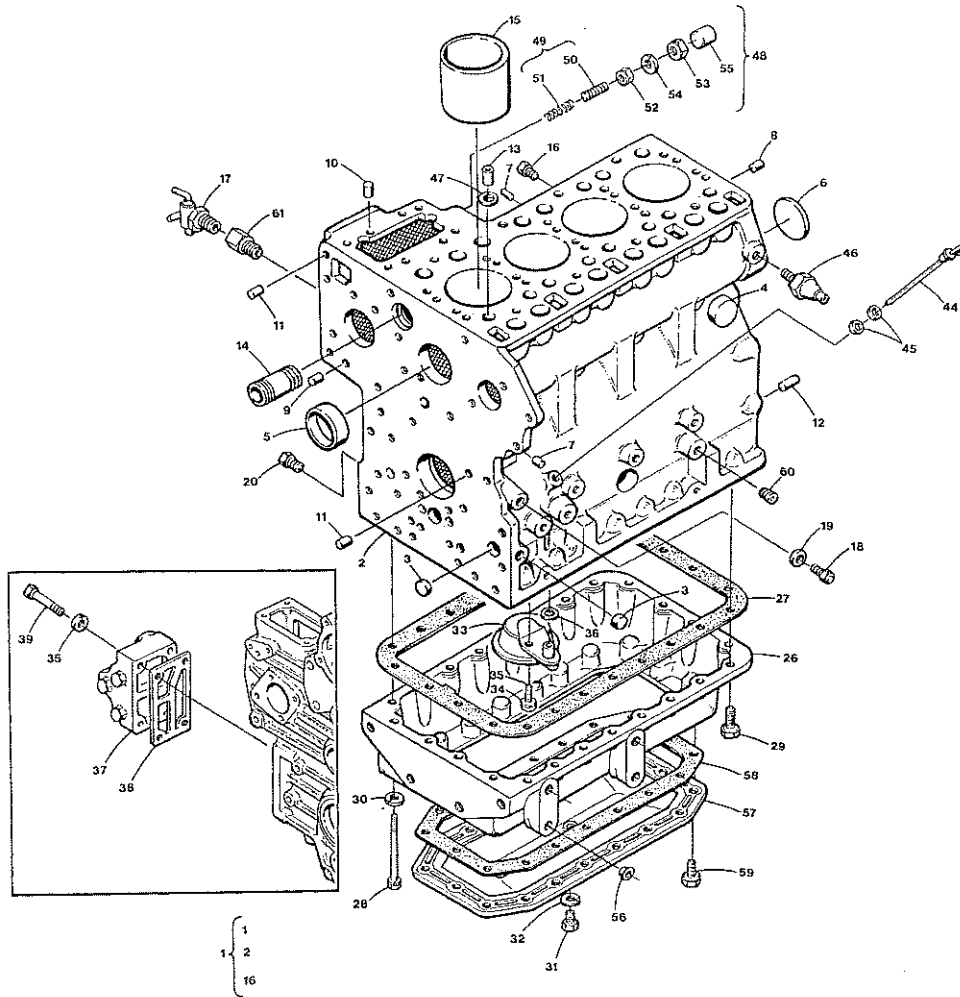
ITEM	PART NO.	DESCRIPTION	QTY.
25	31783	Washer, Spring	2
26	299565	Oil Pan	1
27	299553	Gasket, Oil Pan	1
28		Bolt	4
29		Bolt	20
30	19262	Washer, Spring	24
31	298660	Plug	2
32	298654	Gasket	2
33		Filter, Oil	1
34	299969	Bolt	1
35	19262	Washer, Spring	7
36	299967	O Ring	1
37	298860	Assy. Filter, Oil	1
38	298655	Packing	2
39		Bolt	4
40	19262	Washer, Plain	4
41		Cover	1
42		Gasket	1
43	302438	Bolt	2
44	298661	Gauge, Oil (dipstick)	1
45	298662	O Ring	2
46	298662	Switch, Oil	1
47	299362	O Ring	1
48		Assy. Apparatus Idle	1



ITEM	PART NO.	DESCRIPTION	QTY.
49		Assy. Bolt	1
50		Bolt, Adjusting	1
51		Spring	1
52		Nut	1
53		Nut, Cap	1
54	298659	Gasket	2
55		Cap	1
56		Distance Piece	1

CRANKCASE

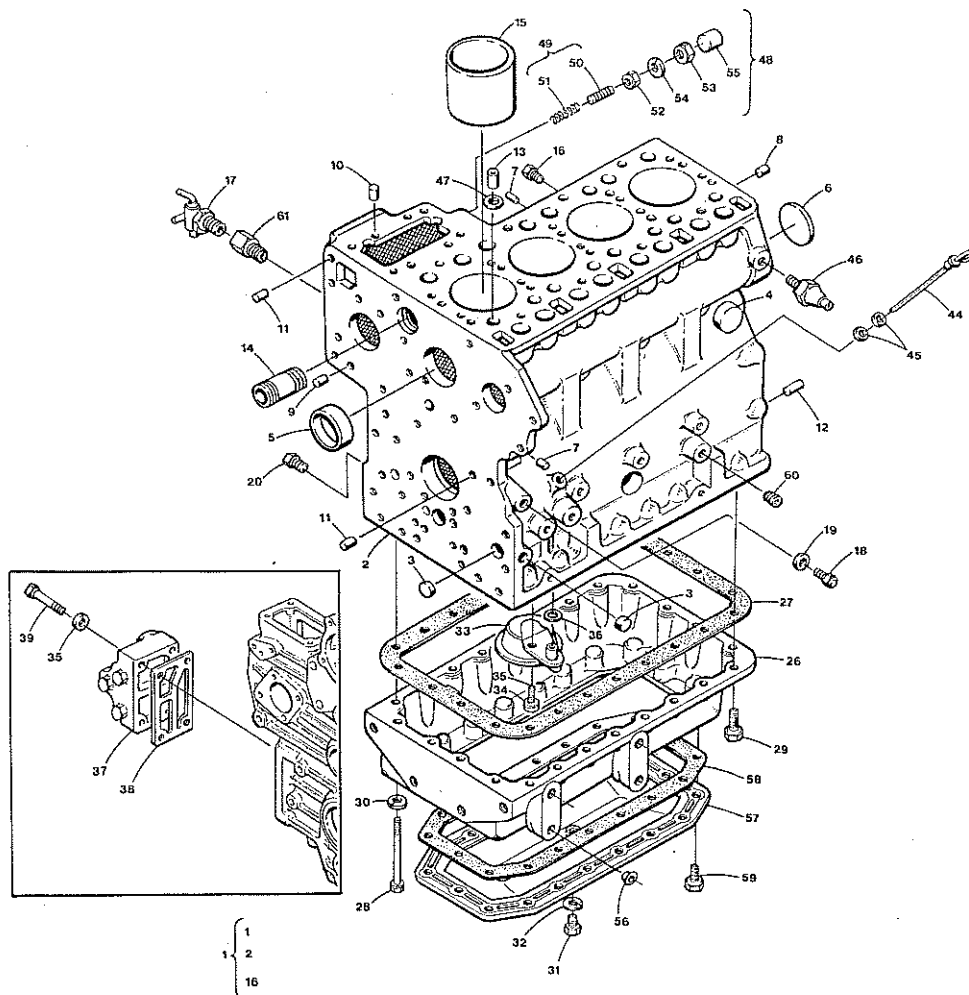
From Serial Number 315023



ITEM	PART NO.	DESCRIPTION	QTY.
1	299552	Crankcase Assembly	1
2		Crankcase	1
3		Plug, Expansion	3
4		Cap, Sealing	6
5		Cap, Sealing	2
6		Plug, Expansion	1
7		Plug, Pin	2
8		Plug, Pin	1
9		Pin, Straight	2
10		Pin, Straight	2
11		Pin, Straight	2
12		Pin, Straight	1
13		Pin, Pipe	1
14		Pipe, Water	1
15	298856	Liner, Cylinder	4
16		Plug	2
17	298664	Cock, Drain	1
18	298658	Plug	5
19	298659	Gasket	5
20	298653	Plug	1
21		Gasket	1
22		Cover	1
23		Gasket	1

CRANKCASE

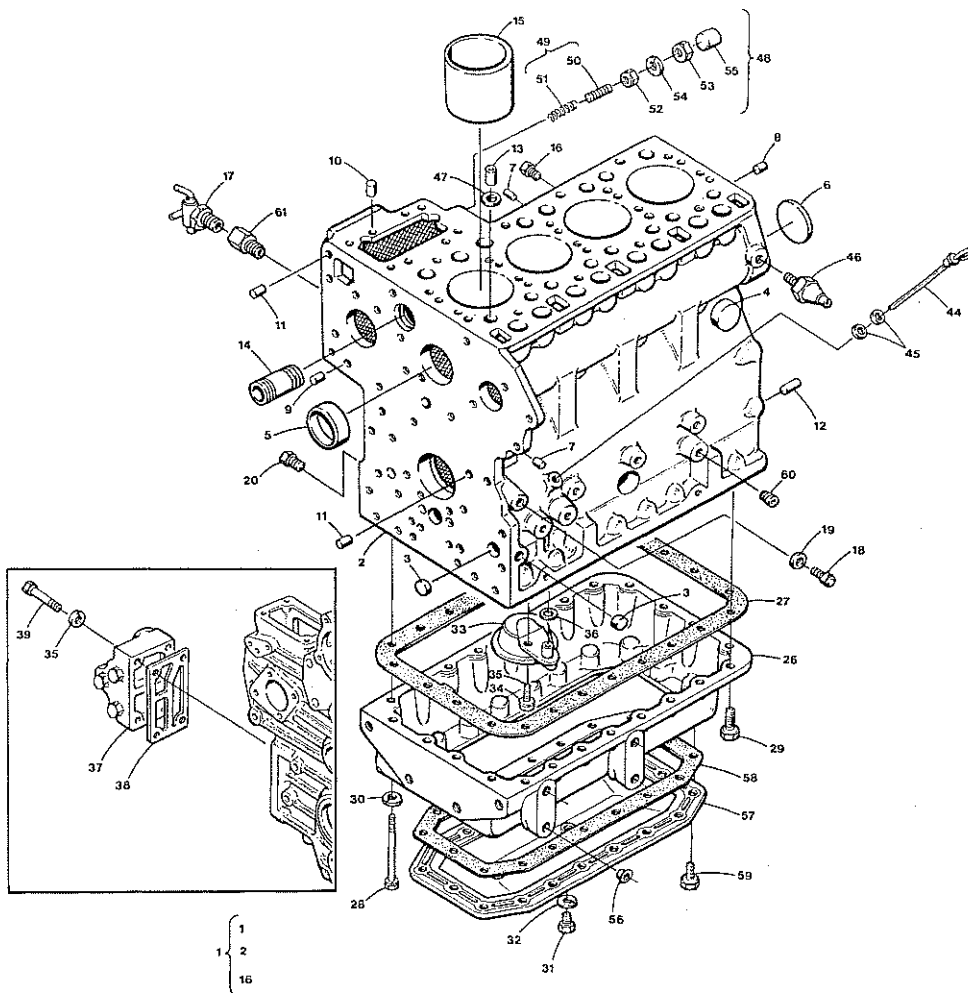
From Serial Number 315023



ITEM	PART NO.	DESCRIPTION	QTY.
24		Bolt	2
25			
26	299565	Oil Pan	1
27	299553	Gasket, Oil Pan	1
28		Bolt	12
29		Bolt	12
30		Washer, Spring	12
31	299370	Plug, Oil Pan	1
32	299371	Gasket	1
33		Oil, Filter Pump	1
34		Bolt	1
35		Washer, Spring	5
36		O Ring	1
37	298860	Mount Housing Assy - Oil Filter	1
38	298655	Gasket, Oil Filter Cover Assembly	1
39		Bolt	4
40			
41			
42			
43			
44	298661	Dipstick	1
45	298662	O Ring	2
46	298663	Oil (sender)	1

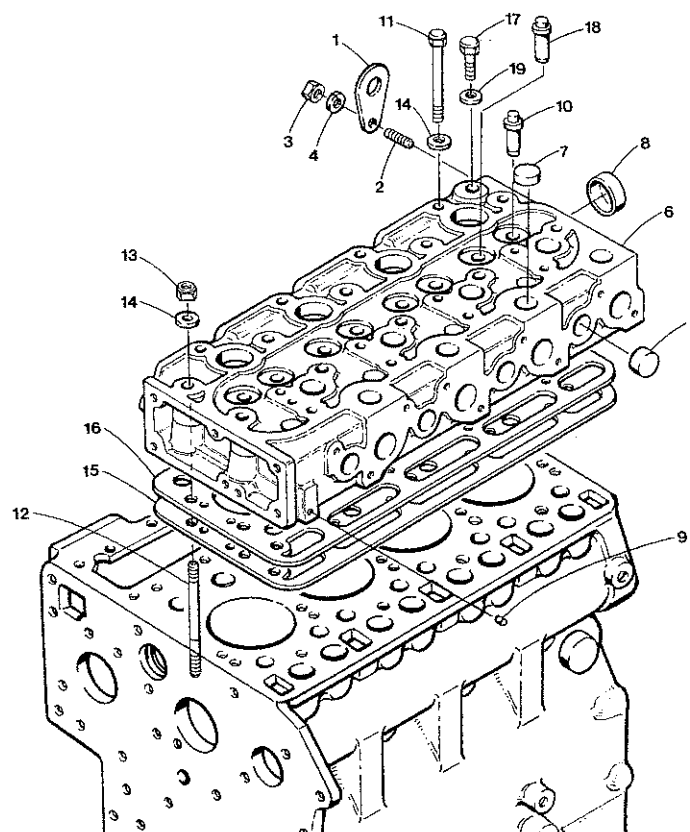
CRANKCASE

From Serial Number 315023



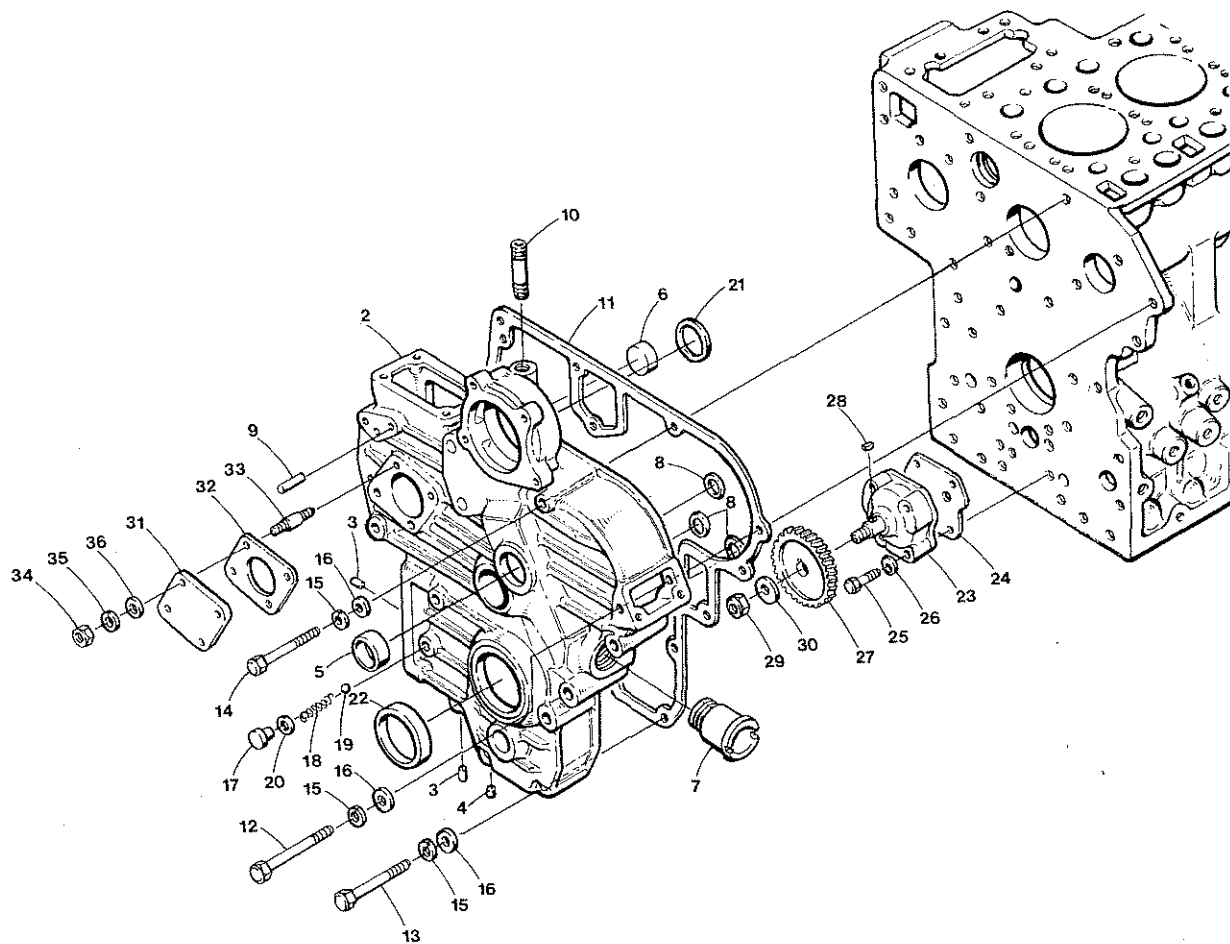
ITEM	PART NO.	DESCRIPTION	QTY.
47	299362	O Ring	1
48		Assembly Apparatus, Idle	1
49		Assembly Bolt, Adjusting	1
50		Bolt, Adjusting	1
51		Spring	1
52		Nut	1
53		Nut, Cap	1
54		Gasket	2
55		Cap	1
56		Plug	8
57	299564	Cover, Oil Pan	1
58	299560	Packing	1
59		Bolt	18
60		Plug, Blind	13
61		Joint, Draincock	1

