

# PARTS LIST

## UNIVERSAL

Model 5432

Marine Diesel Engine

Publication # 200147

Edition Two

May 1998



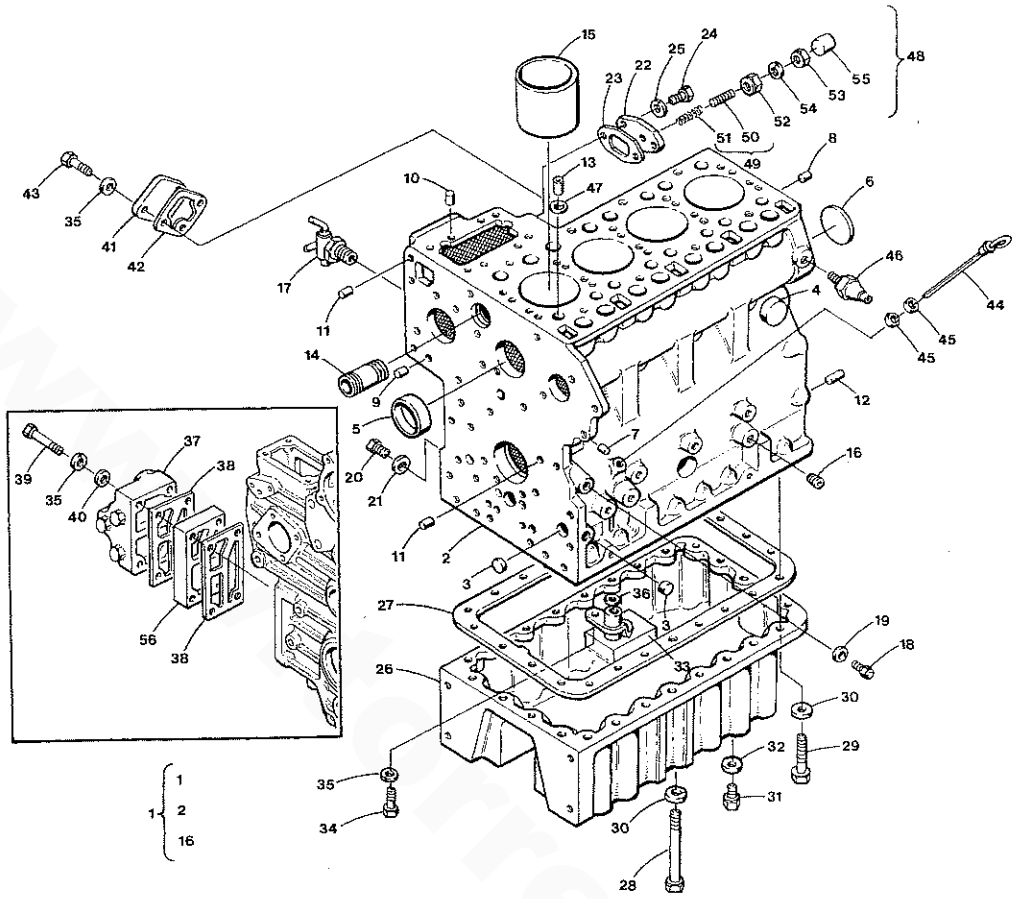
WESTERBEKE CORPORATION - 150 JOHN HANCOCK ROAD  
MYLES STANDISH INDUSTRIAL PARK - TAUNTON, MA 02780  
WEBSITE: [WWW.WESTERBEKE.COM](http://WWW.WESTERBEKE.COM)



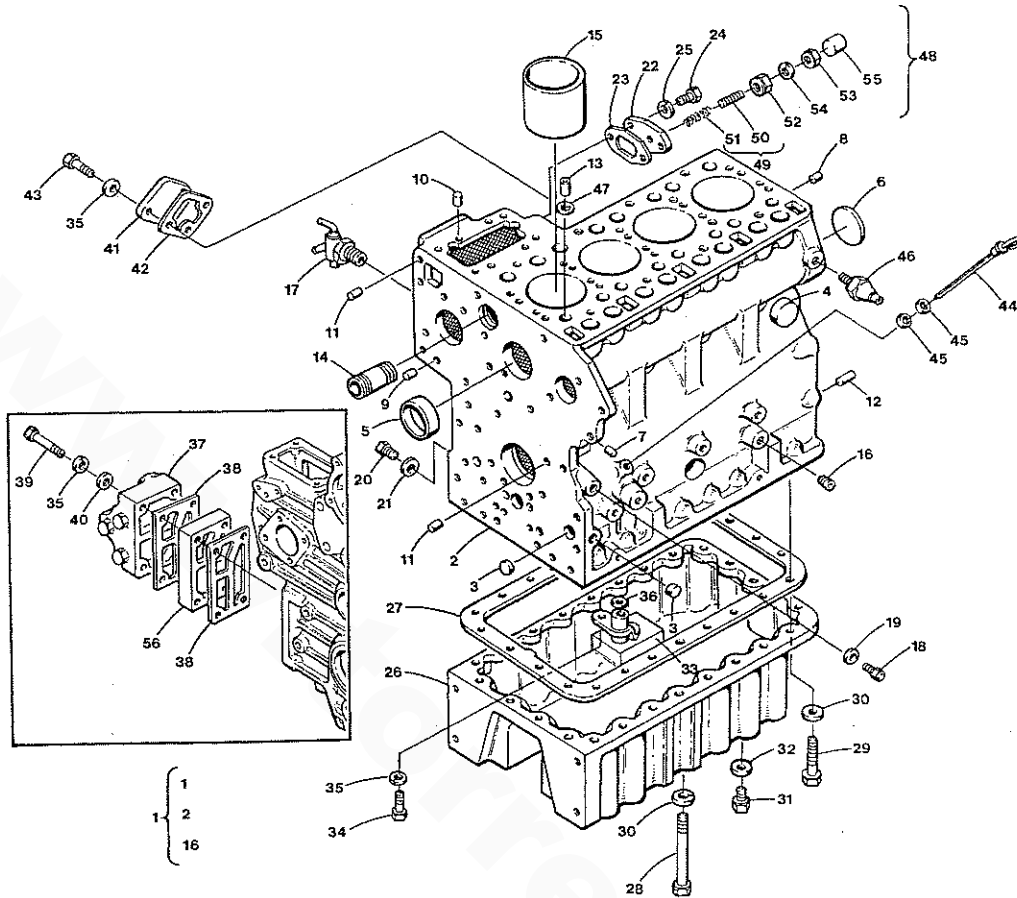
Member National Marine Manufacturers Association

TABLE OF CONTENTS

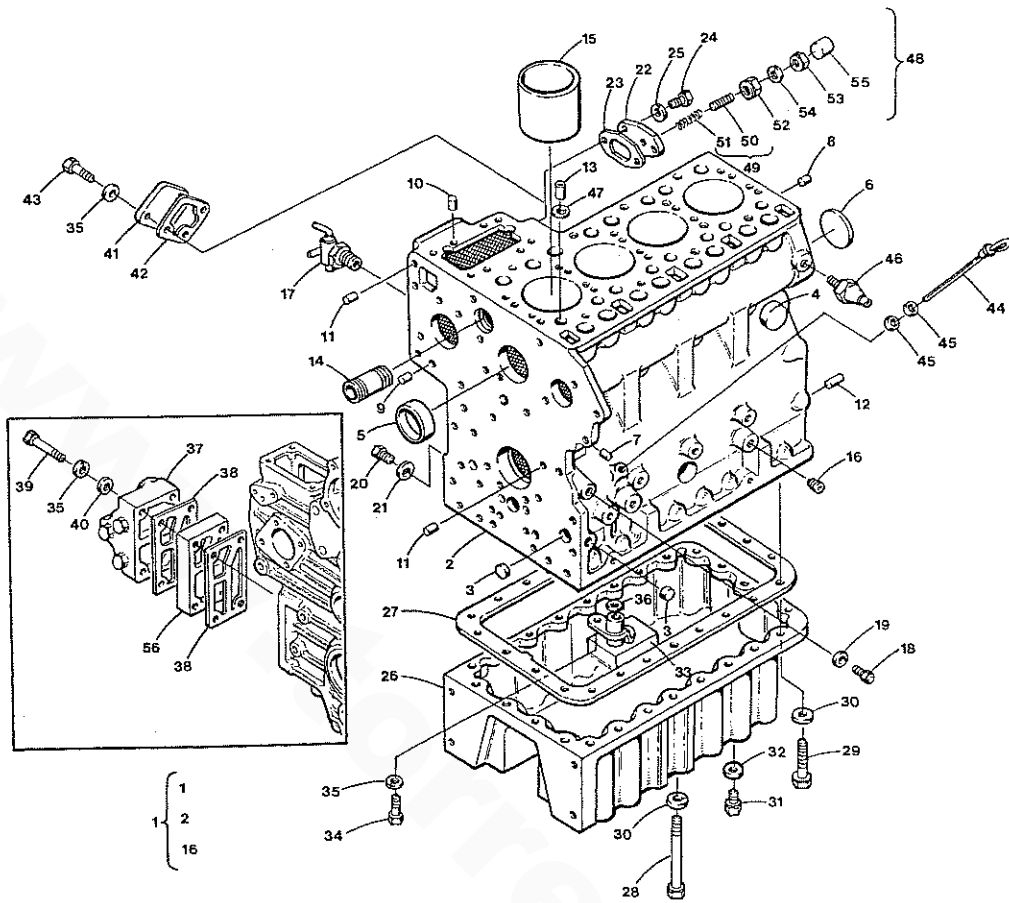
<u>DESCRIPTION</u>	<u>PAGE NO.</u>
CRANKCASE: To Serial Number 315022 .....	1, 2, 3
CRANKCASE: From Serial Number 315023 .....	4, 5, 6
CYLINDER HEAD .....	7
GEAR CASE .....	8, 9
MAIN BEARING CASE: To Serial Number 315022 .....	10, 11
MAIN BEARING CASE: From Serial Number 315023.....	12, 13
HEAD COVER: To Serial Number 315022.....	14
HEAD COVER: From Serial Number 315023 .....	15
BREATHER .....	16
CAMSHAFT: To Serial Number 315022 .....	17
CAMSHAFT: From Serial Number 315023.....	18
VALVE - ROCKER ARM .....	19
PISTON - CRANKSHAFT .....	20
FLYWHEEL GROUP .....	21
NOZZLE HOLDER: To Serial Number 315022 .....	22
NOZZLE HOLDER: From Serial Number 315023 .....	23
FUEL CAMSHAFT: To Serial Number 315022 .....	24, 25
FUEL CAMSHAFT: From Serial Number 315023.....	26, 27
SPEED CONTROL PLATE .....	28
NOZZLE HOLDER.....	29
GOVERNOR .....	30
INJECTION PUMP .....	31
STARTER MOTOR .....	32
OIL FILTER GROUP .....	33
FRESH WATER PUMP: To Serial Number 315022 .....	34
FRESH WATER PUMP: From Serial Number 315023.....	35
FUEL FILTER GROUP: To Serial Number 315022 .....	36
FUEL FILTER GROUP: From Serial Number 315023 .....	37
AIR CLEANER GROUP: To Serial Number 315022 .....	38
AIR CLEANER GROUP: From Serial Number 315023 .....	39
ENGINE MOUNT GROUP.....	40
TRANSMISSION GROUP .....	41
COOLING SYSTEM GROUP .....	42, 43
RAW WATER PUMP GROUP .....	44
EXHAUST MANIFOLD GROUP: To Serial Number 315022 .....	45
EXHAUST MANIFOLD GROUP: From Serial Number 315023.....	46
COUPLING GROUP .....	47
INSTRUMENT PANEL.....	48

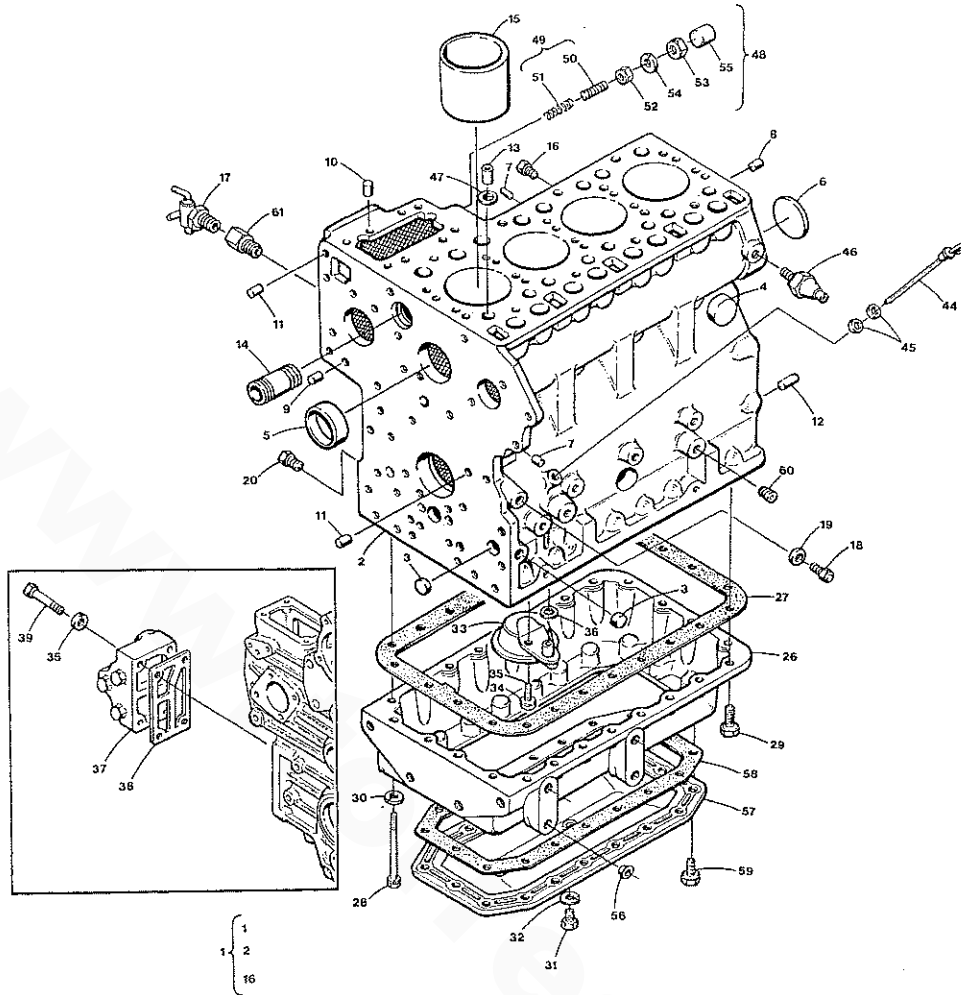


ITEM	PART NO.	DESCRIPTION	QTY.
1	299552	Crankcase Assembly	
2	Order # 1	Crankcase	1
3		Plug, Expansion	3
4	299897	Cap, Sealing	6
5	299958	Cap, Sealing	2
6		Plug, Expansion	1
7		Plug, Pin	2
8		Plug, Pin	1
9	301700	Pin, Straight	2
10	299359	Pin, Straight	2
11	301701	Pin, Straight	2
12	301702	Pin, Straight	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

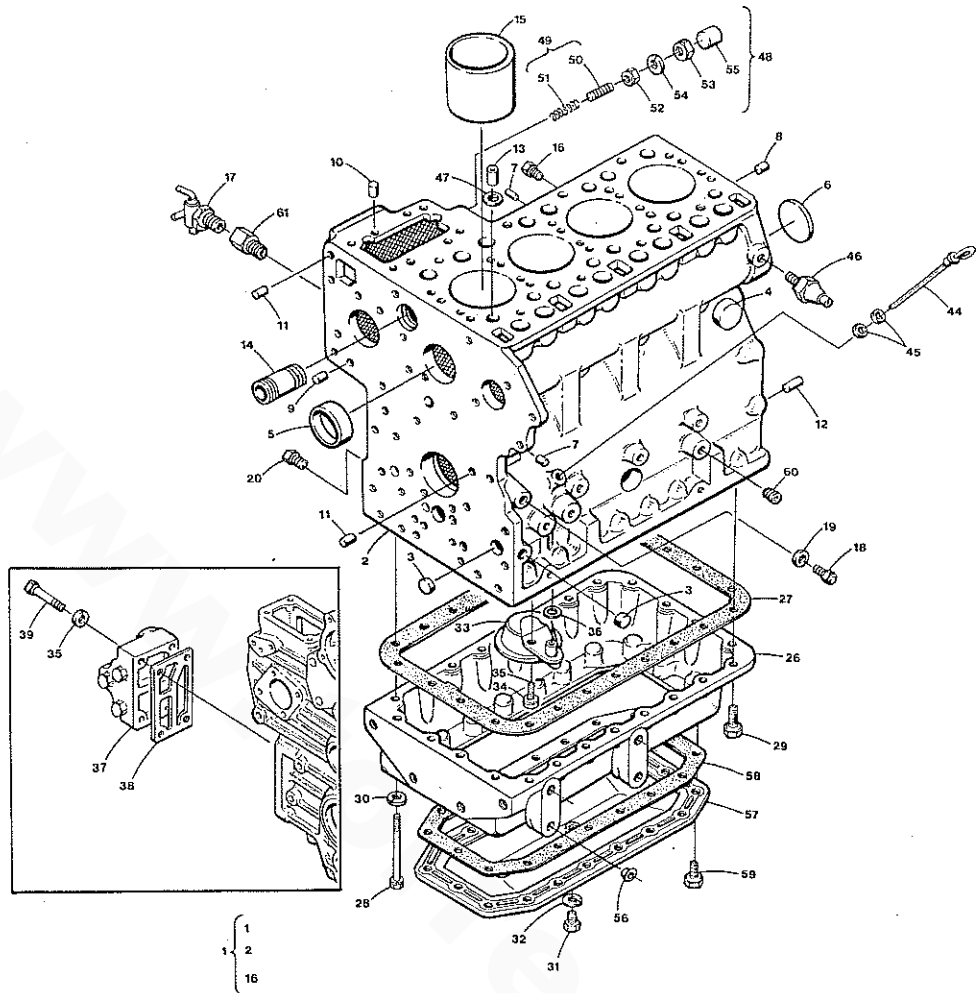


ITEM	PART NO.	DESCRIPTION	QTY.
25	31783	Washer, Spring	2
26	299565	Oil Pan	1
27	299553	Gasket, Oil Pan	1
28		Bolt	4
29		Bolt	20
30	19262	Washer, Spring	24
31	298660	Plug	2
32	298654	Gasket	2
33		Filter, Oil	1
34	299969	Bolt	1
35	19262	Washer, Spring	7
36	299967	O Ring	1
37	298860	Assy. Filter, Oil	1
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

