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MARINE DIESEL ENGINE M3-20B

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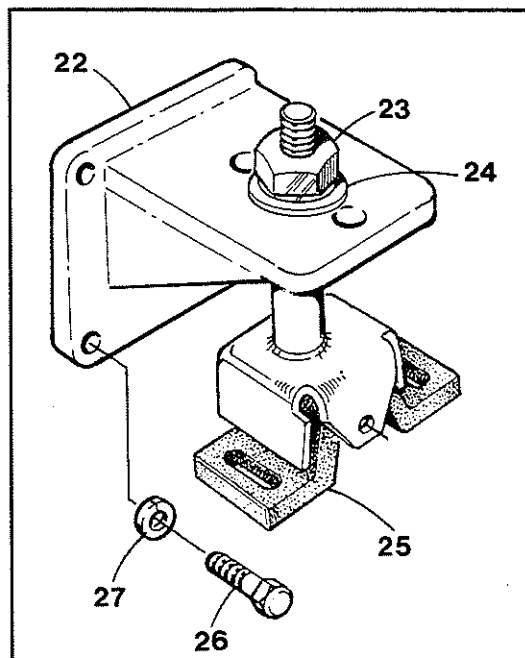
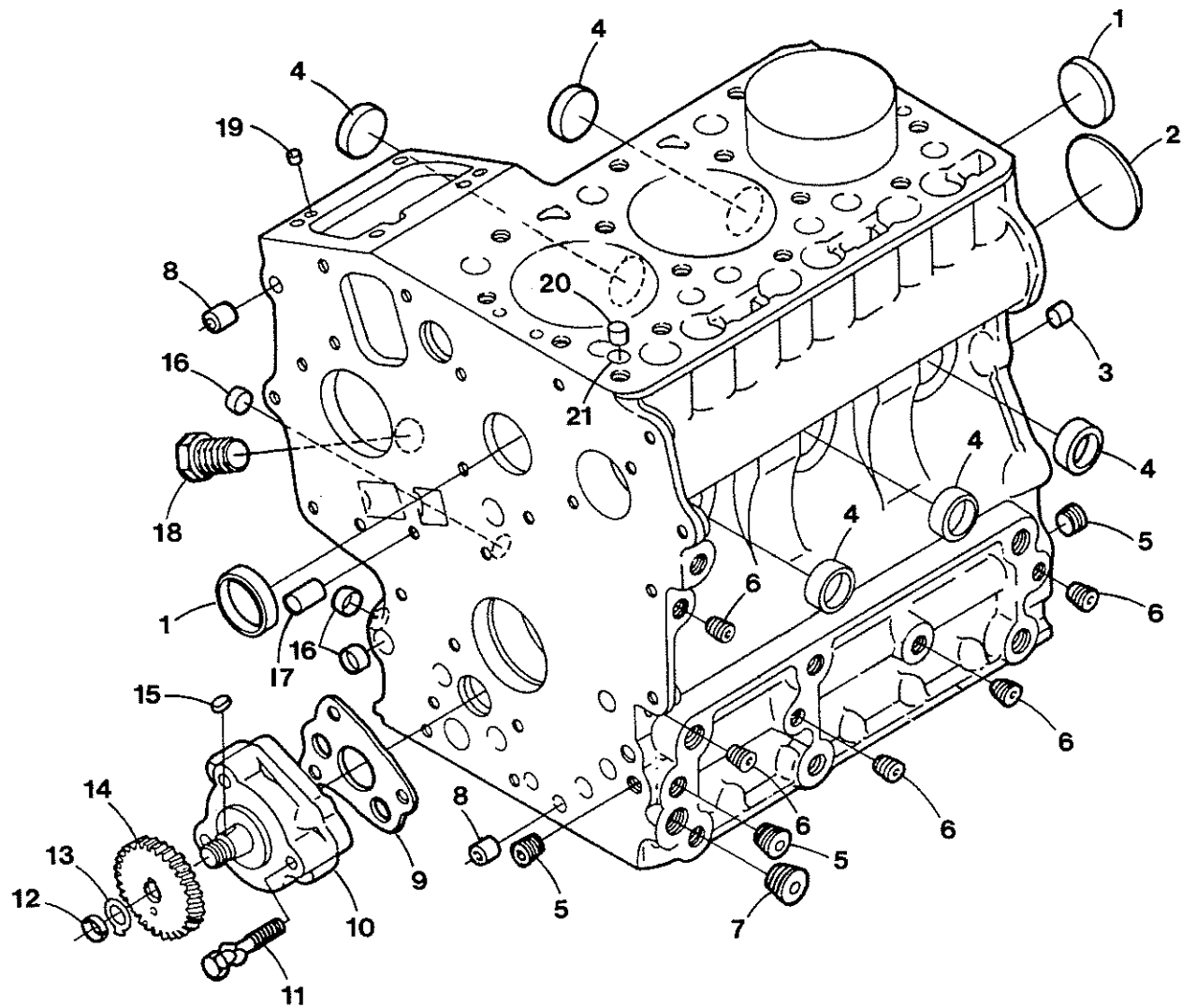
WESTERBEKE UNIVERSAL

M3-20B Marine Diesel Engine

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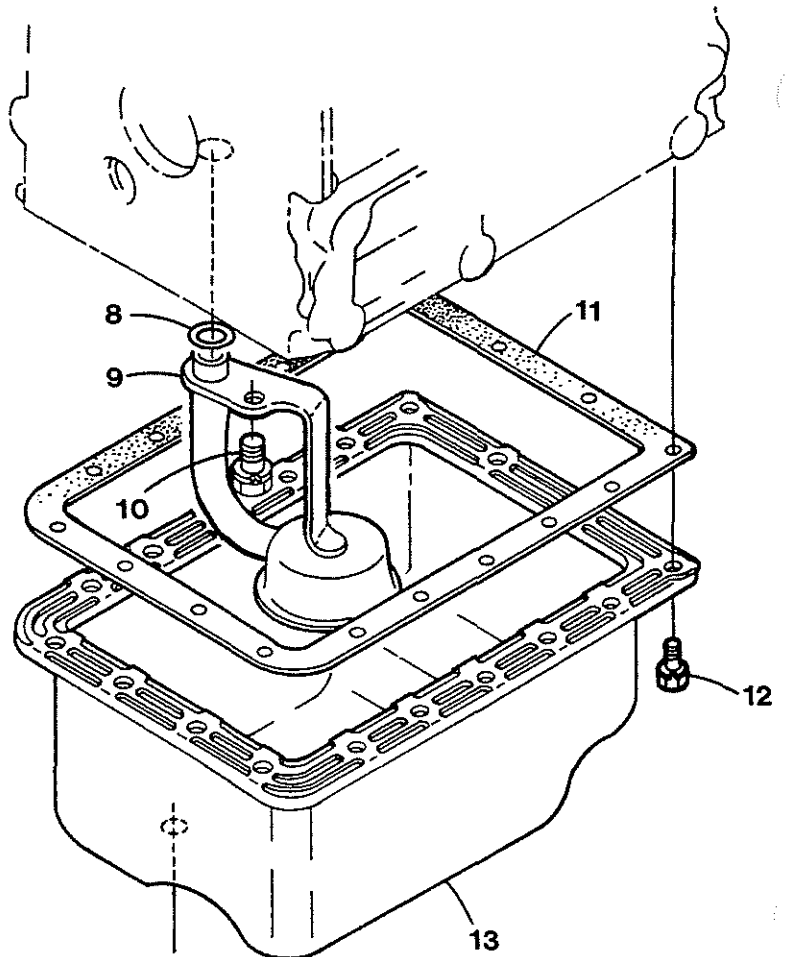
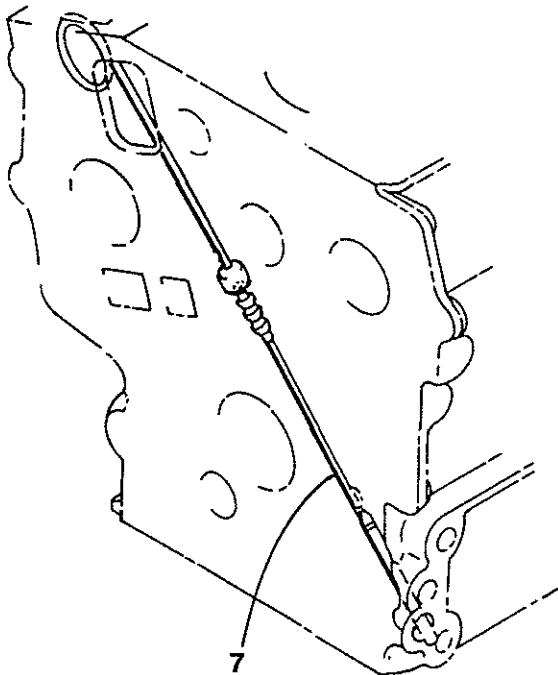
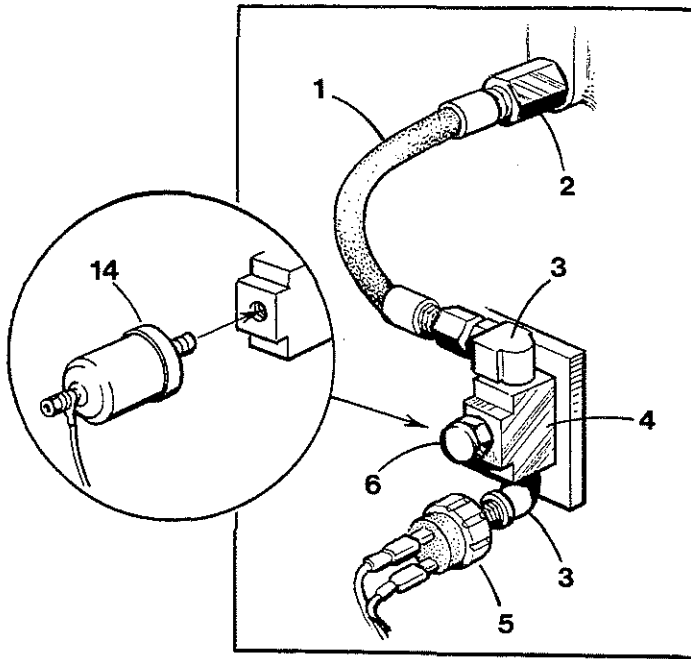
M3-20B Cylinder Block Assembly



M3-20B Cylinder Block Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301201	Plug, Expansion	2
2	302429	Plug, Expansion	1
3	299360	Pin, Straight	2
4	200597	Plug	5
5	302587	Plug	3
6	302589	Plug	5
7	302588	Plug	1
8	300716	Pin, Pipe	2
9	200589	Gasket, Oil Pump	1
10	301203	Assembly, Oil Pump	1
11	301545	Capscrew M12	3
12	302684	Nut, Hex	1
13	299413	Washer, Claw	1
14	301205	Gear, Oil Pump Drive	1
15	298820	Key, Feather	1
16	200596	Plug	3
17	301547	Pin, Pipe	2
18	013341	Plug, 1/4 NPT, Hex Head (Brass)	1
19	301543	Pin, Straight	2
20	301485	Pin, Pipe	1
21	299362	O-Ring	1
22	303030	Mount, Front Right	1
	303031	Mount, Front Left (Not Shown)	1
23	040966	Nut, Jam, M16 Self-Locking	5
24	031828	Washer, Flat 5/8 SAE Steel	2
25	040510	Isolator, Marine, 75-130 LB	2
26	024952	Capscrew, M10x1.25x25 DIN 961	6
27	019262	Lockwasher, M10 DIN 127	6

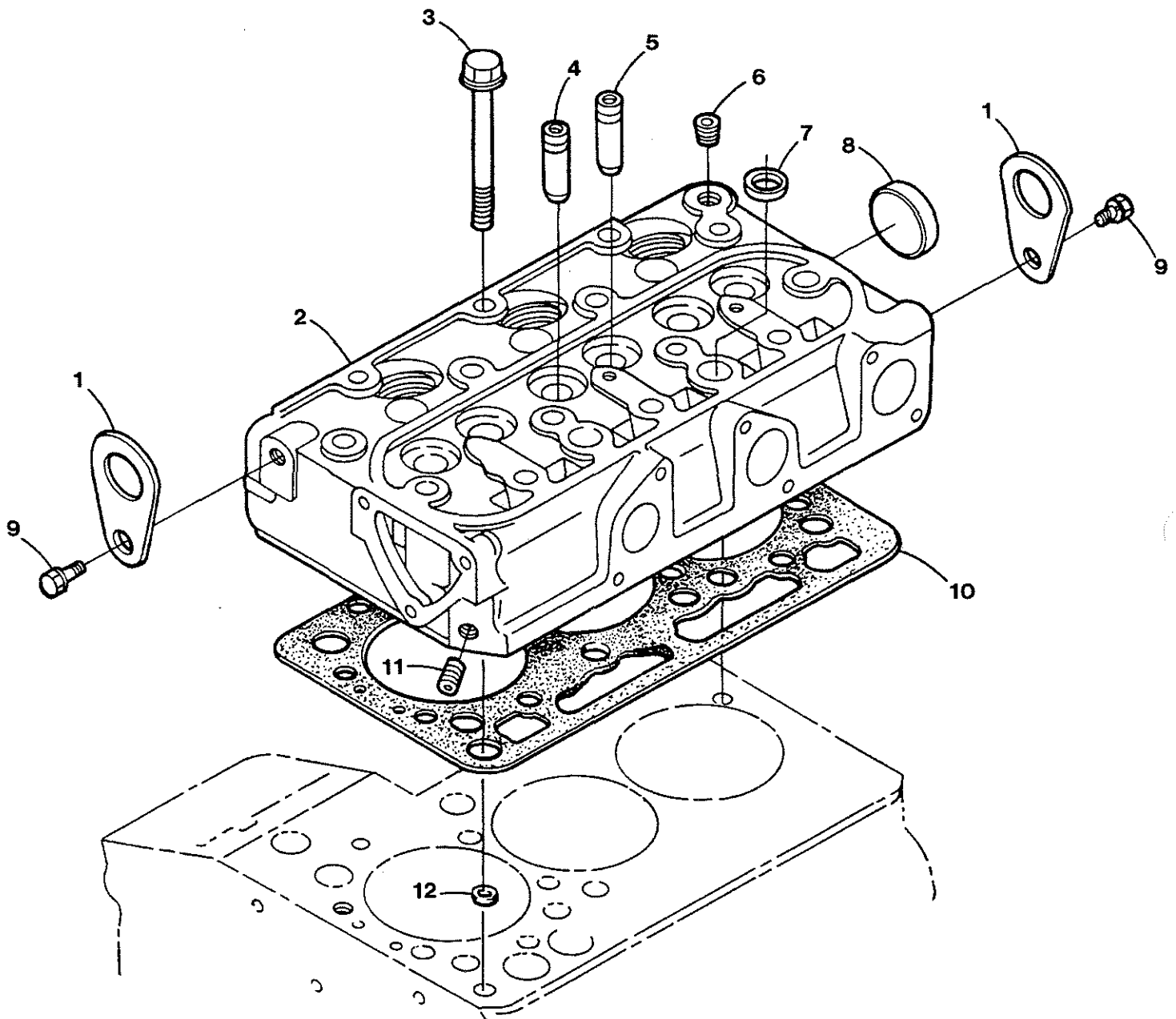
M3-20B Oil Pan Assembly Lube Oil Switch and Sender