CYLINDER HEAD



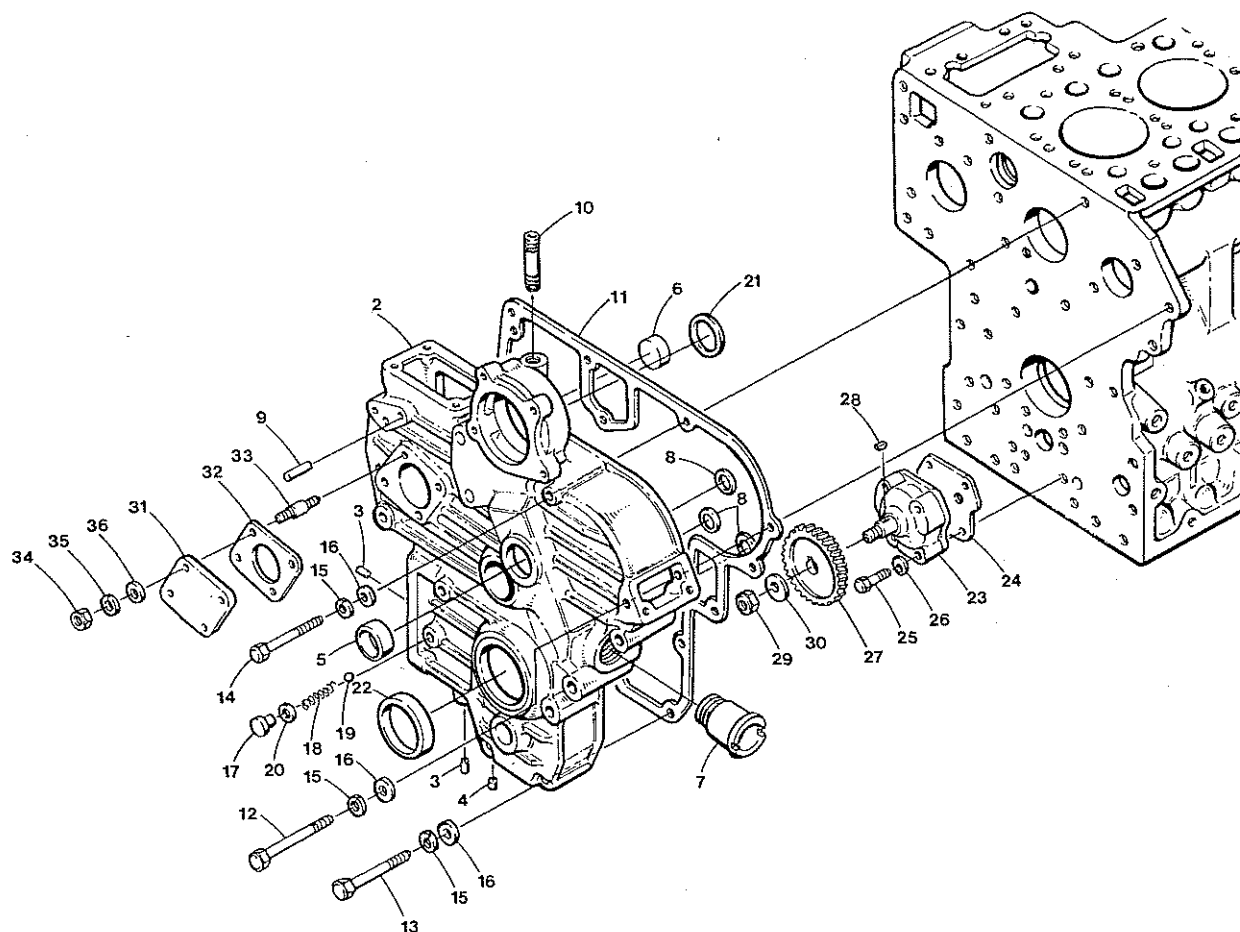
ITEM	PART NO.	DESCRIPTION	QTY.
1	298666	Hook Engine	2
2	301135	Stud	2
3		Nut	2
4	31786	Washer, Spring	2
5	299554	Assy. Cylinder Head	1
6		Cylinder Head	1
7	299898	Expansion Plug	12
8	299355	Expansion Plug	1
9		Plug, Pin	2
10	299555	Guide, Valve	8
11	298668	Bolt, Cylinder Head	16
12	298669	Stud, Cylinder Head	2
13	298670	Nut, Cylinder Head	2
14	298671	Washer, Plain	18
15	299556	Gasket, Cylinder Head	1
16	299557	Shim, Cyl. Head Gasket	1
17	299974	Plug	1
18	299558	Guide, Exhaust Valve	4
19	299975	Packing	1

GEAR CASE

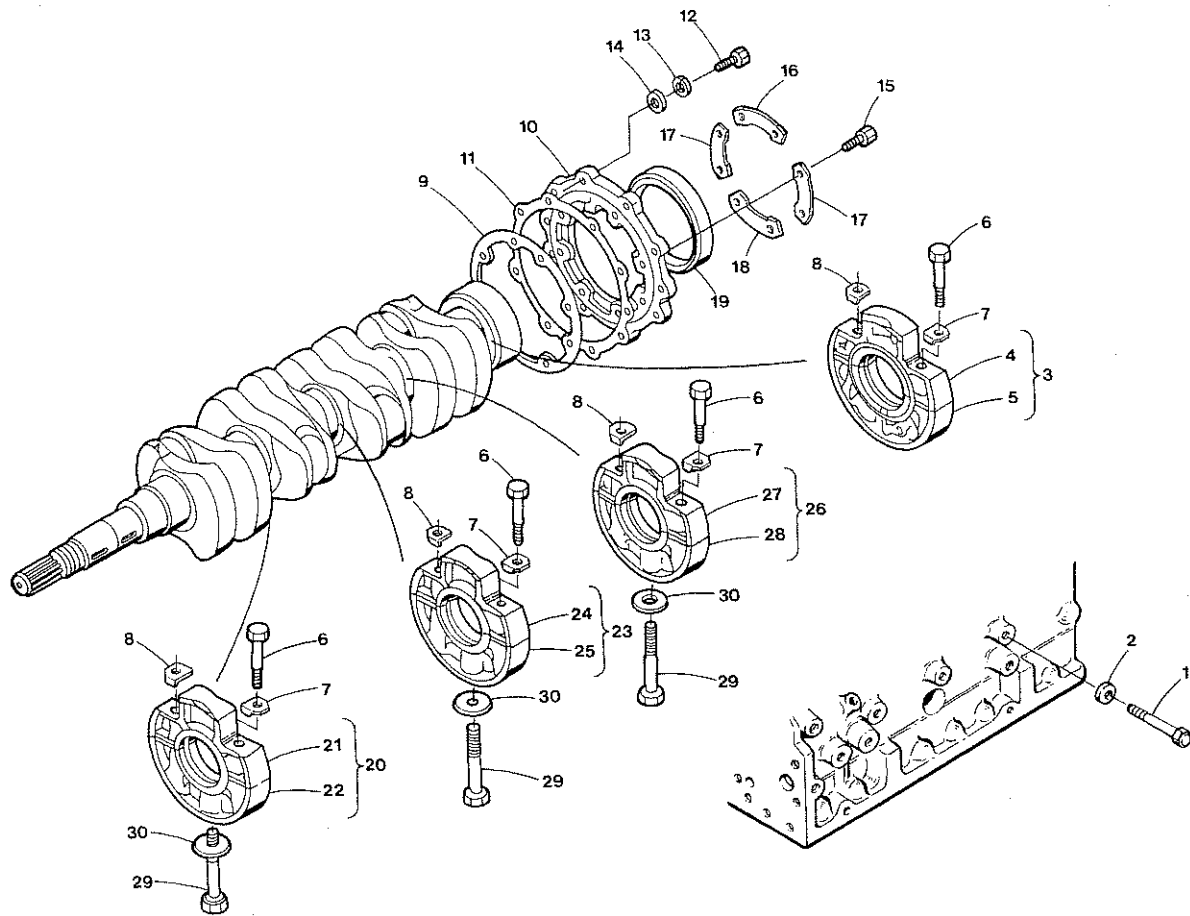


ITEM	PART NO.	DESCRIPTION	QTY.
1	300515	Assy. Case, Gear (Plus 1pc 301945)	1
2		Case, Gear	1
3		Plug, Pin	2
4	299395	Plug, Pin	1
5	299899	Cap, Sealing	1
6	299354	Cap, Sealing	1
7		Pipe, Water	1
8	299559	O Ring	3
9	301489	Pin, Start Spring	1
10	298840	Pipe, Water Return	1
11	298675	Gasket, Gear Case	1
12		Bolt	1
13	298676	Bolt	10
14		Bolt	3
15	31786	Washer, Spring	14
16	31787	Washer, Plain	14
17	298679	Cap	1
18	298678	Spring	1
19	298677	Ball	1
20	298680	O Ring	1
21	298681	O Ring	1
22	298774	Seal, Oil	1
23	298872	Assy. Pump, Oil	1
24	298756	Gasket, Oil Pump	1

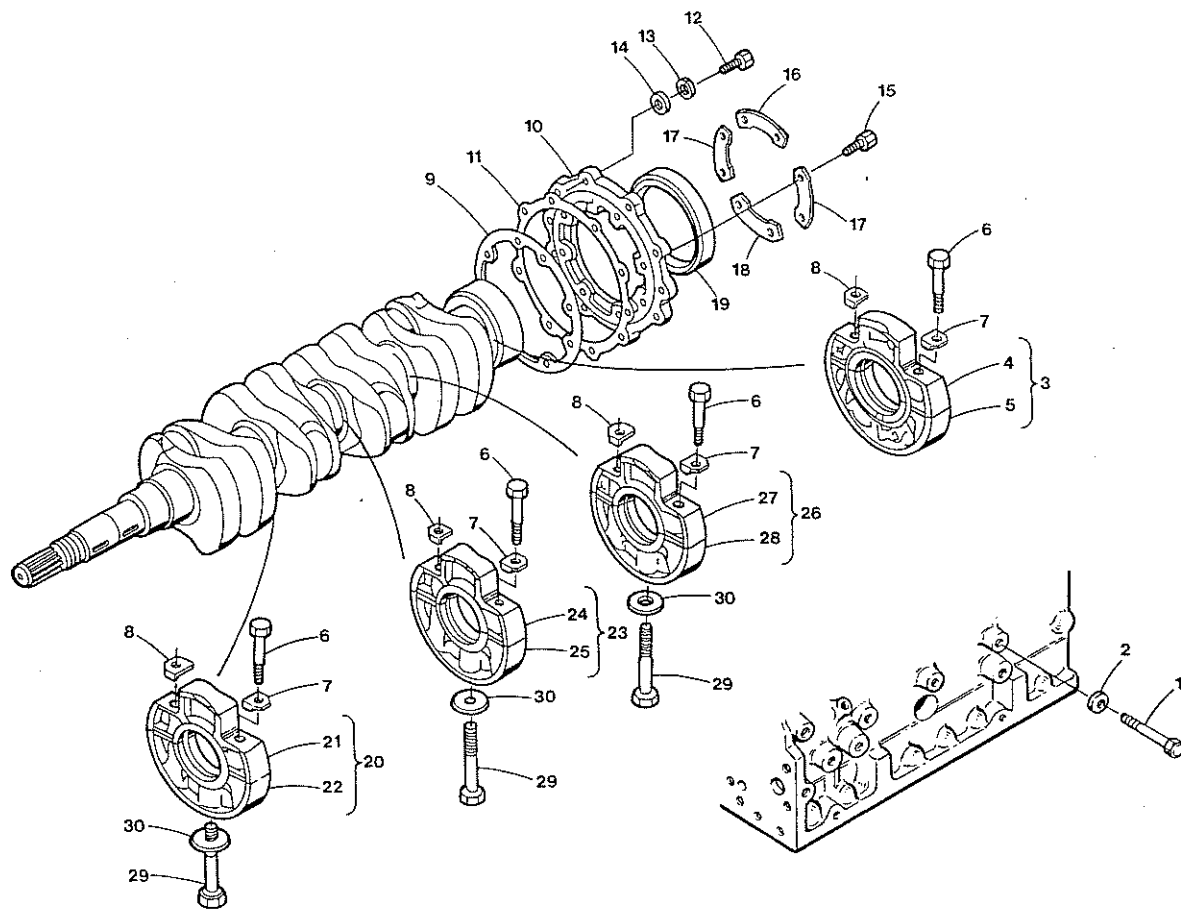
GEAR CASE



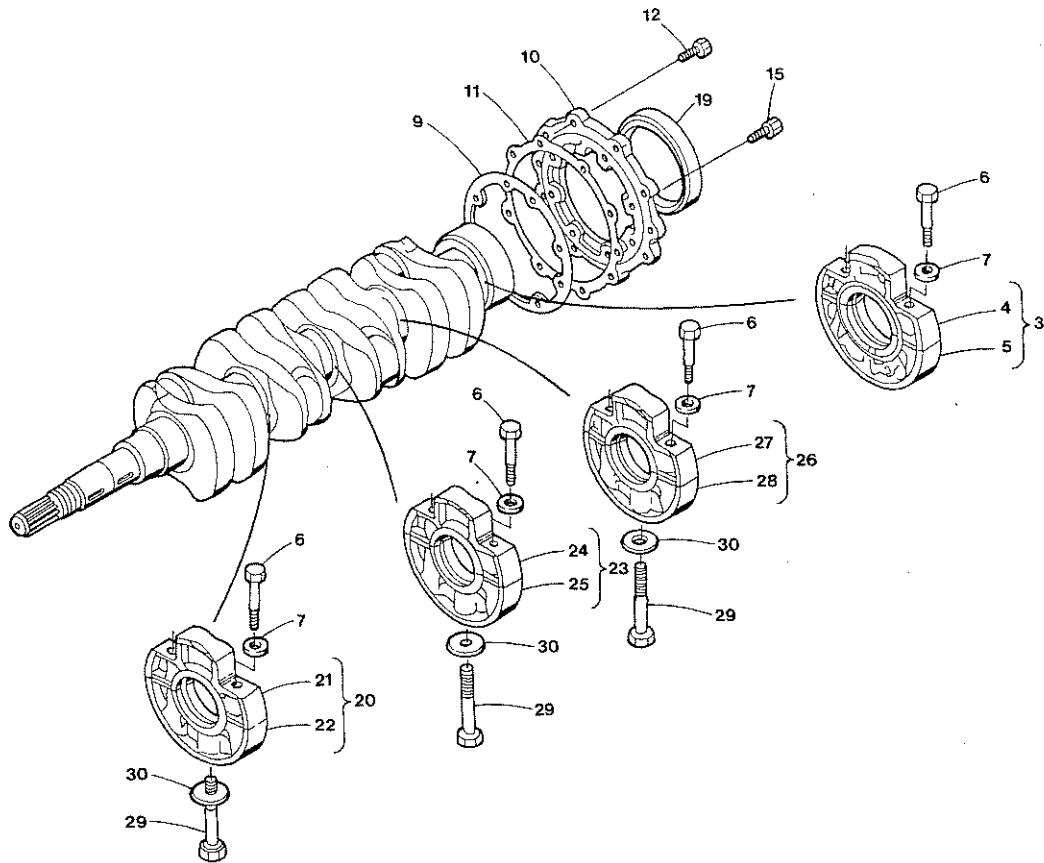
ITEM	PART NO.	DESCRIPTION	QTY.
25		Bolt	4
26	31784	Washer, Spring	4
27	299562	Gear, Oil Pump	1
28	298758	Key, Feather	1
29		Nut	1
30		Washer, Claw	1
31		Cover	1
32	298485	Gasket	1
33	298683	Stud	4
34	298684	Nut	4
35	31783	Washer, Spring	4
36	299542	Washer, Plain	4
37	298477	Adapter Plate, Raw Water Pump Mt'g.	1



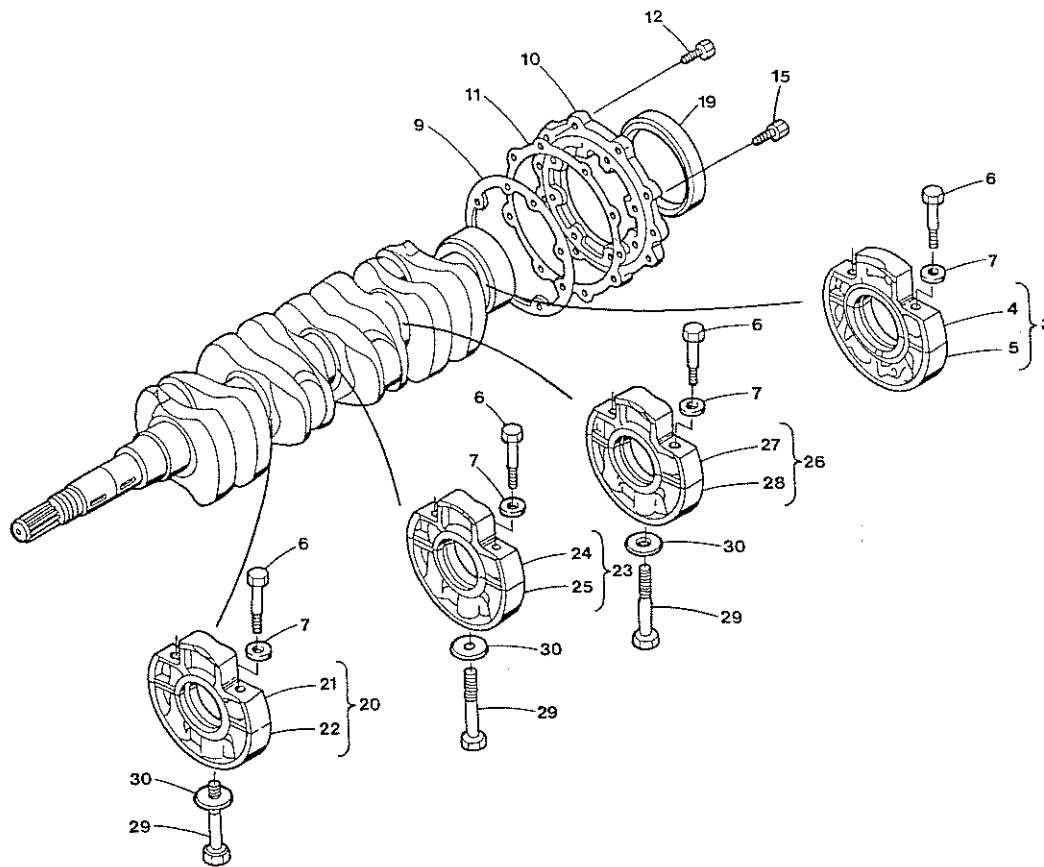
ITEM	PART NO.	DESCRIPTION	QTY.
1		Bolt, Knock	3
2	301495	Gasket	3
3	298685	Assy. Case, Bearing	1
4		Case, Main Bearing 1	1
5		Case, Main Bearing 2	1
6	298686	Bolt 1	8
7	298687	Washer 1	4
8	298688	Washer 2	4
9	298689	Gasket	1
10		Cover, Bearing	1
11		Gasket, Cover	1
12		Bolt	8
13	31786	Washer, Spring	8
14	31787	Washer, Plain	8
15		Bolt	8
16	298692	Washer, Cover 1	1
17	298693	Washer, Cover 2	2
18	298694	Washer, Cover 3	1
19	298695	Seal, Oil	1
20		Assy. Case, Bearing 1	1
21		Case, Bearing 1-1	1
22		Case, Bearing 1-2	1
23	300963	Assy. Case, Bearing 2	1
24		Case, Bearing 2-1	1



ITEM	PART NO.	DESCRIPTION	QTY.
25		Case, Bearing 2-2	1
26		Assy. Case, Main Bearing	1
27		Case, Bearing, 3-1	1
28		Case, Bearing 3-2	1
29	298697	Bolt 2	3
30	298698	Washer 3	3



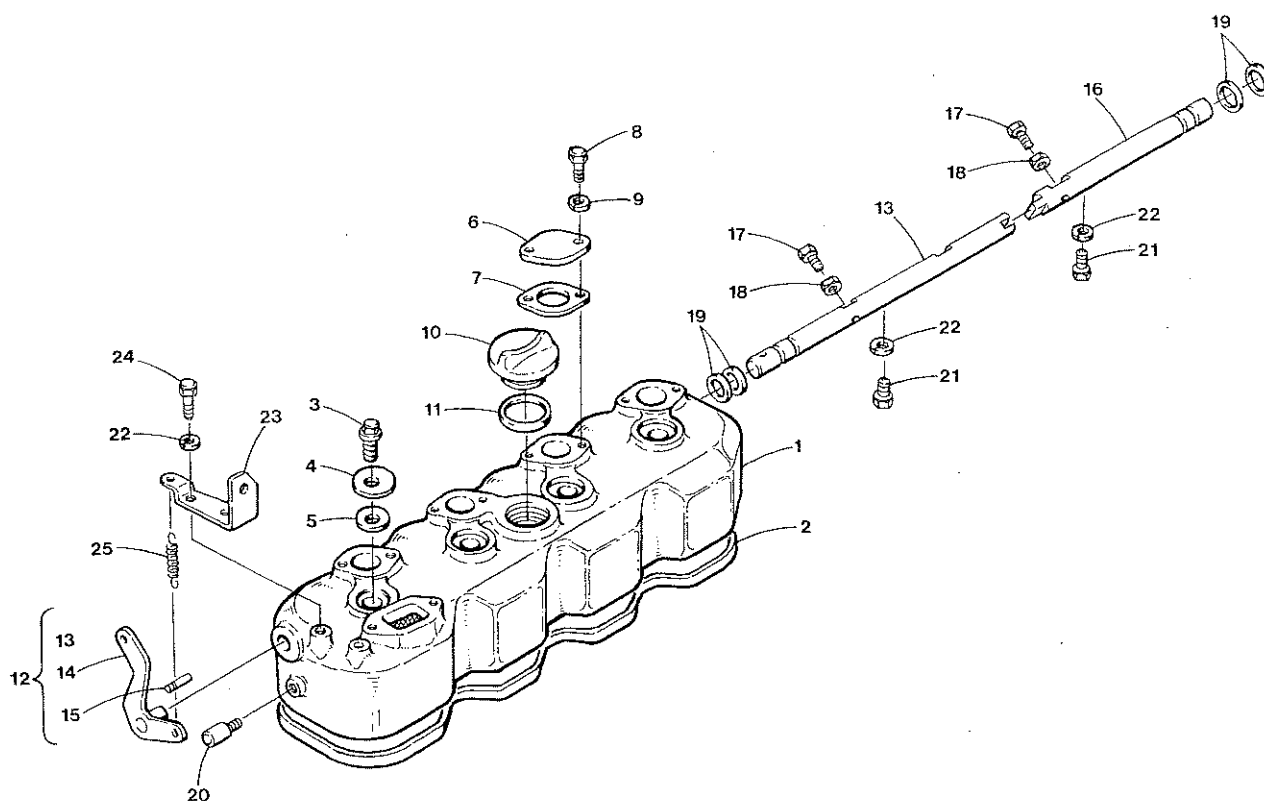
ITEM	PART NO.	DESCRIPTION	QTY.
1			
2			
3	298685	Assembly Case, Main Bearing	1
4		Case, Main Bearing/order by no. 3	1
5		Case, Main Bearing/order by no. 3	1
6	298686	Bolt 1	8
7	298687	Washer 1	8
8			
9	298689	Gasket	1
10		Cover, Bearing	1
11	298691	Gasket, Cover	1
12		Bolt	8
13			
14			
15		Bolt	8
16			
17			
18			
19	298695	Seal, Oil	1
20	298696	Assembly Case, Bearing	1
21		Case, Bearing 1-1/order by no. 20	1
22		Case, Bearing 1-2/order by no. 20	1
23		Assembly Case, Bearing 2	1