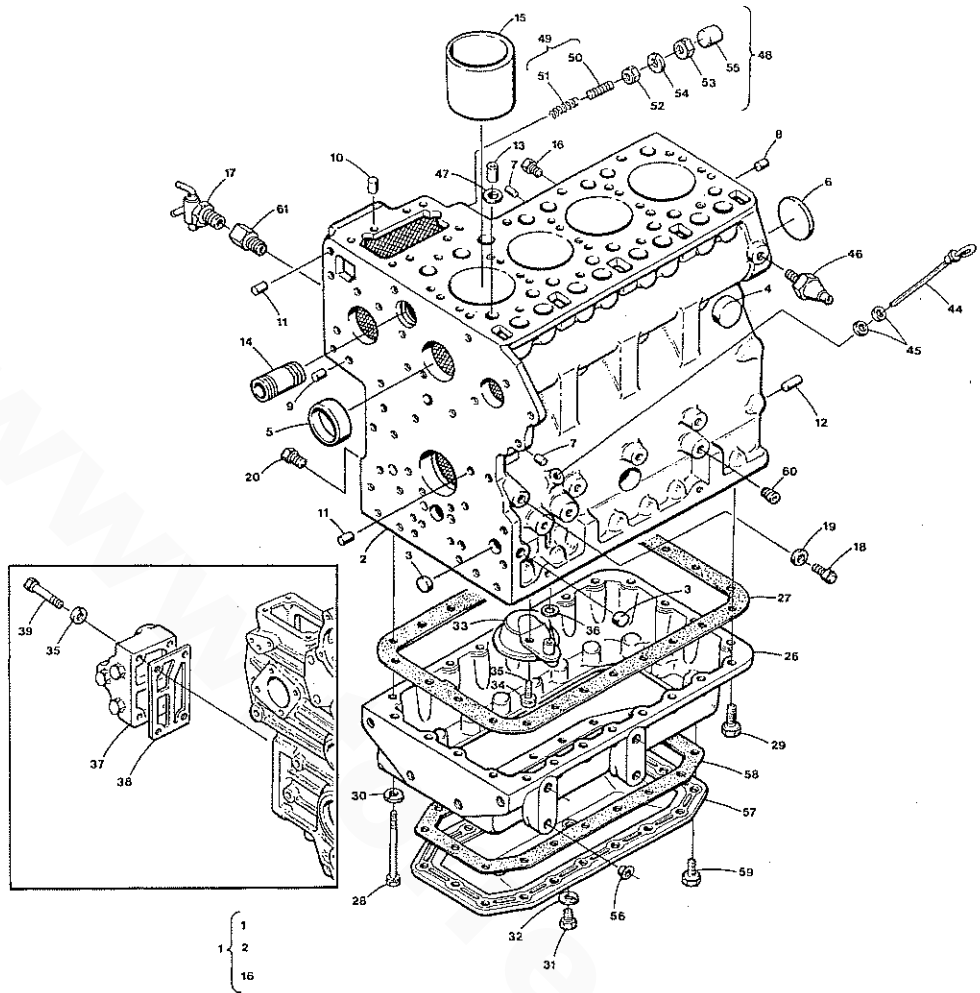




ITEM	PART NO.	DESCRIPTION	QTY.
1	299552	Crankcase Assembly	1
2		Crankcase	1
3		Plug, Expansion	3
4		Cap, Sealing	6
5		Cap, Sealing	2
6		Plug, Expansion	1
7		Plug, Pin	2
8		Plug, Pin	1
9		Pin, Straight	2
10		Pin, Straight	2
11		Pin, Straight	2
12		Pin, Straight	1
13		Pin, Pipe	1
14		Pipe, Water	1
15	298856	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

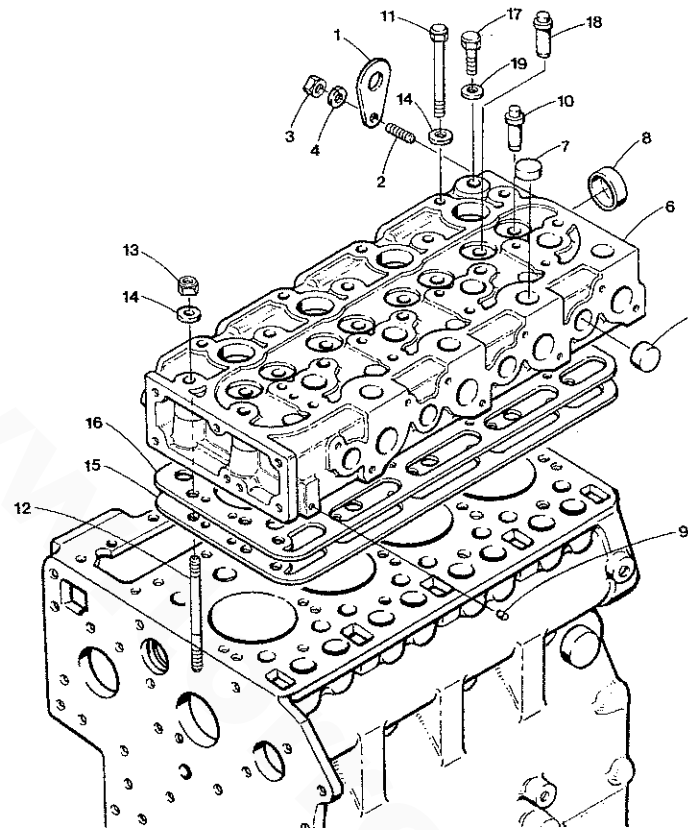


ITEM	PART NO.	DESCRIPTION	QTY.
24		Bolt	2
25			
26	299565	Oil Pan	1
27	299553	Gasket, Oil Pan	1
28		Bolt	12
29		Bolt	12
30		Washer, Spring	12
31	299370	Plug, Oil Pan	1
32	299371	Gasket	1
33		Oil, Filter Pump	1
34		Bolt	1
35		Washer, Spring	5
36		O Ring	1
37	298860	Mount Housing Assy - Oil Filter	1
38	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

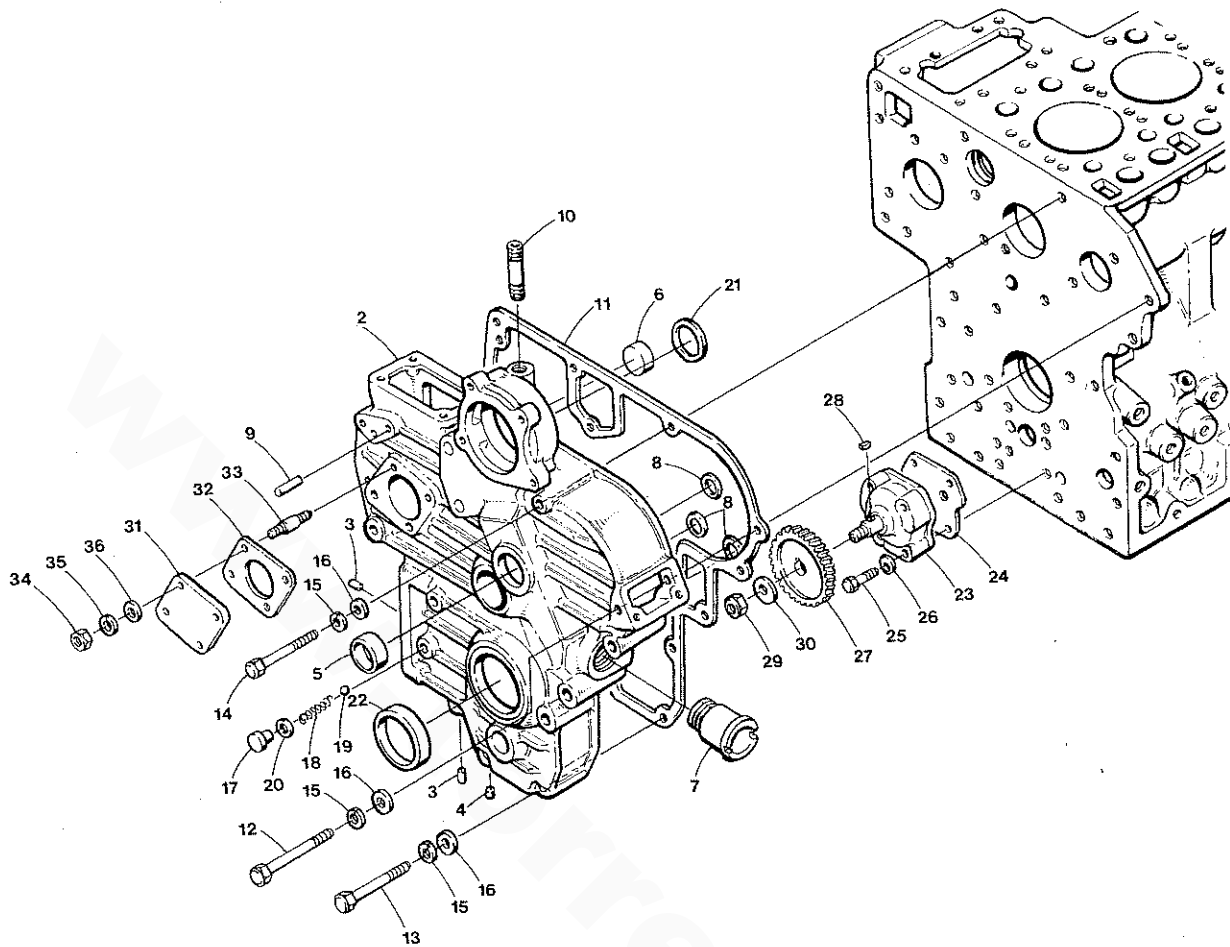


ITEM	PART NO.	DESCRIPTION	QTY.
47	299362	O Ring	1
48		Assembly Apparatus, Idle	1
49		Assembly Bolt, Adjusting	1
50		Bolt, Adjusting	1
51		Spring	1
52		Nut	1
53		Nut, Cap	1
54		Gasket	2
55		Cap	1
56		Plug	8
57	299564	Cover, Oil Pan	1
58	299560	Packing	1
59		Bolt	18
60		Plug, Blind	13
61		Joint, Draincock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

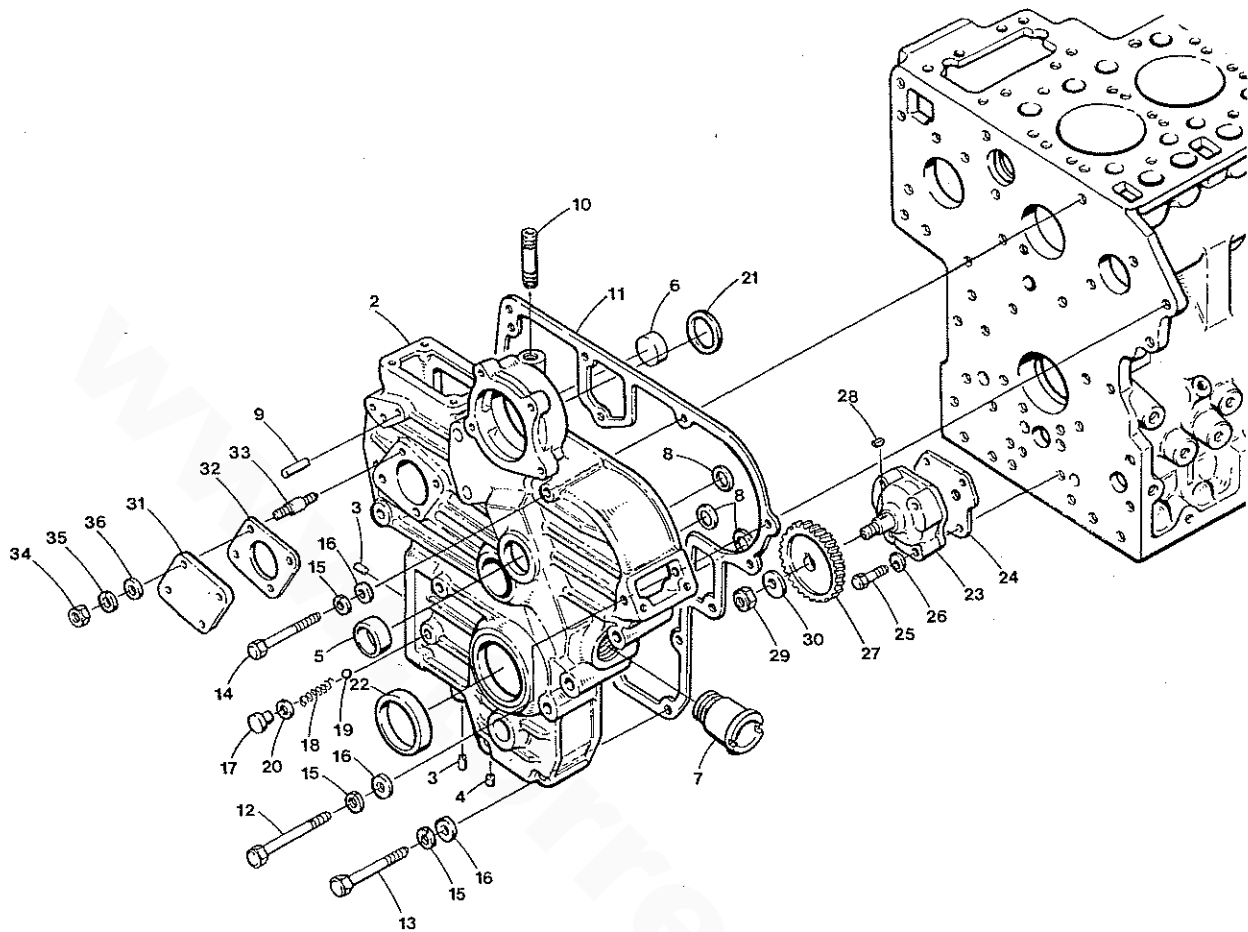




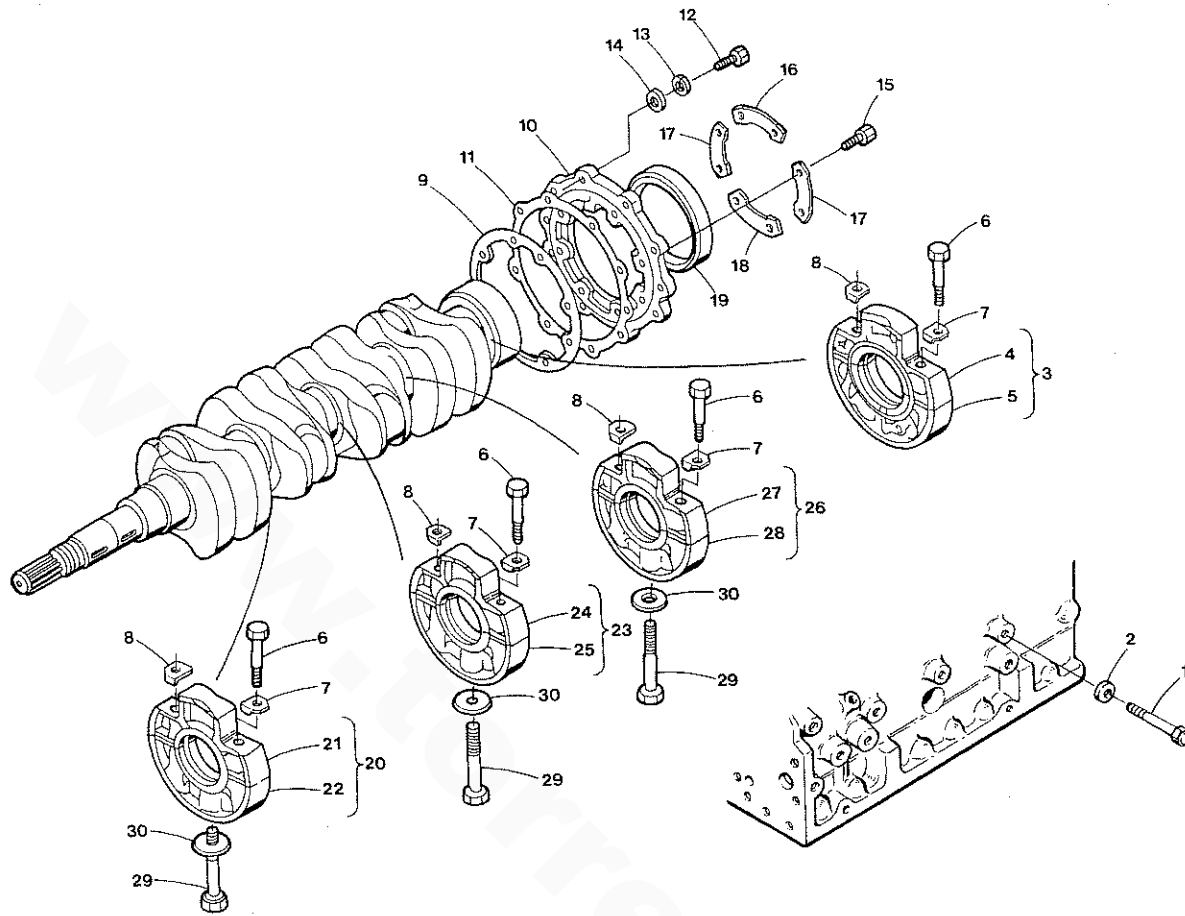
ITEM	PART NO.	DESCRIPTION	QTY.
1	298666	Hook Engine	2
2	301135	Stud	2
3		Nut	2
4	31786	Washer, Spring	2
5	299554	Assy. Cylinder Head	1
6		Cylinder Head	1
7	299898	Expansion Plug	12
8	299355	Expansion Plug	1
9		Plug, Pin	2
10	299555	Guide, Valve	8
11	298668	Bolt, Cylinder Head	16
12	298669	Stud, Cylinder 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



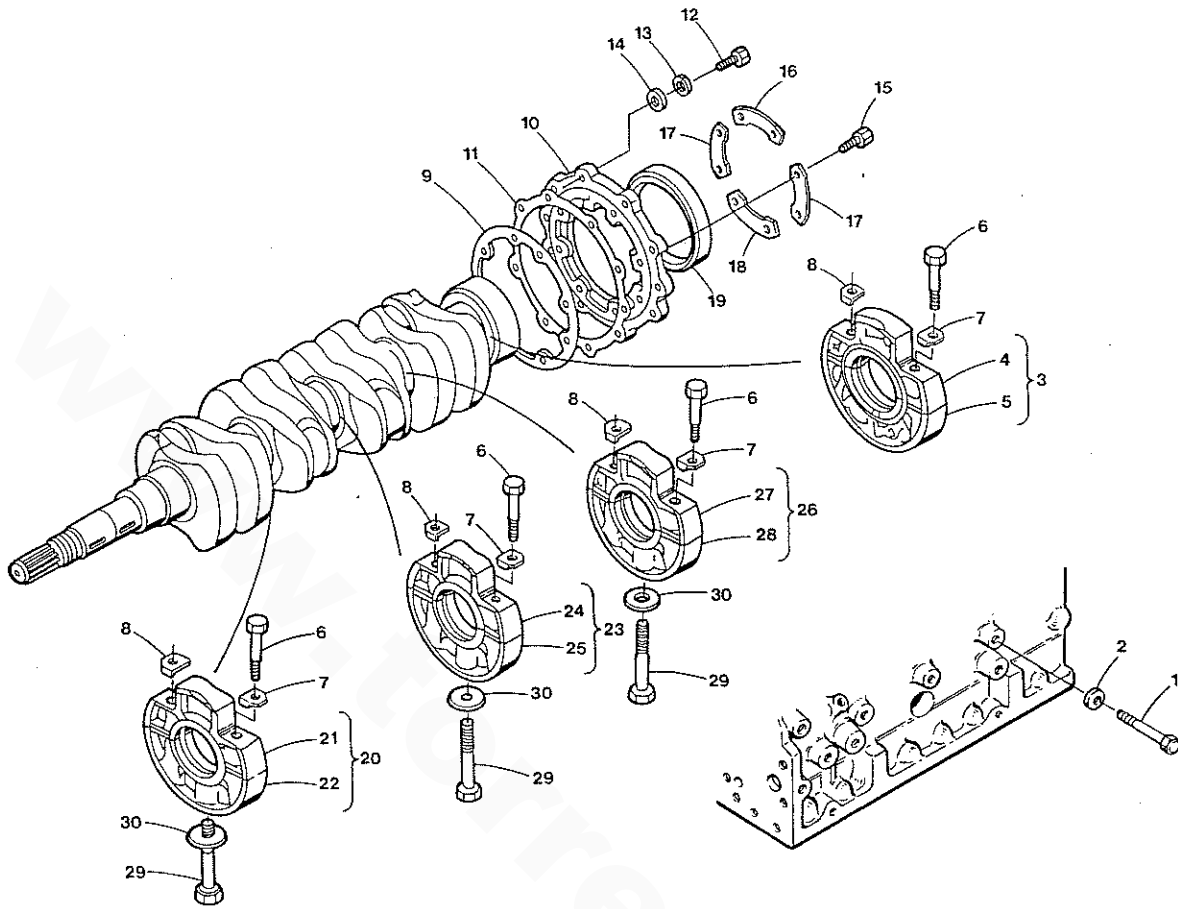
ITEM	PART NO.	DESCRIPTION	QTY.
1	300515	Assy. Case, Gear (Plus 1pc 301945)	1
2		Case, Gear	1
3		Plug, Pin	2
4	299395	Plug, Pin	1
5	299899	Cap, Sealing	1
6	299354	Cap, Sealing	1
7		Pipe, Water	1
8	299559	O Ring	3
9	301489	Pin, Start Spring	1
10	298840	Pipe, Water Return	1
11	298675	Gasket, Gear Case	1
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