M3-20B Oil Pan Assembly, Lube Oil Switch and Sender

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	039385	Hose, Oil	1
2	024844	Adapter, 1/8 BSPT to 1/8 NPT	1
3	013340	Elbow, 1/8 NPT 90 Street (Brass)	2
4	032480	Bracket, Oil Pressure Sender	1
5	037323	Switch, Oil Pressure #5 - 1/8 2T	1
6	019369	Plug, Hex Head, 1/8 NPT (Brass)	1
7	301212	Dipstick	1
8	299967	O-Ring	1
9	200588	Strainer, Oil Pickup	1
10	016789	Capscrew, M8 x 16 DIN 933	1
11	302762	Gasket, Sump	1
12	035785	Capscrew, M6 x 12 JIS 6 w/Lockwasher	18
13	302761	Sump, Oil	1
14	024132	Sender, Oil Pressure (Optional with Admiral Panel)	1

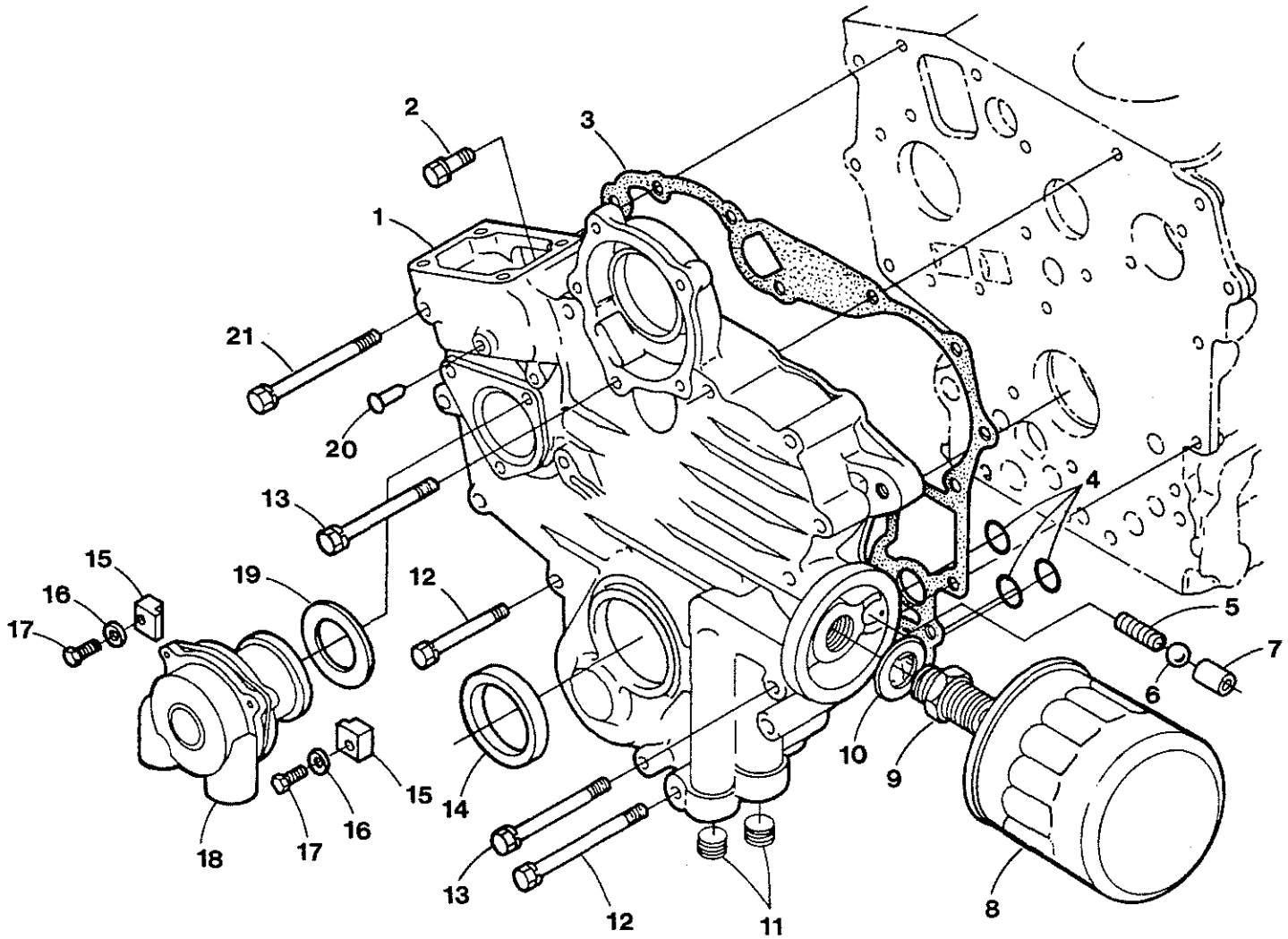
M3-20B Cylinder Head Assembly



M3-20B Cylinder Head Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301549	Eye, Lifting	2
2	200615	Assembly, Cylinder Head (Includes Key Nos. 4 thru 8, 11 & 12)	1
3	301217	Bolt, Cylinder Head	14
4	301214	Guide, Intake Valve	3
5	301215	Guide, Exhaust Valve	3
6	301550	Plug	1
7	302690	Plug, Expansion	2
8	299906	Plug, Expansion, 30MM DIN 443 (Brass)	1
9	016789	Capscrew, M8 x 16 DIN 933	2
10	200613	Gasket, Cylinder Head	1
11	302593	Plug	1
12	299362	O-Ring	1

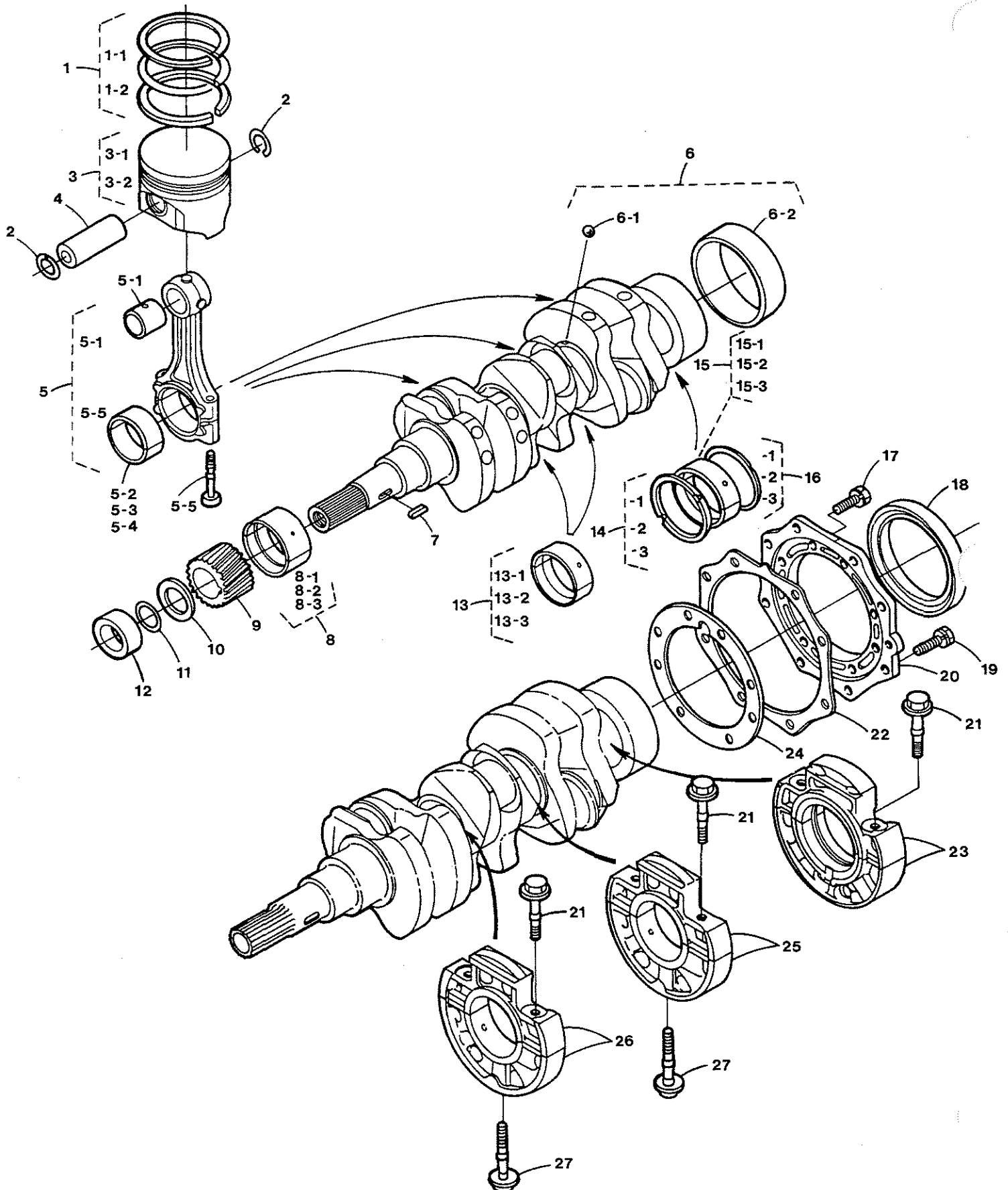
M3-20B Gear Case Assembly



M3-20B Gear Case Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	302692	Assembly, Gear Case (Includes Key Nos.4, 11 & 20)	1
2	299365	Capscrew, M6 x 18 JIS	1
3	302693	Gasket, Timing Case	1
4	300160	O-Ring	3
5	301554	Spring, Oil Relief Valve	1
6	301556	Ball, Oil Relief Valve	1
7	301555	Seat, Valve Cap, Oil Relief Valve	1
8	302625	Filter, Oil	1
9	301490	Adapter, Oil Filter	1
10	301222	Washer, Oil Adapter Nipple	1
11	302593	Plug	12
12-1	034212	Capscrew, M6 x 75 DIN 931	1
12-2	031783	Lockwasher, M6 DIN 127	1
13	301552	Bolt	3
14	302697	Seal, Oil	1
15	302679	Clamp, Sea Water Pump Mount	2
16	031783	Lockwasher, M6 DIN 127	2
17	020628	Capscrew, M6 x 25 DIN 933	2
18	042175	Pump, Raw Water	1
19	302678	Gasket, Sea Water Pump Mount	1
20	301551	Pin, Start Spring	1
21-1	039248	Capscrew, M6 x 70 DIN 931	1
21-2	031783	Lockwasher, M6 DIN 127	1

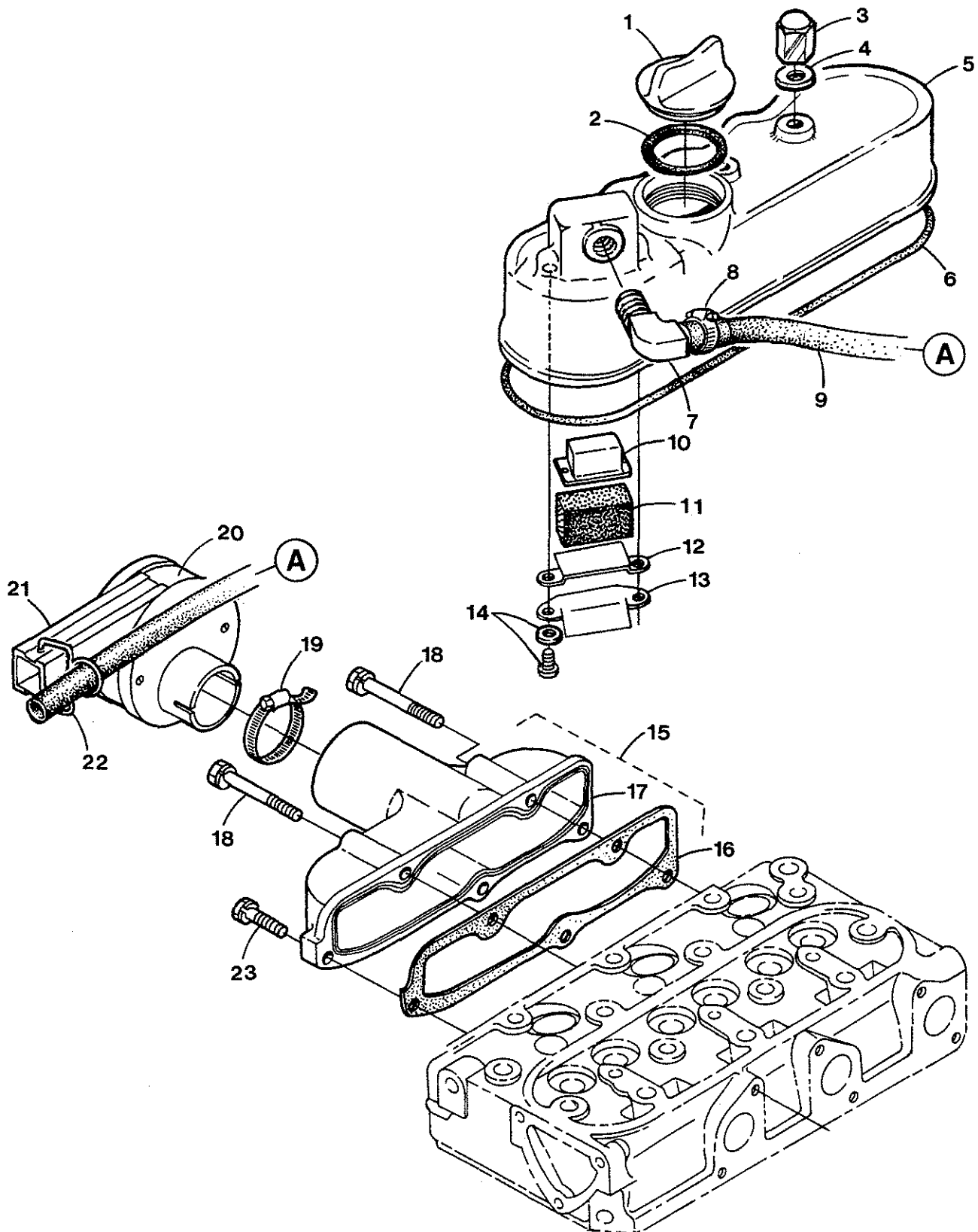
M3-20B Piston, Crankshaft and Main Bearings