ITEM	PART NO.	DESCRIPTION	QTY.
24		Case, Bearing 2-1 / order by no. 23	1
25		Case, Bearing 2-2 / order by no. 23	1
26		Assembly Case, Main Bearing	1
27		Case, Bearing 3-1 / order by no. 26	1
28		Case, Bearing 3-2 / order by no. 26	1
29	298697	Bolt 2	3
30	298698	Washer, Plain	3

HEAD COVER

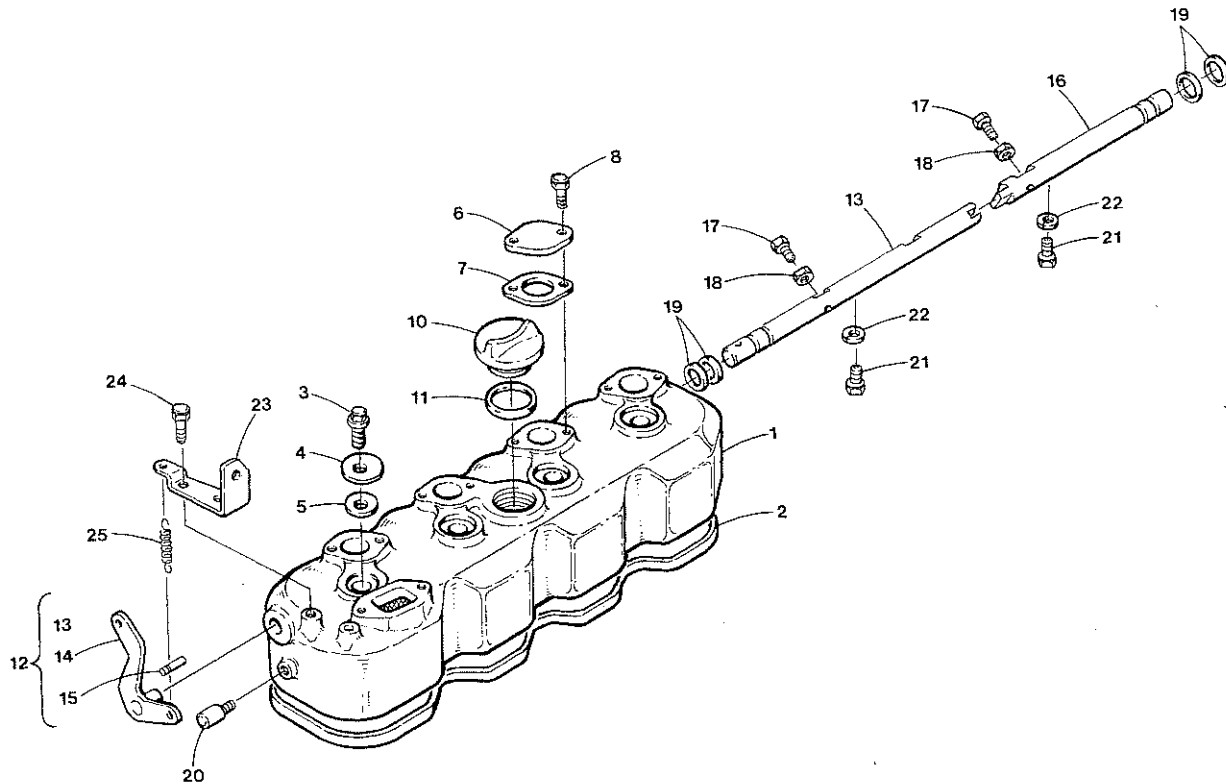
To Serial Number 315022



ITEM	PART NO.	DESCRIPTION	QTY.
1	299569	Cover, Cylinder Head	1
2	299570	Gasket, Head Cover	1
3	298726	Nut, Head Cover	4
4	298727	Washer, Head Cover	4
5	298728	Gasket, Nut	4
6	298729	Cover, Decompression Hole	4
7	298730	Gasket	4
8		Bolt	8
9		Washer, Spring	8
10	298739	Plug, Oil Filter	1
11	298740	O Ring	1
12	299571	Assy. Shaft, Decompression	1
13		Shaft, Decompression	1
14		Lever, Decompression	1
15		Pin, Spring	1
16		Shaft, Decompression	1
17	298736	Bolt, Decompression	4
18	298737	Nut	4
19	298738	O Ring	4
20	298731	Stopper, Decompression Shaft	1
21	298732	Bolt	2
22		Washer, Spring	4
23	298733	Holder, Decompression Wire	1
24		Bolt	2
25	298764	Spring, Decompression	1

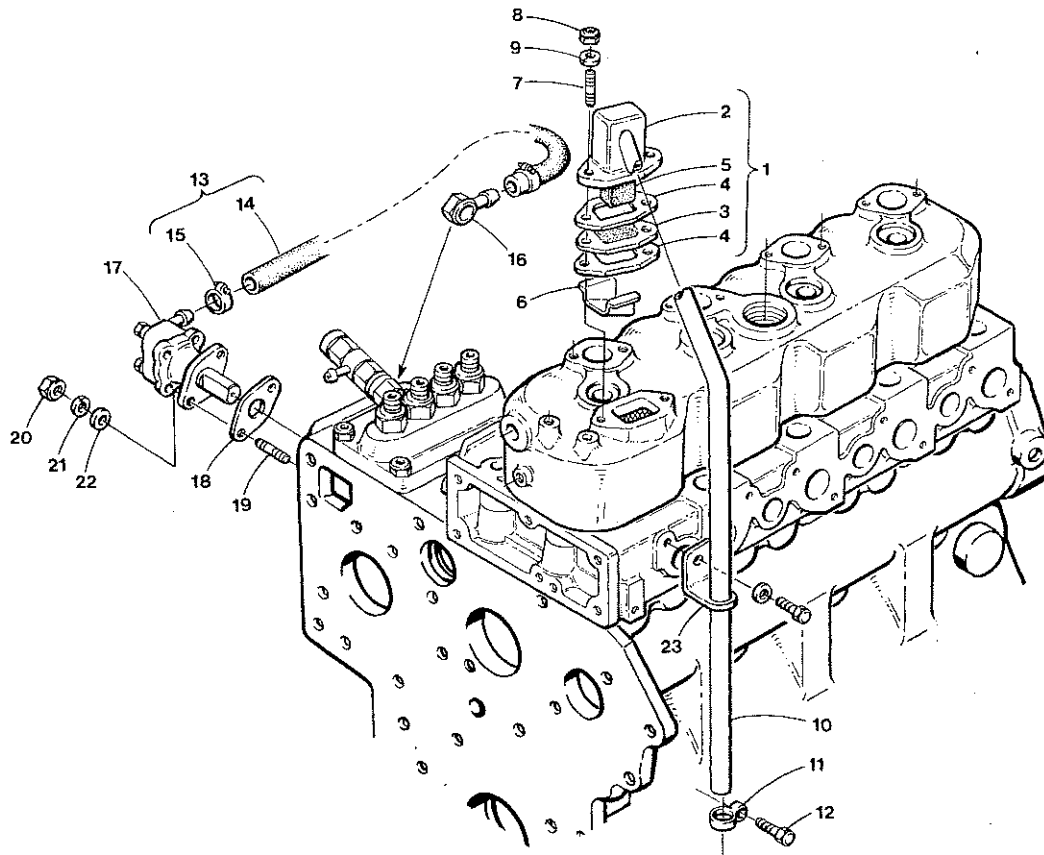
HEAD COVER

From Serial Number 315023

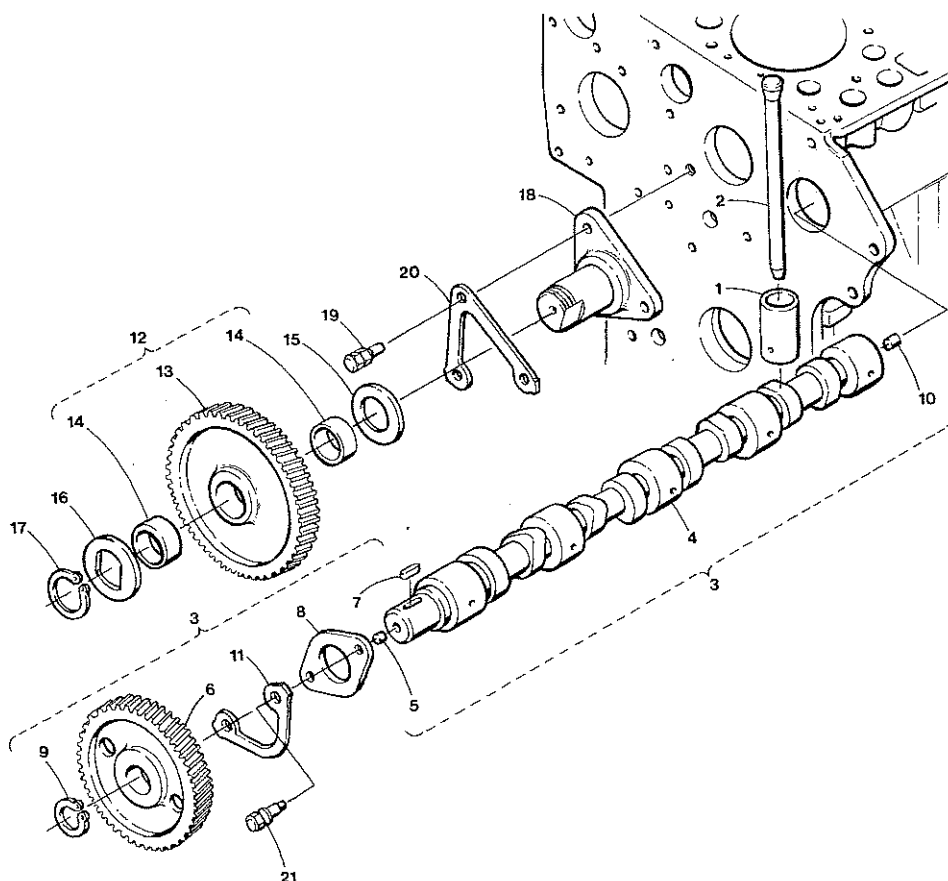


ITEM	PART NO.	DESCRIPTION	QTY.
1	299569	Cover, Cylinder Head	1
2	299570	Gasket, Head Cover	1
3	298726	Nut, Head Cover	4
4	298727	Washer, Head Cover	4
5	298728	Gasket, Nut	4
6	298729	Cover, Decompression Hole	4
7	298730	Gasket	4
8		Bolt	8
9			
10	298739	Plug, Oil Filter	1
11	298740	O Ring	1
12	299751	Assy. Shaft, Decompression	1
13		Shaft, Decompression/order by no. 12	1
14		Lever, Decompression/order by no. 12	1
15		Pin, Spring	1
16		Shaft, Decompression	1
17	298736	Bolt, Decompression	4
18	298737	Nut	4
19	298738	O Ring	4
20	298731	Stopper, Decompression Shaft	1
21	298732	Bolt	2
22		Washer, Spring	4
23	298733	Holder, Decompression Wire	1
24		Bolt	2
25	298764	Spring, Decompression	1

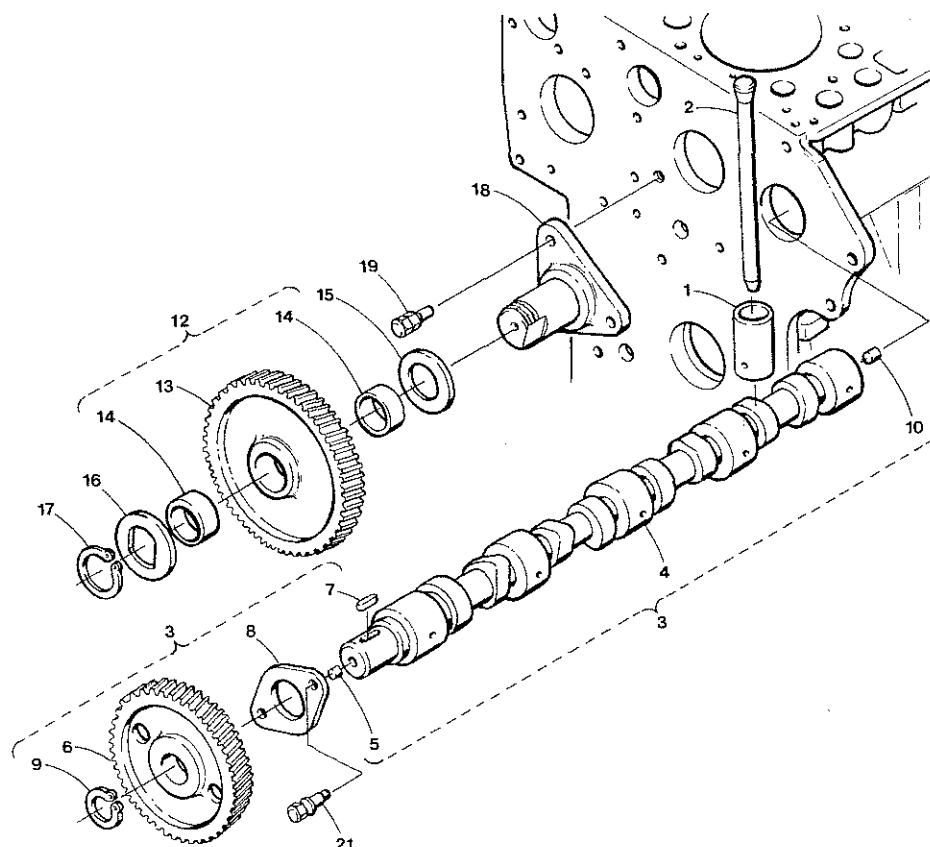
BREATHER



ITEM	PART NO.	DESCRIPTION	QTY.
1		Assy, Breather	1
2	298699	Breather	1
3	298700	Plate, Element	1
4	298701	Gasket	2
5	298702	Element, Breather	1
6	298703	Oil Shield, Breather	1
7	298683	Stud	2
8	18241	Nut	2
9	31783	Washer, Spring	2
10	298704	Hose, Breather	1
11		Clamp, Pipe	1
12		Bolt	1
13		Assy. Pipe, Fuel	1
14		Pipe, Fuel	1
15		Clip, Pipe	2
16	301747	Joint, Eye	1
17	299425	Assy. Pump, Fuel	1
18	299426	Gasket, Fuel Pump	1
19	301507	Stud	2
20	18812	Nut	2
21	31783	Washer, Spring	2
22	31783	Washer, Plain	2
23		Clamp, Pipe	1

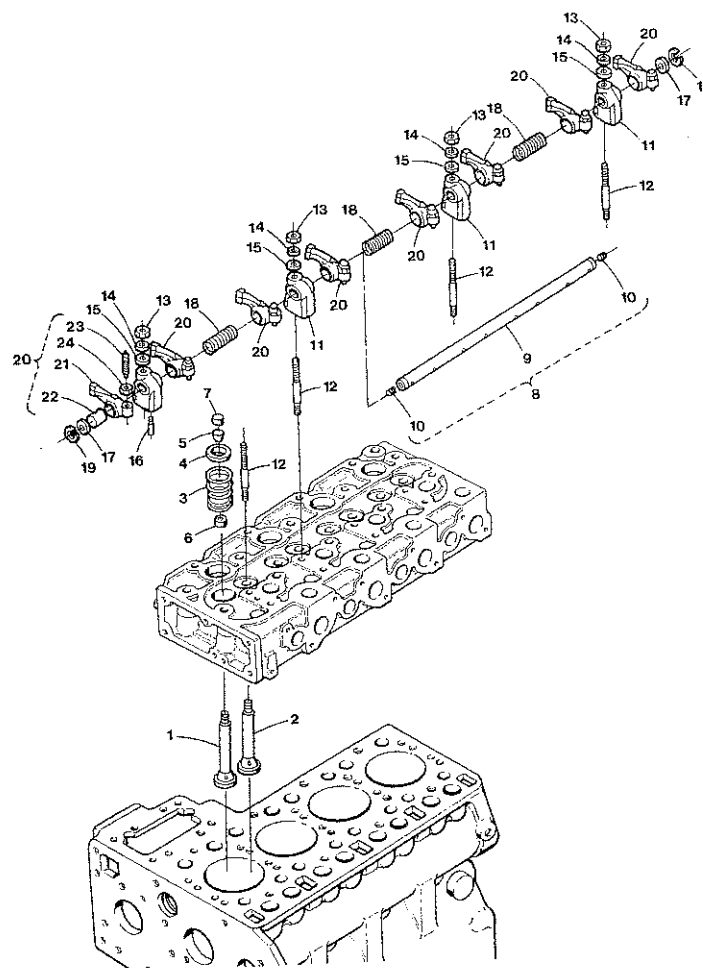


ITEM	PART NO.	DESCRIPTION	QTY.
1	298741	Tappet	8
2	298742	Rod, Push	8
3	299572	Assy. Camshaft	1
4		Camshaft	1
5	298744	Plug, Pin	1
6	298745	Gear, Camshaft	1
7	298746	Key, Feather	1
8	298747	Stopper, Camshaft	1
9	298748	Cir-Clip, External	1
10		Plug, Pin	1
11	298749	Washer, Stopper	1
12	298750	Assy. Gear, Idle	1
13		Gear, Idle	1
14		Bush, Idle Gear	2
15	298751	Collar, Idle Gear	1
16	298752	Collar, Idle Gear	1
17	298753	Cir-Clip, External	1
18	298754	Shaft, Idle Gear	1
19	300008	Bolt	3
20	298755	Washer, Idle Gear Shaft	1
21	299969	Bolt	2