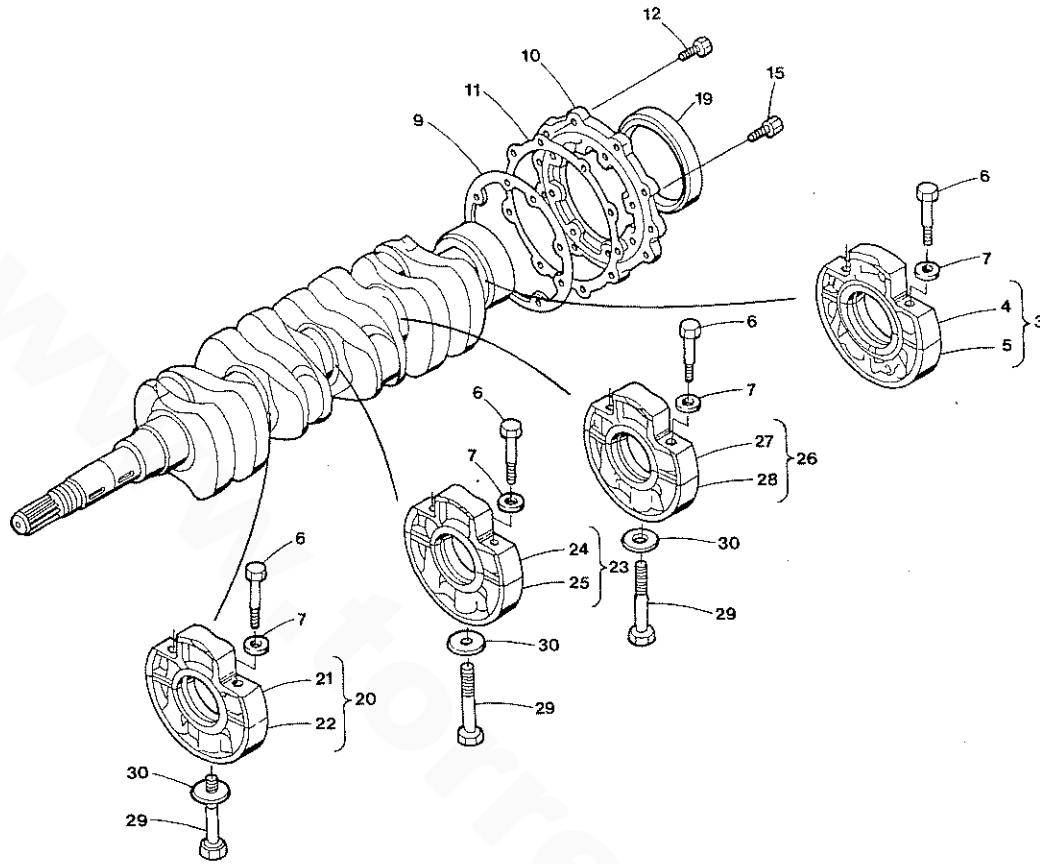
ITEM	PART NO.	DESCRIPTION	QTY.
25		Bolt	4
26	31784	Washer, Spring	4
27	299562	Gear, Oil Pump	1
28	298758	Key, Feather	1
29		Nut	1
30		Washer, Claw	1
31		Cover	1
32	298485	Gasket	1
33	298683	Stud	4
34	298684	Nut	4
35	31783	Washer, Spring	4
36	299542	Washer, Plain	4
37	298477	Adapter Plate, Raw Water Pump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



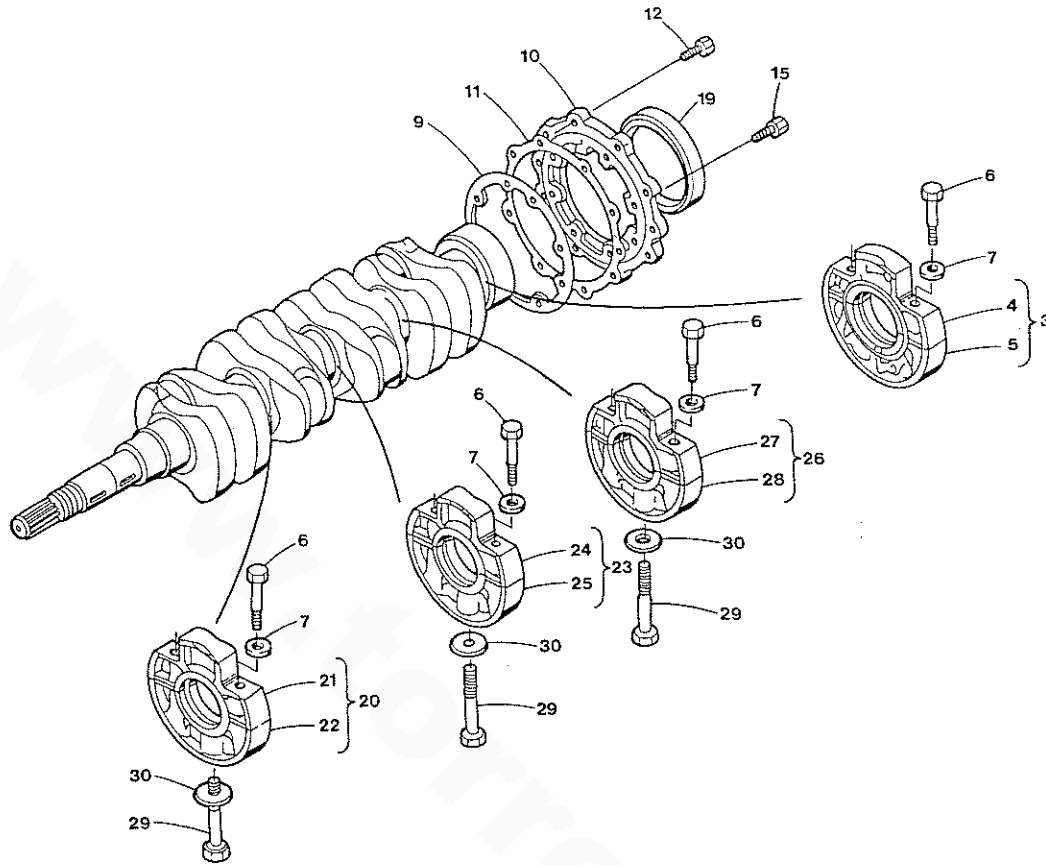
ITEM	PART NO.	DESCRIPTION	QTY.
1		Bolt, Knock	3
2	301495	Gasket	3
3	298685	Assy. Case, Bearing	1
4		Case, Main Bearing 1	1
5		Case, Main Bearing 2	1
6	298686	Bolt 1	8
7	298687	Washer 1	4
8	298688	Washer 2	4
9	298689	Gasket	1
10		Cover, Bearing	1
11		Gasket, Cover	1
12		Bolt	8
13	31786	Washer, Spring	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



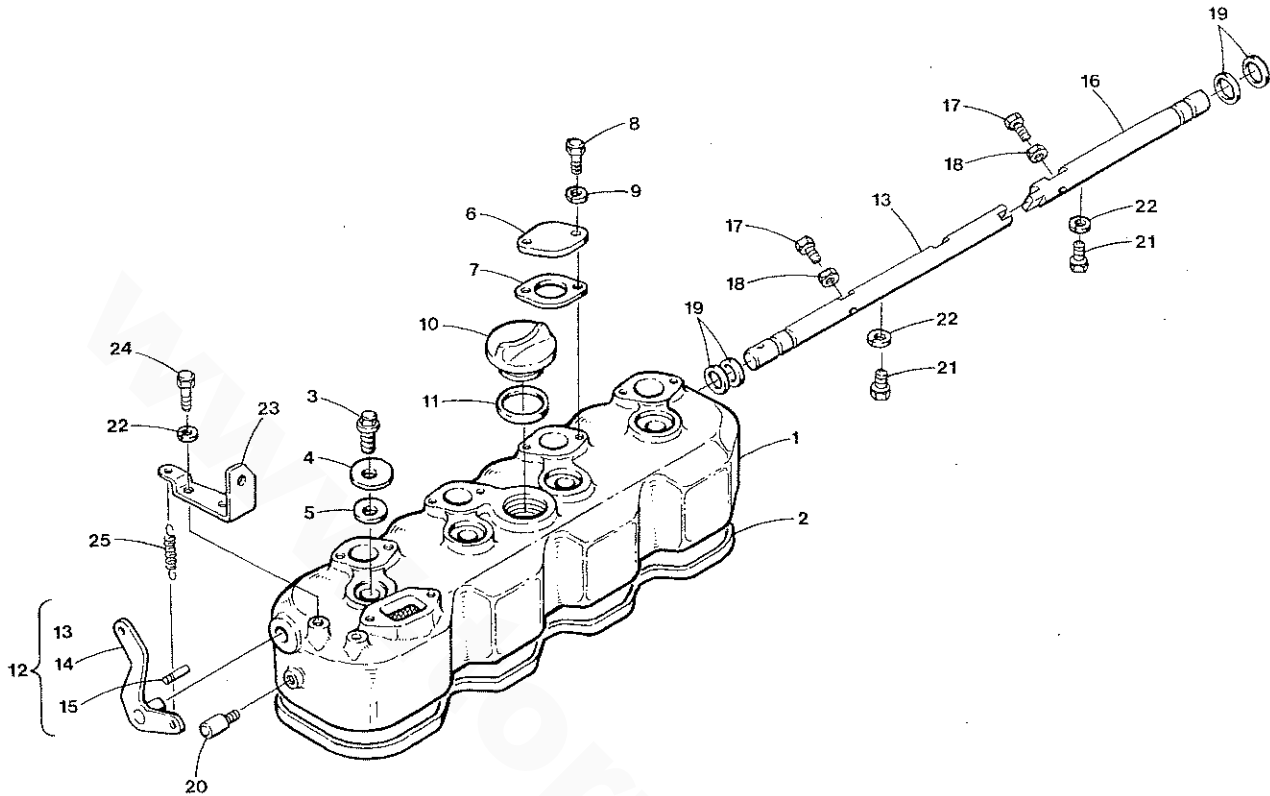
ITEM	PART NO.	DESCRIPTION	QTY.
25		Case, Bearing 2-2	1
26		Assy. Case, Main Bearing	1
27		Case, Bearing, 3-1	1
28		Case, Bearing 3-2	1
29	298697	Bolt 2	3
30	298698	Washer 3	3



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

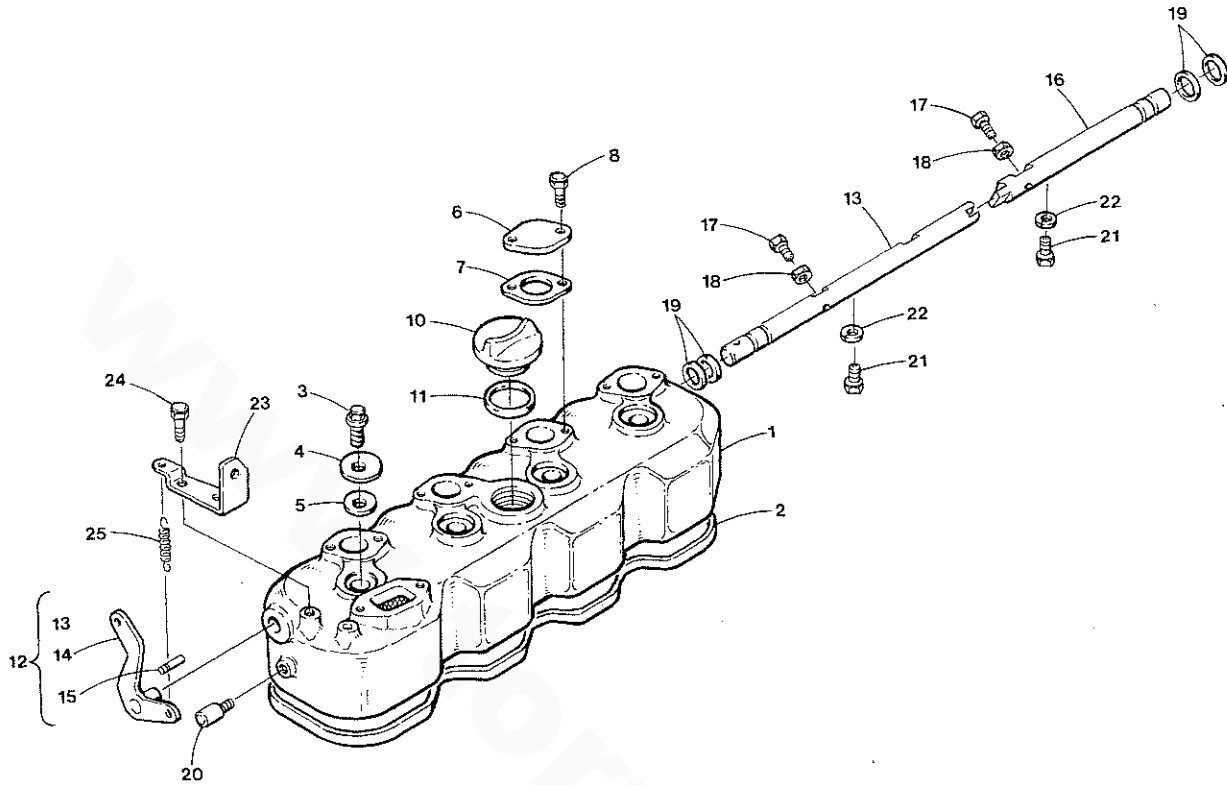


ITEM	PART NO.	DESCRIPTION	QTY.
24		Case, Bearing 2-1 / order by no. 23	1
25		Case, Bearing 2-2 / order by no. 23	1
26		Assembly Case, Main Bearing	1
27		Case, Bearing 3-1 / order by no. 26	1
28		Case, Bearing 3-2 / order by no. 26	1
29	298697	Bolt 2	3
30	298698	Washer, Plain	3



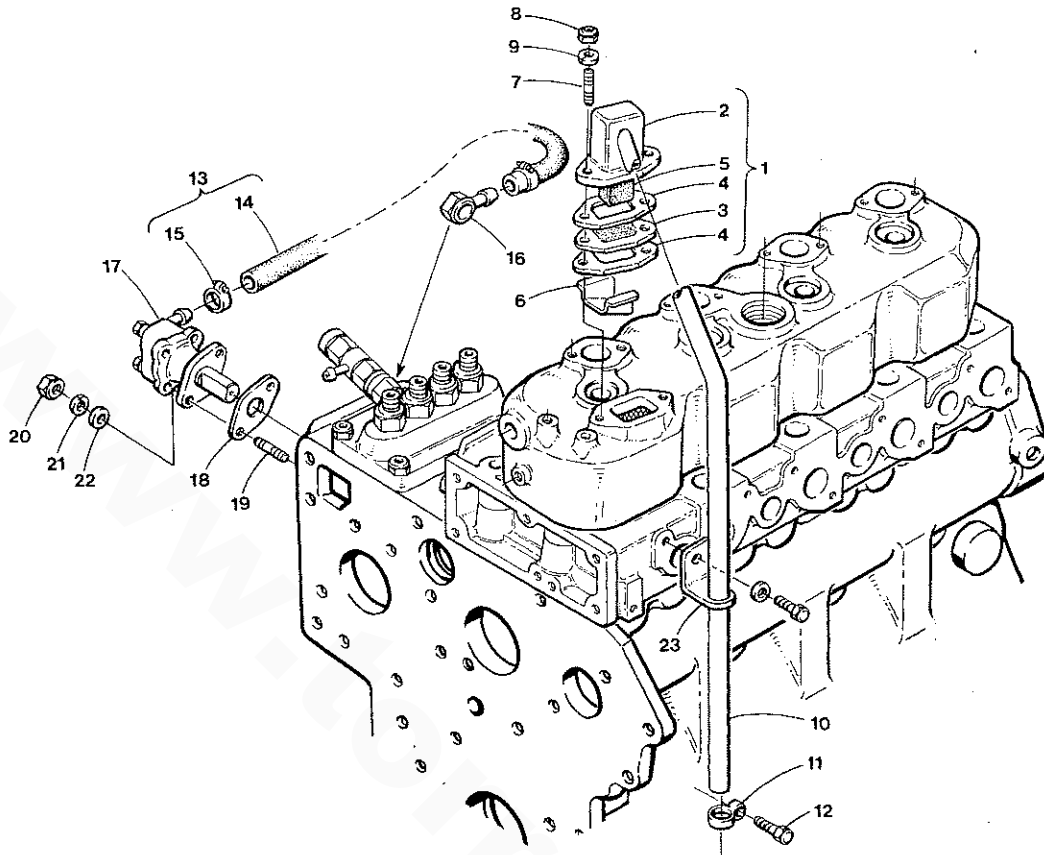
ITEM	PART NO.	DESCRIPTION	QTY.
1	299569	Cover, Cylinder Head	1
2	299570	Gasket, Head Cover	1
3	298726	Nut, Head Cover	4
4	298727	Washer, Head Cover	4
5	298728	Gasket, Nut	4
6	298729	Cover, Decompression Hole	4
7	298730	Gasket	4
8		Bolt	8
9		Washer, Spring	8
10	298739	Plug, Oil Filter	1
11	298740	O Ring	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