M3-20B Piston, Crankshaft and Main Bearings

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1		Piston Ring Set (Includes 1-1 or 1-2)	3
1-1	200598	Assembly, Piston Ring, Standard	3
1-2	200581	Assembly, Piston Ring, .25	3
2	299490	Cir-clip, Piston Pin	6
3		Piston (Includes Key No. 3-1 or 3-2)	3
3-1	200582	Piston, Standard	3
3-2	200584	Piston, .25	3
4	200583	Pin, Piston	3
5	200586	Assembly, Connecting Rod (Includes Key No. 5-1 or 5-2)	3
5-1	200585	Bushing, Connecting Rod	3
5-2	200587	Bearing, Connecting Rod Set, Standard	3
5-3	301639	Bearing, Connecting Rod Set, .2 MM	3
5-4	301640	Bearing, Connecting Rod Set, .4 MM	3
5-5	302726	Bolt, Connecting Rod	6
6	200610	Assembly, Crankshaft (Includes Key Nos. 6-1 & 6-2)	1
6-1	200563	Ball	3
6-2	300813	Bushing, Crankshaft	1
7	299549	Key, Feather	1
8		Bearing, Crankshaft (Includes Key No. 8-1, 8-2 or 8-3)	1
8-1	301282	Bearing, Main Standard	1
8-2	301641	Bearing, Main, 0.2MM	1
8-3	301642	Bearing, Main, 0.4MM	1
9	301281	Gear, Crankshaft	1
10	302731	Slinger, Oil	1
11	301289	O-Ring	1
12	301287	Collar, Crankshaft	1
13		Bearing, Crankshaft (Includes Key No. 13-1, 13-2 or 13-3)	1
13-1	200605	Bearing, Crankshaft, Standard	2
13-2	301645	Bearing, Crankshaft, .2MM	2
13-3	301646	Bearing, Crankshaft, .4MM	2
14		Thrustwasher (Includes Key No. 14-1, 14-2 or 14-3)	1
14-1	299503	Thrustwasher, Standard	2
14-2	301649	Thrustwasher, .2MM	2
14-3	301650	Thrustwasher, .4MM	2
15		Bearing, Crankshaft (Includes Key No. 15-1, 15-2 or 15-3)	1
15-1	200604	Bearing, Crankshaft, Standard	1
15-2	300754	Bearing, Crankshaft, .2	1
15-3	300755	Bearing, Crankshaft, .4	1
16		Thrustwasher (Includes Key No. 16-1, 16-2 or 16-3)	1
16-1	299502	Thrustwasher, Standard	2
16-2	301647	Thrustwasher, .2MM	2
16-3	301648	Thrustwasher, .4MM	2
17	018804	Capscrew, M6 x 20 DIN 933	8
18	301231	Seal, Oil	1
19		Bolt	8
20	301228	Cover, Bearing Case	1
21	302698	Bolt, Bearing Case	6
22	301229	Gasket, Oil Seal Flange Rear	1
23	200578	Assembly, Main Bearing Case	1
24	301227	Gasket, Oil Seal Flange Rear	1
25	200600	Assembly, Main Bearing Case	1
26	200577	Assembly, Main Bearing Case	1
27	301235	Bolt, Bearing Case	2

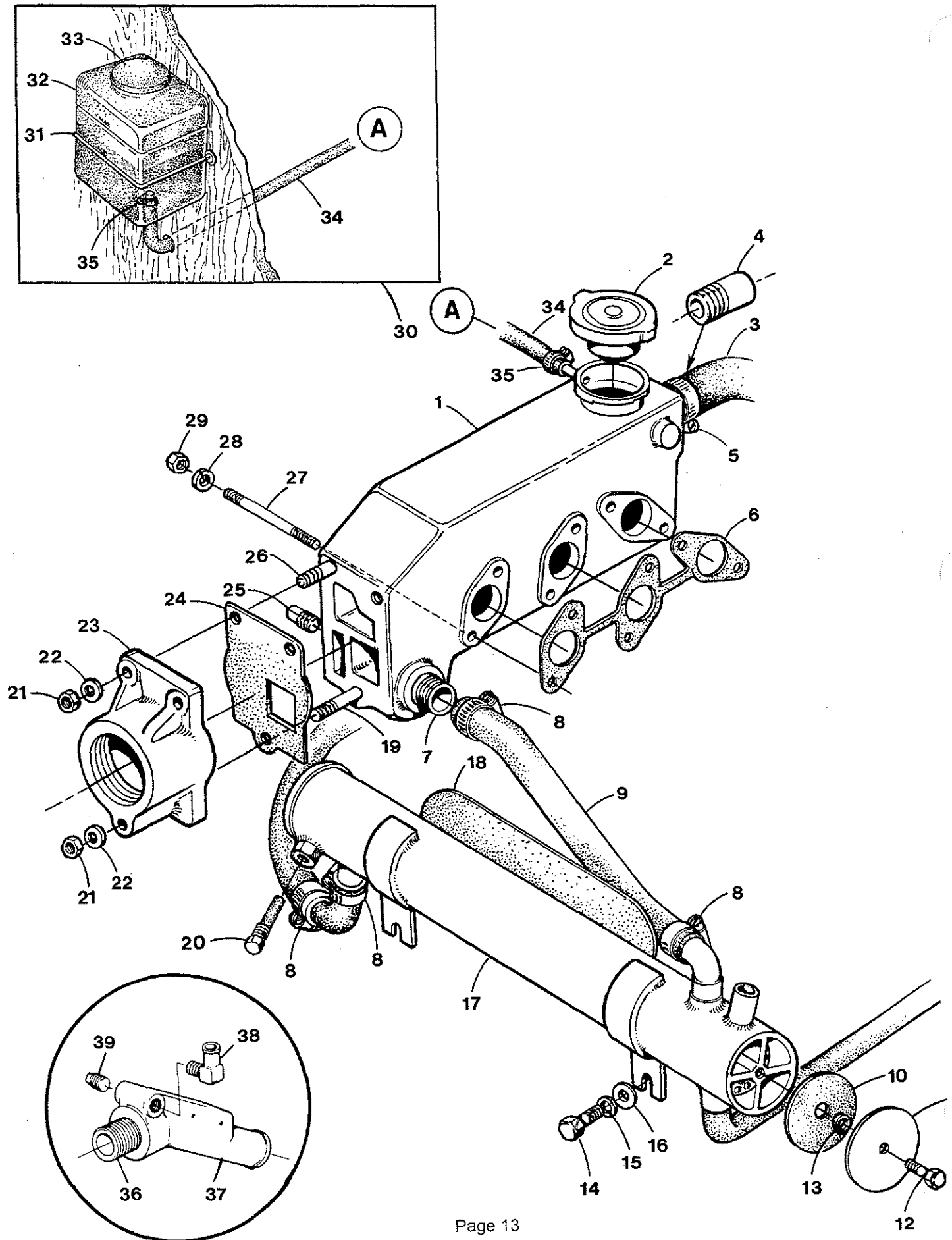
M3-20B Cylinder Head Cover and Air Intake



M3-20B Cylinder Head Cover and Air Intake

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	302707	Cap, Oil Filler	1
2	298740	O-Ring	1
3	200566	Nut, Cap	3
4	301241	Gasket, Rocker Cover Stud	1
5	200601	Cover, Rocker	1
6	200602	Gasket, Rocker Cover	1
7	300977	Elbow, Male 1/8 NPT x 1/4 Tube	1
8	024906	Clamp, Hose	2
9	301560	Hose, Breather	1
10	301558	Plate, Breather Element	1
11	301237	Element, Breather	1
12	301557	Plate, Breather Element	1
13	301559	Oil Shield, Breather	1
14	301399	Screw, M5 x 10 w/lockwasher	2
15	200694	Assembly, Inlet Manifold (Includes Key Nos. 16 & 17)	1
16	302770	Gasket, Inlet Manifold	1
17	302769	Manifold, Inlet	1
18	035789	Capscrew, M6 x 45 JIS w/Lockwasher	1
19	021878	Clamp, Hose 20	1
20	300429	Element, Air Filter	1
21	301926	Silencer, Intake	1
22	300983	Clip, Spring-Breather Hose	1
23	299365	Capscrew, M6 x 18 JIS	2

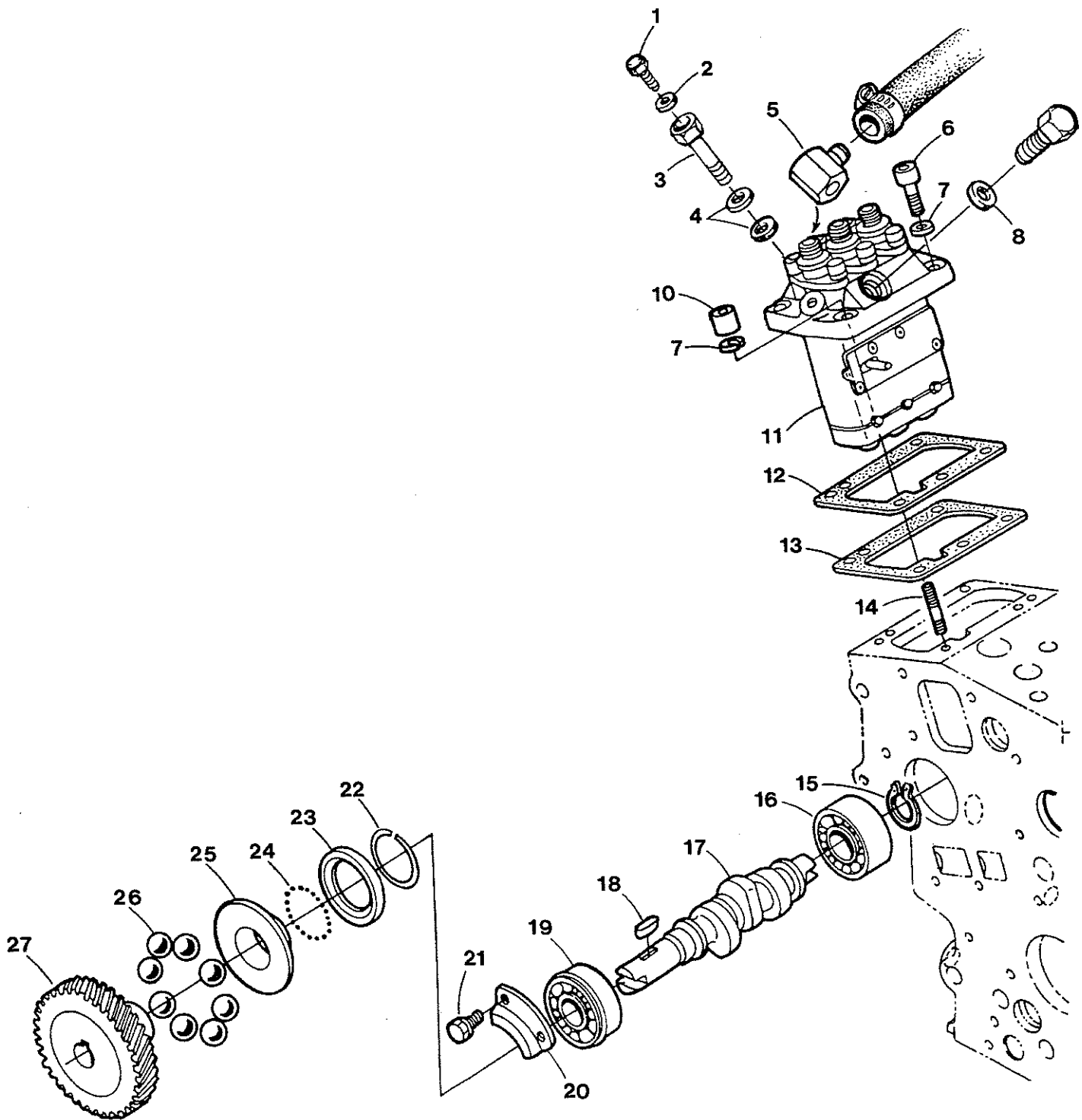
M3-20B Exhaust Manifold and Heat Exchanger



M3-20B Exhaust Manifold and Heat Exchanger

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	302400	Manifold, Exhaust	1
2	024306	Cap, Pressure 15 PSI	1
3	299823	Hose, 5/8" (4 Inches Required)	1
4	301061	Nipple, 3/8 NPT x 5/8 Hose	1
5	011341	Clamp, Hose 08	1
6	302785	Gasket, Exhaust Manifold	1
7	036838	Nipple, 3/4 NPT x 7/8 Hose	1
8	011386	Clamp, Hose 12	6
9	019059	Hose, 7/8" Wire Inserted (26 Inches Required)	1
10	022851	Gasket, Exchanger 2-3/4"	1
11	022850	Cap, Exchanger 2-3/4" in 1 Hole	1
12	022852	Capscrew, 3/8 NC x 3/4 (Brass)	1
13	019321	O-Ring, Exchanger End Cover	1
14	031552	Capscrew, 5/16 NC x 5/8	2
15	031758	Lockwasher, 5/16 Split Med (Steel)	2
16	031759	Washer, Flat 5/16 SAE (Steel)	2
17	303145	Exchanger, Heat	1
18	303146	Pad, Exchanger Mount	1
19	298974	Stud, Manifold End	1
20	011885	Zinc	1
21	031766	Nut, Hex 3/8-24 NF (Steel)	3
22	031764	Lockwasher, 3/8 Split Med (Steel)	3
23	298599	Flange, Exhaust 1.25 NPT	1
24	298600	Gasket, Exhaust Flange	1
25	287077	Plug, Sq Head 3/8 NPT (Brass)	1
26	012506	Stud, 3/8 NC x 3/8 NF x 1-5/8	2
27	302083	Stud, M6 x 85	6
28	031783	Lockwasher, M6 DIN 127	6
29	015812	Nut, Hex M6 DIN 934	6
30	024977	Kit, Coolant Recovery Tank	1
31	024786	Strap, Coolant Recovery Tank	1
32	024704	Tank, Coolant Recovery	1
33	024858	Cap, Coolant Recovery Tank	1
34	024637	Tubing, Manifold to Recovery Tank	1
35	024906	Clamp, Hose	1
36-1	036660	Bushing, Exhaust Elbow to Manifold (45 Deg. or 90 Deg. Elbow)	1
36-2	021876	Bushing, Exhaust Elbow to Manifold, 1.5 to 1.25 NP -Exh Riser	1
37-1	302207	Elbow, Water Injected Exhaust-45 Deg, 1.25 NPT	1
37-2	200385	Elbow, Water Injected Exhaust-90 Deg, 1.5 NPT	1
37-3	200266	Riser, Exhaust, 1.25 NPT	1
38-1	302217	Elbow, 1/2 NPT x 5/8 Hose 90 (w/ 302207 or 200385-Exh Riser	1
38-2	302258	Elbow, 3/4 NPT x 5/8 Hose (w/ 200266 Exhaust Elbow)	1
39-1	035747	Plug, 1/2 NPT Elbow (with 036547 Elbow)	1
39-2	013341	Plug, Hex-Head Brass, 1/4 NPT (w/200266 Exh Riser)	