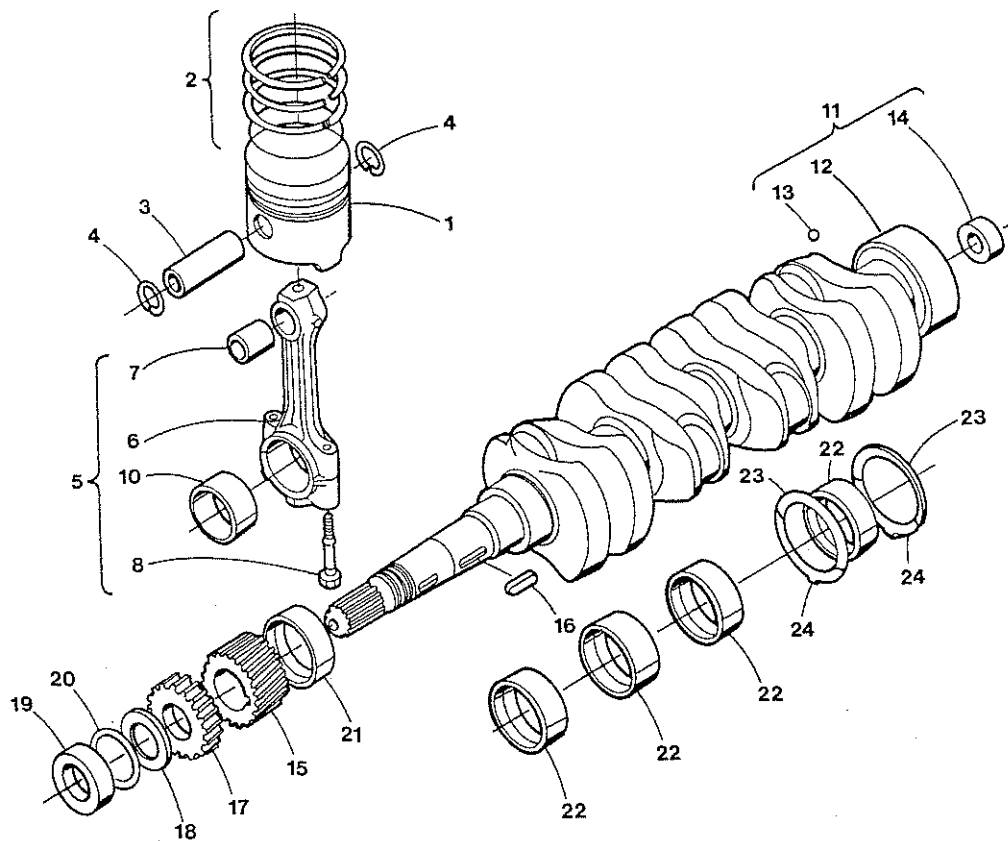
ITEM	PART NO.	DESCRIPTION	QTY.
1	298741	Tappet	8
2	298742	Rod, Push	8
3	299572	Assy. Camshaft	1
4		Camshaft / order by no. 3	1
5	298744	Plug, Pin	1
6	298745	Gear, Camshaft	1
7	298746	Key, Feather	1
8	298747	Stopper, Camshaft	1
9	298748	Cir-Clip, External	1
10		Plug, Pin	1
11			
12	298750	Assy. Gear, Idle	1
13		Gear, Idle / order by no. 12	1
14		Bush, Idle Gear	2
15	298751	Collar, Idle Gear	1
16	298752	Collar, Idle Gear	1
17	298753	Cir-Clip, External	1
18	298754	Shaft, Idle Gear	1
19		Bolt	3
20			
21		Bolt	2

VALVE - ROCKER



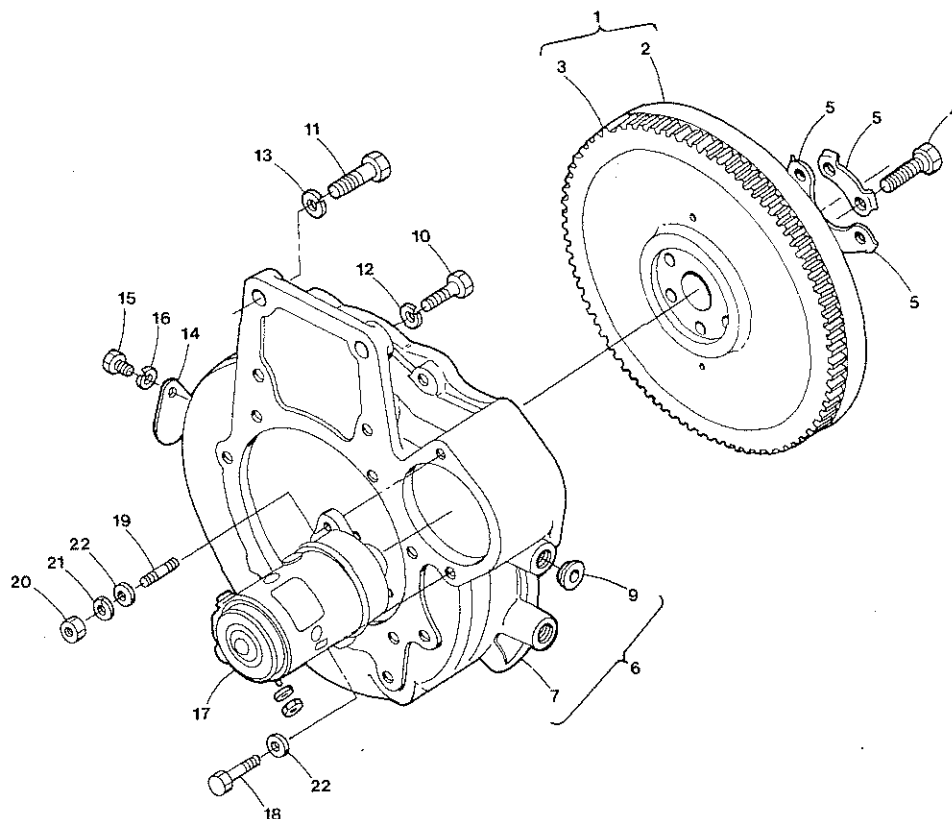
ITEM	PART NO.	DESCRIPTION	QTY.
1	298709	Valve, Inlet	4
2	298710	Valve, Exhaust	4
3	298711	Spring, Valve	8
4	298712	Retainer, Valve Spring	8
5	298713	Collet, Valve Spring	16
6	298714	Seal, Valve Stem	8
7	298715	Cap, Valve	8
8	299566	Assembly Shaft, Rocker Arm	1
9		Shaft, Rocker Arm/order by no. 8	1
10	298719	Screw, Set	2
11	298717	Bracket, Rocker Arm	4
12	298718	Stud	4
13		Nut	4
14	31786	Washer, Spring	4
15	31786	Washer, Plain	4
16	298719	Screw, Set	1
17	298720	Washer	2
18	298721	Spring, Rocker Arm	3
19	298722	Cir-Clip, External	2
20	298723	Assembly Arm, Rocker	8
21		Rocker Arm/order by no. 20	1
22	301706	Bush	1
23		Screw, Adjusting	1
24	301708	Nut	1

PISTON - CRANKSHAFT

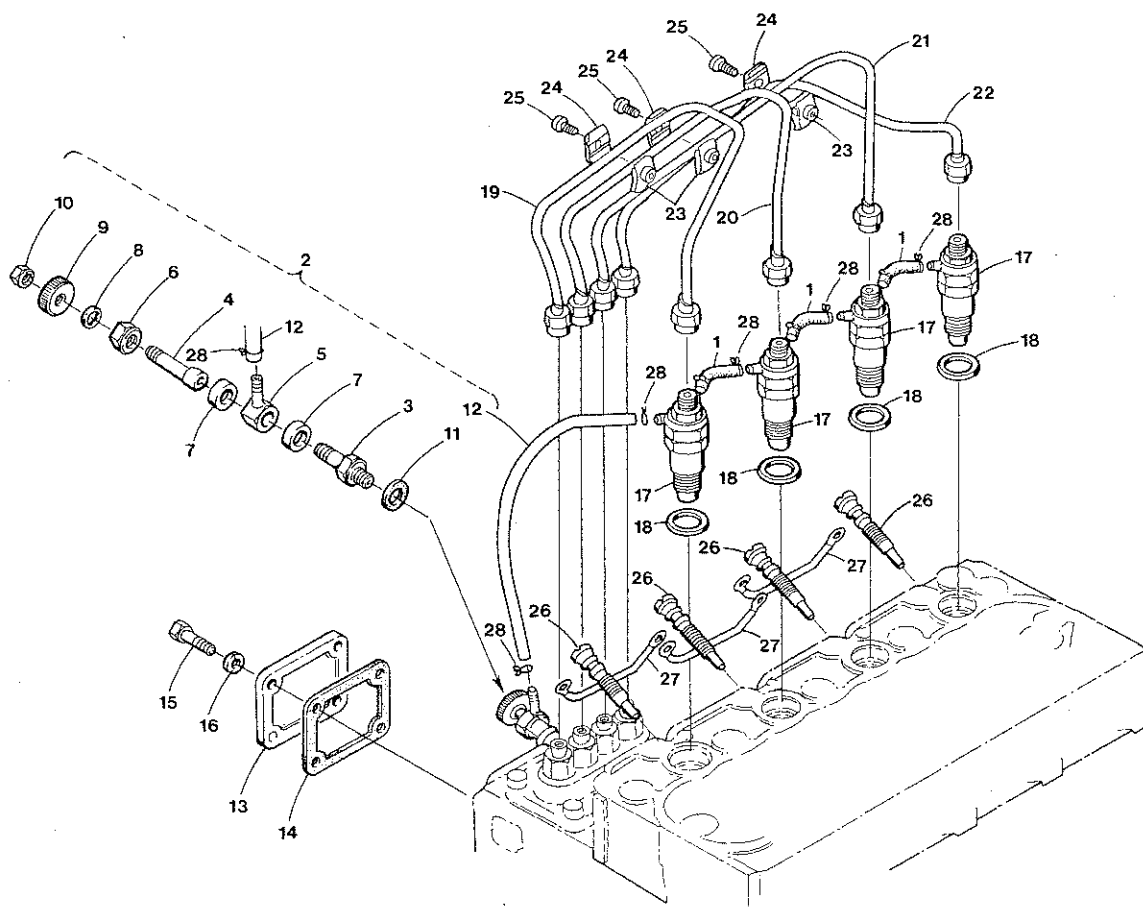


ITEM	PART NO.	DESCRIPTION	QTY.
1	298762	Piston	4
2	298763	Assembly Ring, Piston	4
3	298764	Pin, Piston	4
4	298765	Cir-Clip, Piston Pin	8
5	298766	Assembly Rod, Connecting	4
6		Connecting Rod / / order by no. 5	1
7	300012	Bush, Piston Pin	1
8	300014	Bolt, connecting Rod	2
9			
10	300015	Metal, Crank Pin	2
11	299573	Assembly Shaft, Crank	1
12		Crankshaft / order by no. 11	1
13		Plug, Pin	4
14	301716	Bearing, Ball	1
15	299568	Gear, Crankshaft	1
16		Key, Feather	1
17		Gear, Oil Pump Drive	1
18		Oil Slinger	1
19	298772	Collar, Crankshaft	1
20	298773	O Ring	1
21	298775	Main Bearing - Rear	1
22	298776	Main Bearing - Center & Front	4
23	298777	Main Bearing - Side & Top	2
24	298778	Main Bearing - Side & Bottom	2

FLYWHEEL GROUP



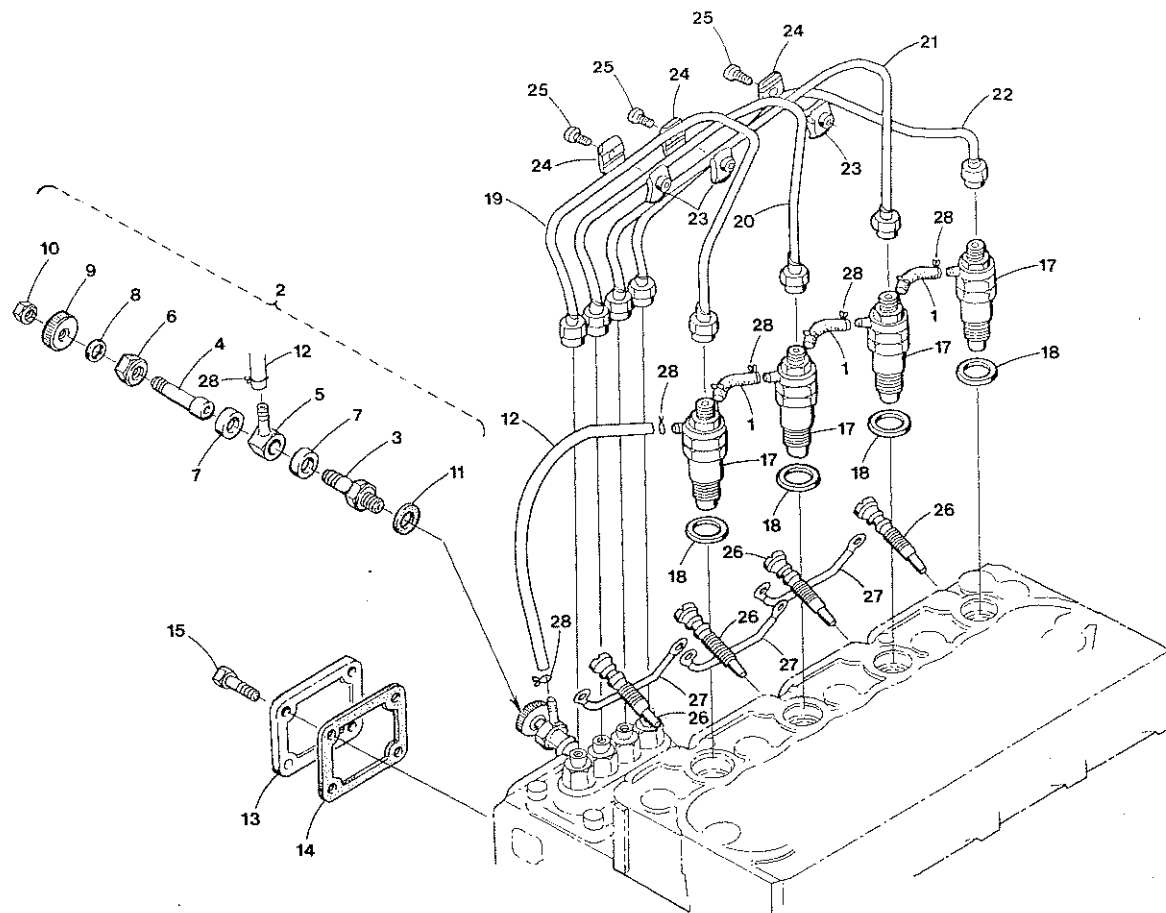
ITEM	PART NO.	DESCRIPTION	QTY.
1	299611	Assembly, Flywheel	1
2		Flywheel / order by no. 1	1
3		Gear, Ring	1
4	298780	Bolt, Flywheel	6
5	298781	Washer, Flywheel	3
6	298612	Assembly Housing, Flywheel	1
7		Housing, Flywheel / order by no. 6	1
8			
9	301717	Plug	4
10	301719	Bolt	11
11	301720	Bolt	2
12	19262	Washer, Spring	11
13	31792	Washer, Spring	2
14	301718	Cover	1
15		Bolt	1
16	31786	Washer, Spring	1
17	299574	Assembly, Starter	1
18	299965	Bolt	1
19	301723	Stud	1
20	301724	Nut	1
21	19262	Washer, Spring	1
22		Washer, Plain	2



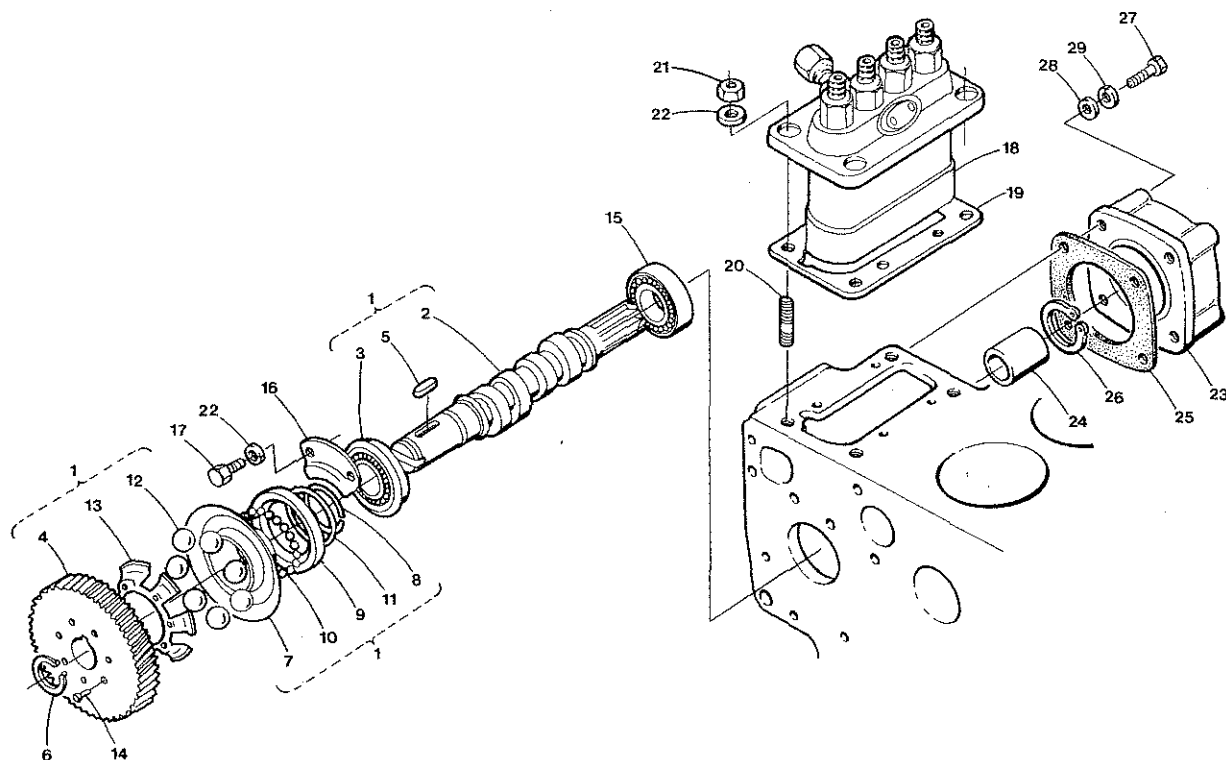
ITEM	PART NO.	DESCRIPTION	QTY.
1	298784	Pipe, Fuel Over Flow	3
2		Assy. Cock	1
3	Order By #2	Body, Cock	1
4	Order By #2	Valve	1
5	Order By #2	Joint, Eye	1
6	Order By #2	Nut, Cap	1
7	Order By #2	Gasket	2
8	Order By #2	O Ring	1
9	Order By #2	Knob	1
10	Order By #2	Nut	1
11	298659	Gasket	1
12		Pipe, Fuel Over Flow	1
13	298785	Cover, Injection Pump	1
14	298786	Gasket, Pump Cover	1
15	302620	Bolt	4
16	31783	Washer, Spring	4
17	299567	Assy. Holder, Nozzle	4
18	298789	Gasket	4
19	298790	Pipe, Injection	1
20	298791	Pipe, Injection	1
21	298877	Pipe, Injection	1
22	299578	Pipe	1
23	298792	Clamp, Pipe	3
24	298793	Clamp, Pipe	3
25	256747	Kit, Fuel Return	1