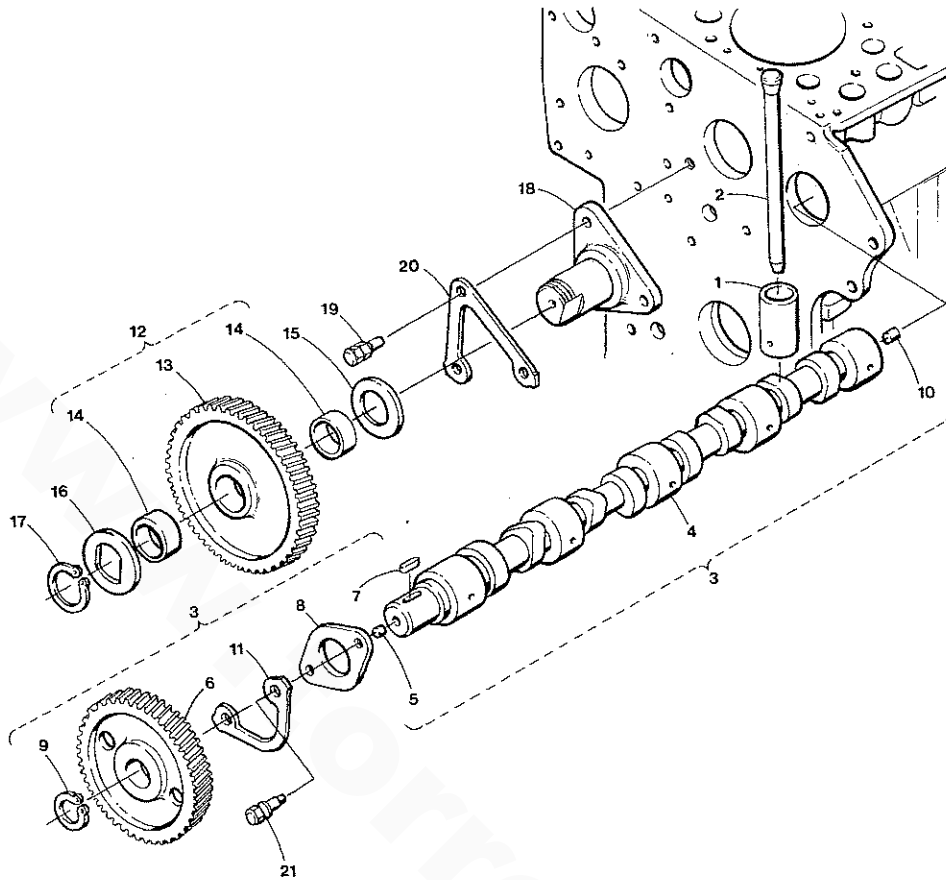


ITEM	PART NO.	DESCRIPTION	QTY.
1	299569	Cover, Cylinder Head	1
2	299570	Gasket, Head Cover	1
3	298726	Nut, Head Cover	4
4	298727	Washer, Head Cover	4
5	298728	Gasket, Nut	4
6	298729	Cover, Decompression Hole	4
7	298730	Gasket	4
8		Bolt	8
9			
10	298739	Plug, Oil Filter	1
11	298740	O Ring	1
12	299751	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

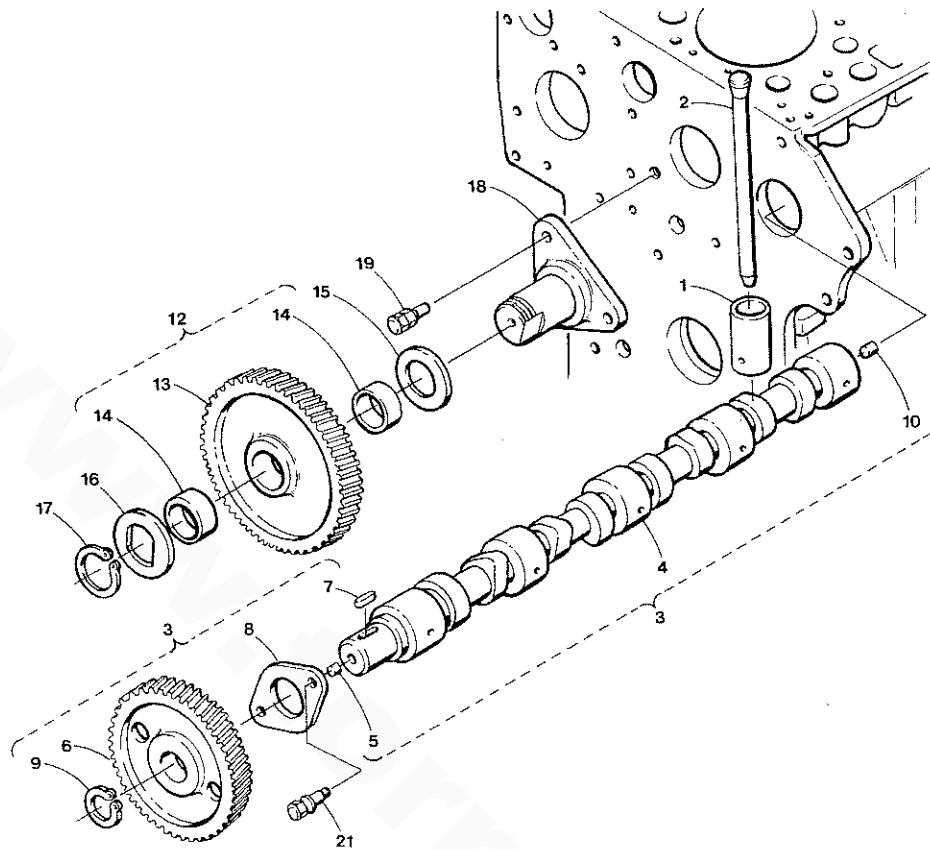
BREATHER



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

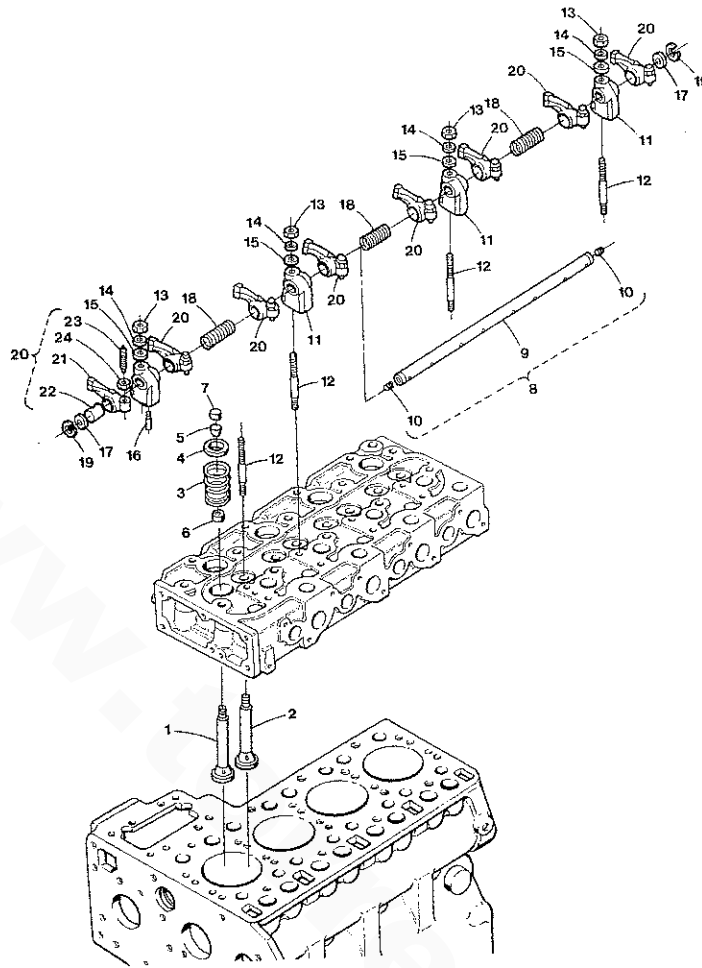


ITEM	PART NO.	DESCRIPTION	QTY.
1	298741	Tappet	8
2	298742	Rod, Push	8
3	299572	Assy. Camshaft	1
4		Camshaft	1
5	298744	Plug, Pin	1
6	298745	Gear, Camshaft	1
7	298746	Key, Feather	1
8	298747	Stopper, Camshaft	1
9	298748	Cir-Clip, External	1
10		Plug, Pin	1
11	298749	Washer, Stopper	1
12	298750	Assy. Gear, 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

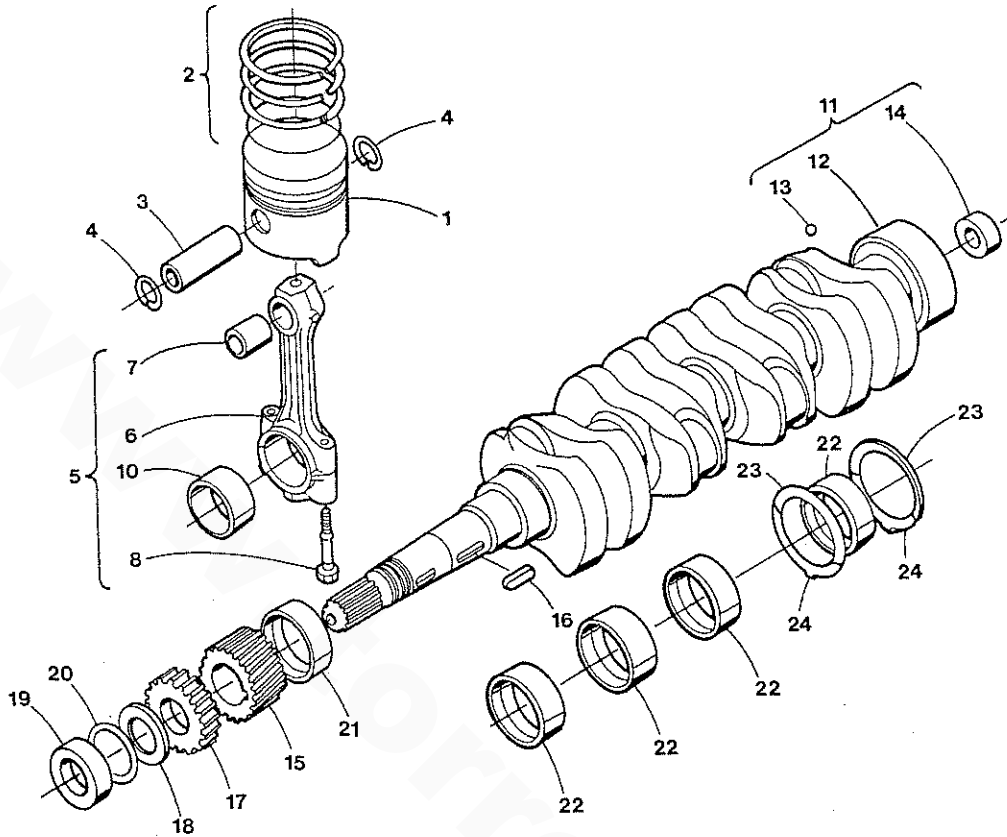


ITEM	PART NO.	DESCRIPTION	QTY.
1	298741	Tappet	8
2	298742	Rod, Push	8
3	299572	Assy. Camshaft	1
4		Camshaft / order by no. 3	1
5	298744	Plug, Pin	1
6	298745	Gear, Camshaft	1
7	298746	Key, Feather	1
8	298747	Stopper, Camshaft	1
9	298748	Cir-Clip, External	1
10		Plug, Pin	1
11			
12	298750	Assy. Gear, 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

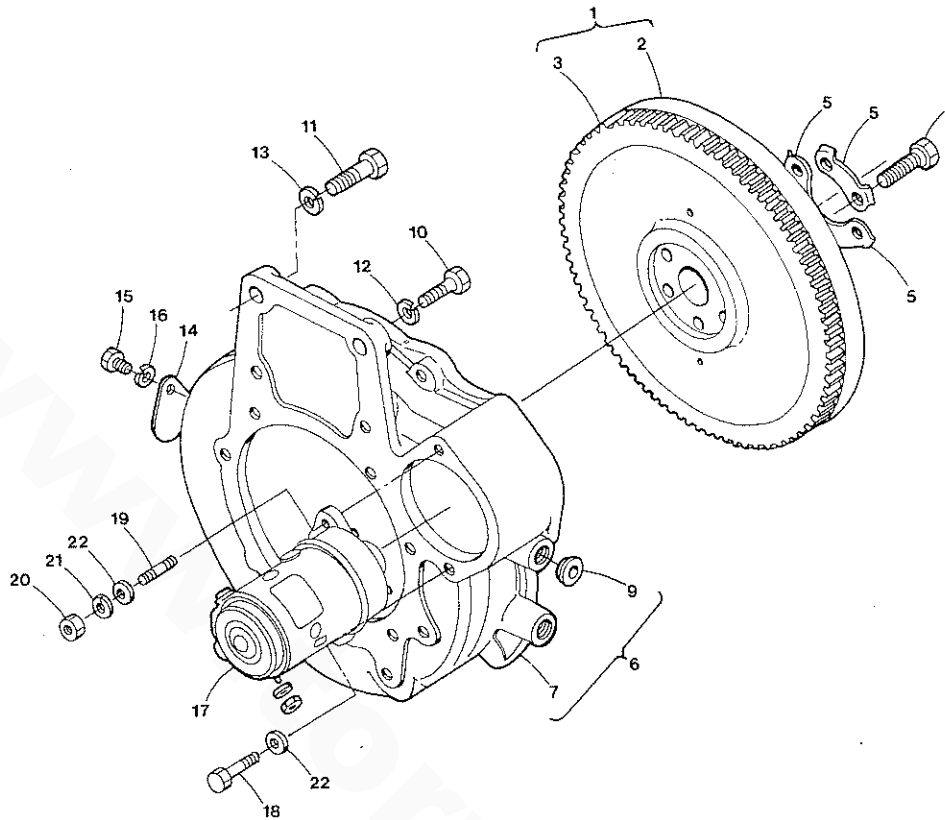
VALVE - ROCKER



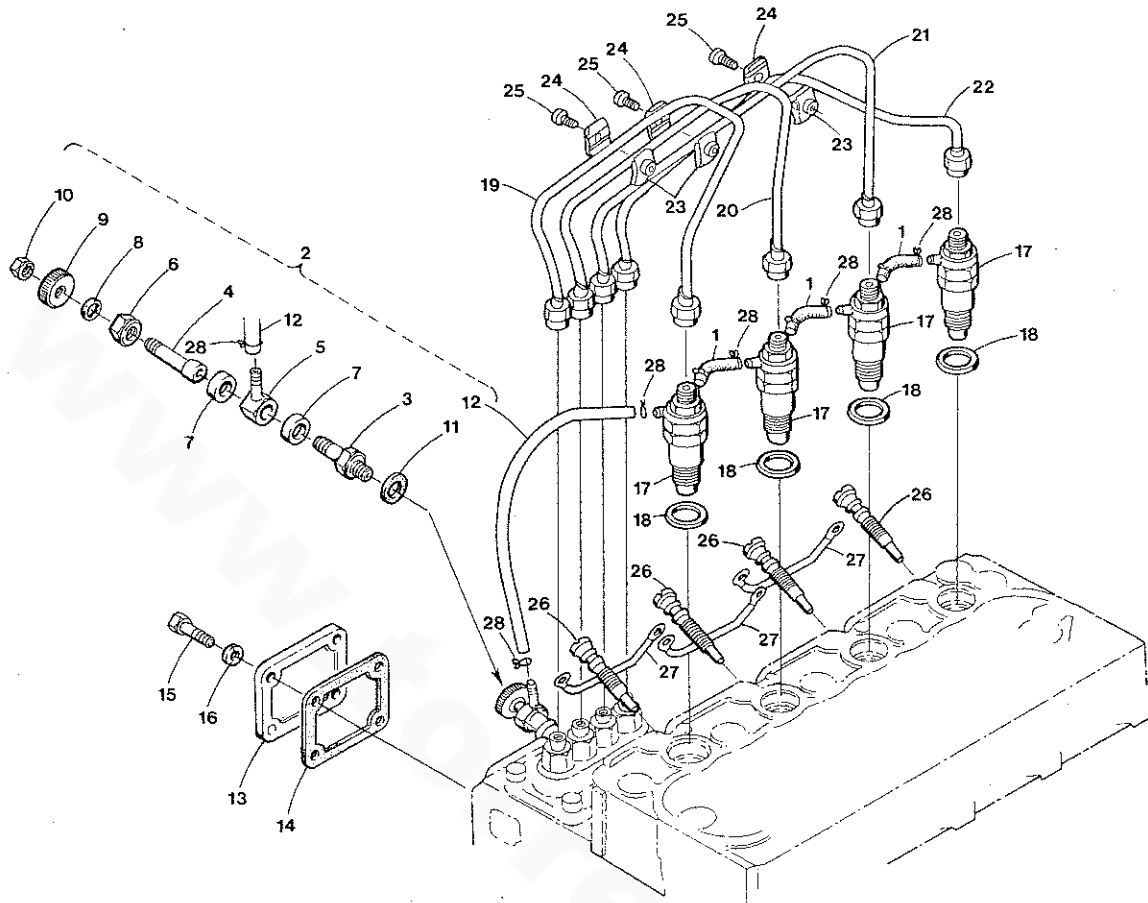
ITEM	PART NO.	DESCRIPTION	QTY.
1	298709	Valve, Inlet	4
2	298710	Valve, Exhaust	4
3	298711	Spring, Valve	8
4	298712	Retainer, Valve Spring	8
5	298713	Collet, Valve Spring	16
6	298714	Seal, Valve Stem	8
7	298715	Cap, Valve	8
8	299566	Assembly Shaft, Rocker Arm	1
9		Shaft, Rocker Arm/order by no. 8	1
10	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



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

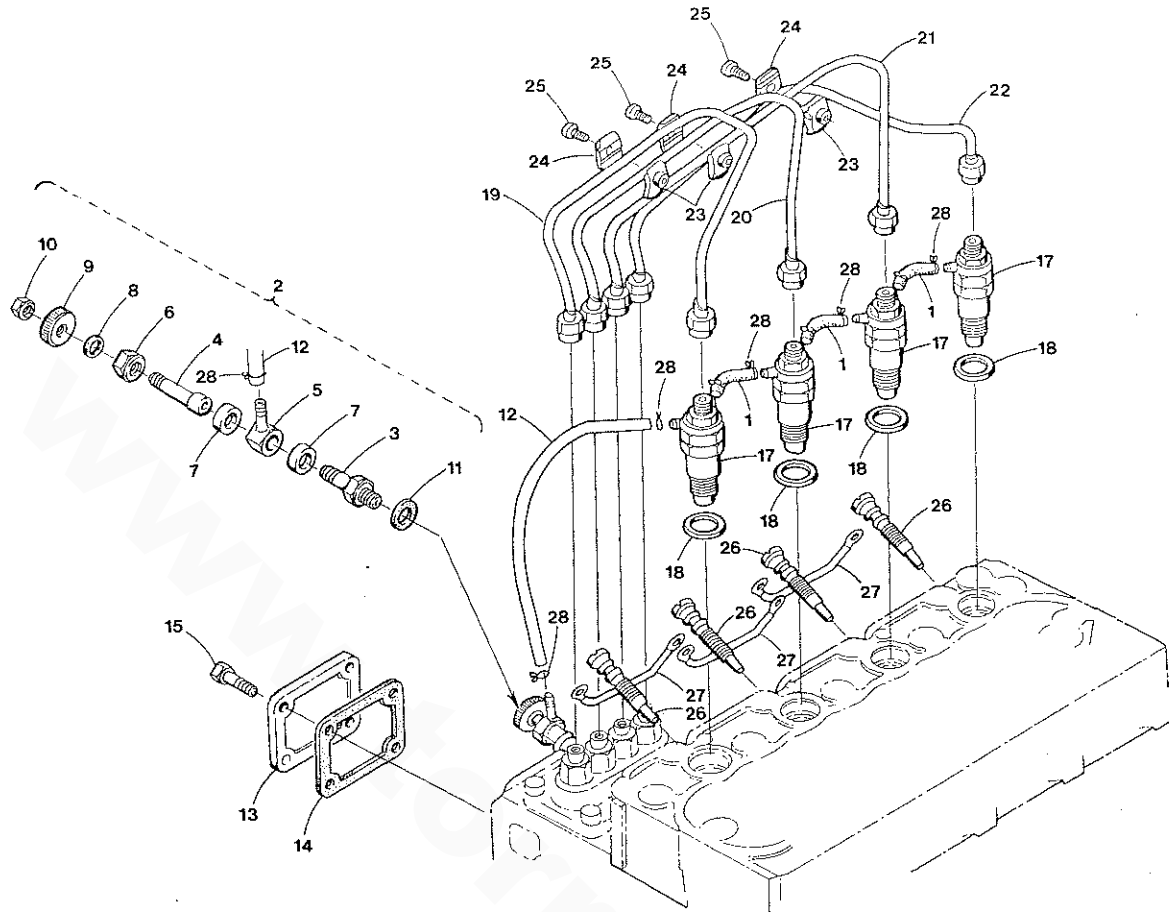


ITEM	PART NO.	DESCRIPTION	QTY.
1	299611	Assembly, Flywheel	1
2		Flywheel / order by no. 1	1
3		Gear, Ring	1
4	298780	Bolt, Flywheel	6
5	298781	Washer, Flywheel	3
6	298612	Assembly Housing, Flywheel	1
7		Housing, Flywheel / order by no. 6	1
8			
9	301717	Plug	4
10	301719	Bolt	11
11	301720	Bolt	2
12	19262	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