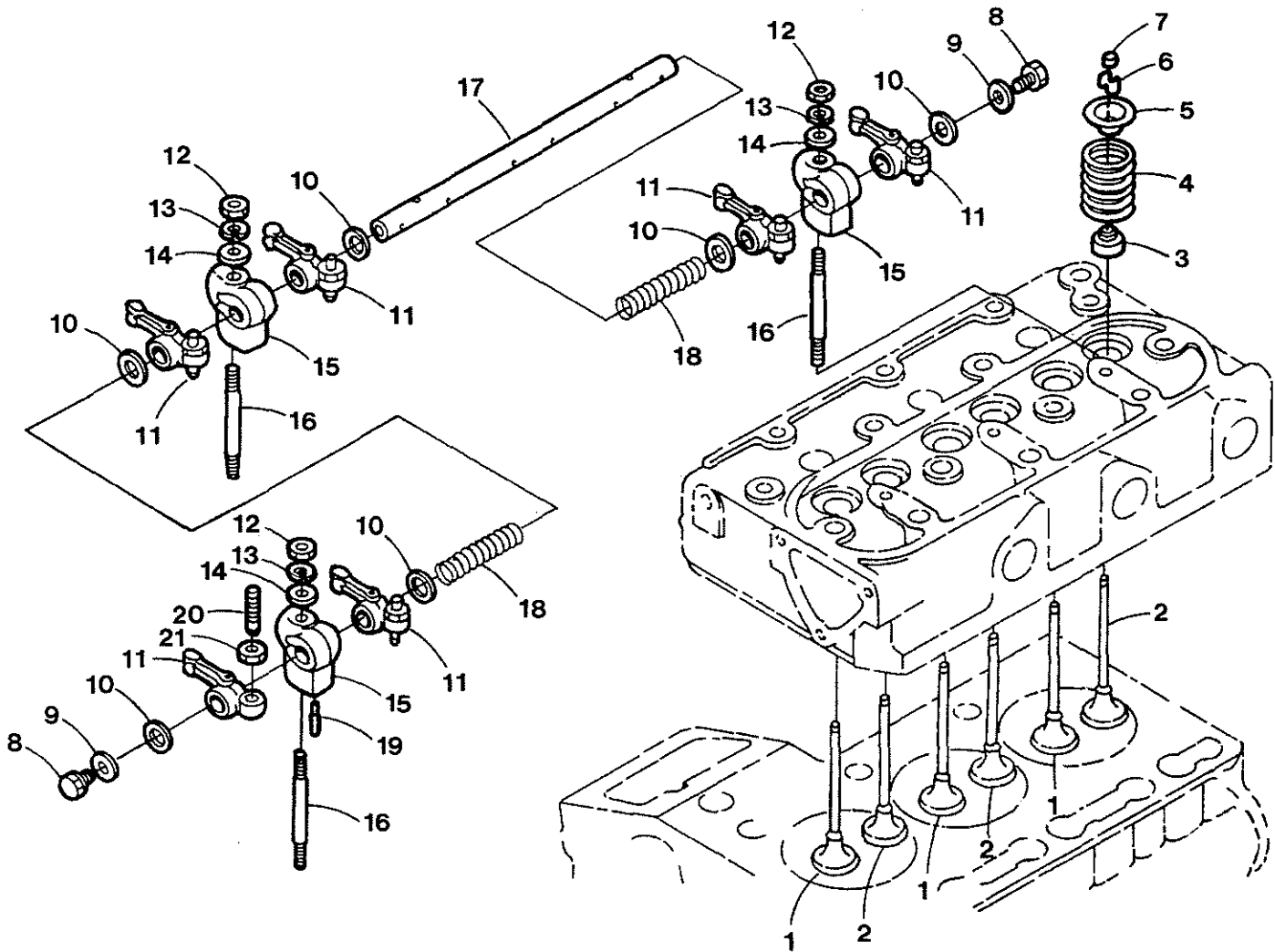
M3-20B Fuel Injection Pump and Fuel Camshaft



M3-20B Fuel Injection Pump and Fuel Camshaft

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301749	Screw, Bleed	1
2	301750	Washer, Bleed Screw	1
3	301751	Bolt, Banjo	1
4	301752	Washer, Banjo	2
5	301314	Banjo, Injection Pump	1
6	039874	Capscrew, M6 x 20 DIN 912	2
7	031783	Lockwasher, M6 DIN 127	4
8	200695	Gasket, Injector	1
10	301313	Nut, Cap	2
11	200572	Assembly, Injection Pump	1
12	200574	Shim, Injection Pump .25MM	1
	200573	Shim, Injection Pump .20MM (Not shown)	1
13	200575	Shim, Injection Pump .30MM	1
14	301312	Stud	2
	200603	Assembly, Fuel Camshaft (Includes Key No.'s 15 thru 27)	1
15	301320	Ring, Retaining (External)	1
16	301319	Ball Bearing	1
17	302782	Camshaft, Fuel	1
18	299549	Key, Feather	1
19	301317	Ball Bearing	1
20	301574	Stopper, Fuel Cam	1
21	035785	Capscrew, M6 x 12 JIS w/Lockwasher	2
22	300198	Cir-Clip, Governor Sleeve	1
23	301572	Case, Governor Ball Bearing	1
24	301573	Ball, Governor	32
25	301571	Sleeve, Governor	1
26	299534	Ball	8
27	200590	Gear, Injection Pump	1

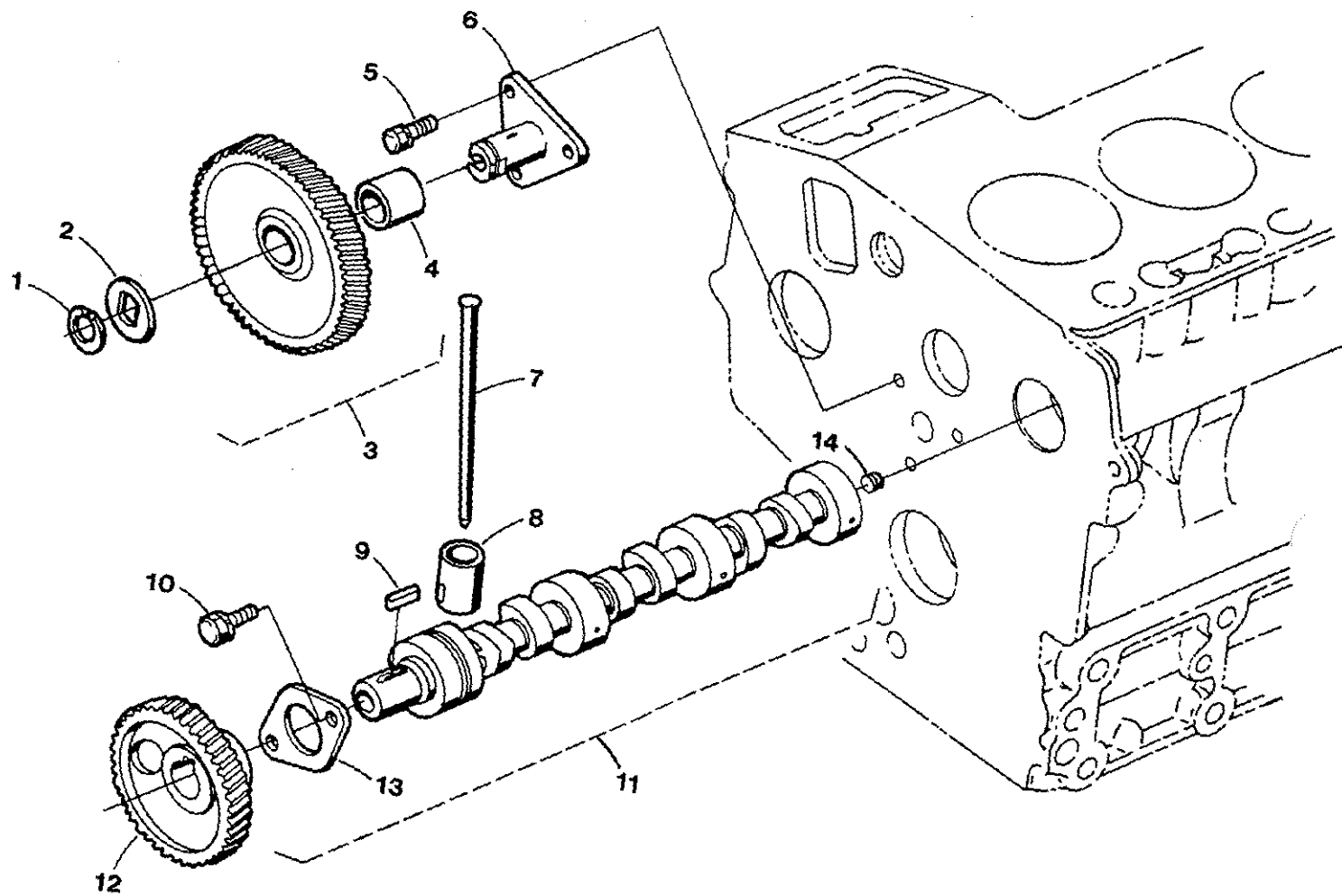
M3-20B Valve Rocker Arm Assembly



M3-20B Valve Rocker Arm Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301246	Valve, Intake	3
2	301247	Valve, Exhaust	3
3	200564	Seal, Valve Stem	6
4	301248	Spring, Valve	6
5	301249	Retainer, Spring	6
6	301250	Collet, Valve Spring	6
7	301251	Cap, Valve	6
8	301256	Capscrew, M6 x 10 JIS 7 w/Lockwasher	2
9	301255	Washer, Plain	2
10	200614	Washer, Rocker Shaft	6
11	301260	Arm, Rocker (Includes Key No's. 12 and 13)	6
12	015812	Nut, Hex, M6 DIN 934	3
13	031783	Lockwasher, M 6 DIN 127	3
14	031784	Washer, M6 DIN 125	3
15	301257	Bracket, Rocker Arm	3
16	301258	Stud	3
17	302771	Shaft, Rocker Arm	1
18	301259	Spring, Rocker Arm	2
19	301498	Pin, Spring	1
20	301565	Screw, Rocker Adjusting	6
21	301566	Nut, Rocker	6

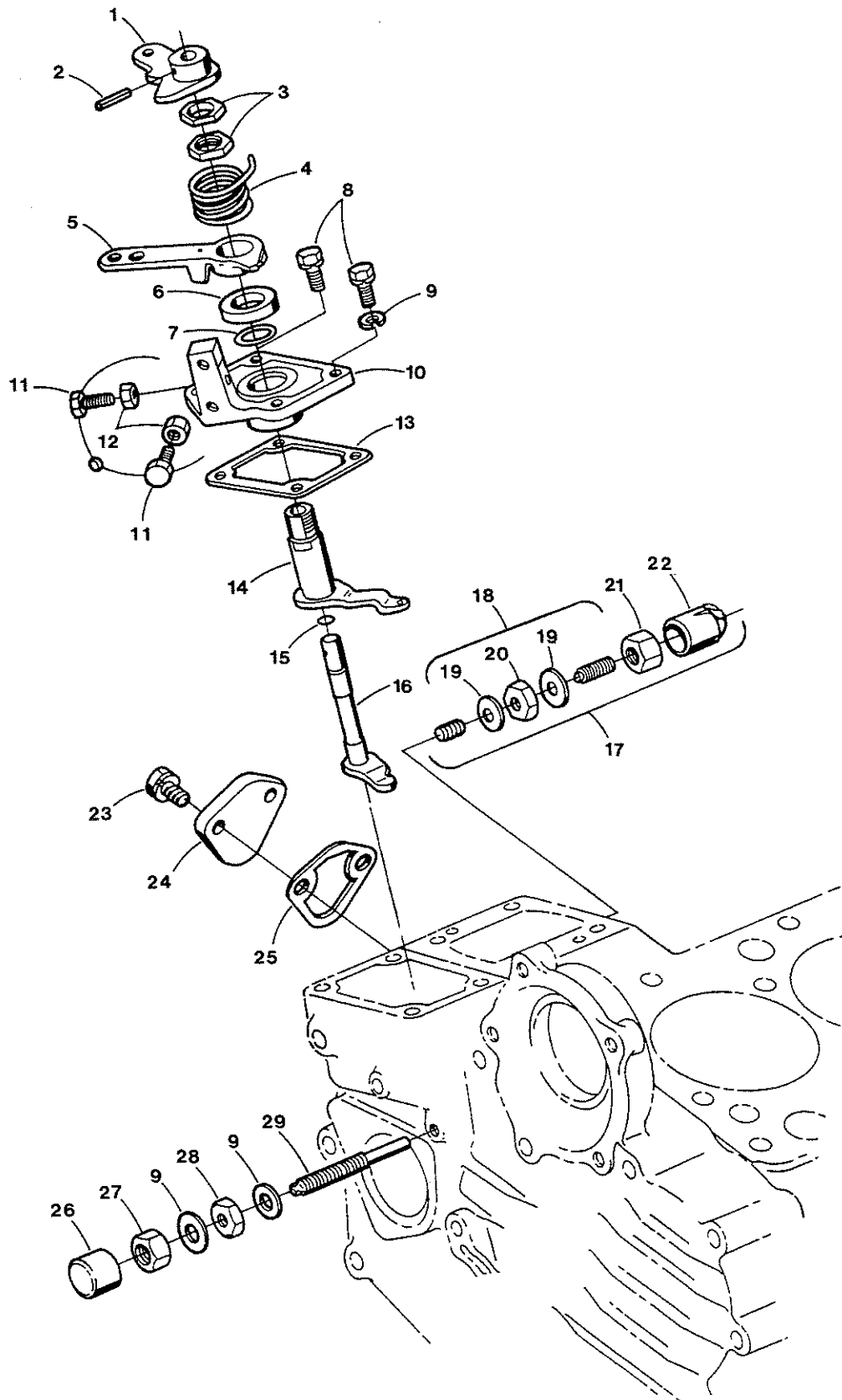
M3-20B Camshaft Assembly



M3-20B Camshaft Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	302718	Ring, Retaining	1
2	302717	Collar, Idler Gear	1
3	302714	Assembly, Idler Gear	1
4	200568	Bushing, Idler Gear	1
5	035799	Capscrew, M 6 x 14 JIS w/Lockwasher	3
6	302719	Shaft, Idler Gear	1
7	200579	Pushrod	6
8	301261	Tappet	6
9	301568	Key, Feather	1
10	035785	Capscrew, M 6 x 12 JIS w/Lockwasher	2
11	200611	Assembly, Camshaft	1
12	200612	Gear, Camshaft	1
13	301569	Stopper, Camshaft	1
14	301713	Set Screw	1