NOZZLE HOLDER

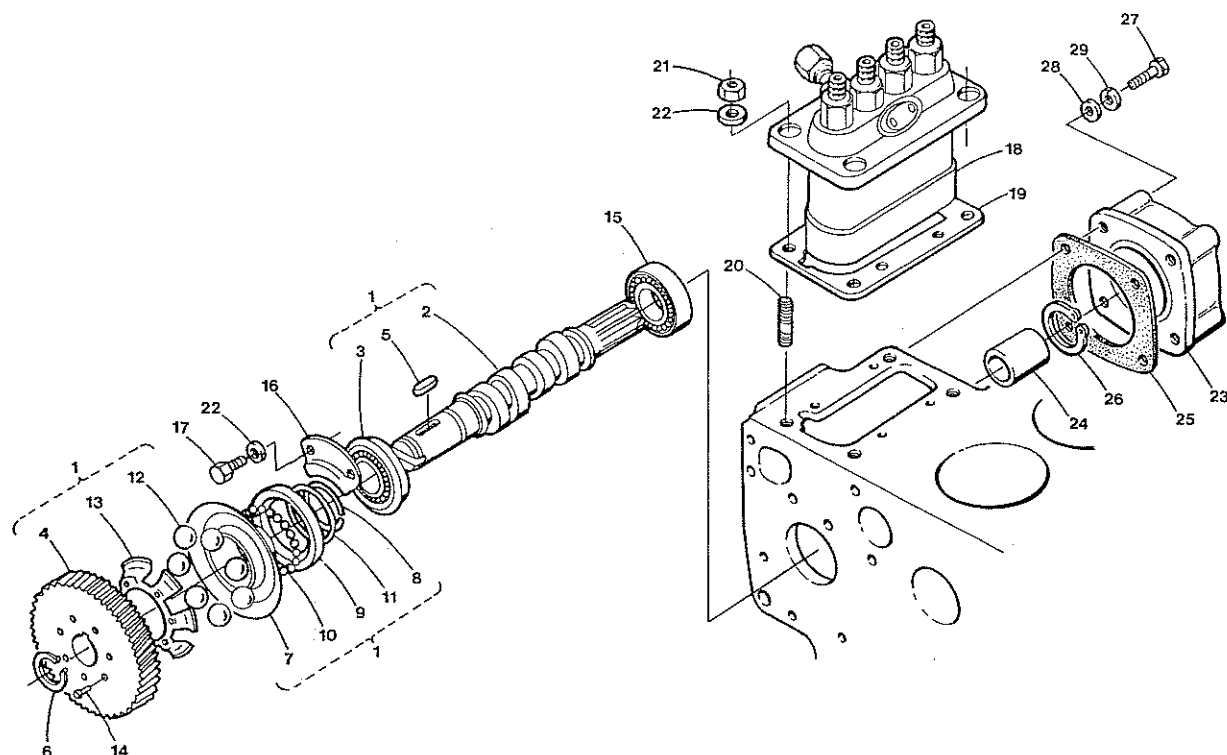
From Serial Number 315023



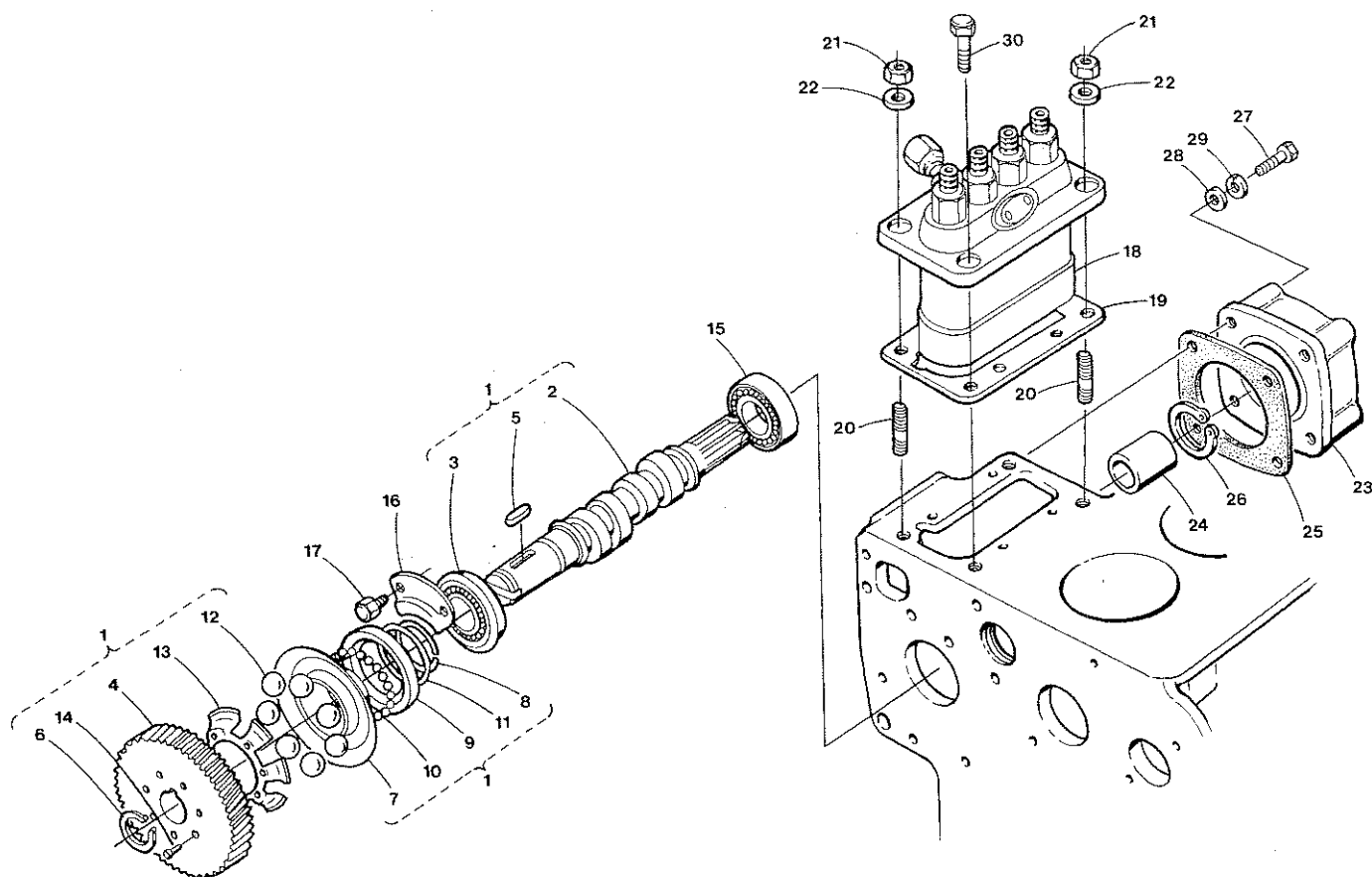
ITEM	PART NO.	DESCRIPTION	QTY.
1	298784	Pipe, Fuel Over Flow	3
2	299675	Assembly, Cock	1
3	300050	Body, Cock	1
4	299676	Valve	1
5		Joint, Eye	1
6		Nut, Cap	1
7		Basket	2
8	299677	O Ring	1
9	299678	Knob	1
10	299679	Nut	1
11	299786	Gasket	1
12		Pipe, Fuel Over Flow	1
13	298785	Cover, Injection Pump	1
14	298786	Gasket, Pump Cover	1
15		Bolt	4
16			
17	299567	Assembly Holder, Nozzle	4
18	298789	Gasket	4
19	298790	Pipe, Injection	1
20	298791	Pipe, Injection	1
21	298877	Pipe, Injection	1
22	299578	Pipe	1
23	298792	Clamp, Pipe	3
24	298793	Clamp, Pipe	3
25	298794	Screw, With Washer	3
26	298795	Plug, Glow	4
27	298796	Cord, Glow Plug	3
28	298797	Clip, Pipe	8



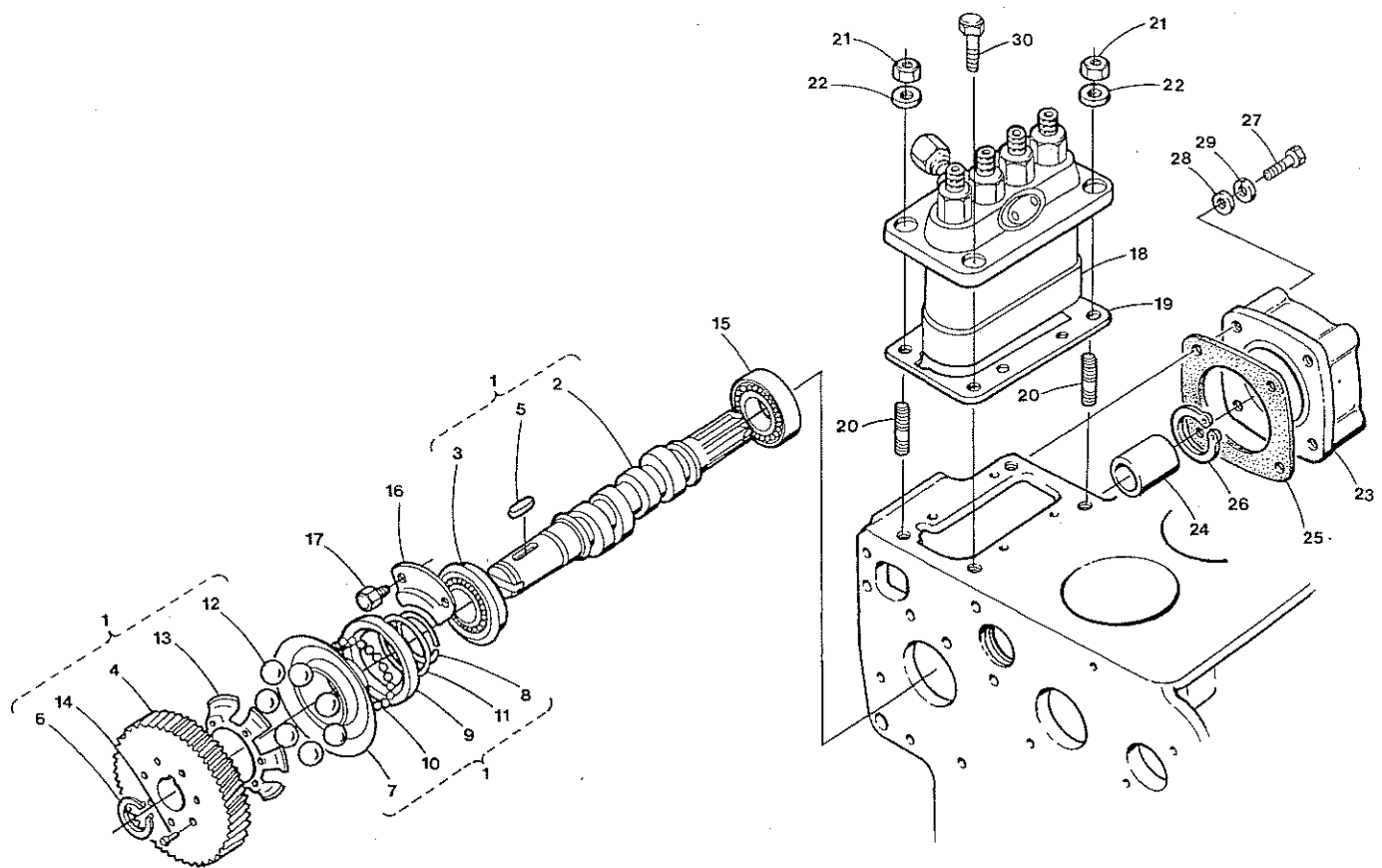
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assy. Camshaft, Fuel	1
2	299601	Camshaft, Fuel	1
3	298816	Bearing, Ball	1
4	299575	Gear, Injection Pump	1
5	298801	Key, Feather	1
6	298810	Cir-Clip, External	1
7	298802	Sleeve, Governor	1
8	298803	Cir-clip	1
9	298804	Case, Governor Ball	1
10	298805	Ball	39
11	298806	Cir-Clip	1
12	299576	Ball	7
13	299577	Guide, Governor Ball	1
14	298809	Rivet	7
15	298811	Bearing, Ball	1
16	298812	Stopper, f-Camshaft	1
17		Bolt	2
18	299579	Assy. Pump, Injection	1
19	299580	Shim	5
20	301746	Stud	6
21		Nut	6
22	31786	Washer, Spring	8
23	298813	Cover	1
24	298815	Collar	1



ITEM	PART NO.	DESCRIPTION	QTY.
25	298814	Packing	1
26	298817	Cir-Clip, External	1
27	298581	Bolt	4
28	298582	Washer, Plain	4
29	298583	Washer, Spring	4

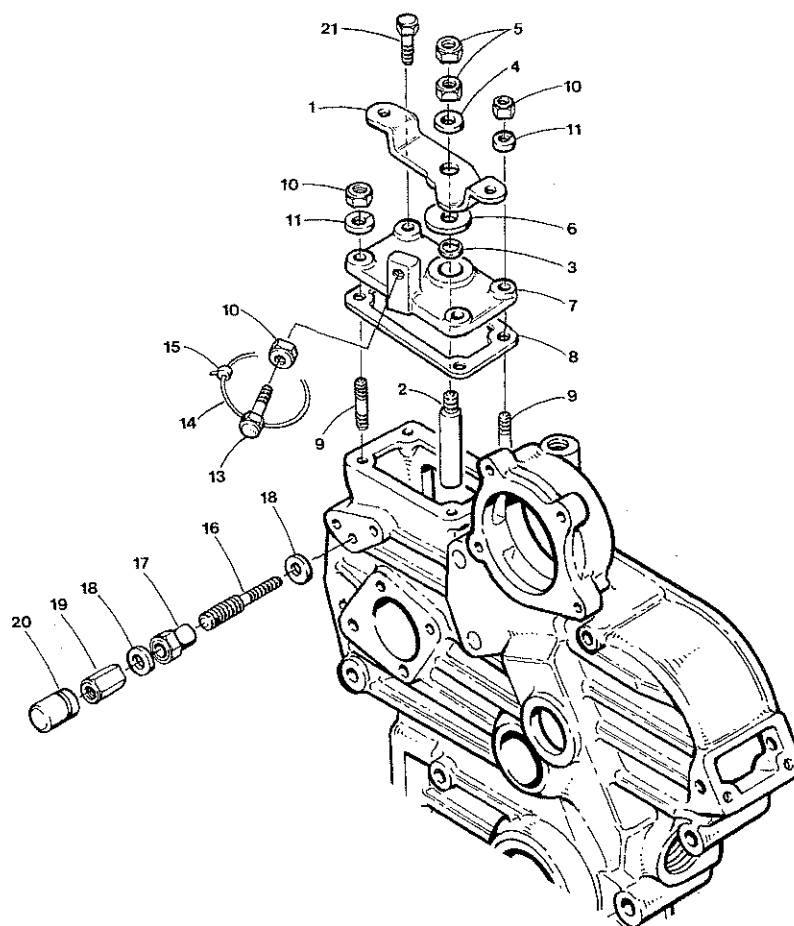


ITEM	PART NO.	DESCRIPTION	QTY.
1	299579	Assembly Camshaft, Fuel	1
2	299601	Camshaft, Fuel	1
3	298816	Bearing, Ball	1
4	299575	Gear, Injection Pump	1
5	298801	Key, Feather	1
6	298810	Cir-Clip, External	1
7	298802	Sleeve, Governor	1
8	298803	Cir-clip	1
9	298804	Case, Governor Ball	1
10	298805	Ball	39
11	298806	Cir-Clip	1
12	298576	Ball	7
13	299577	Guide, Governor Ball	1
14	298809	Rivet	7
15	298811	Bearing, Ball	1
16	298812	Stopper, f-Camshaft	1
17		Bolt	2
18	300731	Assembly Pump, Injection	1
19	299580	Shim	5
20		Stud	2
21		Nut	2
22		Washer, Spring	2
23	298813	Cover	1



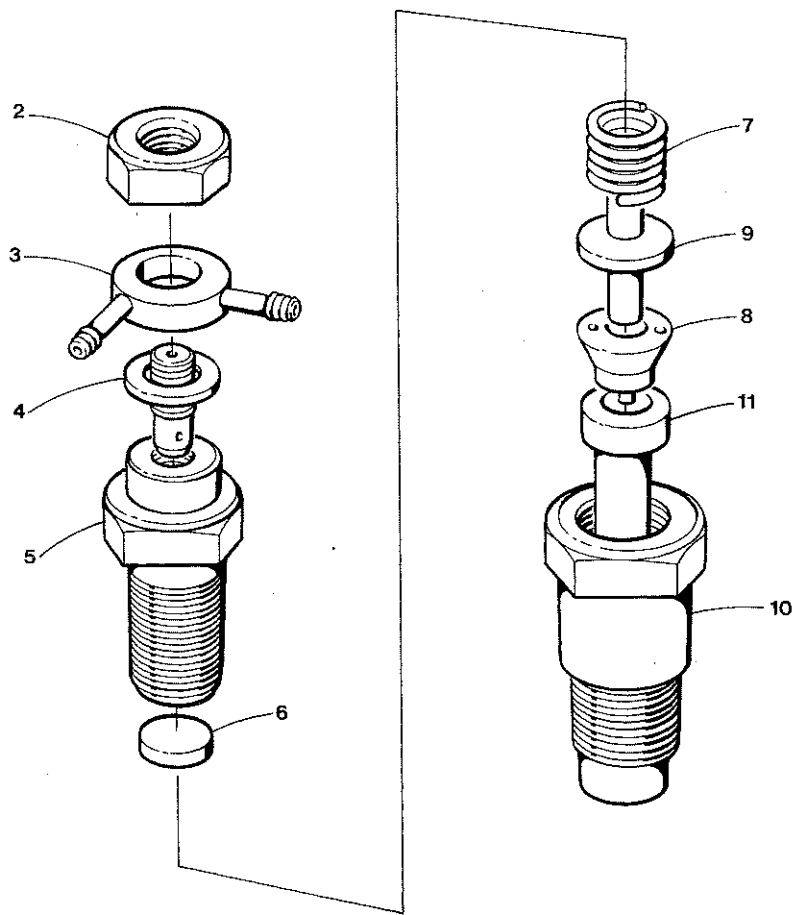
ITEM	PART NO.	DESCRIPTION	QTY.
24	298815	Collar	
25	298814	Packing	1
26	298817	Cir-Clip, External	4
27	298581	Bolt	4
28	298582	Washer, Plain	4
29	298583	Washer, Spring	4
30		Bolt	4

SPEED CONTROL PLATE



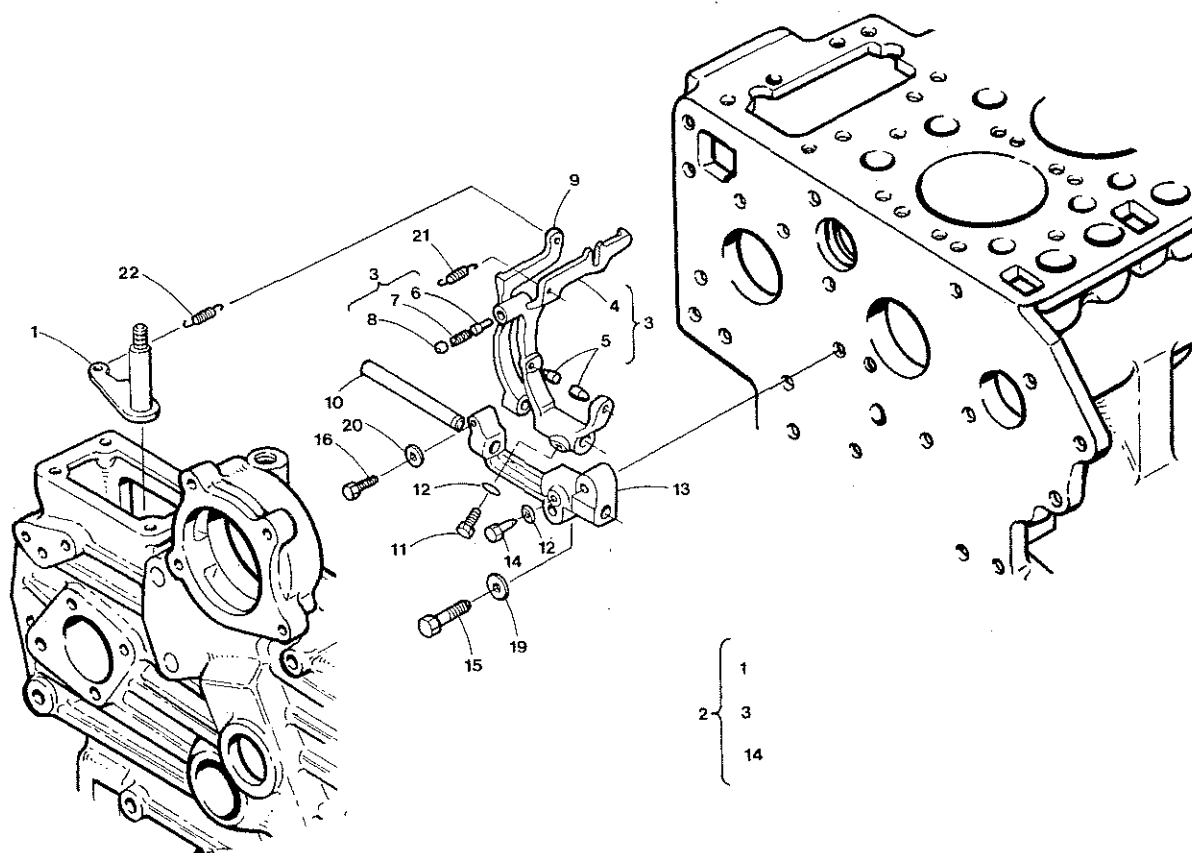
ITEM	PART NO.	DESCRIPTION	QTY.
1	299602	Lever, Speed Control	1
2	298820	Key, Feather	1
3	298821	O Ring	1
4	30031	Washer, Plain	1
5		Nut	2
6	298822	Plate, Friction	1
7	298823	Plate, Speed Control	1
8	298824	Gasket, Control Plate	1
9	298825	Stud	5
10	15812	Nut	3
11	31783	Washer, Spring	2
12			
13	298826	Stopper	1
14	299546	Wire	1
15	299547	Lead, Sealing	1
16	301730	Bolt, Adjusting	1
17	301731	Nut	1
18	301241	Gasket	2
19	301504	Nut, Cap	1
20	301361	Cap	1
21		Bolt	2