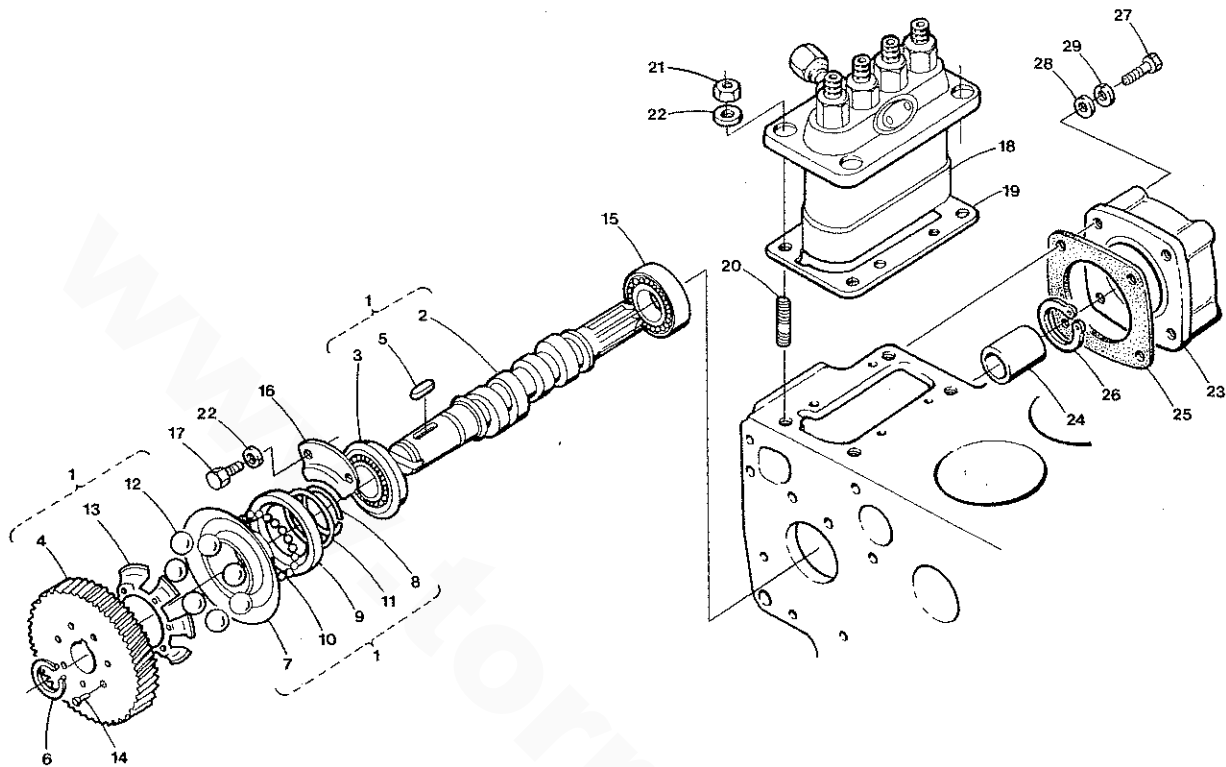


ITEM	PART NO.	DESCRIPTION	QTY.
1	298784	Pipe, Fuel Over Flow	3
2		Assy. Cock	1
3	Order By #2	Body, Cock	1
4	Order By #2	Valve	1
5	Order By #2	Joint, Eye	1
6	Order By #2	Nut, Cap	1
7	Order By #2	Gasket	2
8	Order By #2	O Ring	1
9	Order By #2	Knob	1
10	Order By #2	Nut	1
11	298659	Gasket	1
12		Pipe, Fuel 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

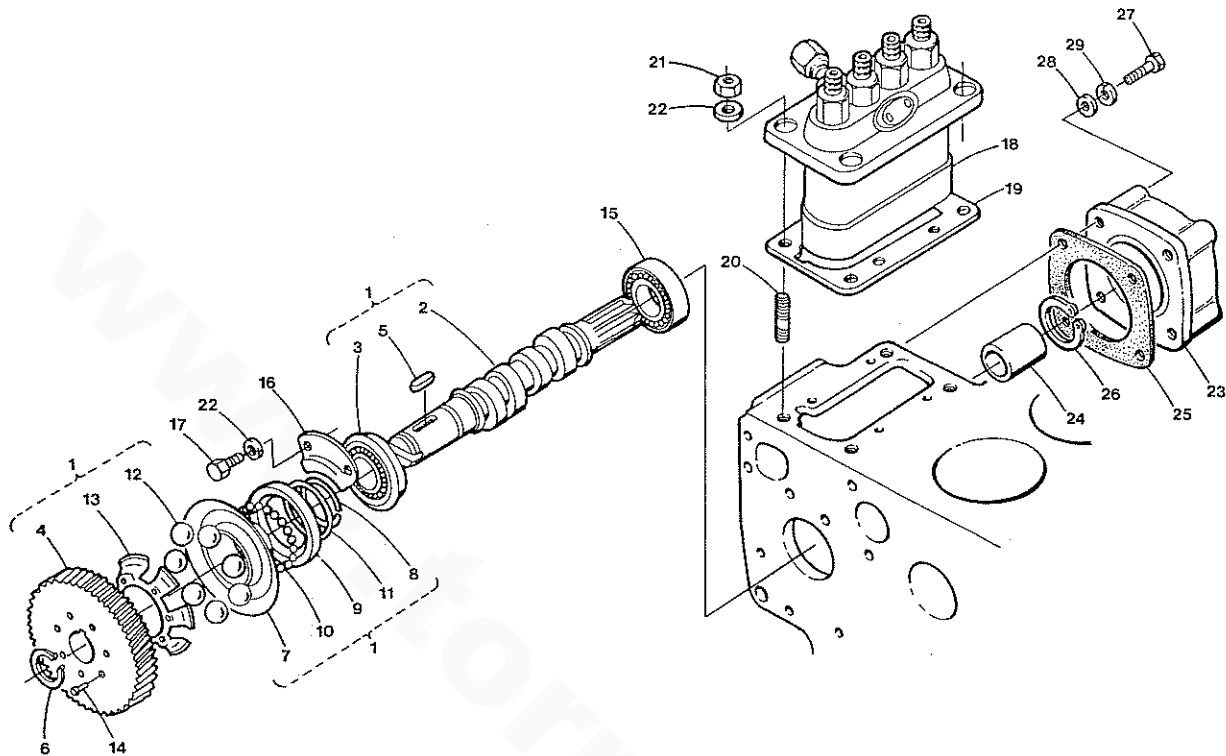




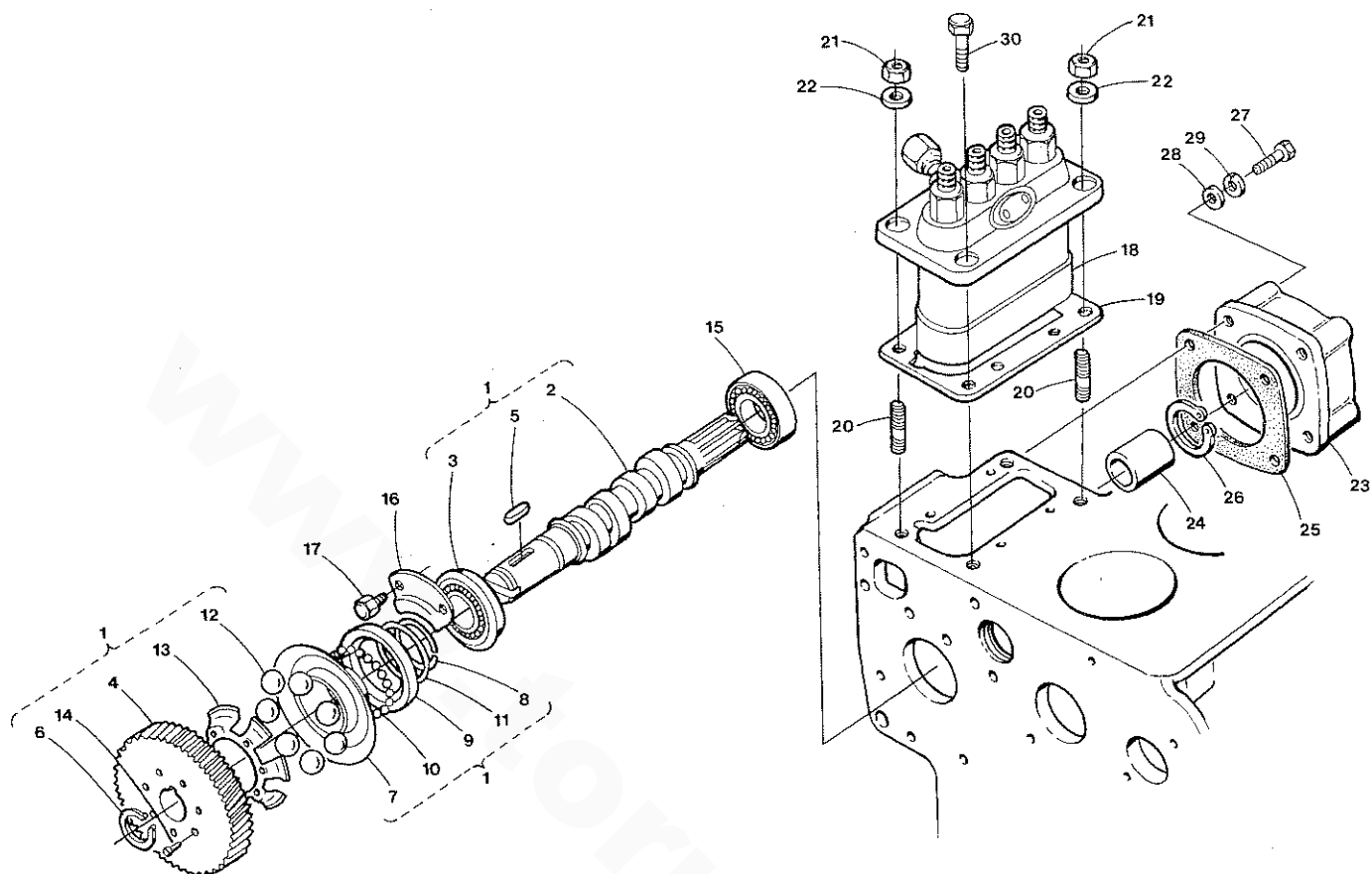
ITEM	PART NO.	DESCRIPTION	QTY.
1	298784	Pipe, Fuel Over Flow	3
2	299675	Assembly, Cock	1
3	300050	Body, Cock	1
4	299676	Valve	1
5		Joint, Eye	1
6		Nut, Cap	1
7		Basket	2
8	299677	O Ring	1
9	299678	Knob	1
10	299679	Nut	1
11	299786	Gasket	1
12		Pipe, Fuel Over Flow	1
13	298785	Cover, Injection Pump	1
14	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



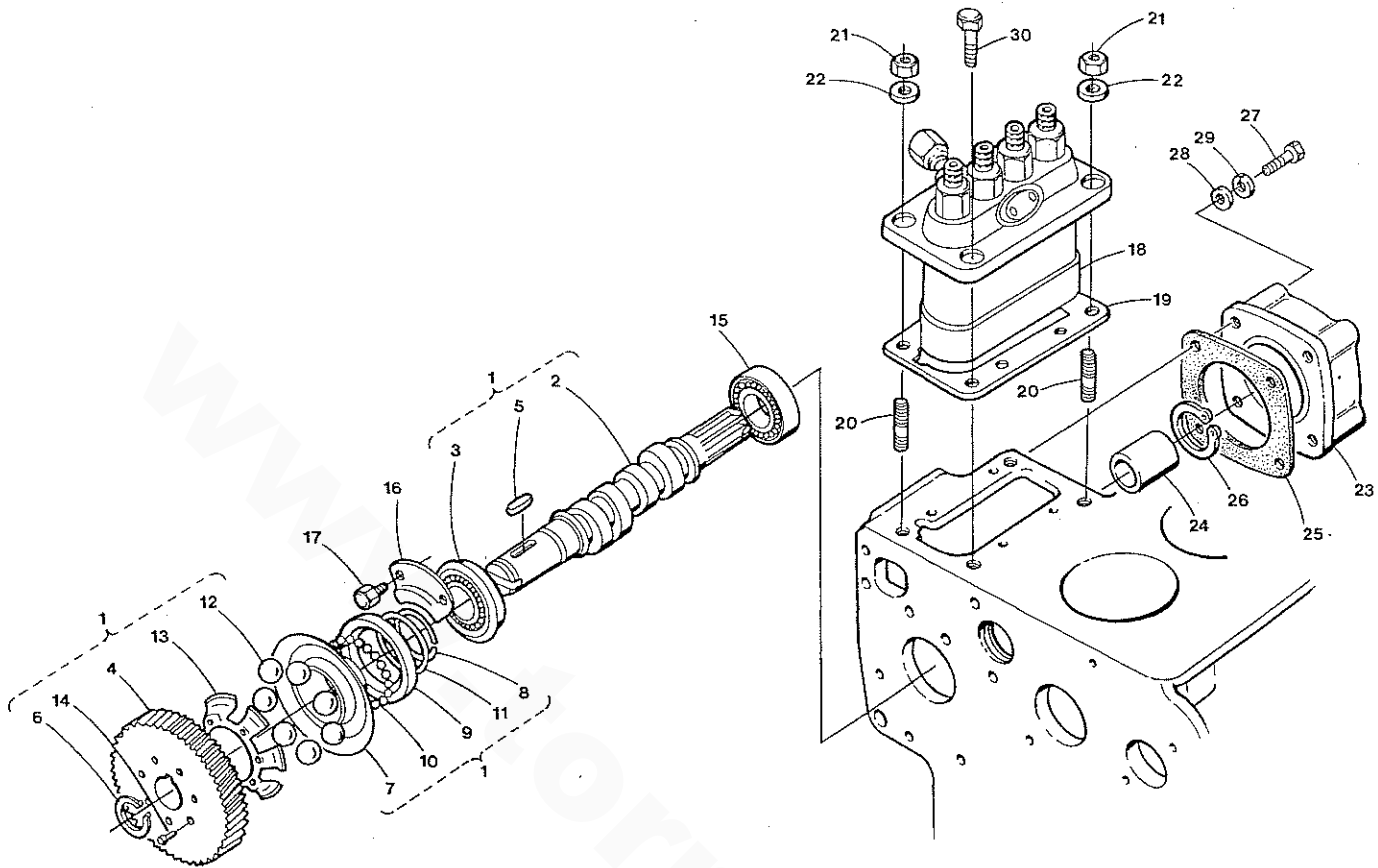
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assy. Camshaft, Fuel	1
2	299601	Camshaft, Fuel	1
3	298816	Bearing, Ball	1
4	299575	Gear, Injection Pump	1
5	298801	Key, Feather	1
6	298810	Cir-Clip, External	1
7	298802	Sleeve, Governor	1
8	298803	Cir-clip	1
9	298804	Case, Governor Ball	1
10	298805	Ball	39
11	298806	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

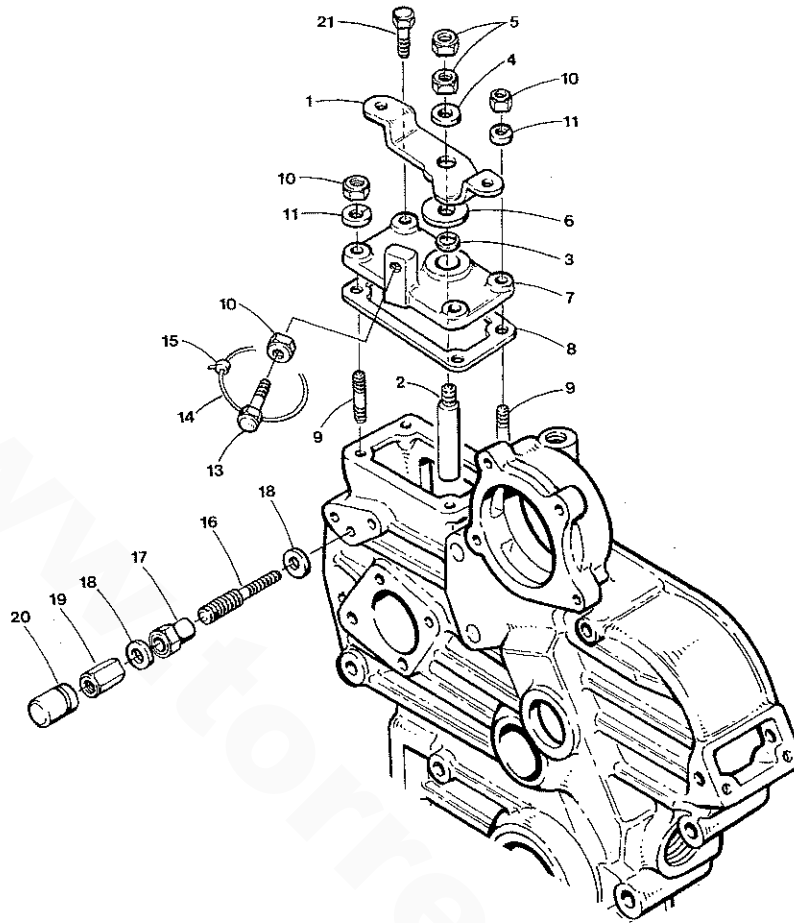


ITEM	PART NO.	DESCRIPTION	QTY.
1	299579	Assembly Camshaft, Fuel	1
2	299601	Camshaft, Fuel	1
3	298816	Bearing, Ball	1
4	299575	Gear, Injection Pump	1
5	298801	Key, Feather	1
6	298810	Cir-Clip, External	1
7	298802	Sleeve, Governor	1
8	298803	Cir-clip	1
9	298804	Case, Governor Ball	1
10	298805	Ball	39
11	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