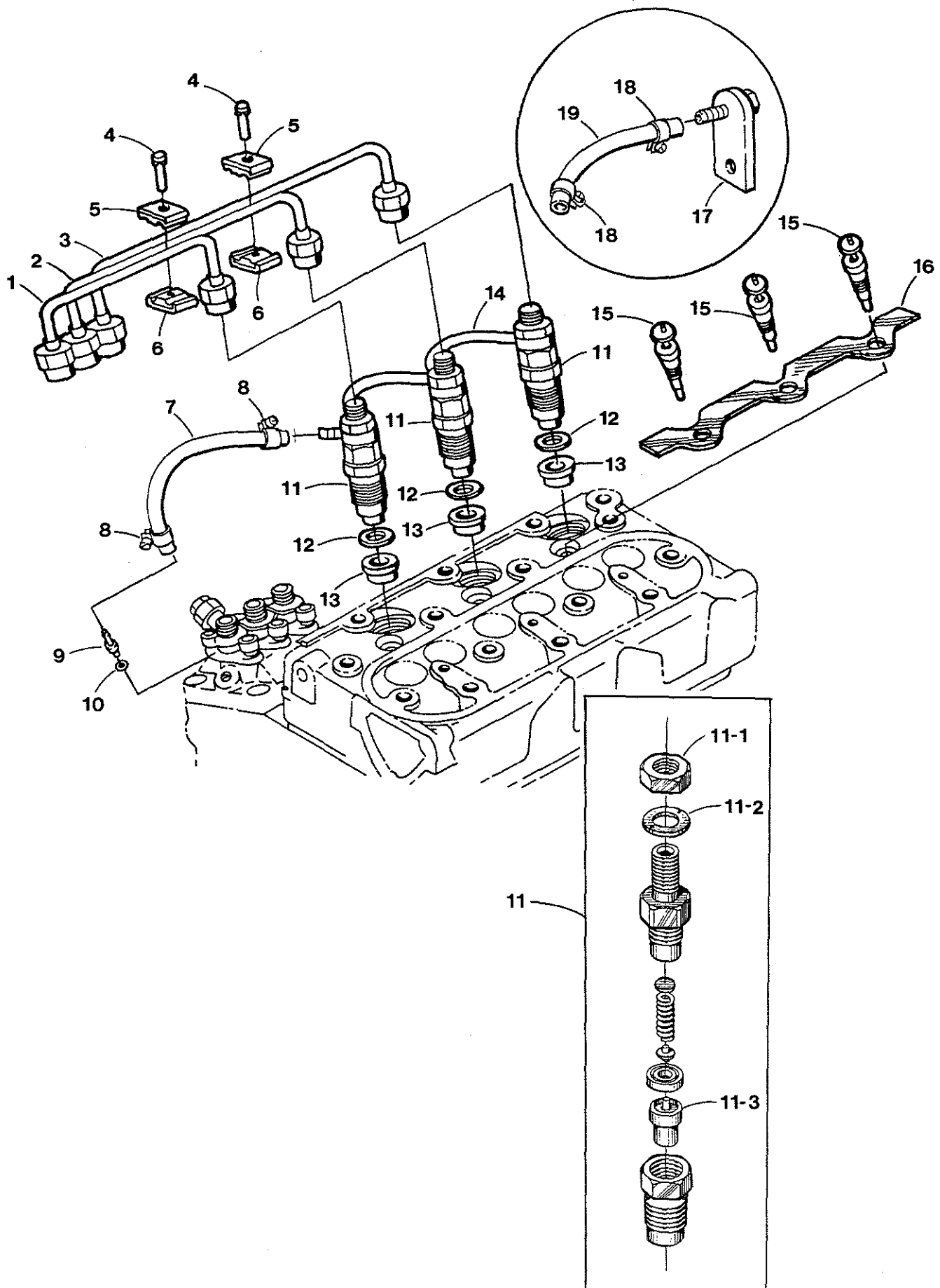
M3-20B Governor / Idler Assembly



M3-20B Governor / Idler Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301327	Lever, Engine Stop	1
2	301588	Pin, Spring	1
3	301594	Nut, Speed Control	2
4	301328	Spring, Throttle	1
5	200576	Lever, Throttle	1
6	301593	Sleeve	1
7	302750	O-Ring	1
8	299365	Capscrew, M6 x 18 JIS	4
9	301241	Gasket, Rocker Cover Stud	4
10	301591	Plate, Throttle	1
11	298826	Bolt, Stop Lever	2
12	015812	Nut, M6 DIN 934	3
13	301325	Gasket, Throttle Plate	1
14	301592	Lever, Governor	1
15	301496	O-Ring	1
16	200616	Shaft, Throttle Lever	1
17	301576	Assembly, Idler Adjusting Bolt	1
18	301575	Assembly, Idler Screw	1
19	298659	Gasket	2
20	301493	Nut, Hex, M-25	1
21	301578	Nut, Cap	1
22	301416	Nut, Cap	1
23	038500	Capscrew, M6 x 16 JIS w/Lockwasher	2
24	302744	Cover, Fuel Pump	1
25	302745	Gasket, Injection Pump	1
26	302485	Cap, Adjusting Bolt	1
27	302746	Nut, Cap	1
28	301581	Nut, Hex	1
29	301580	Bolt, Adjusting	1

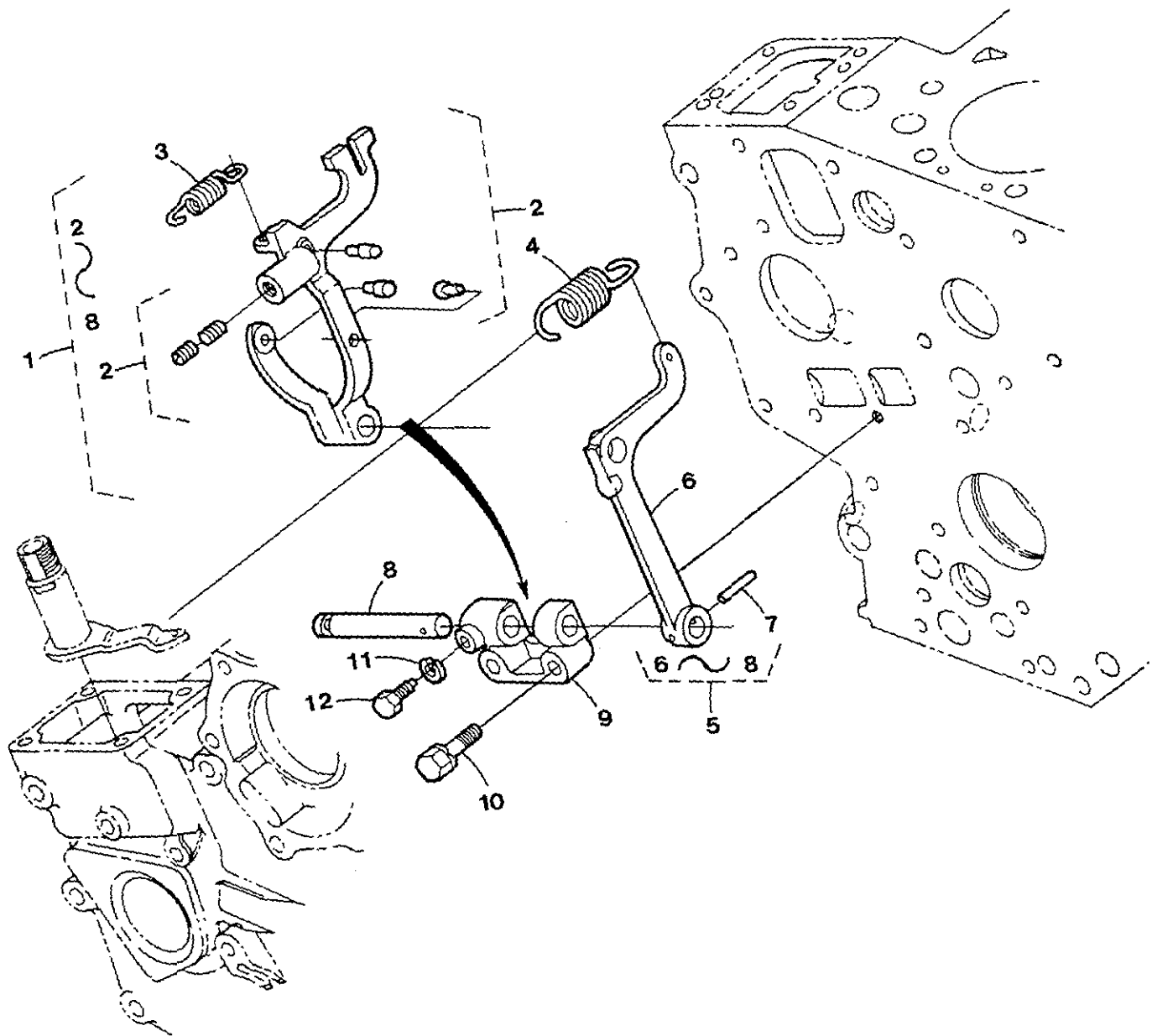
M3-20B Nozzle Holder and Injectors



M3-20B Nozzle Holder and Injectors

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	200592	Line, Injector 1	1
2	200593	Line, Injector 2	1
3	200607	Line, Injector 3	1
4	298794	Capscrew , M5 x 20 Phillips HD w/Lockwasher	2
5	301307	Clamp, Fuel Line	2
6	301306	Clamp, Fuel Line	2
7	301299	Line, Return	1
8	040622	Clamp, Pipe	2
9	301300	Screw, Bleed	1
10	301241	Gasket, Rocker Cover Stud	1
11	200571	Assembly, Injector	3
11-1	200567	Nut, Injector Leak-Off	3
11-2	303170	Washer, Injector	3
11-3	200591	Nozzle, Injector	3
12	301303	Gasket, Injector	3
13	200617	Shield, Heat Injector	3
14	302777	Line, Return	1
15	200595	Glowplug, 12VDC	3
16	200608	Strap, Glowplug Connecting	1
17	300941	Connector, Fuel Return Line	1
18	040384	Clamp, Fuel Line	1
19	036869	Hose, Fuel 3/16 ID (6 Inches Required)	1

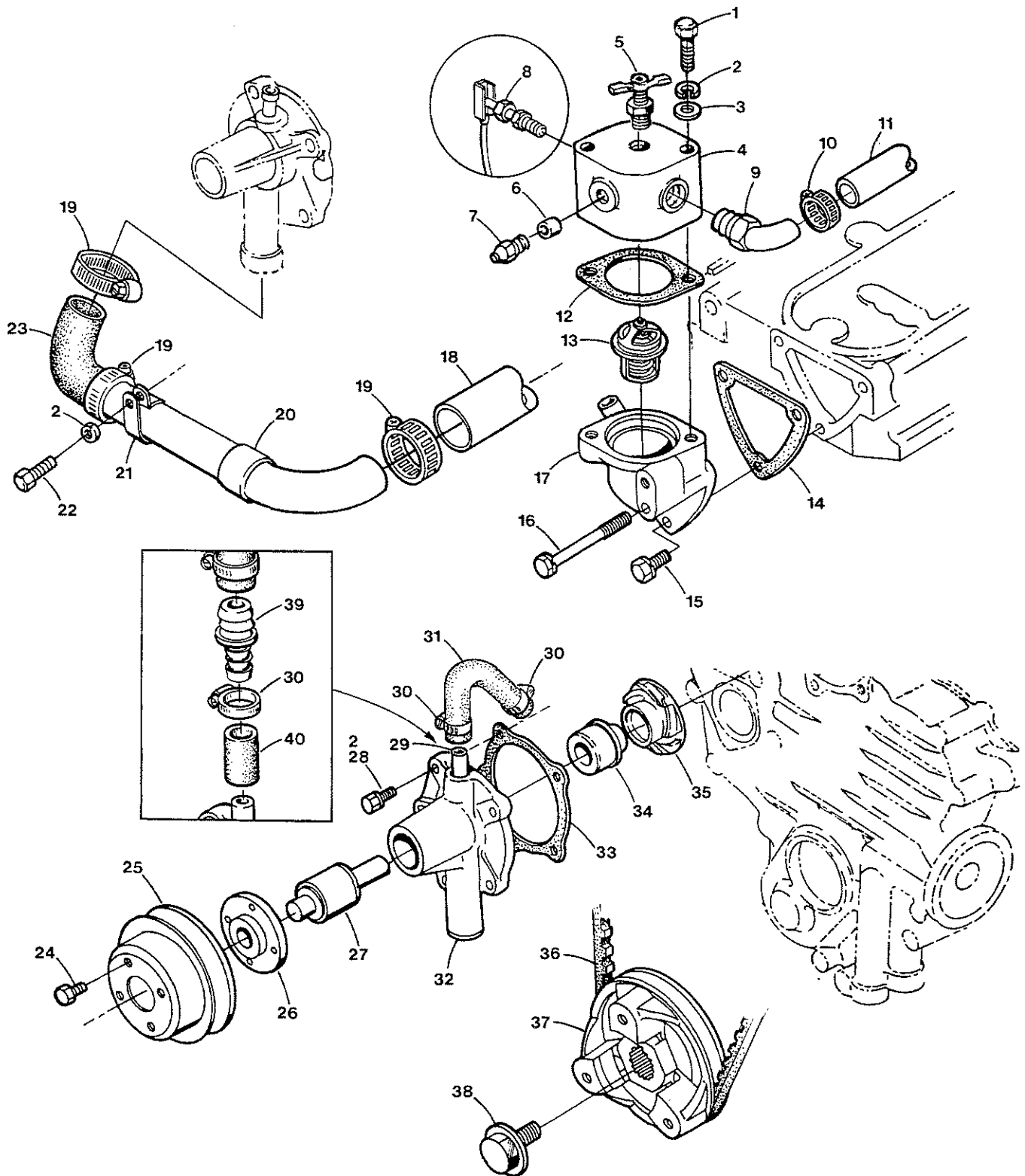
M3-20B Governor Assembly



M3-20B Governor Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	200570	Assembly, Governor Lever	1
2	200569	Assembly, Fork Lever	1
3	301301	Spring, Start	1
4	302747	Spring, Governor	1
5	301324	Assembly, Fork Lever	1
6	301586	Lever, Fork	1
7	301588	Pin, Spring	1
8	301587	Shaft, Fork Lever	1
9	301589	Holder, Fork Lever	1
10	301590	Capscrew, M6 x 35 JIS 7 w/Lockwasher	2
11	031780	Lockwasher, M5 DIN 127	1
12	200565	Bolt, Governor	1