NOZZLE HOLDER



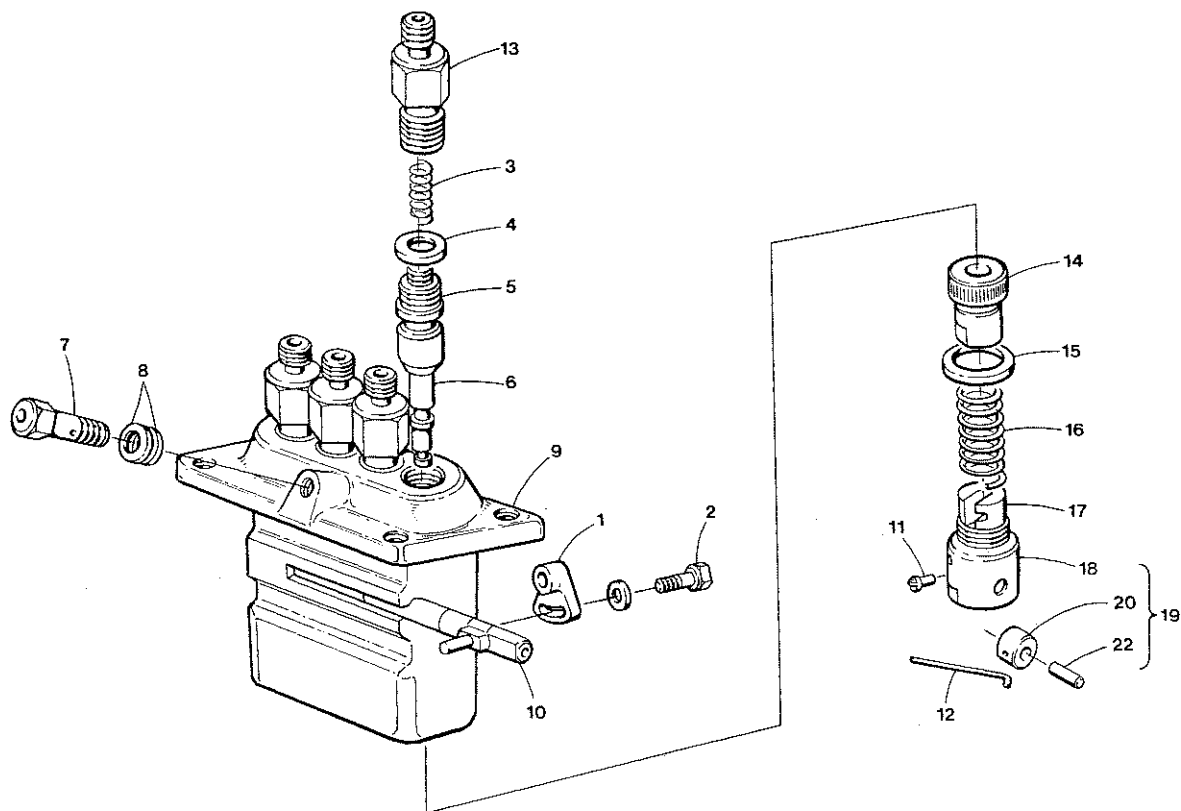
ITEM	PART NO.	DESCRIPTION	QTY.
1	299567	Assembly Holder, Nozzle	1
2	301508	Nut	1
3	301162	Joint, Eye	1
4	301137	Washer, Plain	1
5	Order By #1	Body, Nozzle Holder	1
6	301509	Washer, Adjusting	1
7	301510	Spring, Nozzle	1
8	301511	Piece, Distance	1
9	301512	Rod, Push	1
10	301513	Nut, Nozzle	1
11	301514	Piece, Nozzle	1

GOVERNOR



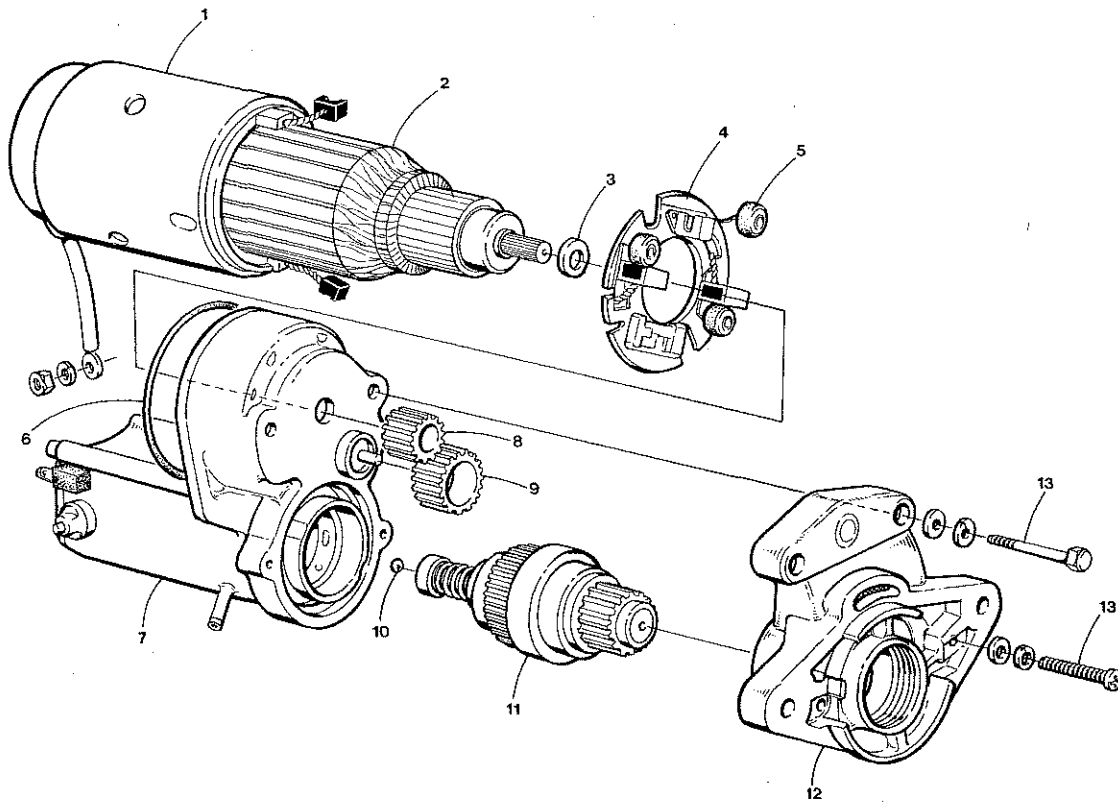
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Lever, Governor	1
2		Assembly Lever, Fork	1
3	298604	Assembly Lever, Fork	1
4	299605	Lever, Fork	1
5		Pin, Lever Fork	2
6		Pin, Lever Fork	1
7	298834	Spring	1
8		Screw, Set	1
9		Lever, Fork	1
10	298832	Shaft, Fork Lever	1
11	298833	Bolt	1
12	31783	Washer, Spring	2
13	298834	Holder, Fork Lever	1
14	298835	Bolt	1
15		Bolt	2
16		Bolt	1
17			
18			
19	31787	Washer, Plain	2
20	31784	Washer, Plain	1
21	298828	Spring, Start	1
22	299603	Spring, Governor	1

INJECTION PUMP



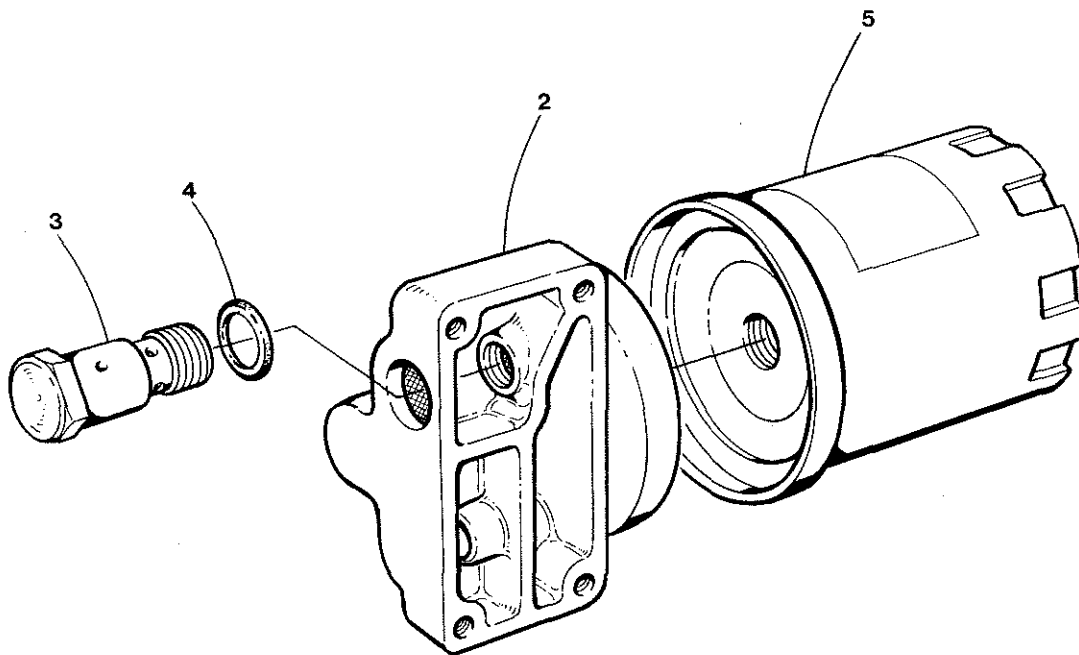
ITEM	PART NO.	DESCRIPTION	QTY.
1		Plate, Adjust	3
2		Bolt	3
3		Spring, Delivery Valve	4
4		Gasket, Delivery Valve	4
5		Valve, Delivery	4
6		Element, Pump	4
7	299872	Screw	1
8	299873	Gasket	2
9		Housing, Pump/order by no. 18	1
10		Rack, Control	1
11		Pin, Tappet Guide	4
12		Pin, Clamp	2
13		Holder, Delivery 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/order by no. 19	4
21			
22		Pin, Roller / order by no. 19	4

STARTER MOTOR

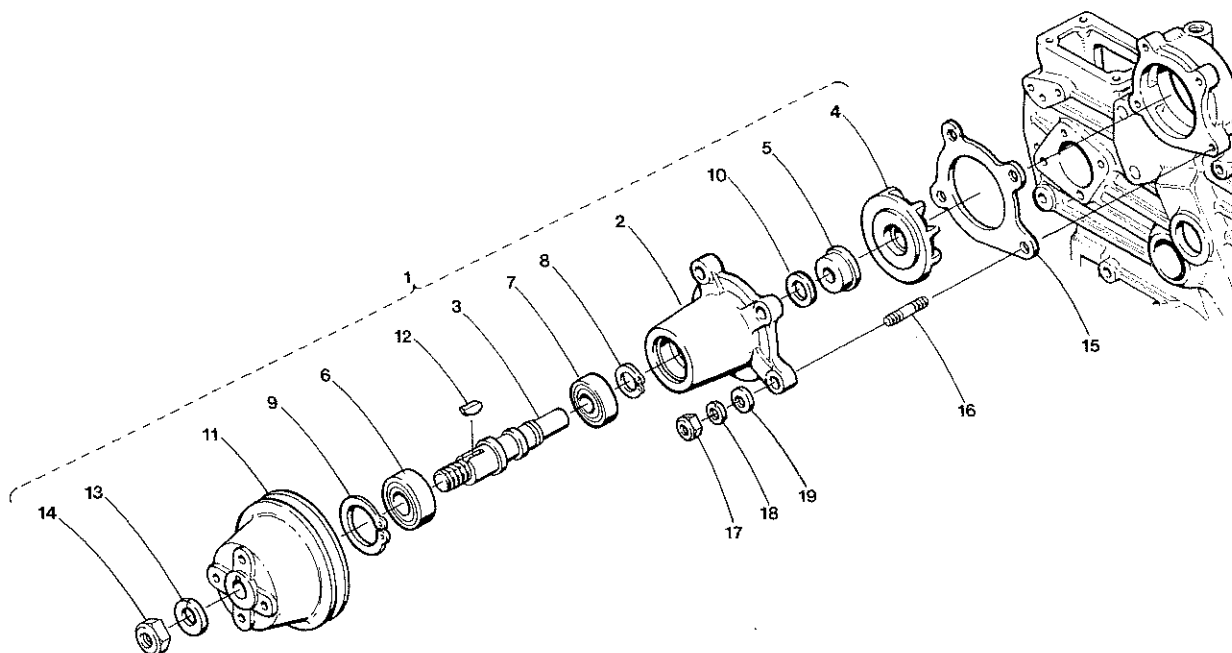


ITEM	PART NO.	DESCRIPTION	QTY.
1		Yoke	1
2	299840	Armature	1
3		Gasket	1
4	299841	Holder, Brush	1
5	299842	Spring, Brush	4
6		Gasket, Brush	1
7	299843	Switch, Magnet	1
8	299844	Gear 1	1
9	299845	Gear 2	1
10		Ball	1
11	299846	Clutch	1
12		Frame, Drive End	1
13		Bolt, Through	2
14		Screw	2
	299574	Assembly, Starter - Items 1 through 14 (see Flywheel Group also)	1

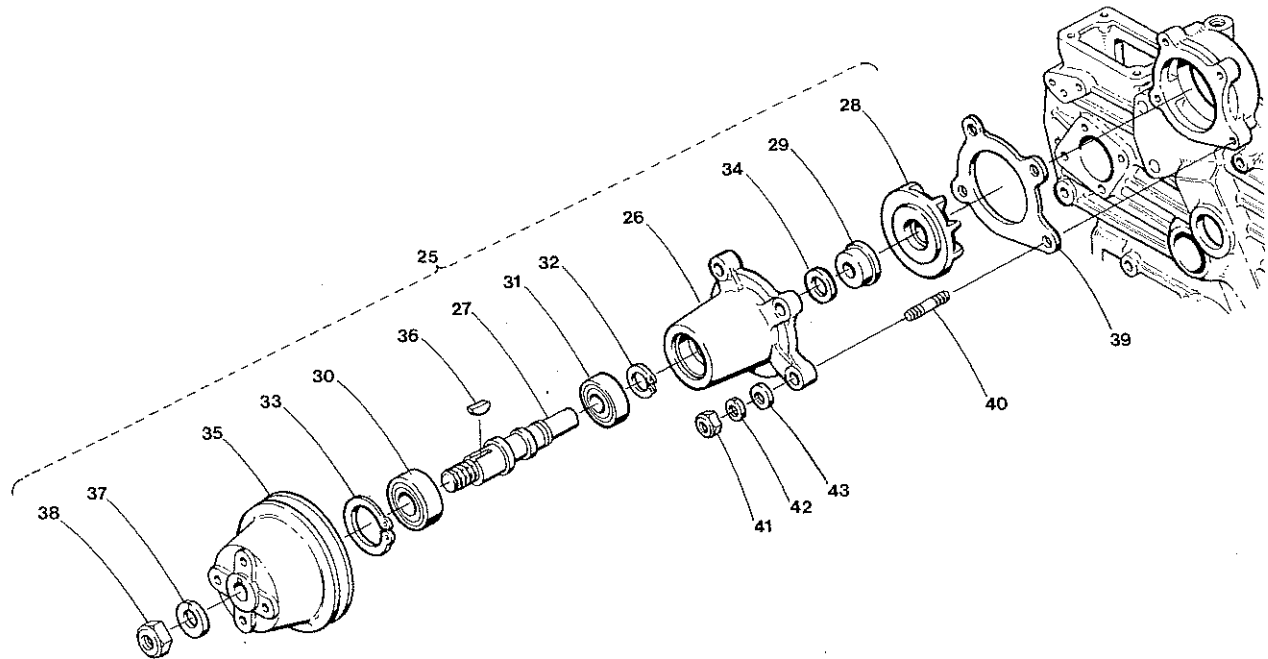
OIL FILTER GROUP



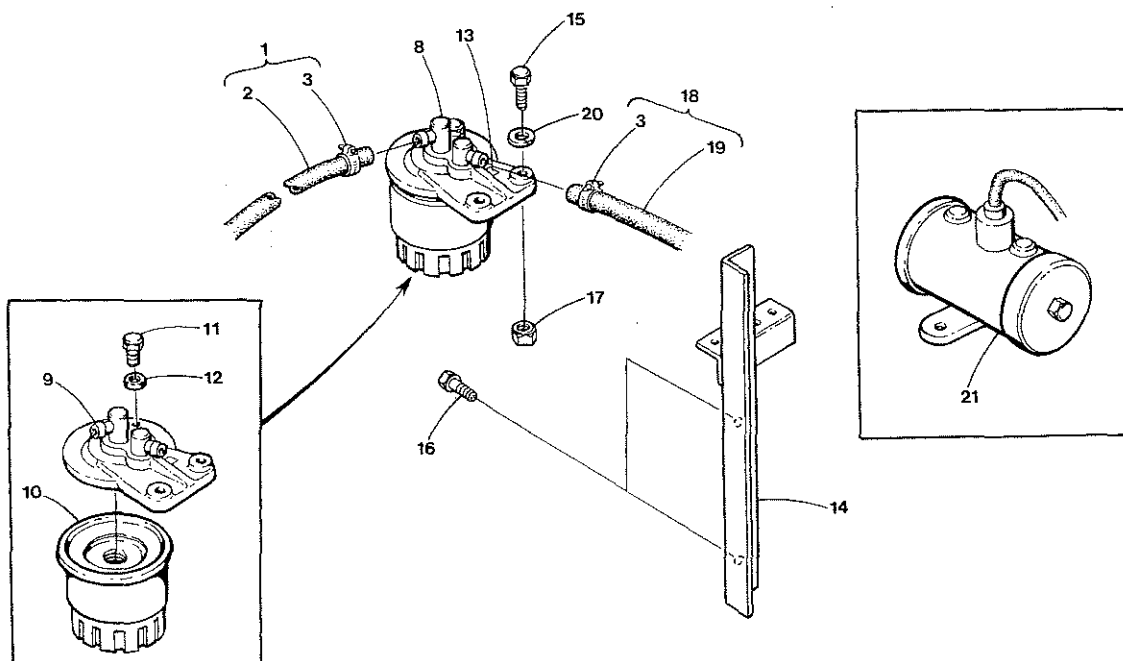
ITEM	PART NO.	DESCRIPTION	QTY.
1	298860	Assembly, Cover	1
2		Cover	1
3		Assembly, Valve, Relief	1
4		O Ring	1
5	299584	Cartridge, Filter	1