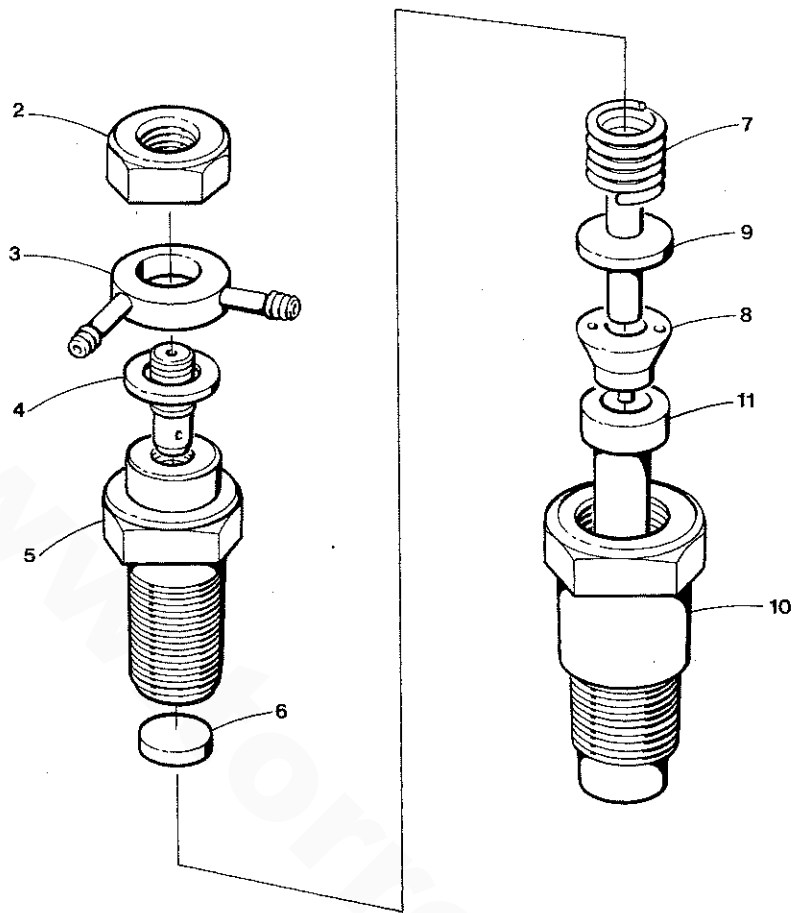


ITEM	PART NO.	DESCRIPTION	QTY.
24	298815	Collar	
25	298814	Packing	1
26	298817	Cir-Clip, External	4
27	298581	Bolt	4
28	298582	Washer, Plain	4
29	298583	Washer, Spring	4
30		Bolt	4

SPEED CONTROL PLATE

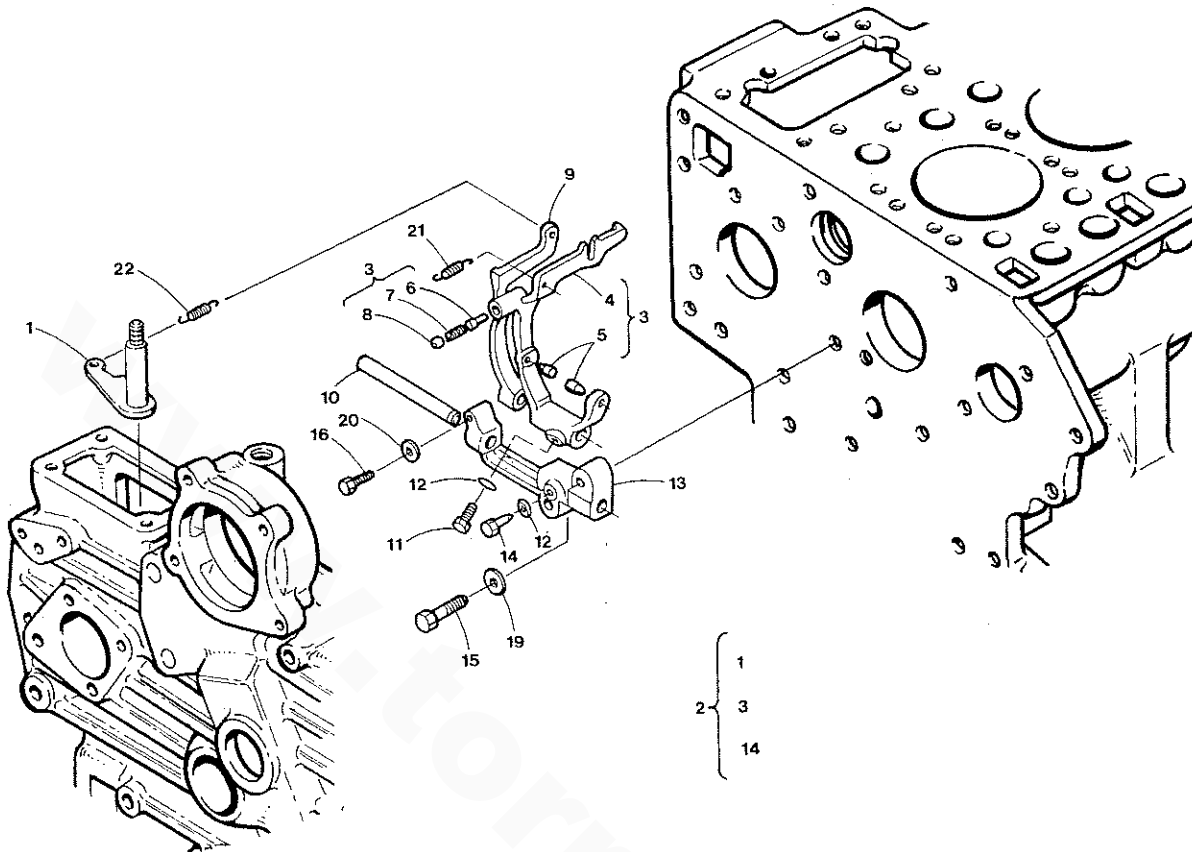


ITEM	PART NO.	DESCRIPTION	QTY.
1	299602	Lever, Speed Control	1
2	298820	Key, Feather	1
3	298821	O Ring	1
4	30031	Washer, Plain	1
5		Nut	2
6	298822	Plate, Friction	1
7	298823	Plate, Speed Control	1
8	298824	Gasket, Control Plate	1
9	298825	Stud	5
10	15812	Nut	3
11	31783	Washer, Spring	2
12			
13	298826	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



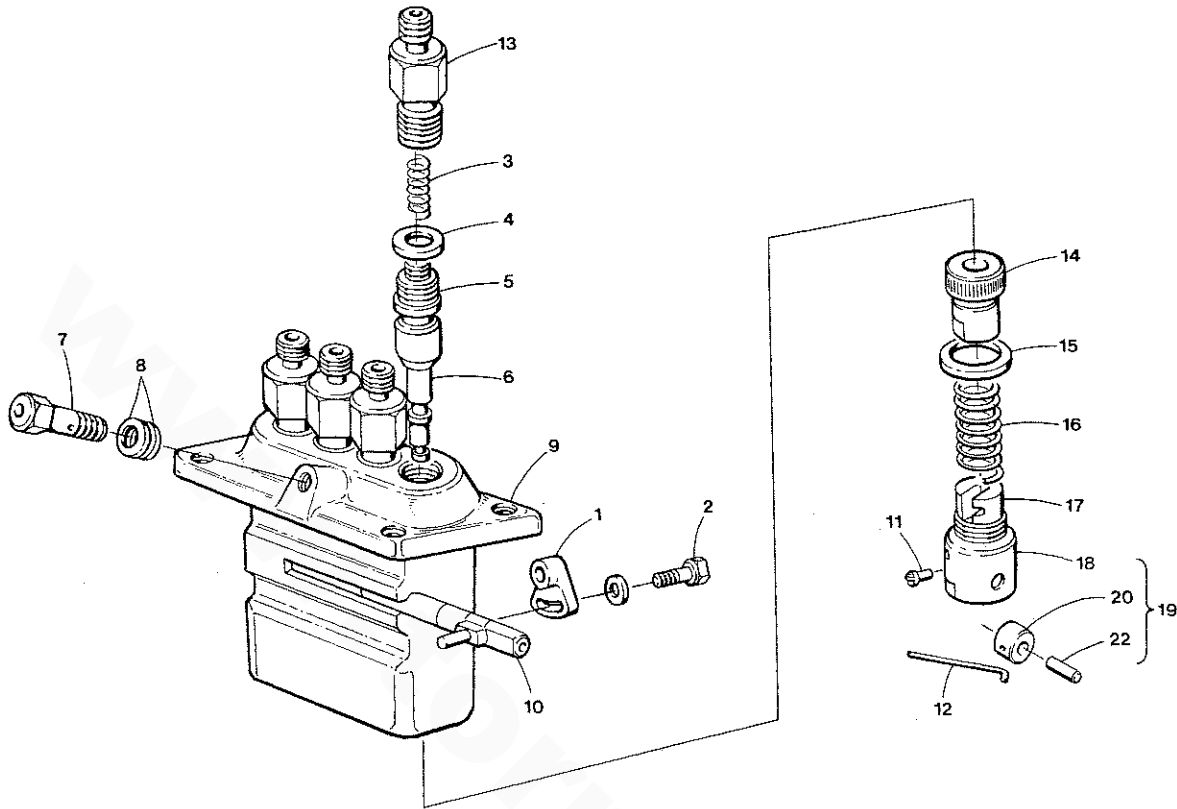
ITEM	PART NO.	DESCRIPTION	QTY.
1	299567	Assembly Holder, Nozzle	1
2	301508	Nut	1
3	301162	Joint, Eye	1
4	301137	Washer, Plain	1
5	Order By #1	Body, Nozzle Holder	1
6	301509	Washer, Adjusting	1
7	301510	Spring, Nozzle	1
8	301511	Piece, Distance	1
9	301512	Rod, Push	1
10	301513	Nut, Nozzle	1
11	301514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

GOVERNOR



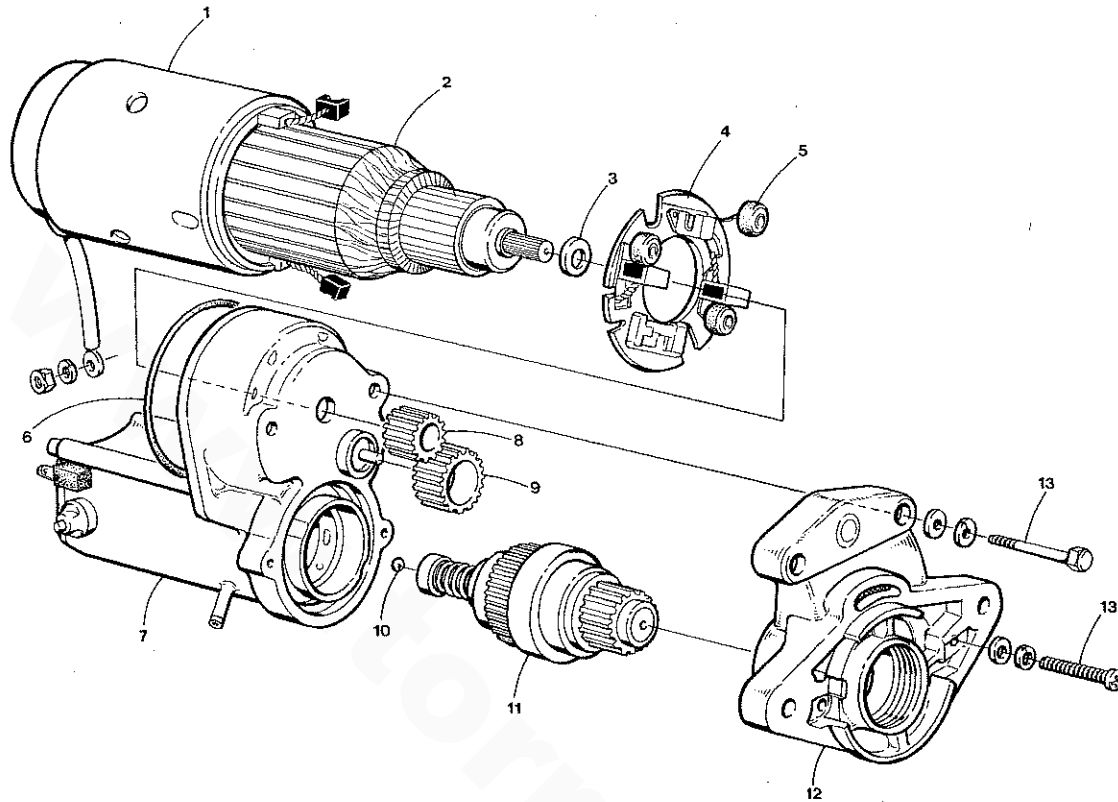
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly Lever, Governor	1
2		Assembly Lever, Fork	1
3	298604	Assembly Lever, Fork	1
4	299605	Lever, Fork	1
5		Pin, Lever Fork	2
6		Pin, Lever Fork	1
7	298834	Spring	1
8		Screw, Set	1
9		Lever, Fork	1
10	298832	Shaft, Fork Lever	1
11	298833	Bolt	1
12	31783	Washer, Spring	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



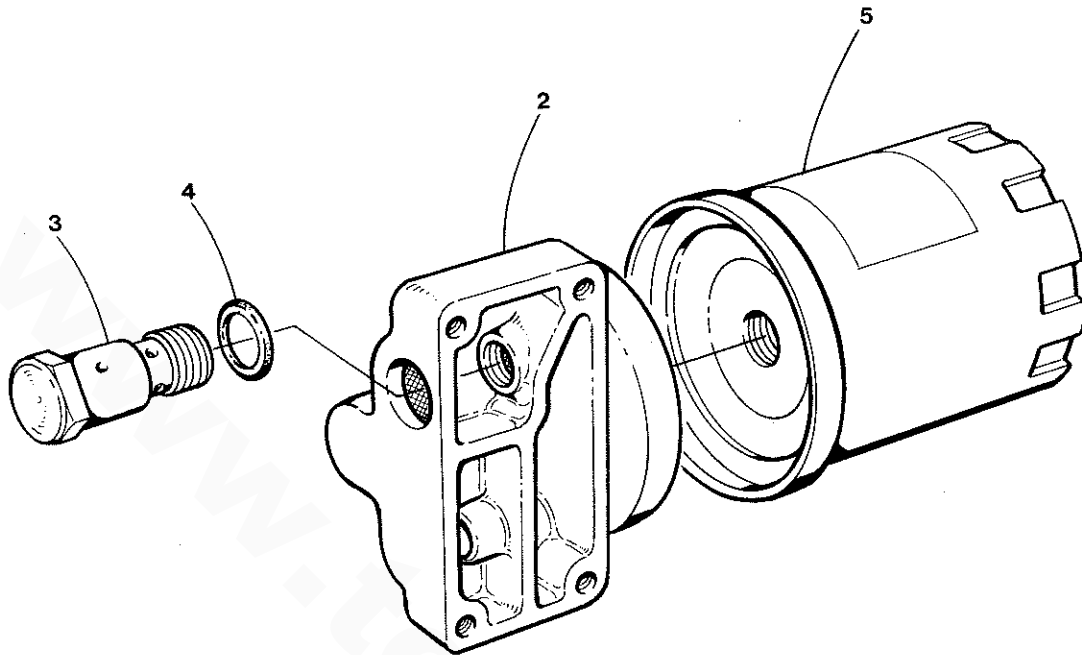


ITEM	PART NO.	DESCRIPTION	QTY.
1		Plate, Adjust	3
2		Bolt	3
3		Spring, Delivery Valve	4
4		Gasket, Delivery Valve	4
5		Valve, Delivery	4
6		Element, Pump	4
7	299872	Screw	1
8	299873	Gasket	2
9		Housing, Pump/order by no. 18	1
10		Rack, Control	1
11		Pin, Tappet Guide	4
12		Pin, Clamp	2
13		Holder, Delivery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

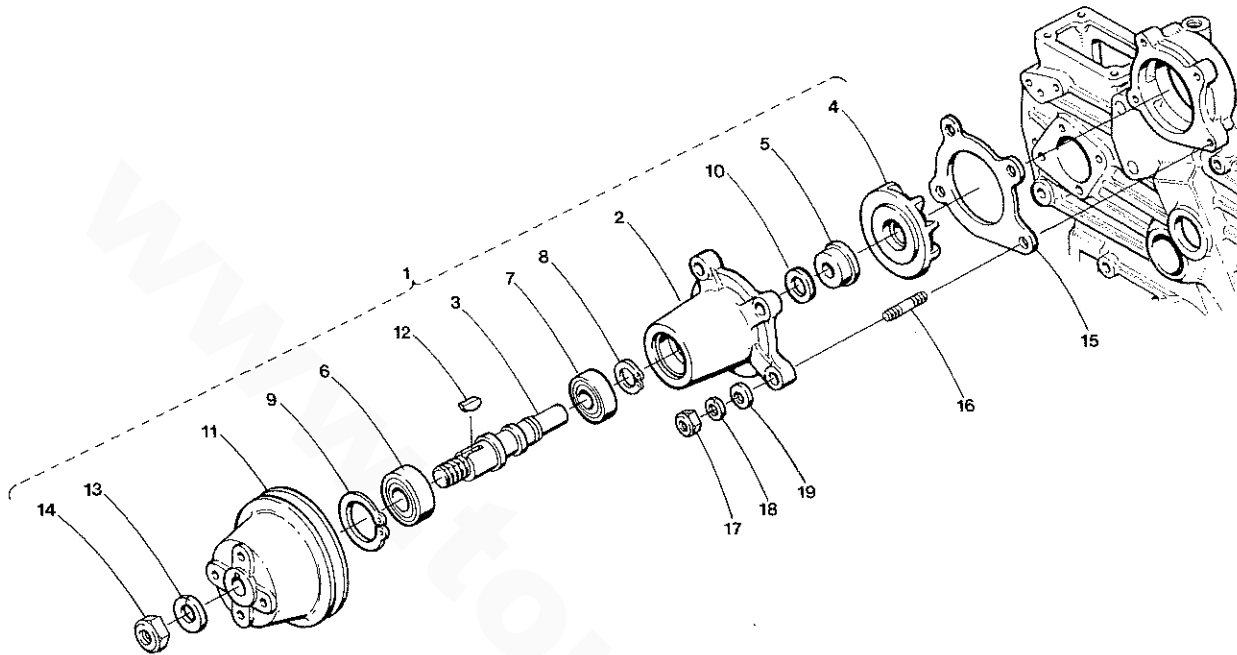
STARTER MOTOR



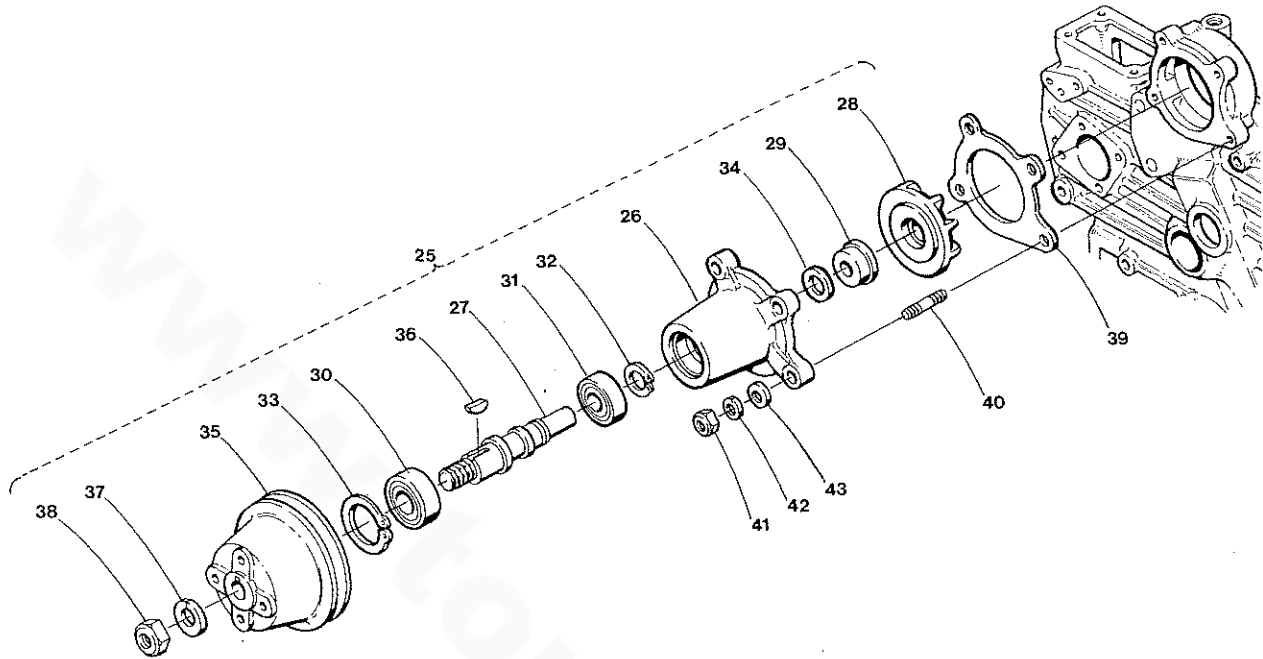
ITEM	PART NO.	DESCRIPTION	QTY.
1		Yoke	1
2	299840	Armature	1
3		Gasket	1
4	299841	Holder, Brush	1
5	299842	Spring, Brush	4
6		Gasket, Brush	1
7	299843	Switch, Magnet	1
8	299844	Gear 1	1
9	299845	Gear 2	1
10		Ball	1
11	299846	Clutch	1
12		Frame, Drive End	1
13		Bolt, Through	2
14		Screw	2
	299574	Assembly,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