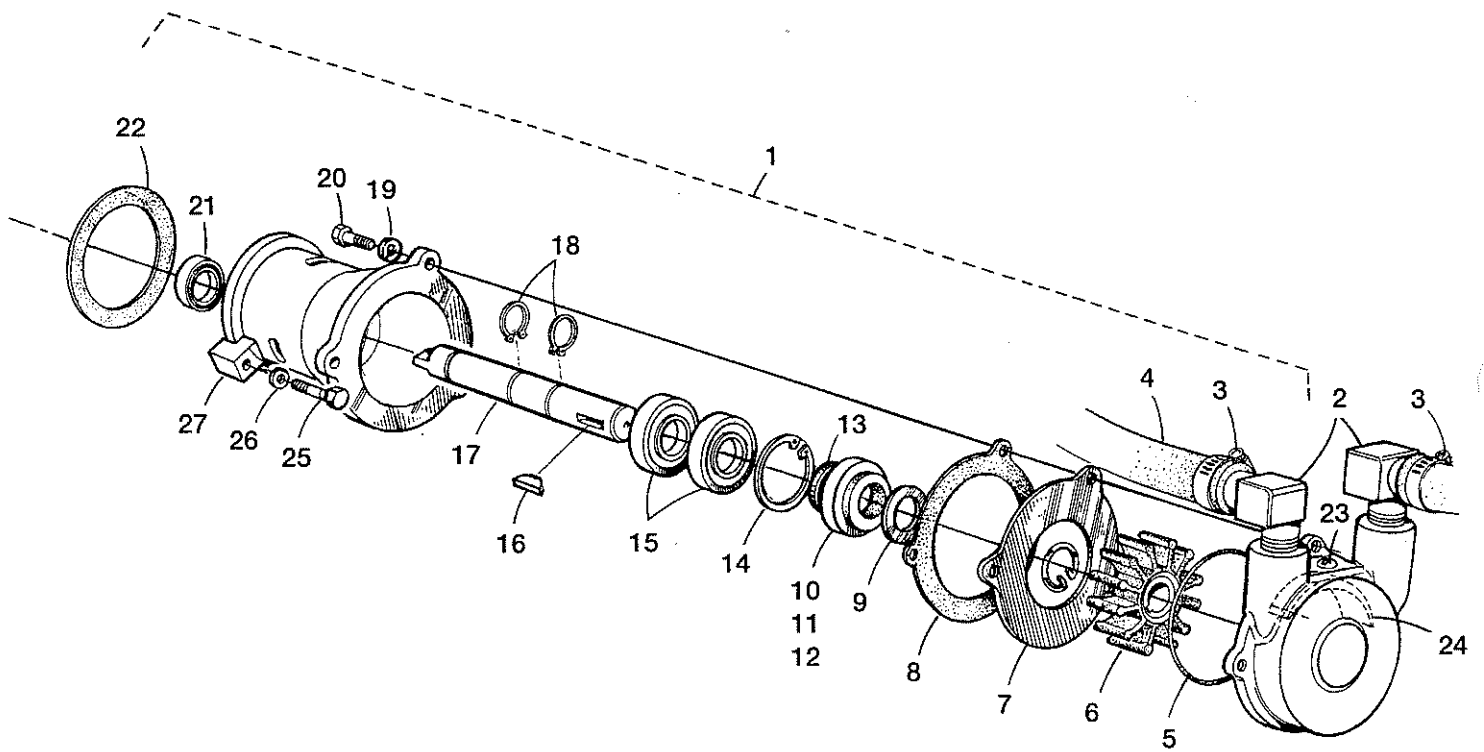
M3-20B Cooling System



M3-20B Cooling System

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	030146	Capscrew, M6 x 55 DIN 931	2
2	031783	Lockwasher, M6 DIN 127	4
3	031784	Washer, M6 DIN 125	2
4	200264	Housing, Thermostat	2
5	011471	Petcock, 1/8 NPT Ext Seat (Brass)	1
6	037453	Bushing	1
7	035109	Sender, Water Temperature	
8	030125	Switch, Water Temperature Alarm (Optional with Admiral Panel)	1
9	302217	Elbow, 1/2 NPT x 5/8 Hose 90	1
10	011341	Clamp, Hose 08	1
11	299823	Hose, Coolant 5/8 ID	1
12	300237	Gasket, Thermostat	1
13	301358	Thermostat, 160F with Bleed	1
14	301333	Gasket, Lower Thermostat Housing	1
15	038500	Capscrew, M6 x 16 JIS w/Lockwasher	2
16-1	030146	Capscrew, M6 x 55 DIN 931	1
16-2	031783	Lockwasher, M6 DIN 127	1
17	302755	Housing, Lower Thermostat	1
18	019059	Hose, 7/8 (Wire Inserted)	1
19	011386	Clamp, Hose 12	2
20	301078	Assembly, Water Tube (Copper)	1
21	301089	Clamp, Support Elbow	1
22	020628	Capscrew, M6 x 25 DIN 933	1
23	030166	Hose, 7/8	1
24	034565	Capscrew, Flange, M6 x 10 JIS	1
25	301329	Pulley, Fresh Water Pump	1
26	200692	Flange, Water Pump Pulley	1
27	200693	Bearing, Ball	1
28	020628	Capscrew, M6 x 25 DIN 933	1
29	200691	Nipple, Water Pump	1
30	024906	Clamp, Hose 04 (Miniature)	1
31	301335	Hose, Thermostat By-Pass	1
32	302756	Pump, Fresh Water	1
33	301340	Gasket, Fresh Water Pump	1
34	200690	Seal, Fresh Water Pump	4
35	301339	Impeller, Water Pump	1
36	301965	Belt, Fan, 35.6 x 0	2
37	200609	Pulley, Crankshaft	1
38	302754	Bolt, Crank Pulley	1
39	302391	Adapter, 3/8 to 5/8, Brass (Optional)	2
40	300236	Hose, Water Heater (Optional)	2

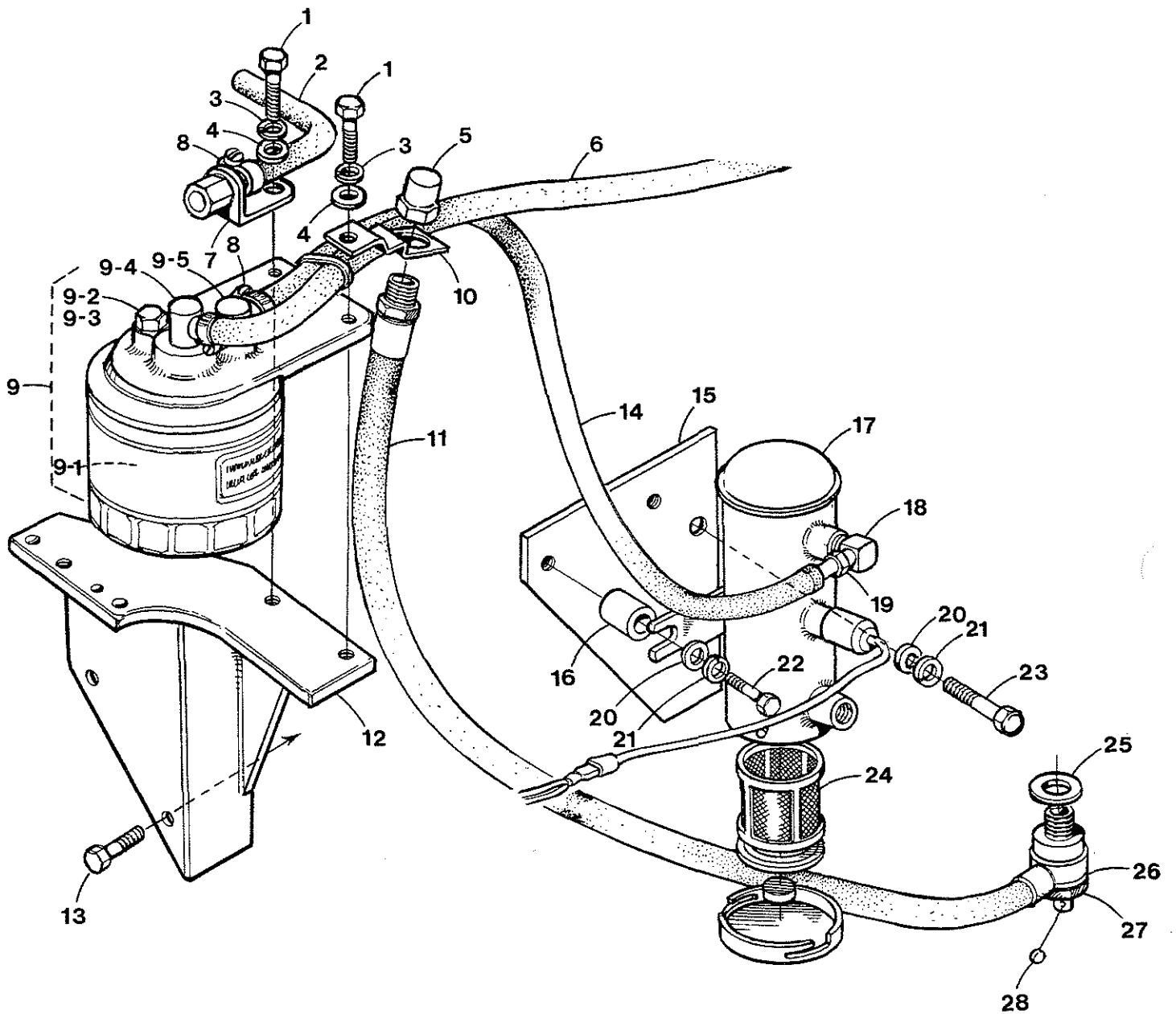
M3-20B Raw Water Pump



M3-20B Raw Water Pump

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	042175	Raw Water Pump (Includes Key No's 6 thru 26)	1
2	302217	Elbow, 1/2 NPT x 5/8 Hose 90	2
3	011341	Clamp, Hose 08	2
4	299823	Hose, 5/8 (21 Inches Required)	1
5	302877	O-Ring	1
6	302875	Impeller, Pump	1
7	302878	Plate, Pump End	1
8	302879	Gasket, Pump	1
9	302876	Washer, Flat	1
10	302885	Assembly, Seal & Seat	1
11	302880	Seat, Seal	1
12	302881	Seal, Water Pump	1
13	302866	Slinger, Pump	1
14	018146	Ring, Internal Retaining	1
15	302884	Bearing, Ball	2
16	302874	Key, Woodruff #61	1
17	200536	Shaft, Water Pump	1
18	018145	Ring, External Retaining	3
19	032183	Lockwasher, 1/4-20	3
20	018143	Capscrew, Impeller Cover	3
21	303172	Seal, Pump	1
22	302678	Gasket, Raw Water Pump Mount	1
23	302871	Screw, Cam	1
24	302872	Cam, Pump	1
25	020628	Capscrew, M6 x 25 DIN 933	2
26	031783	Lockwasher, M6 DIN 127	2
27	302679	Clamp, Raw Water Pump Mount	2

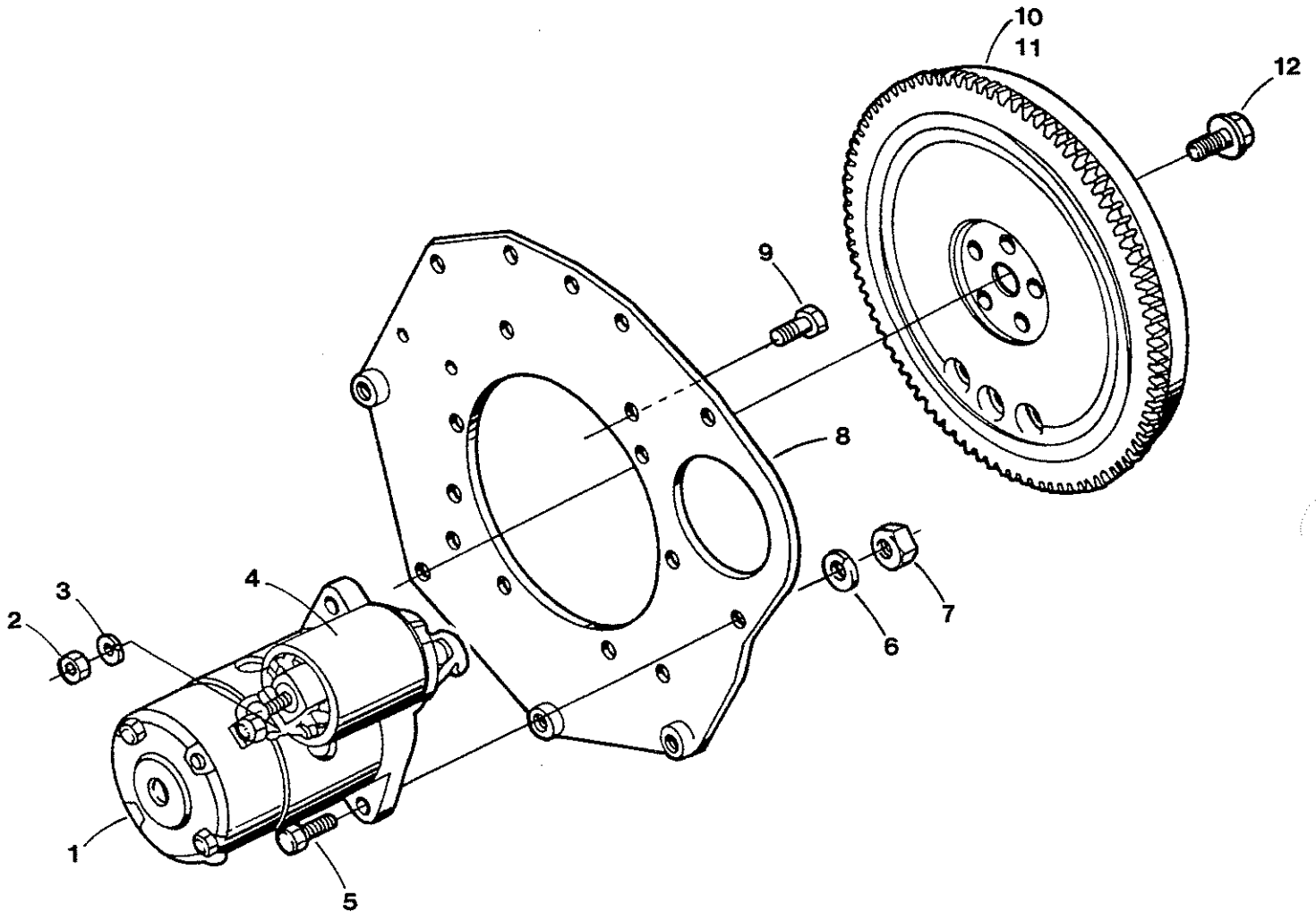
M3-20B Fuel Filter and Oil Drain Hose Systems



M3-20B Fuel Filter and Oil Drain Hose Systems

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	031555	Capscrew, 5/16 NCx1	2
2	036869	Hose, Fuel, 3/16 ID USCG Type A (6 Inches Required)	1
3	031758	Lockwasher, Split 5/16	2
4	031759	Washer, Flat 5/16	2
	037454	Assembly, Oil Sump Pump Drain Hose (Includes Key No's 5, 10, 11, 27, 28, 29 and 30)	1
5	024905	Cap, 1/4NPT (Brass)	1
6	039140	Hose, Fuel 5/16 ID USCG Type A (10 Inches Required)	1
7	300941	Assembly, Fuel Return Connector	1
8	017298	Clamp, Hose 06	2
9	298853	Assembly, Fuel Filter	1
9-1	298854	Element, Filter	1
9-2	299855	Plug, Fuel Filter Bleed	1
9-3	299856	O-Ring	1
9-4	200654	Connector, Fuel Filter	1
9-5	200653	Connector, Fuel Filter	1
10	024922	Bracket, Sump Drain Hose	1
11	030848	Hose, Sump Drain	1
12	303032	Bracket, Fuel Filter	1
13	021558	Capscrew, M8 x 35 DIN 933	2
14	039140	Hose, Fuel 5/16 ID USCG Type A (11 Inches Required)	1
15	200252	Bracket, Lift Pump	1
16	021885	Spacer	2
17	301385	Pump, Lift 12VDC	1
18	022513	Elbow, Male 1/8 NPT x 5/16	1
19	021485	Adapter, 5/16 Tube 1/2 x 20 Male SW	1
20	031753	Washer, Flat 1/4 SAE (Steel)	4
21	031752	Lockwasher, Split 1/4 MED (Steel)	4
22	031506	Capscrew, 1/4 NC x 1-1/4"	2
23	031505	Capscrew, 1/4 NC x 1"	2
24	300128	Filter, Lift Pump	1
25	036647	Washer, Flat 1"	1
26	036493	Washer, 1.00 OD, 0.708 ID	1
27	036823	Bolt, Banjo-Sump M12x1.25	1
28	037393	Seal, Lead Wire	1