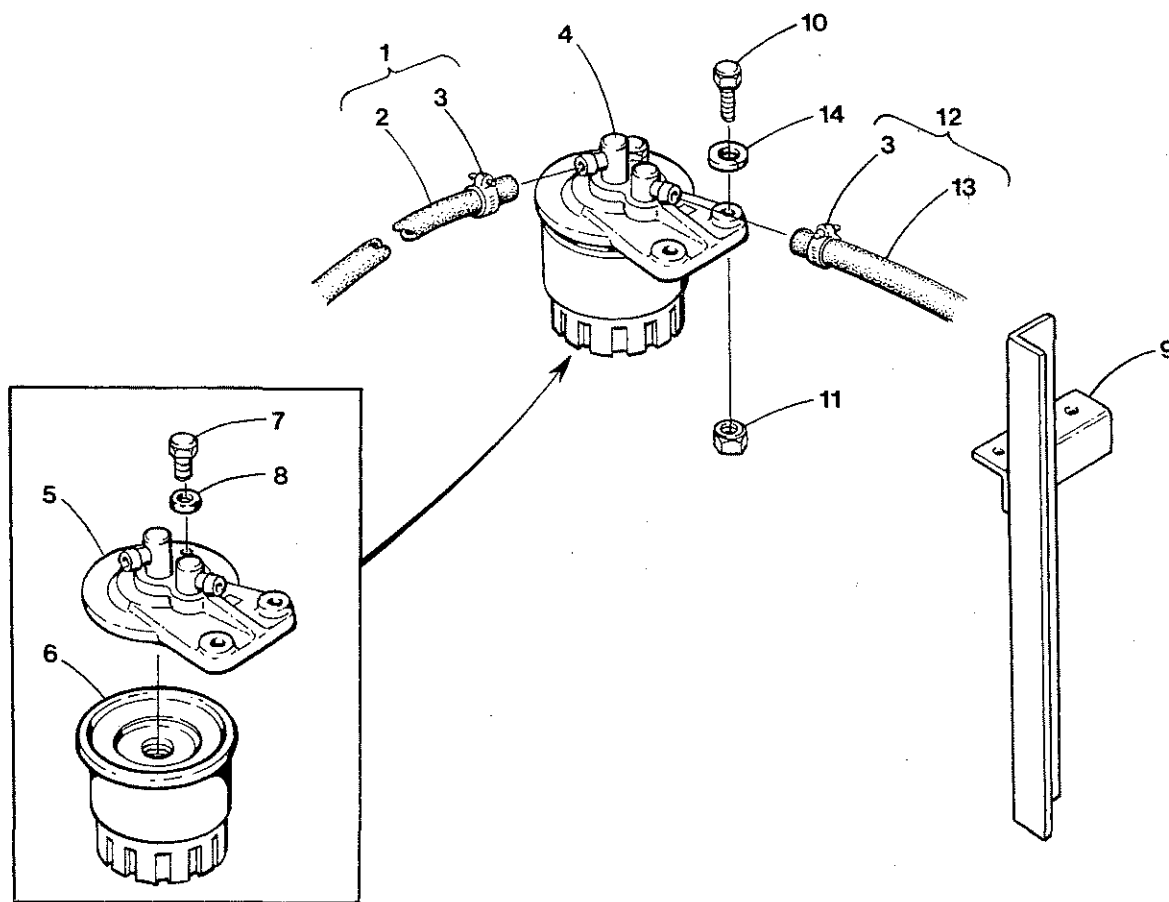
ITEM	PART NO.	DESCRIPTION	QTY.
1	298845	Water Pump Assembly	1
2		Body, Water Pump	1
3		Shaft, Water Pump	1
4	300043	Impeller, Water Pump	1
5	300044	Set Seal	1
6		Bearing, Ball	1
7		Bearing, Ball	1
8		Cir-Clip, External	1
9		Cir-Clip, Internal	1
10		Slinger	1
11		Pulley	1
12		Key, Woodruff	1
13	298722	Washer, Spring	1
14		Nut	1
15	298846	Gasket, Water Pump	1
16	301746	Stud	4
17		Nut	4
18	31787	Washer, Spring	4
19	31787	Washer, Plain	4



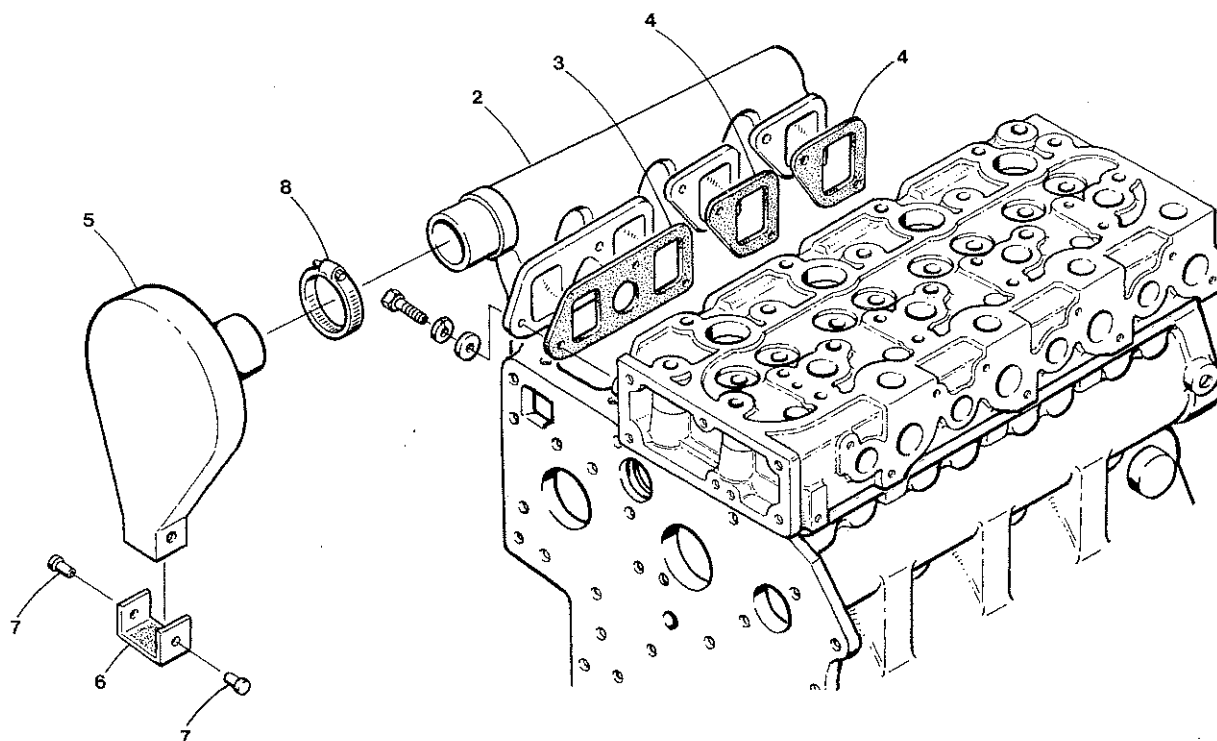
ITEM	PART NO.	DESCRIPTION	QTY.
25	298845	Water Pump Assembly	1
26		Body, Water Pump	1
27		Shaft, Water Pump	1
28		Impeller, Water Pump	1
29		Set Seal	1
30		Bearing, Ball	1
31		Bearing, Ball	1
32		Cir-Clip, External	1
33		Cir-Clip, Internal	1
34		Slinger	1
35		Pulley	1
36		Key, Woodruff	1
37		Washer, Spring	1
38		Nut	1
39	298846	Gasket, Water Pump	1
40		Bolt	4
41		Nut	4
42		Washer, Spring	4
43		Washer, Plain	4



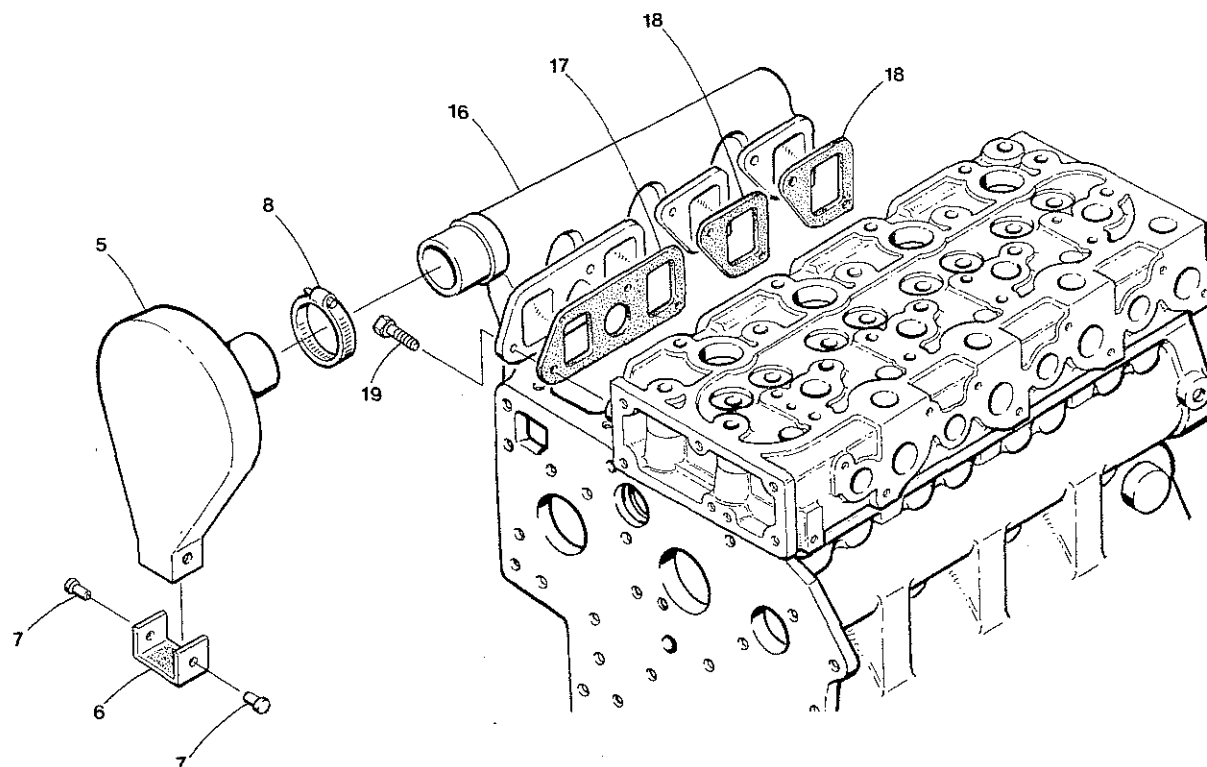
ITEM	PART NO.	DESCRIPTION	QTY.
1		Fuel Pipe Assembly	1
2		Pipe, Fuel	1
3	298605	Clip, Pipe	2
4		Gasket	2
5		Joint, Fuel Pipe	1
6		Pipe, Fuel	1
7		Clip, Pipe	2
8	298853	Fuel, Filter Assembly	1
9		Cover, Filter	1
10	298854	Element, Filter	1
11		Plug, Filter Breather	1
12		O Ring	1
13		Mark, Form	1
14	299262	Bracket, Filter	1
15	231059	Bolt	2
16	298973	Bolt	2
17	230142	Nut	2
18		Fuel Pipe Assembly	1
19	299282	Pipe, Fuel Filter to Engine	1
20	298461	Lockwasher	1
21		Electric Fuel Pump	1



ITEM	PART NO.	DESCRIPTION	QTY.
1		Fuel Supply Hose Assembly	1
2		Hose, Fuel	1
3	298605	Clamp, Hose	2
4	298853	Fuel Filter Assembly	1
5		Cover, Filter	1
6	298854	Element, Fuel Filter	
7	299855	Plug, Filter Breather	1
8	299856	O Ring	1
9	299262	Bracket	1
10	231059	Bolt	2
11	230142	Nut	2
12		Fuel Hose Assembly	1
13	299282	Hose, Fuel To Injector	1
14	298567	Lock Washer	2

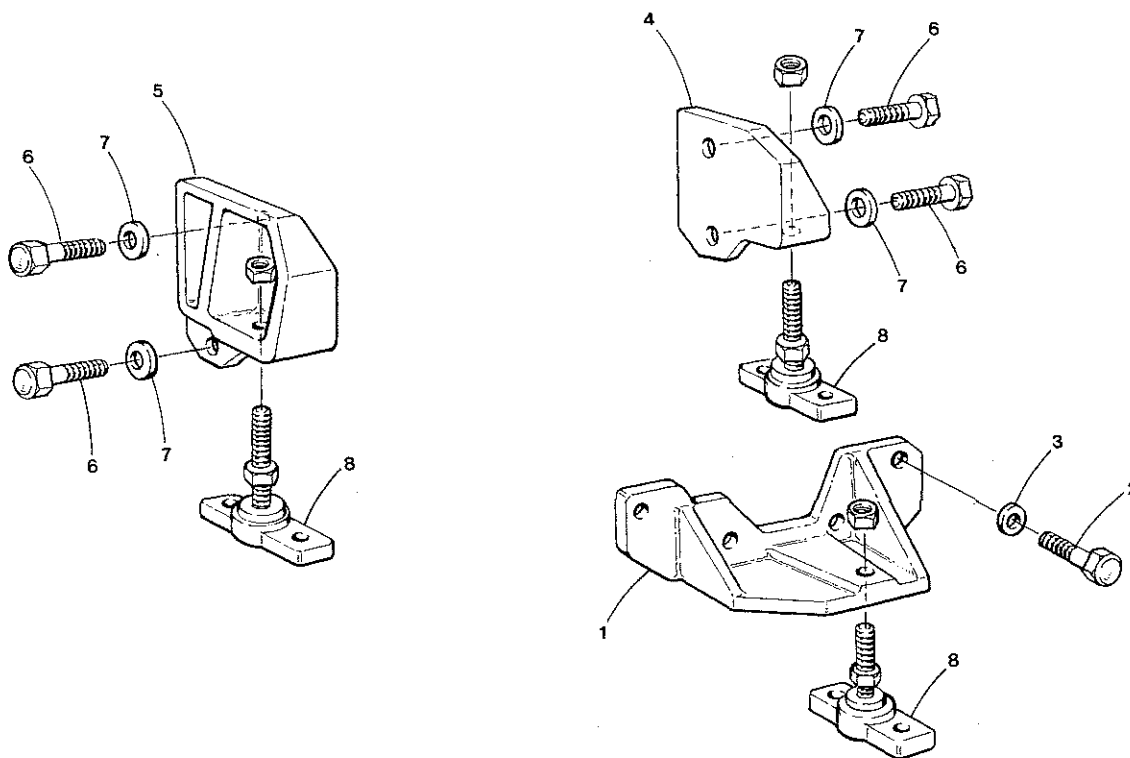


ITEM	PART NO.	DESCRIPTION	QTY.
1		Air Cleaner Assembly	1
2	299563	Manifold, Inlet	1
3	298705	Gasket	1
4	298865	Gasket, Intake Manifold	2
5	298548	Air Silencer	1
6	298563	Screen, Air Silencer	1
7	239158	Pop Rivet	2
8	298604	Clamp, Adjustable	1



ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly, Air Cleaner	1
2			
3			
4			
5	298548	Air Silencer	1
6	298563	Screen, Air Silencer	1
7	239158	Pop Rivet	2
8	298604	Clamp, Adjustable	1
9			
10			
11			
12			
13			
14			
15			
16	299563	Manifold, Inlet	1
17	298705	Gasket	1
18	298865	Gasket, Intake Manifold	2
19		Bolt	7

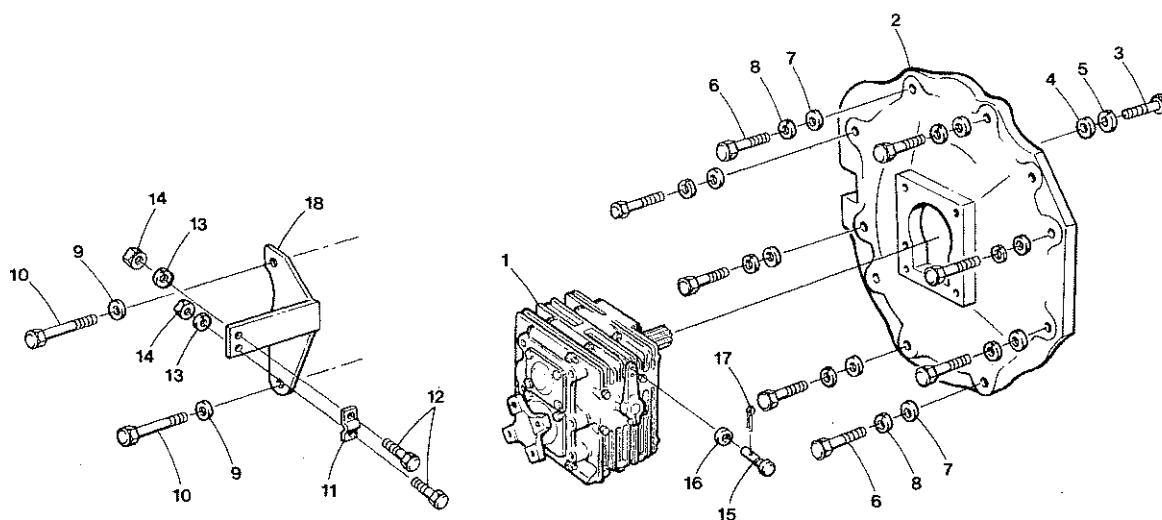
ENGINE MOUNT GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1	298515	Mounting Bracket - Front	1
2	298506	Hex Hd Cap Screw (10MM x 30MM Lg)	4
3	298463	Lock Washer - 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	298465	Lock Washer - Split (14MM Screw)	4
8	298232	Flexible Mount	3

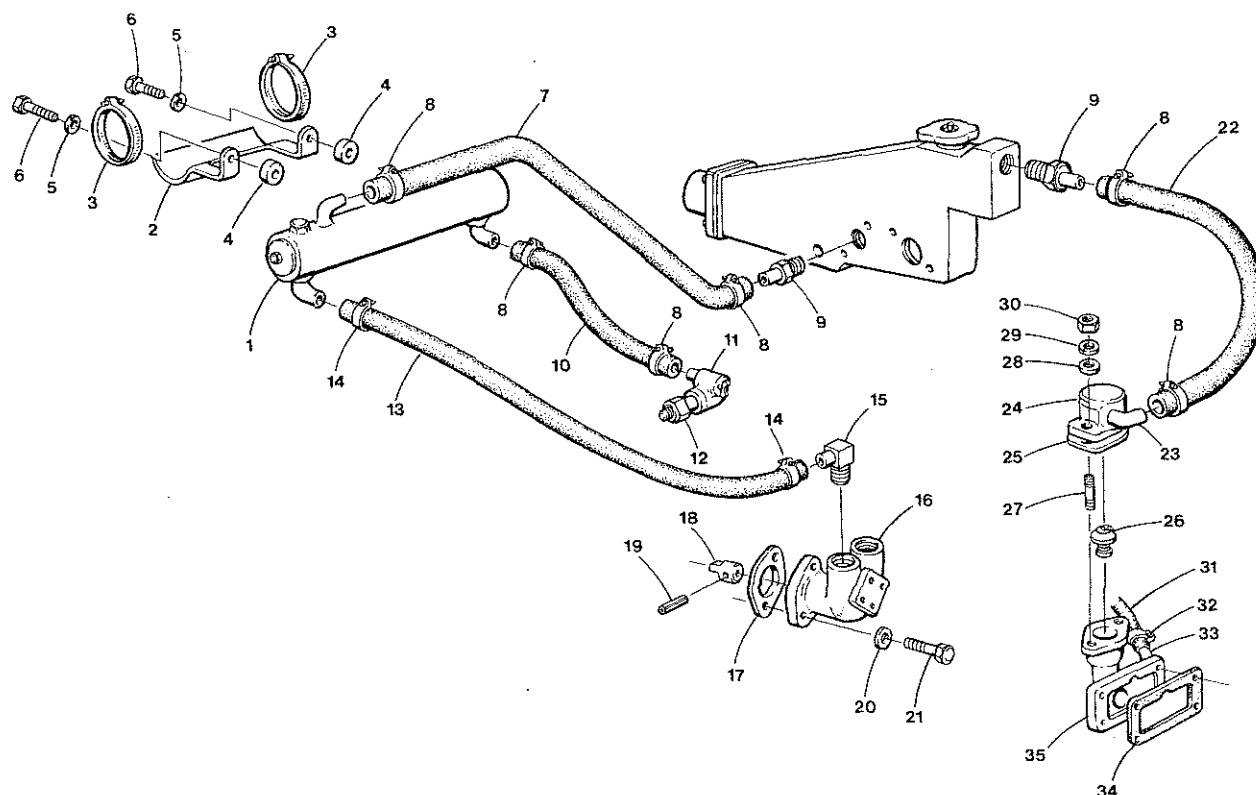
When using the four point mount option mounting bracket (Item 1) must be part no. 299706 and one extra 298232 mount is required.