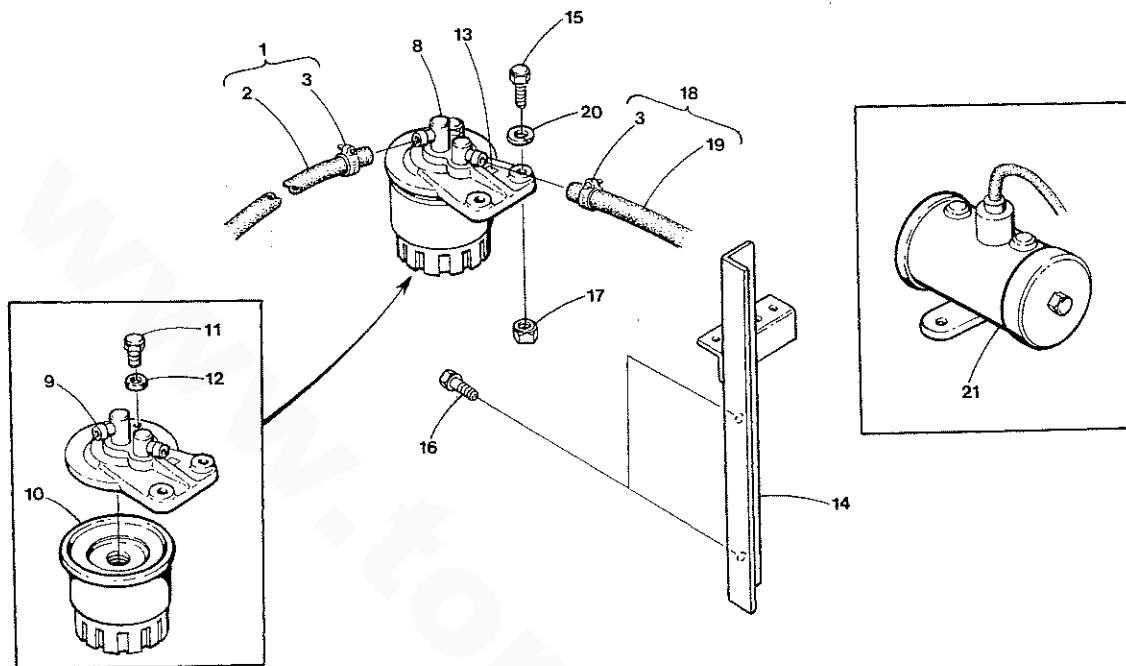
ITEM	PART NO.	DESCRIPTION	QTY.
1	298860	Assembly, Cover	1
2		Cover	1
3		Assembly, Valve, Relief	1
4		O Ring	1
5	299584	Cartridge, Filter	1



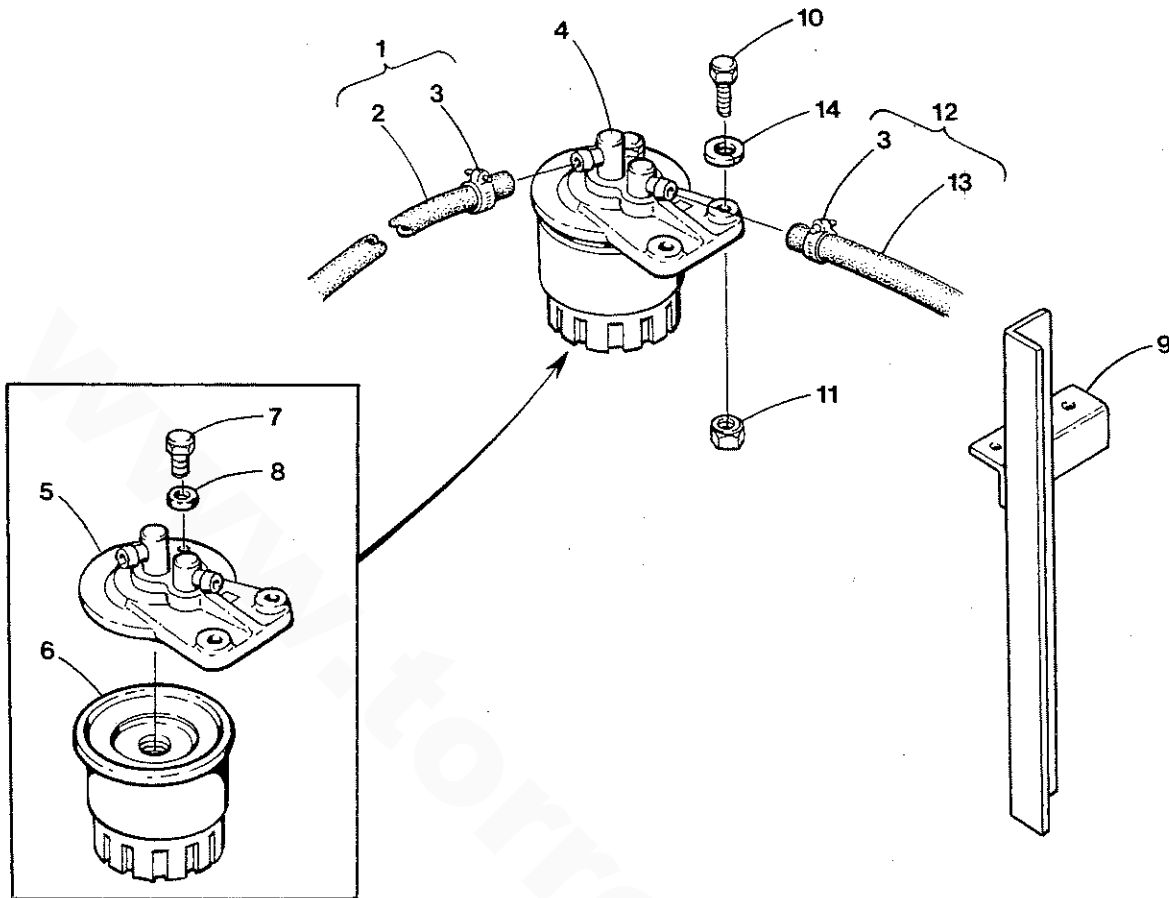
ITEM	PART NO.	DESCRIPTION	QTY.
1	298845	Water Pump Assembly	1
2		Body, Water Pump	1
3		Shaft, Water Pump	1
4	300043	Impeller, Water Pump	1
5	300044	Set Seal	1
6		Bearing, Ball	1
7		Bearing, Ball	1
8		Cir-Clip, External	1
9		Cir-Clip, Internal	1
10		Slinger	1
11		Pulley	1
12		Key, Woodruff	1
13	298722	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



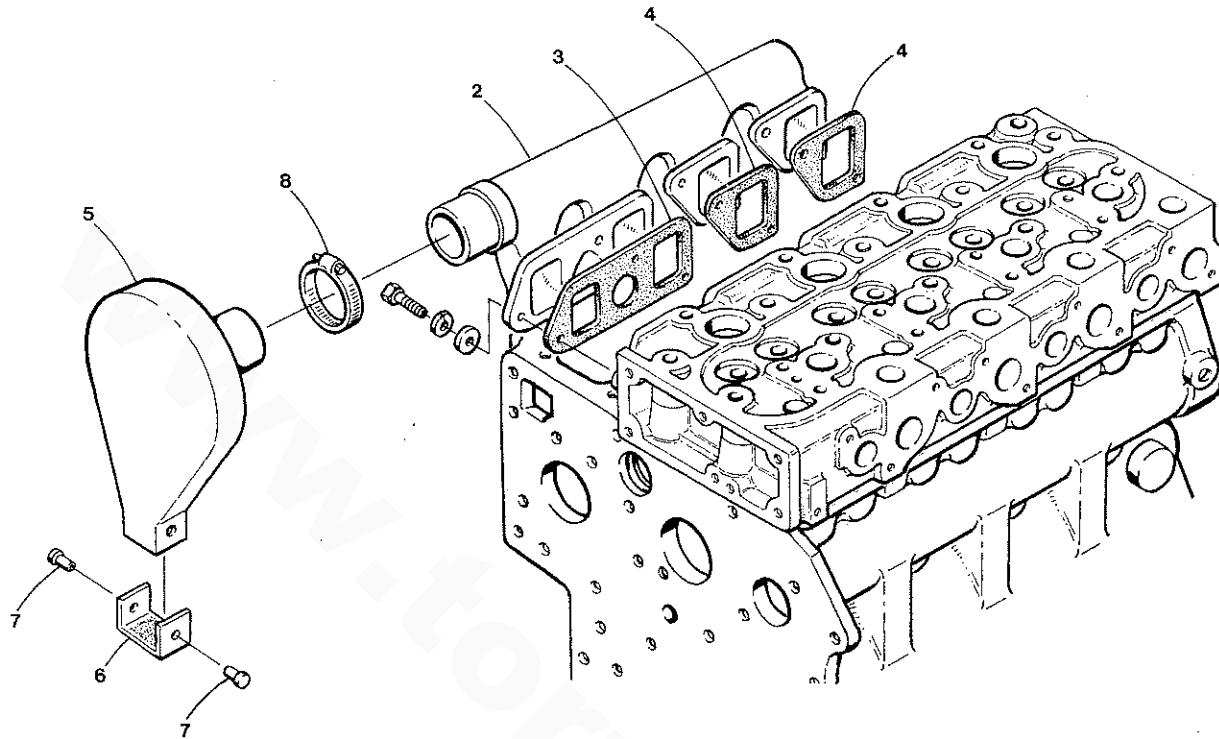
ITEM	PART NO.	DESCRIPTION	QTY.
25	298845	Water Pump Assembly	1
26		Body, Water Pump	1
27		Shaft, Water Pump	1
28		Impeller, Water Pump	1
29		Set Seal	1
30		Bearing, Ball	1
31		Bearing, Ball	1
32		Cir-Clip, External	1
33		Cir-Clip, Internal	1
34		Slinger	1
35		Pulley	1
36		Key, Woodruff	1
37		Washer, 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

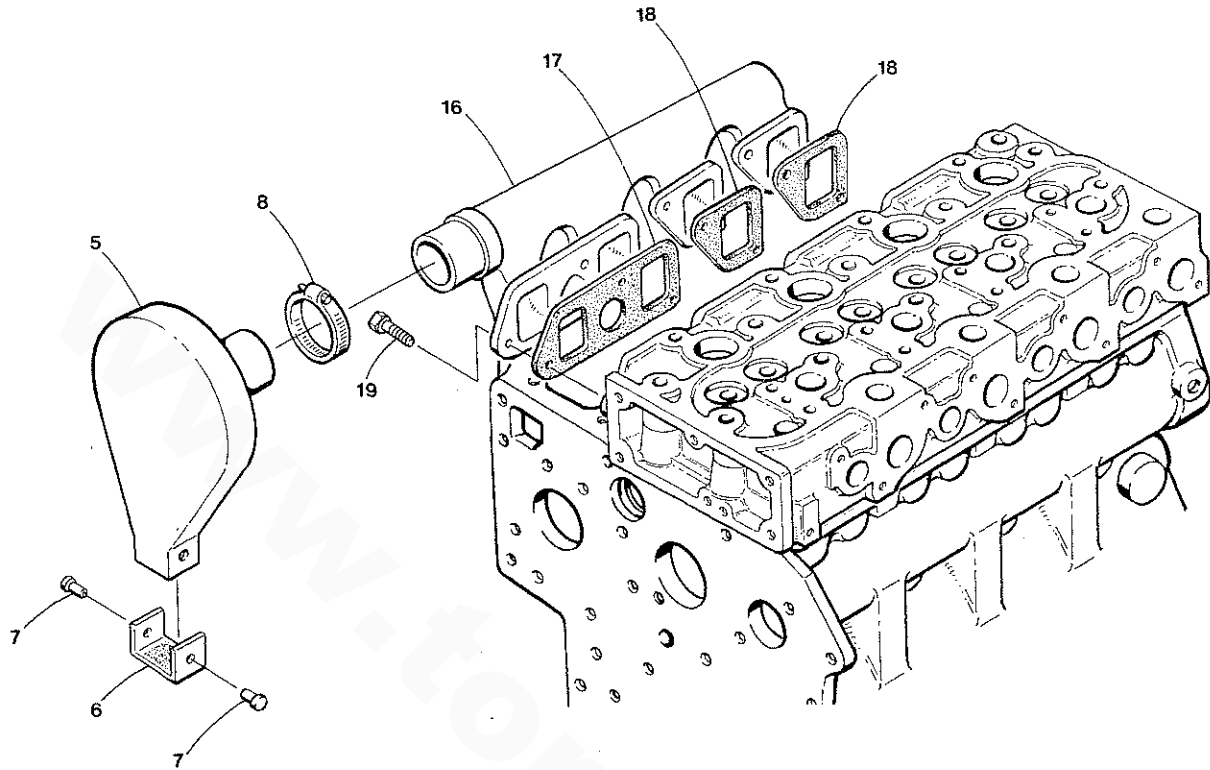


ITEM	PART NO.	DESCRIPTION	QTY.
1		Fuel Supply Hose Assembly	1
2		Hose, Fuel	1
3	298605	Clamp, Hose	2
4	298853	Fuel Filter Assembly	1
5		Cover, Filter	1
6	298854	Element, Fuel Filter	
7	299855	Plug, Filter Breather	1
8	299856	O Ring	1
9	299262	Bracket	1
10	231059	Bolt	2
11	230142	Nut	2
12		Fuel Hose Assembly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

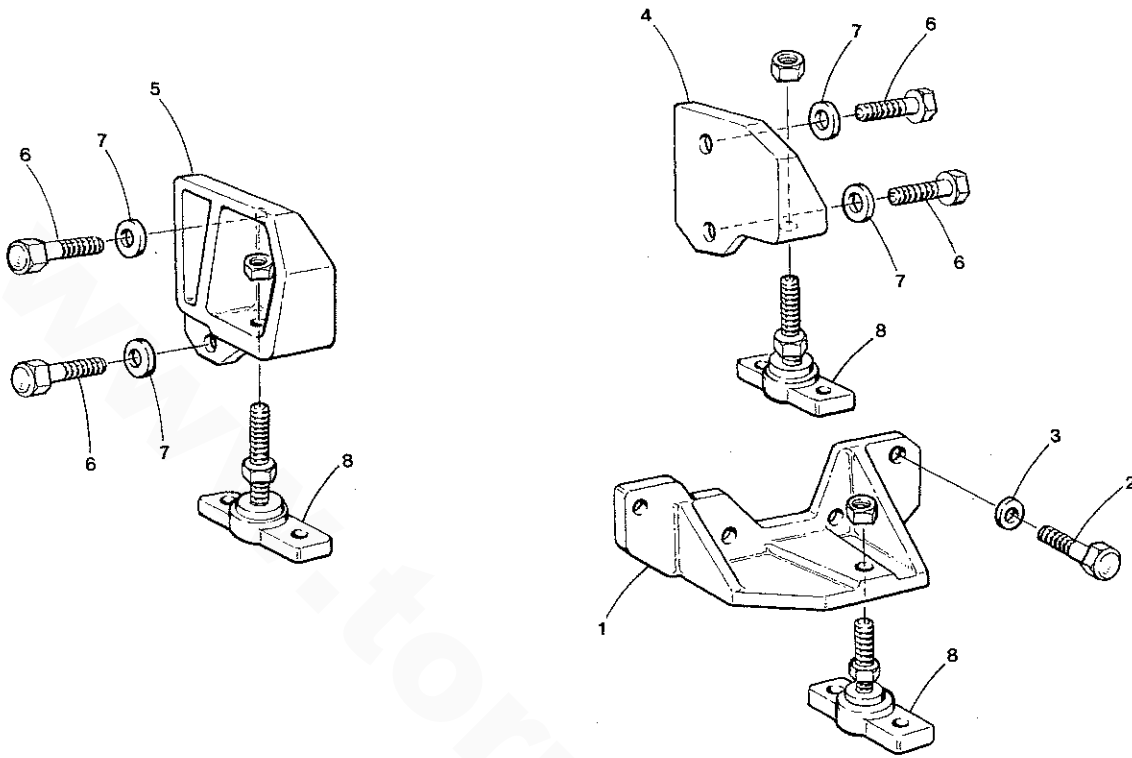


ITEM	PART NO.	DESCRIPTION	QTY.
1		Air Cleaner Assembly	1
2	299563	Manifold, Inlet	1
3	298705	Gasket	1
4	298865	Gasket, Intake Manifold	2
5	298548	Air Silencer	1
6	298563	Screen, Air Silencer	1
7	239158	Pop Rivet	2
8	298604	Clamp, Adjustable	1