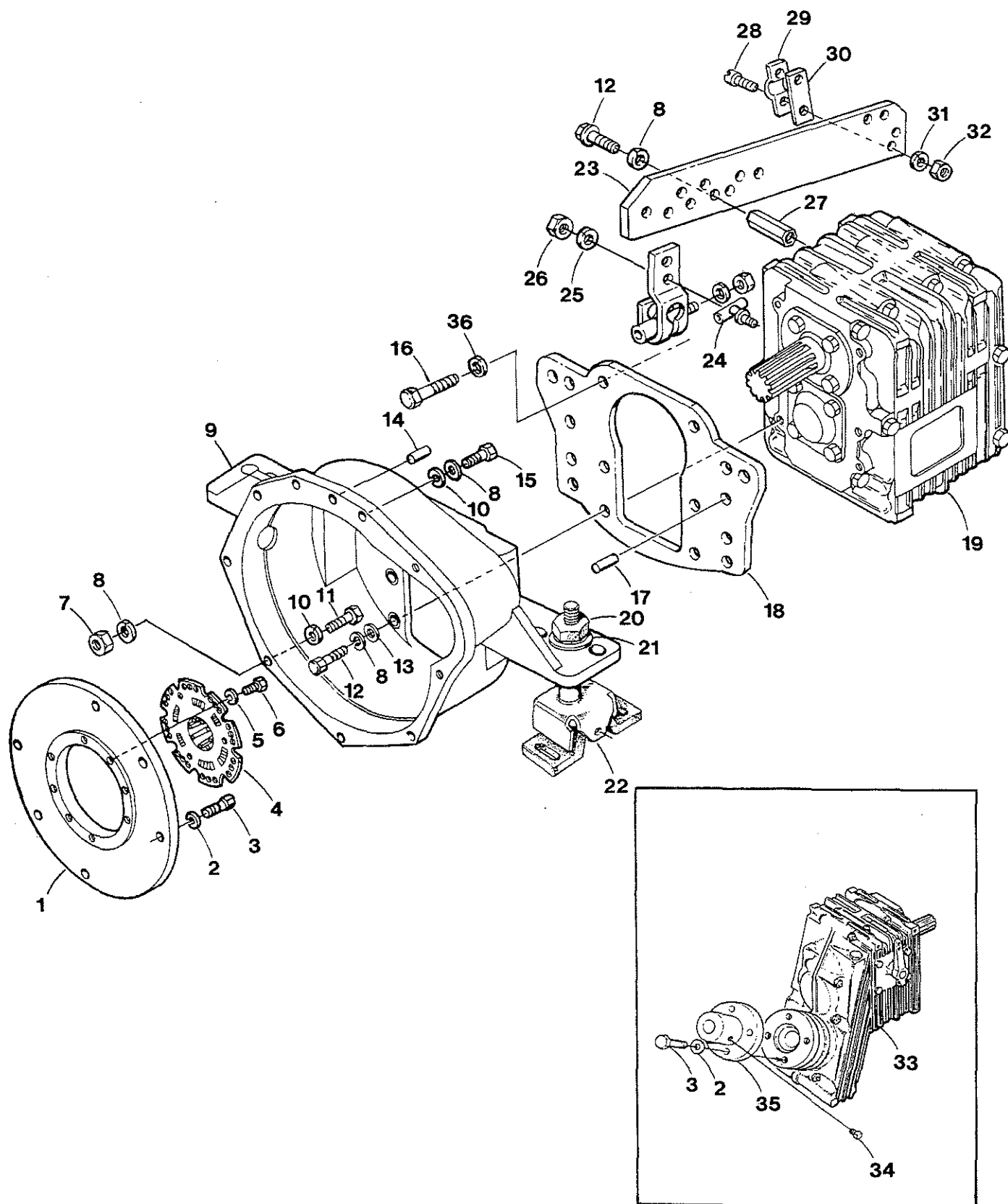
M3-20B Flywheel and Starter Assembly



M3-20B Flywheel and Starter Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	299512	Motor, Starter	1
2	300208	Nut, Dipstick	1
3	031786	Lockwasher, M8 DIN 127	1
4	300538	Solenoid, Starter	1
5	299514	Capscrew, M8 x 28	2
6	031786	Lockwasher, M8 DIN 127	2
7	301297	Nut, Self-Locking, M8	2
8	200619	Plate, Back	1
9	035792	Screw, Hex Head Cap, M8 x 16 JIS w/Lockwasher	10
10	200606	Assembly, Flywheel	1
11	200594	Gear, Ring	1
12	302733	Bolt, Flywheel	5

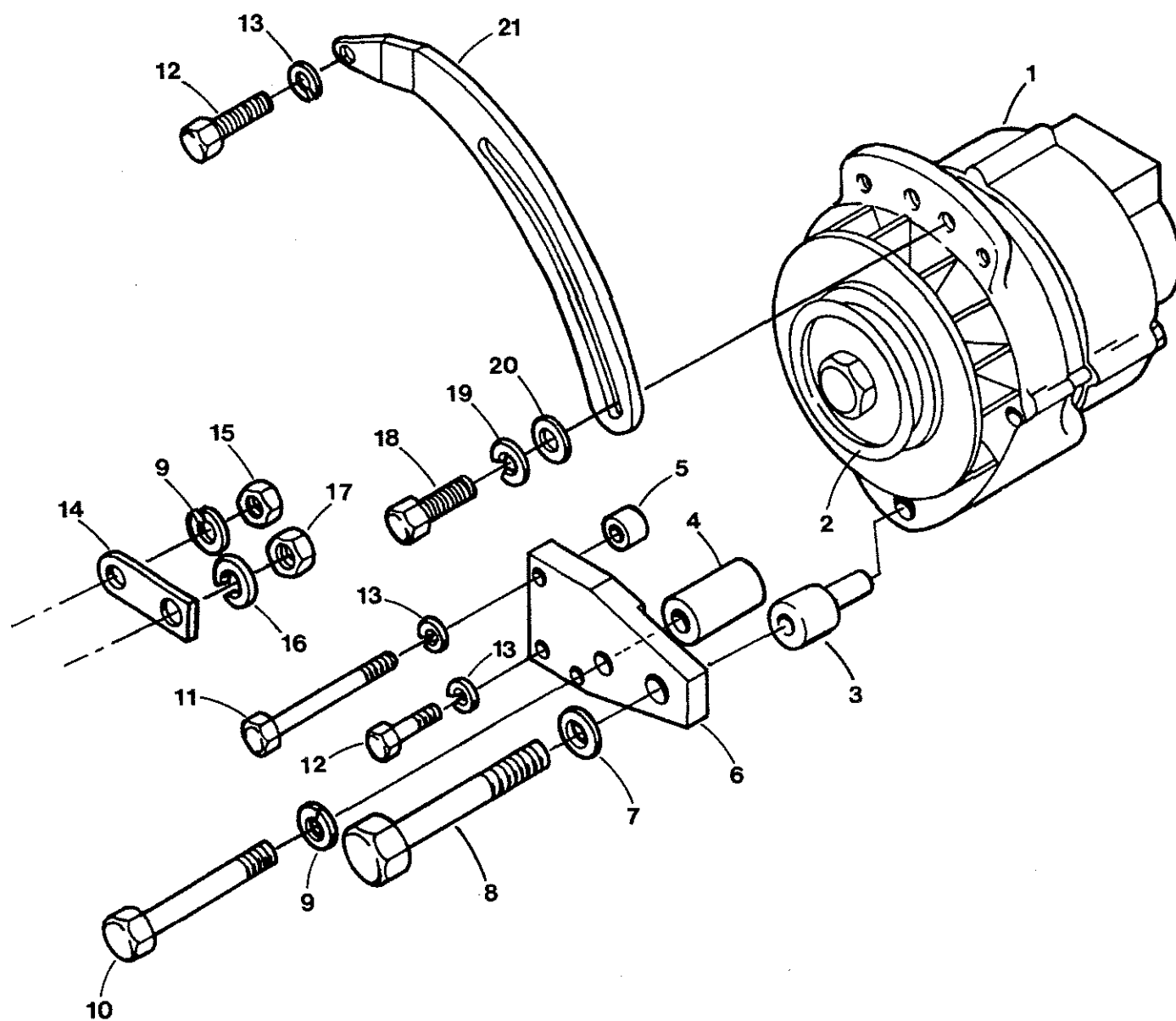
M3-20B Bell Housing and Transmission



M3-20B Bell Housing and Transmission

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	301914	Adapter, Damper to Flywheel	1
2	019262	Lockwasher, M10 DIN 127	8
3	013629	Capscrew, M10 x 25 DIN 933	12
4	299156	Damper, HBW-5	1
5	031780	Lockwasher, M5 DIN 127	8
6	298458	Capscrew, M5 x 12 DIN 912 6R 12.9	8
7	018242	Nut, Hex M8 DIN 934	2
8	031786	Lockwasher, M8 DIN 127	6
9	200367	Housing, Flywheel	1
10	031787	Washer, M8 DIN 125	6
11	013619	Capscrew, M8 x 30 DIN 933	1
12	013630	Capscrew, M8 x 25 DIN 933	7
13	031759	Washer, Flat 5/16 SAE (Steel)	6
14	301037	Dowel, 8MM x 16MM	1
15	298539	Capscrew, M8 x 28 DIN 933	4
16-1	020650	Capscrew, M8 x 18 DIN 933	6
16-2	018813	Capscrew, M10 x 20 DIN 933 (V-Drive)	6
17	019039	Dowel, 3/8 x 3/4	2
18-1	200333	Plate, HBW Transmission Adapter	1
18-2	200371	Adapter, HBW 150V	1
19-1	300115	Transmission, 2:1 HBW 50	1
19-2	300261	Transmission, 1.5:1 HBW 100	1
19-3	299942	Transmission, 2.1:1 HBW 150V	1
20	040966	Nut, Jam M16 Self-Locking	2
21	031828	Washer, Flat 5/8 SAE (Steel)	2
22	040510	Isolator, Marine 75-130 LB.	2
23	032161	Bracket, Shift, HBW Rear Entry	1
24	033482	Balljoint, 1/4 NF Male 10-32 FEM	1
25	031752	Lockwasher, 1/4 Split MED (Steel)	1
26	031754	Nut, Hex, 1/4-28 NF (Steel)	1
27	030756	Nut, Pillar, M8 x 1.25 x 1-11/16 Lg.	2
28	031873	Screw, Binding Head, 10-5/8 (Stainless Steel)	2
29	013325	Clamp, Cable	1
30	013870	Shim, Cable Clamp Bottom	1
31	031849	Lockwasher, 10 Split (Stainless Steel)	5
32	031847	Nut, Hex, 10-32 Machine (Stainless Steel)	5
33-1	031249	Gear, V-Drive 1.8:1	1
33-2	030048	Gear, V-Drive 2.1:1	1
33-3	031250	Gear, V-Drive 3:1	1
34-1	023651	Setscrew, Coupling 3/8 NC x 3/4	2
34-2	023652	Setscrew, Coupling 3/8 NC x 1	2
35-1	023706	Coupling, 0.75 Bore	1
35-2	023707	Coupling, 0.875 Bore	1
35-3	023708	Coupling, 1.0 Bore	1
35-4	023709	Coupling, 1.125 Bore	1
35-5	023710	Coupling, 1.25 Bore	1
35-6	023711	Coupling, 1.375 Bore	1
35-7	023712	Coupling, 1.5 Bore	1
36-1	031786	Lockwasher, M8 DIN 127	6
36-2	019262	Lockwasher, M10 DIN 127 (V-Drive)	6

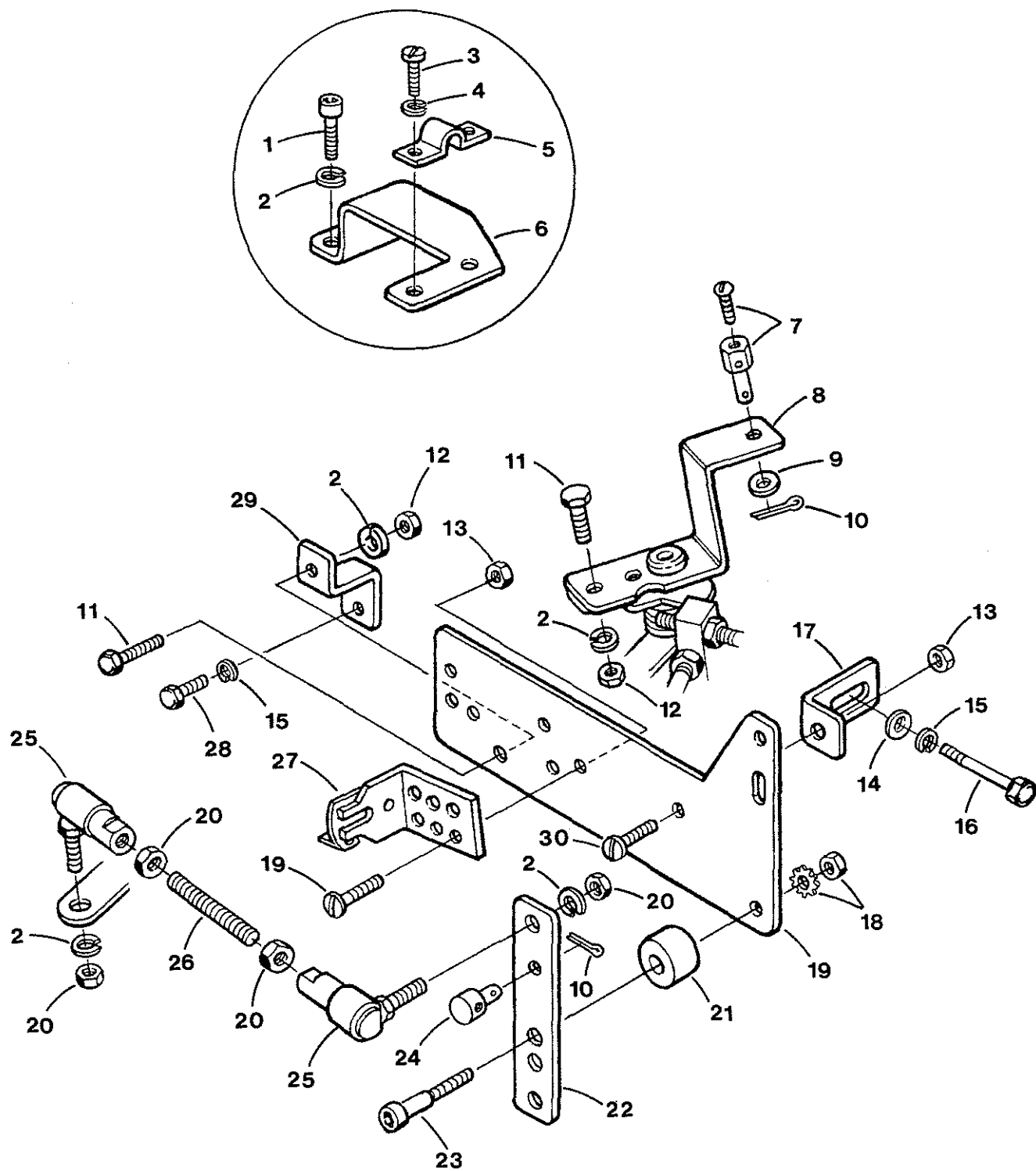
M3-20B Alternator Assembly



M3-20B Alternator Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	042848	Alternator, 12VDC	1
	300746	Alternator, 72 AMP (Optional)	1
2	011548	Pulley, Alternator	1
3	042835	Spacer, Alternator	1
4	303126	Spacer	1
5	303127	Spacer	2
6	303125	Bracket, Alternator	1
7	031765	Washer, Flat 3/8 (Steel)	1
8	031613	Capscrew, 3/8 NC x 3	1
9	031786	Lockwasher, M8 DIN 127	3
10	303148	Capscrew, M8 x 70 DIN 933	1
11	039248	Capscrew, M6 x 70 DIN 931	1
12	017012	Capscrew, M6 x 16 DIN 933	2
13	031783	Lockwasher, M6 DIN 127	3
14	303128	Support, Alternator	1
15	031847	Nut, Hex 10-32 Machine (Stainless Steel)	2
16	031764	Lockwasher, Split 3/8 (Steel)	1
17	031762	Nut, Hex 3/8-16 NC (Steel)	1
18	031553	Capscrew, 5/16 NC x 3/4	1
19	031758	Lockwasher, Split 5/16 (Steel)	3
20	033381	Washer, Flat	1
21	303124	Strap, Alternator Adjusting	1