TRANSMISSION GROUP



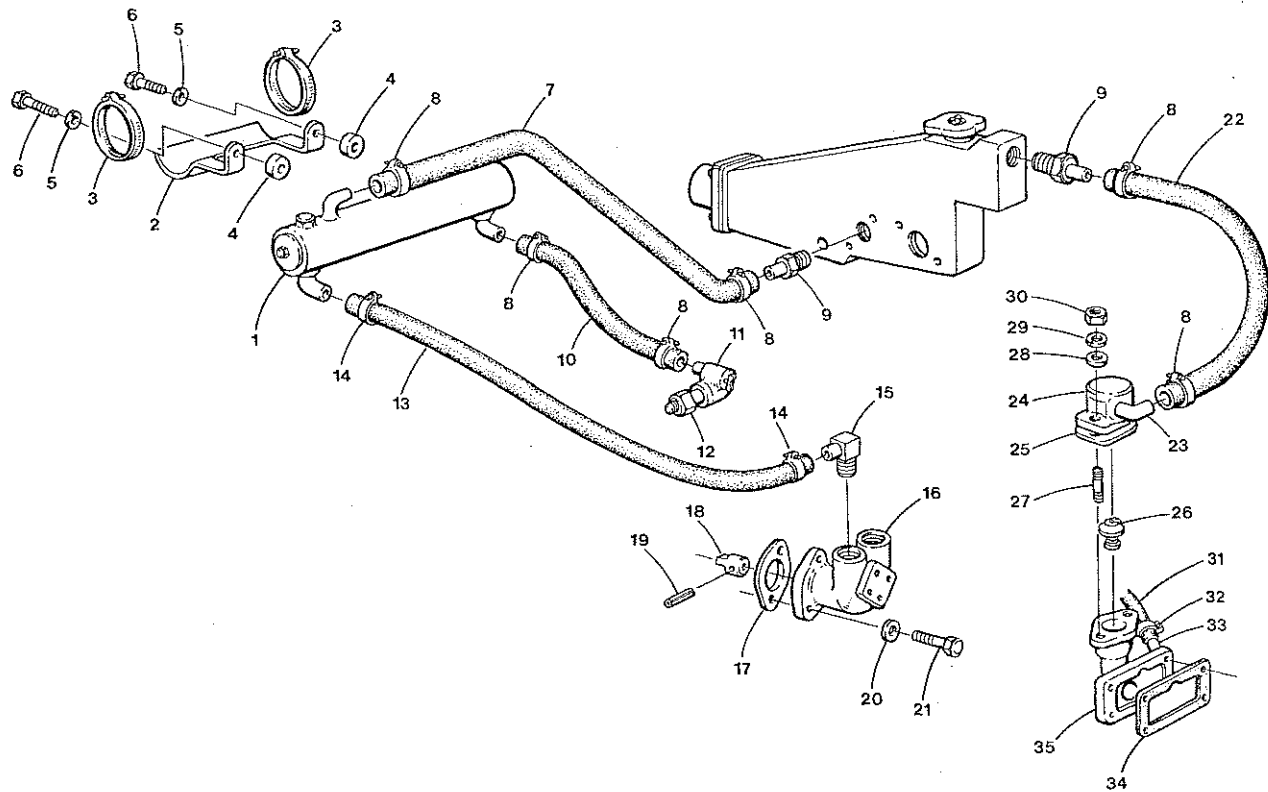
ITEM	PART NO.	DESCRIPTION	QTY.
1	300116	Reverse Gear Box, Complete	1
2	298523	Bell Housing, Reverse Gear	1
3	298468	Hex Hd. Cap Scr (8MM x 1.25P x 25MM Lg)	6
4	231875	Flat Washer, SAE 5/16	6
5	298461	Washer, Lock (8MM Screw)	6
6	298616	Hex Hd. Cap Scr (10MM x 50MM Lg)	6
7	298456	Flat Washer (.413 I.D.)	6
8	298463	Lock Washer, Split (10MM Screw)	6
9	298461	Lock Washer, Split (8MM Screw)	2
10	298895	Hex Hd. Cap Scr(8MM x 1.25P x 16mm Lg)	2
11	298897	Clamp, Shift Cable to Shift Control Bracket	1
12	231224	Round Hd Mach Scr(#10-32 x Lg)	2
13	231890	Lock Washer, Split (#10 Screw)	2
14	230138	Hex Nut (#10-32)	2
15	299690	Pivot, Shift Cable to Reverse Gear Lever	1
16	231874	Flat Washer SAE "	1
17	230281	Cotter Pin 3/32 x "	1
18	300427	Bracket, Shift Control Mt'g Cable	1
19	298454	Damper	1
20	298505	Damper Mt'g Plate	1

COOLING SYSTEM GROUP



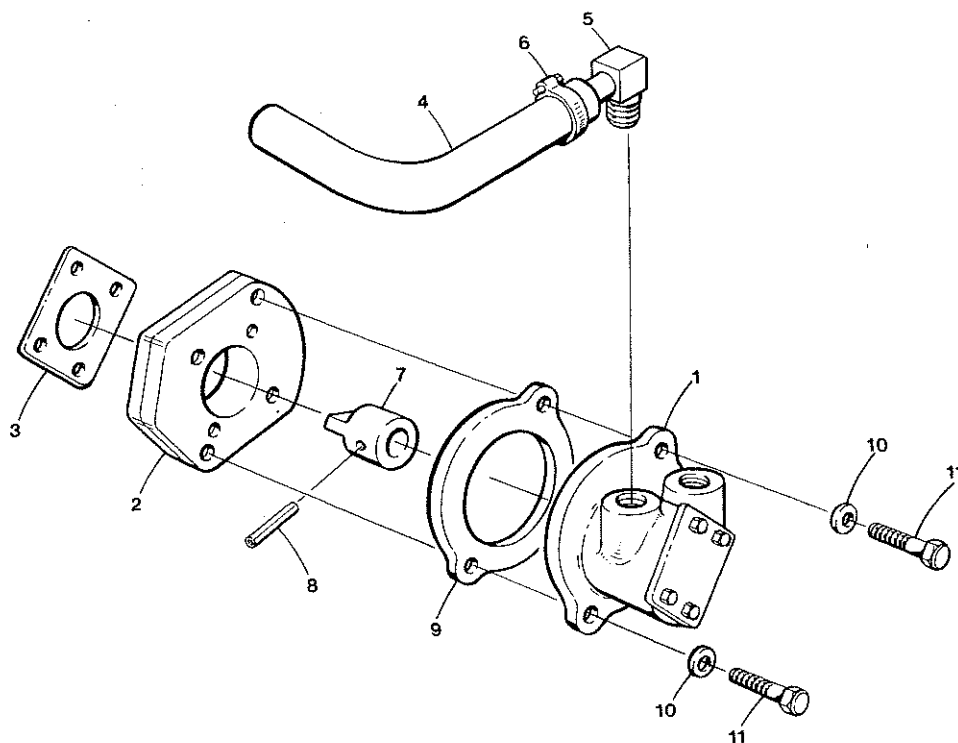
ITEM	PART NO.	DESCRIPTION	QTY.
1	299049	Heat Exchanger	1
2	298632	Support Bracket	1
3	294386	Clamp, Heat Exchanger	2
4	298634	Spacer	2
5	298463	Washer, Lock Split (10MM Screw)	2
6	301442	Hex Hd. Cap Screw (10MM x1.25P x 55MM)	2
7	299079	Wire Flex Hose 7/8 ID x 10-3/4 Lg.	1
8	298648	Hose Clamp For 7/8 hose	6
9	286075	Hose Connector - npt to 7/8 ID Hose	2
10	299080	Hose 7/8 ID x 22" Lg	1
11	239138	Drain Cock 1/8"	1
12	298641	Hose and Drain Adapter	1
13	299081	Hose I.D. x 28" Lg	1
14		Hose Clamp	2
15	241019	Hose Fitting 90° x 3/8	1
16	298890	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	285305	Washer, Lock Split 3/8	2
21	231080	Hex Hd. Cap Scr (3/8-16 x 1" Lg)	2
22	298645	Hose 7/8 I.D. x 5-1/8 Lg	1
23	298644	Hose Connector	1

COOLING SYSTEM GROUP



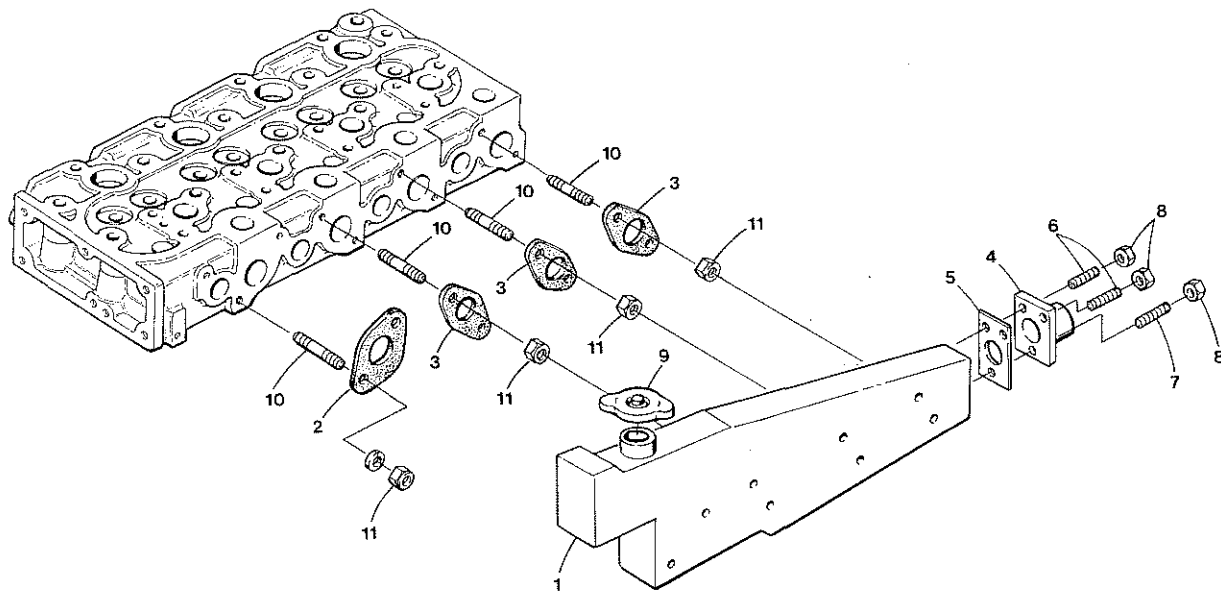
ITEM	PART NO.	DESCRIPTION	QTY.
24	298583	Thermostat Housing	1
25	298843	Gasket, Thermostat Housing	1
26	299798	Thermostat Element	1
27		Stud	2
28		Washer, Plain	2
29		Washer, Lock Split	2
30		Hex Nut	2
31	298841	Hose, Water Return	1
32	298842	Clamp, Hose	2
33	298840	Pipe, Water Return	1
34	300040	Gasket, Water Flange	1
35	300039	Flange, Water	1
36	299066	Temperature Sender	

WATER PUMP GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1	298890	Pump Oberdorfer	1
2	298477	Adapter Plate	1
3	298485	Gasket, Adapter Plate	1
4	299162	Hose " Pump To Engine	1
5	241019	Fitting 90° " Hose	1
6		Clamp " Hose	1
7	298478	Coupling Adapter	1
8	230371	Rolling Pin 3/16 Dia. x 7/8 Lg.	1
9	300253	Gasket	1
10	285305	Washer	2
11	231080	Cap Screw	2
12	298889	Cam	1

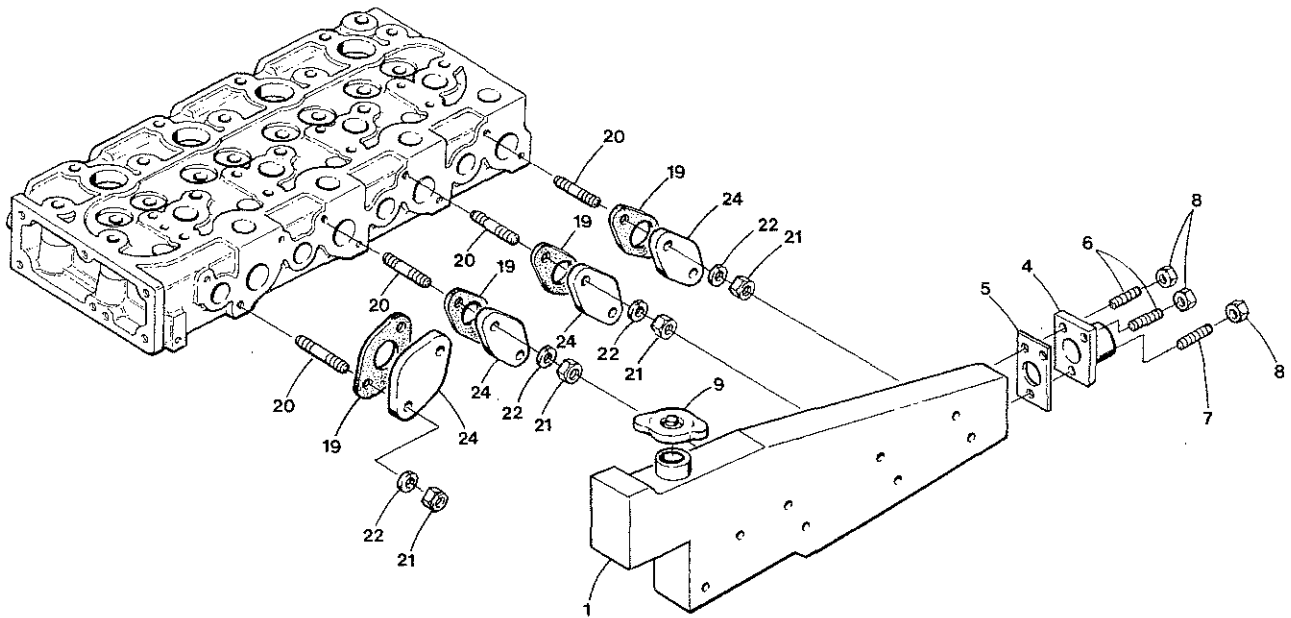
When replacing pump impeller order "water pump repair kit"
Part No. 298416-A. Kit consist of: impeller, lip seal, gasket
and retaining ring.



ITEM	PART NO.	DESCRIPTION	QTY.
1	298988	Manifold	1
2	298707	Gasket, Exhaust Manifold	1
3	298708	Gasket, Exhaust Manifold	3
4	298599	Exhaust Flange, Manifold	1
5	298600	Gasket, Exhaust Flange	1
6	276440	Stud, Exhaust Flange Mounting	2
7	298974	Stud, Exhaust Flange Mounting	1
8	230147	Hex Nut, Exhaust Flange Mtg. 3/8-24	3
9	299956	Radiator Cap, Pressurized 7# PSI	1
10	298635	Stud, Exhaust Manifold	8
11	298466	Hex Nut, Exhaust Manifold (8mm x 1.25P)	8

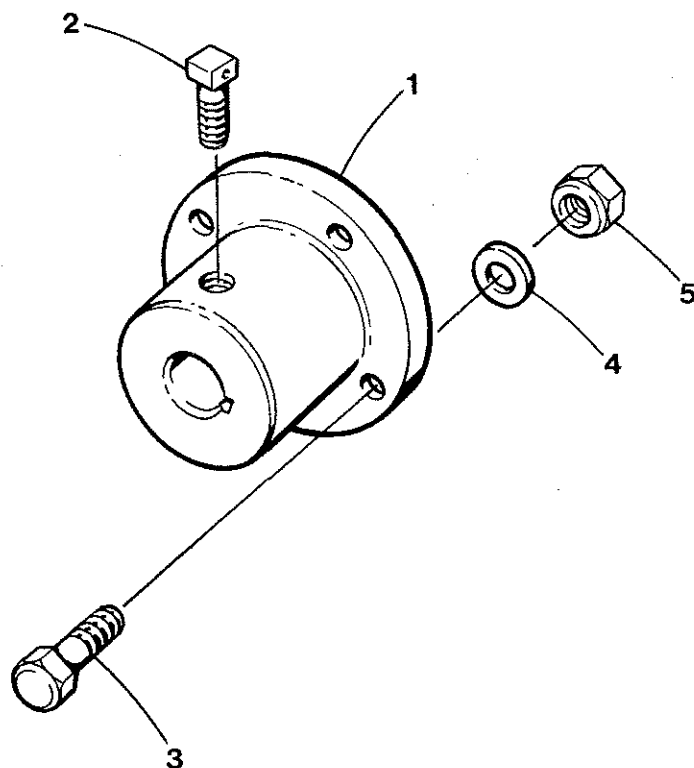
EXHAUST MANIFOLD

From Serial Number 315023



ITEM	PART NO.	DESCRIPTION	QTY.
1	299886	Manifold	1
2			
3			
4	298599	Exhaust Flange	1
5	298600	Gasket, Exhaust Flange	1
6	276440	Stud, Exhaust Flange Mounting	2
7	298974	Stud, Exhaust Flange Mounting	1
8	230147	Hex Nut, Exhaust Flange Mounting 3/8-24	3
9	299956	Radiator Cap, Pressurized 7 PSI	1
10	298635	Stud, Exhaust Manifold	8
11	298466	Hex Nut, Exhaust Manifold (8mm x 1.25P)	8
12			
13			
14			
15			
16			
17			
18			
19	298707	Gasket, Exhaust Manifold	4
20	298635	Stud	8
21	298466	Nut	8
22	31786	Washer, Spring	8
23			
24		Cover	4

COUPLING GROUP



ITEM	PART NO.	DESCRIPTION	QTY.
1	256741	Rigid Coupling 3/4"	1
2	256742	Rigid Coupling 7/8"	1
3	256743	Rigid Coupling 1"	1
4	256744	Rigid Coupling 1-1/8"	1
5	256745	Rigid Coupling 1-1/4"	1
6	238162	Screw-Sq. Hd. 3/8 - 16 x 1"	2
7	239548	Screw-Hex Head. 3/8 - 24 x 1-1/4"	3
8	231910	Washer-Shake Proof	4
9	230189	Nut Jam 3/8 - 24	5
10	298568	Flexible Coupling 3/4" - 1/4" Key	
11	298569	Flexible Coupling 7/8" - 1/4" Key	
12	298484	Flexible Coupling 1" - 1/4" Key	
13	298570	Flexible coupling 1-1/8" - 1/4" Key	
14	299300	Flexible Coupling 1-1/4" - 5/16" Key	

INSTRUMENT PANEL

ITEM	PART NO.	DESCRIPTION	QTY.
		Instrument Panel Complete	1
		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
		OR	
		Instrument Panel Complete with 299263 tachometer and All Other Components Listed Above.	
	256738	Gasket Set	Optional
	256749	Spare Parts Kit	Optional