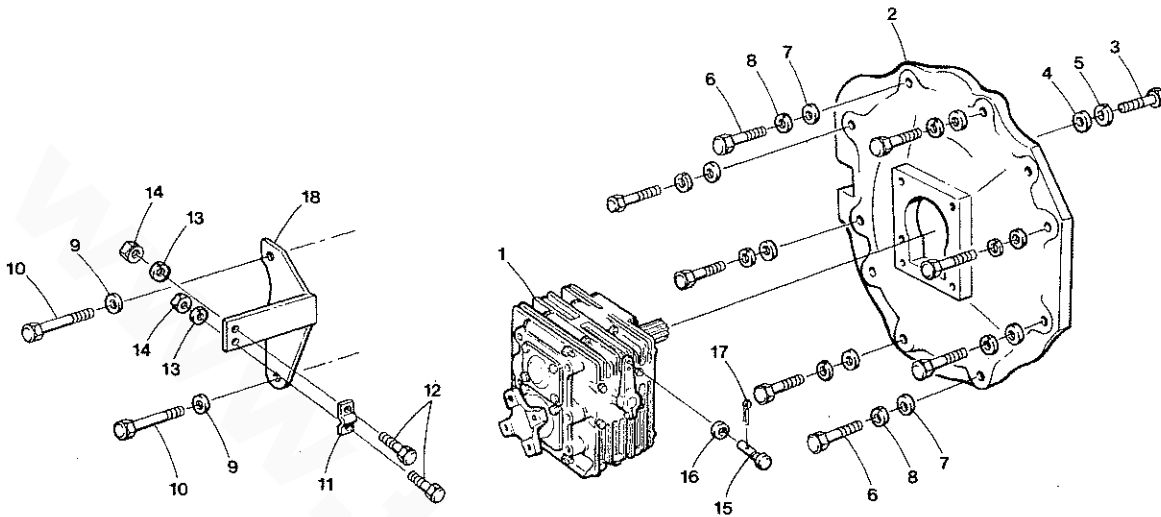
ITEM	PART NO.	DESCRIPTION	QTY.
1		Assembly, Air Cleaner	1
2			
3			
4			
5	298548	Air Silencer	1
6	298563	Screen, Air Silencer	1
7	239158	Pop Rivet	2
8	298604	Clamp, Adjustable	1
9			
10			
11			
12			
13			
14			
15			
16	299563	Manifold, Inlet	1
17	298705	Gasket	1
18	298865	Gasket, Intake Manifold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



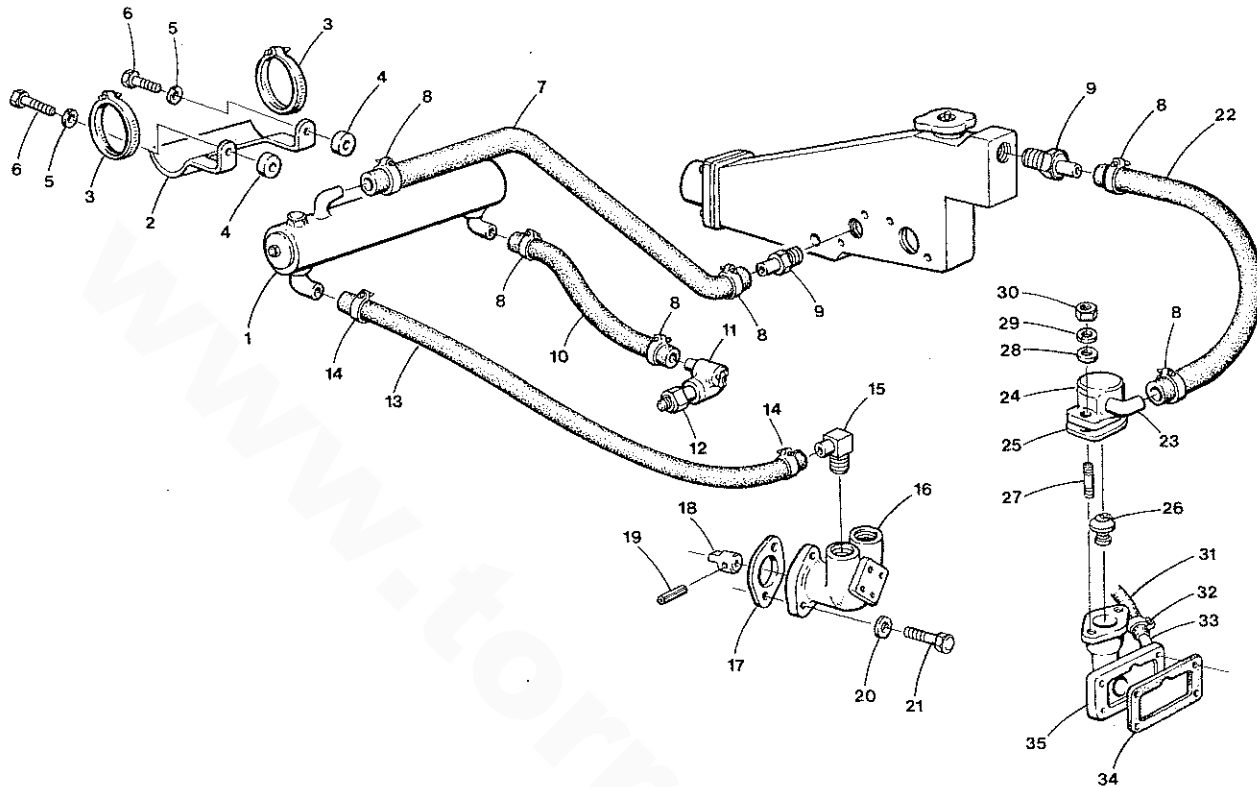
ITEM	PART NO.	DESCRIPTION	QTY.
1	298515	Mounting Bracket - Front	1
2	298506	Hex Hd Cap Screw ( 10MM x 30MM Lg)	4
3	298463	Lock Washer - Split (10MM Screw)	4
4	298517	Mounting Bracket - Rear L.H.	1
5	298519	Mounting Bracket - Rear R.H.	1
6	298464	Hex Hd. Cap Screw (14MM x 35MM Lg)	4
7	298465	Lock Washer - 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.

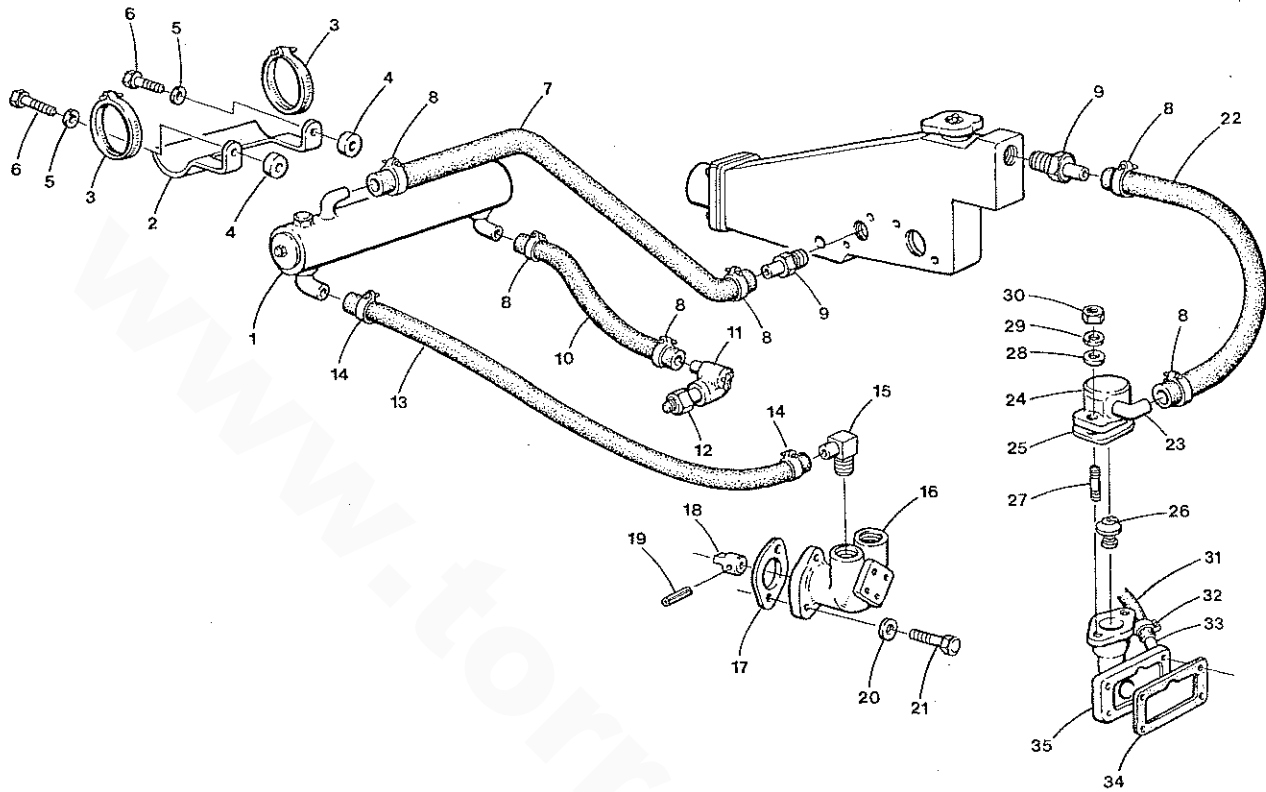
TRANSMISSION GROUP



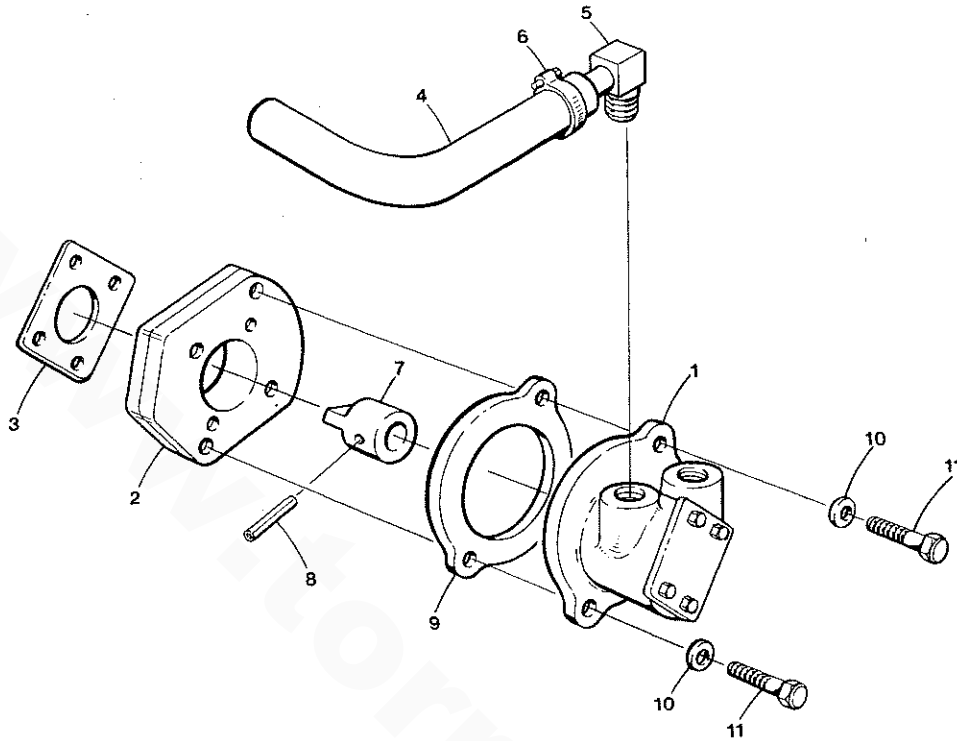
ITEM	PART NO.	DESCRIPTION	QTY.
1	300116	Reverse Gear Box, Complete	1
2	298523	Bell Housing, Reverse Gear	1
3	298468	Hex Hd. Cap Scr ( 8MM x 1.25P x 25MM Lg)	6
4	231875	Flat Washer, SAE 5/16	6
5	298461	Washer, Lock (8MM Screw)	6
6	298616	Hex Hd. Cap Scr (10MM x 50MM Lg)	6
7	298456	Flat Washer (.413 I.D.)	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



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

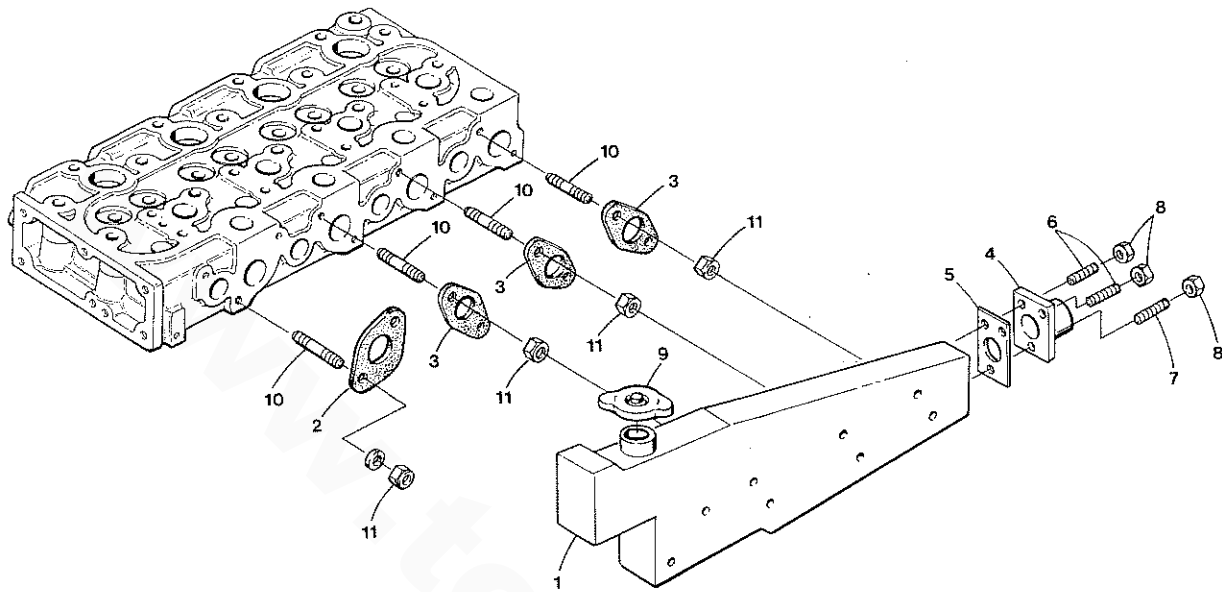


ITEM	PART NO.	DESCRIPTION	QTY.
24	298583	Thermostat Housing	1
25	298843	Gasket, Thermostat Housing	1
26	299798	Thermostat Element	1
27		Stud	2
28		Washer, Plain	2
29		Washer, Lock Split	2
30		Hex Nut	2
31	298841	Hose, Water Return	1
32	298842	Clamp, Hose	2
33	298840	Pipe, Water Return	1
34	300040	Gasket,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

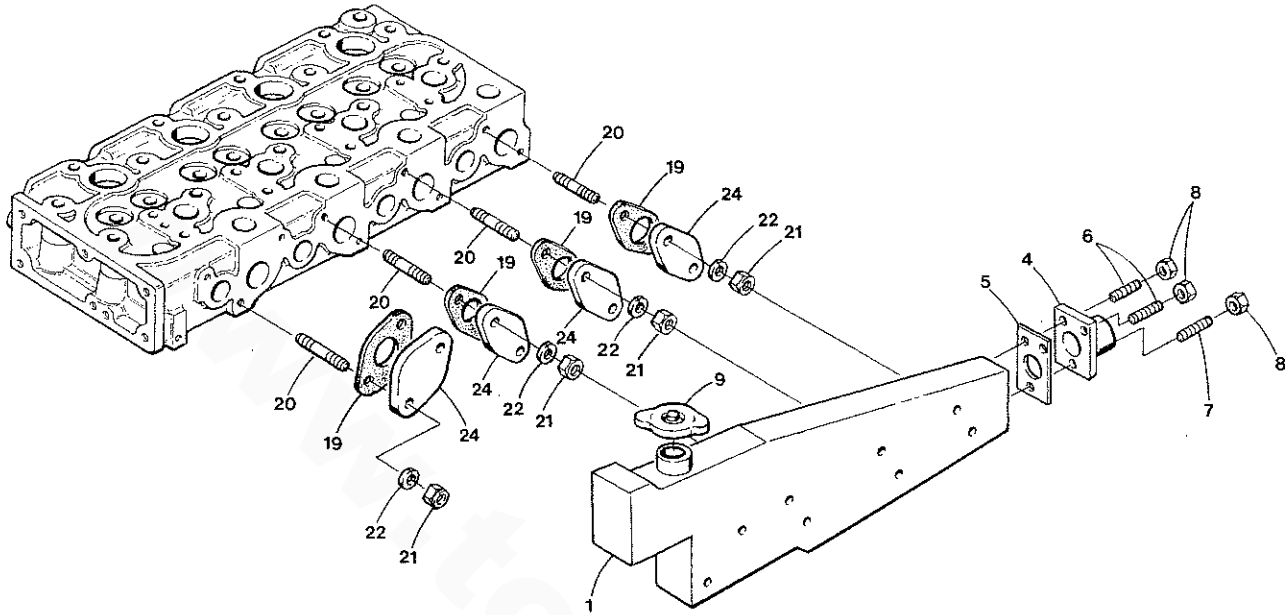


ITEM	PART NO.	DESCRIPTION	QTY.
1	298890	Pump Oberdorfer	1
2	298477	Adapter Plate	1
3	298485	Gasket, Adapter Plate	1
4	299162	Hose " Pump To Engine	1
5	241019	Fitting 90' " Hose	1
6		Clamp " Hose	1
7	298478	Coupling Adapter	1
8	230371	Rolling Pin 3/16 Dia. x 7/8 Lg.	1
9	300253	Gasket	1
10	285305	Washer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

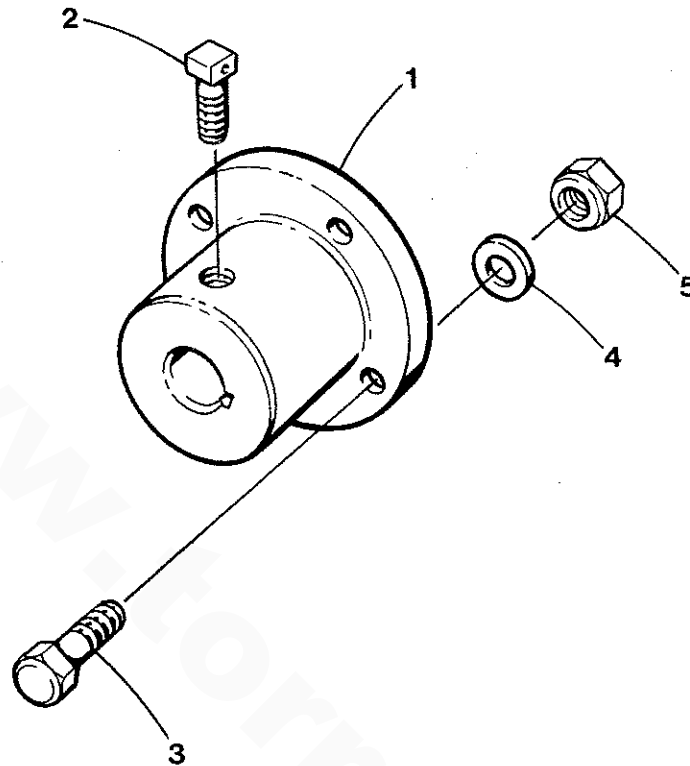


ITEM	PART NO.	DESCRIPTION	QTY.
1	298988	Manifold	1
2	298707	Gasket, Exhaust Manifold	1
3	298708	Gasket, Exhaust Manifold	3
4	298599	Exhaust Flange, Manifold	1
5	298600	Gasket, Exhaust Flange	1
6	276440	Stud, Exhaust Flange Mounting	2
7	298974	Stud, Exhaust Flange Mounting	1
8	230147	Hex Nut, Exhaust 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



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





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	

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