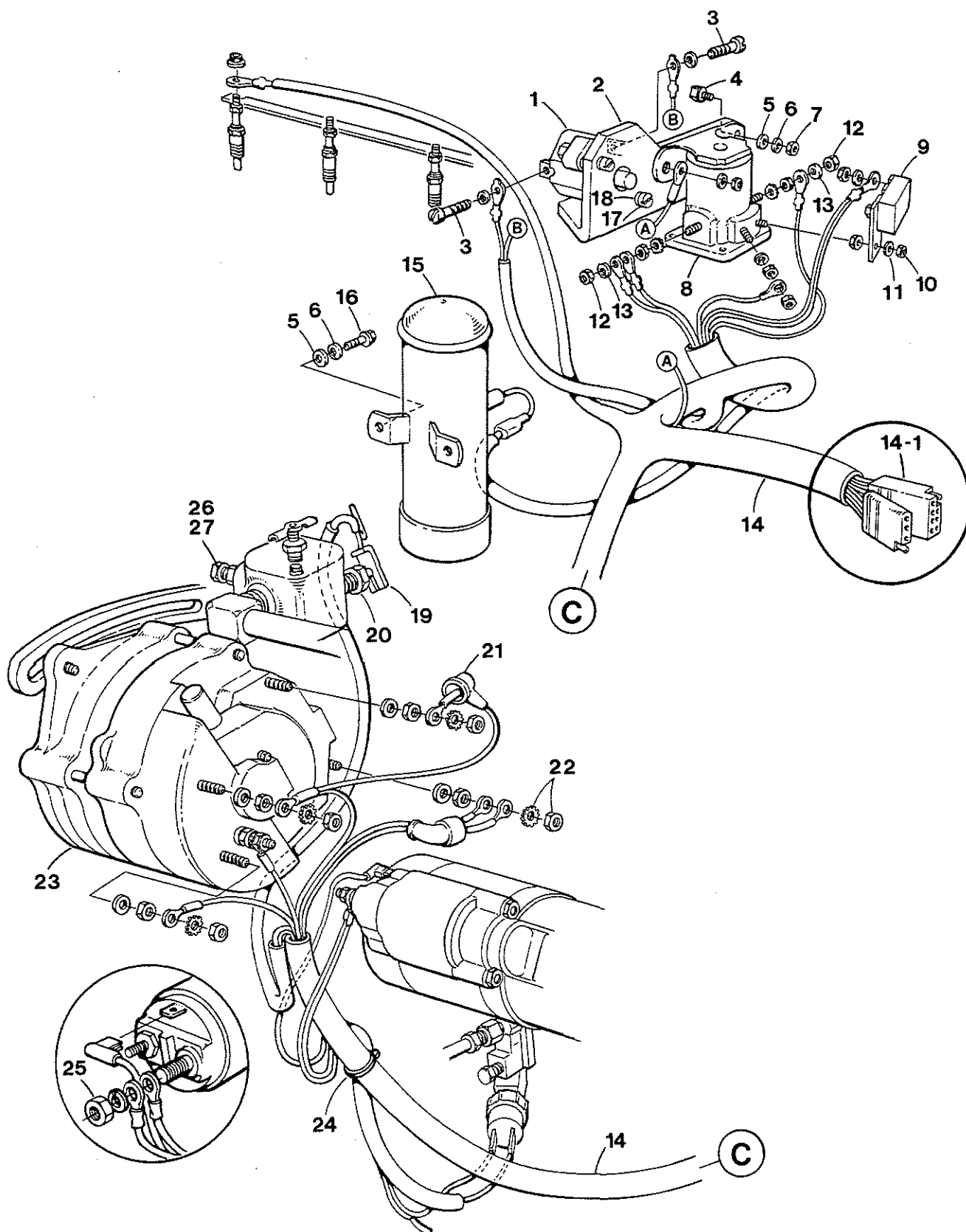
M3-20B Throttle Assembly



M3-20B Throttle Assembly

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	017498	Capscrew, Socket Head 1/4 NC x 3/4	2
2	031752	Lockwasher, Split 1/4 (Steel)	4
3	031872	Screw, Binding Head, 10-32 x 1/2 (Stainless Steel)	6
4	031849	Lockwasher, Split 10 (Stainless Steel)	2
5	299653	Clamp, Cable	1
6	303182	Bracket, Stop Cable	1
7	299864	Pivot, Stop Lever	1
8	303040	Lever, Stop Extension	1
9	031784	Washer, M6 DIN 125	1
10	011796	Pin, Cotter, 1/16 x 1/2	2
11	031502	Capscrew, 1/4 NC x 5/8	1
12	031750	Nut, Hex, 1/4 - 20	3
13	200125	Nut, Hex, 10-32 KEPS	3
14	031753	Washer, Flat 1/4 (Steel)	1
15	031783	Lockwasher, M6 DIN 127	1
16	034212	Capscrew, M6 x 75 DIN 931	1
17	300979	Support, Throttle Bracket	1
18	031904	Nut, Hex 10-24 KEPS (Stainless Steel)	1
19	302635	Bracket, Throttle	1
20	031754	Nut, Hex, 1/4 - 28 NF (Steel)	4
21	300090	Spacer	1
22	300826	Lever, Throttle	1
23	231452	Screw, Shoulder, 1/4 x 5/8 10-24	1
24	299019	Pivot, Throttle Cable	1
25	299767	Balljoint, 1/4 NF	2
26	300978	Rod, Threaded, 1/4 - 28 NF 1-5/8 LG	1
27	298630	Clip, Cable	1
28	018804	Capscrew, M6 x 20 DIN 933	1
29	302636	Support, Throttle Bracket	1
30	031872	Screw, Binding Head, 10-32 x 1/2 (Stainless Steel)	3

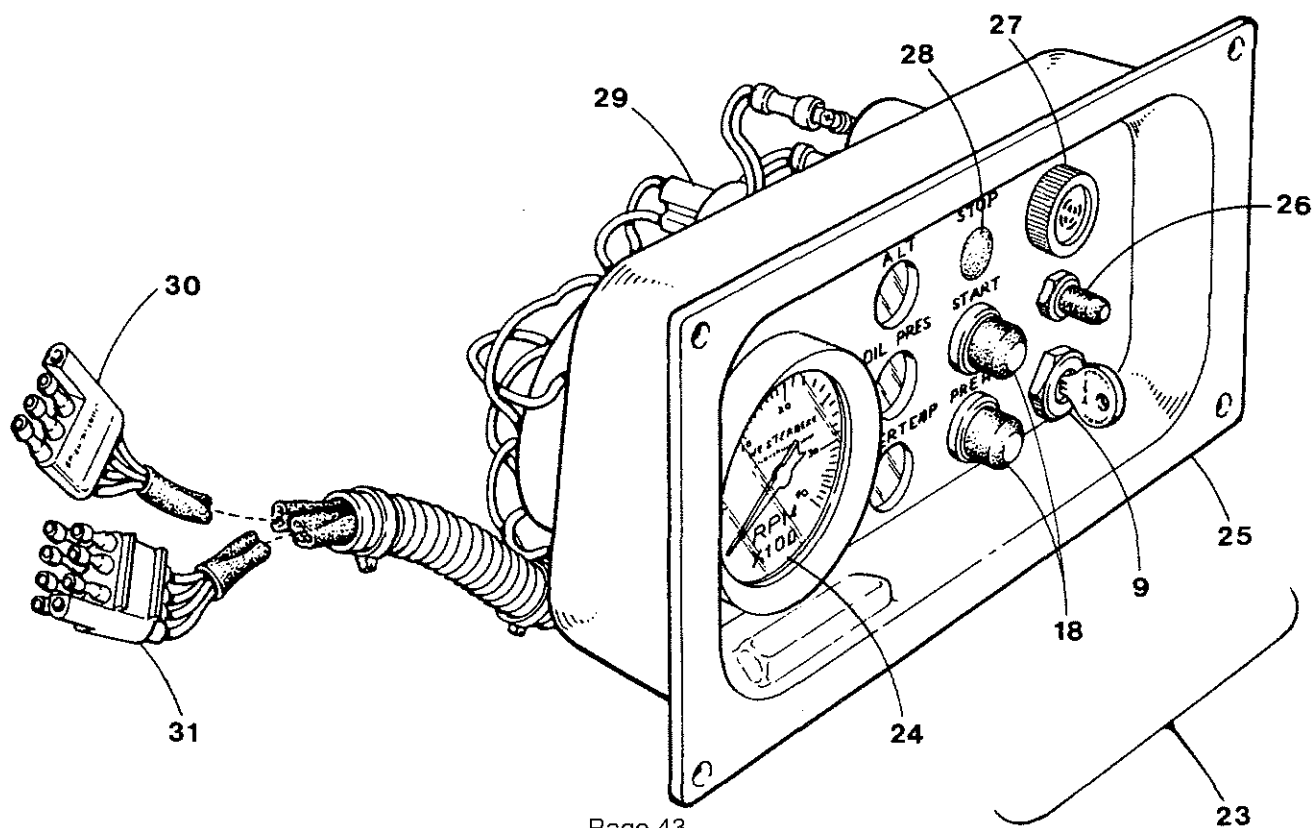
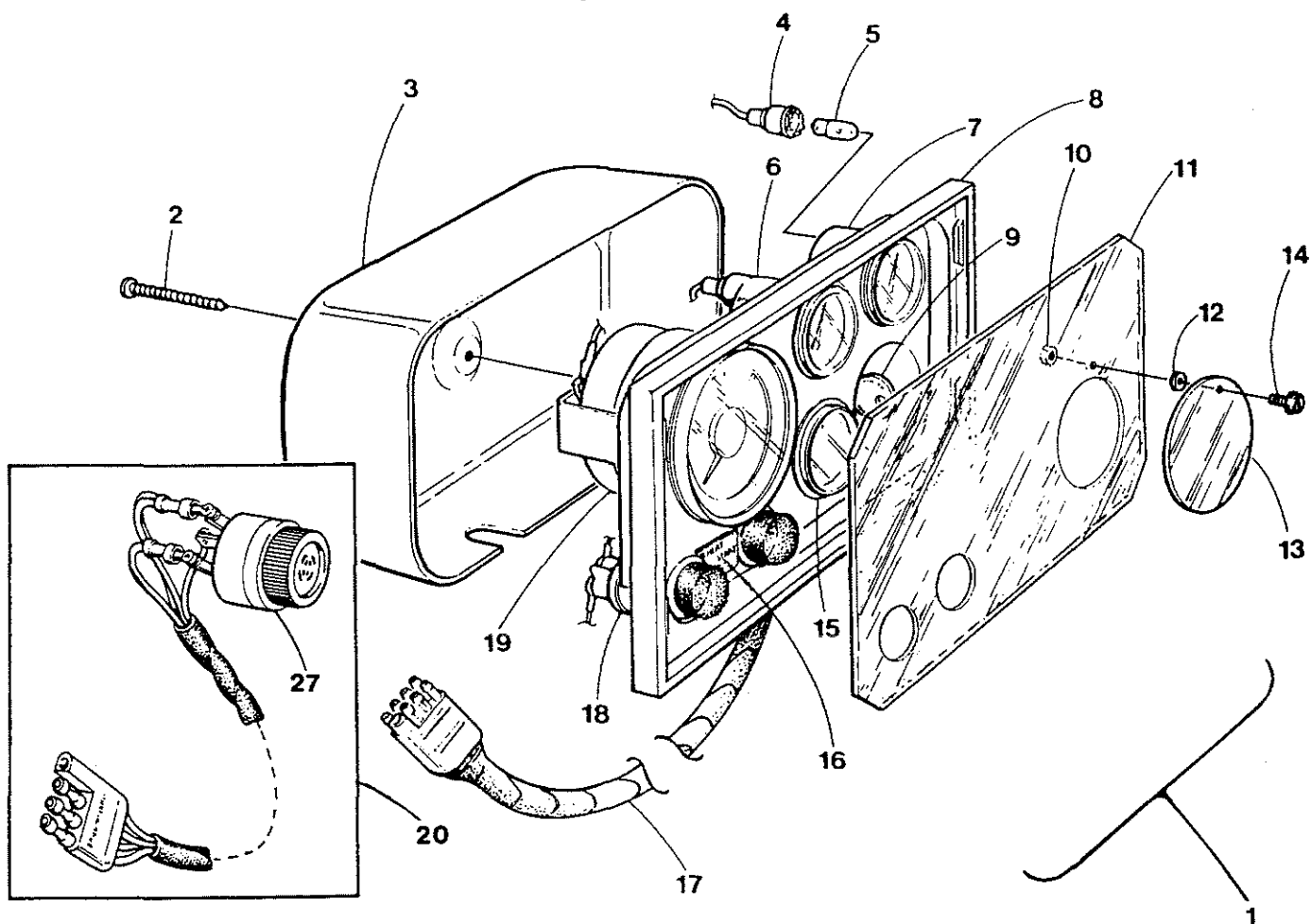
M3-20B Electrical System



M3-20B Electrical System

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	024683	Breaker, Circuit 20 AMP	1
2	200257	Bracket, Breaker Solenoid	1
3	031861	Screw, Binding Head, 8-32 x 1/4 (Stainless Steel)	2
4	031503	Capscrew, 1/4 NC x 3/4	2
5	031753	Washer, Flat 1/4 SAE (Steel)	4
6	031752	Lockwasher, Split 1/4 MED (Steel)	6
7	031750	Nut, Hex, 1/4 - 20 MED (Steel)	2
8	024639	Solenoid, 12VDC, 35AMP, Grounded	1
9	036563	Assembly, Circuit Breaker 10AMP	1
10	031847	Nut, Hex, 10-32 Machine (Stainless Steel)	2
11	031849	Lockwasher, Split 10 MED (Stainless Steel)	2
12	031760	Nut, Hex 5/16 x 24 (Steel)	2
13	031758	Lockwasher, Split 5/16 MED (Steel)	3
14-1	200260	Harness, Marine	1
14-2	200268	Harness, Catalina	1
15	301385	Pump, Lift 12VDC	1
16	031506	Capscrew, 1/4 NC x 1-1/4	2
17	043480	Screw, Hex Washer Head, 8-32 x 7/8	2
18	031843	Washer, Flat 8	2
19	030125	Switch, Water Temperature, NO, 1/8 NPT	1
20	037453	Bushing, Switches 1/4 NPT x 1/8 NPT	1
21	303109	Boot, Alternator	2
22	031904	Nut, Hex, 10-24 KEPS (Stainless Steel)	2
23-1	042848	Alternator, 12VDC	1
23-2	300746	Alternator, 72AMP (Optional)	1
24	023809	Tiewrap, 7.25 LG	10
25	018242	Nut, Hex, M8 DIN 934	1
26-1	035109	Sender, Water Temperature 1/8 NPT (Catalina only)	1
26-2	019369	Plug, Hex Head, 1/8 NPT (Brass)	1
27	031847	Nut, Hex 10-32 (Stainless Steel)	1

M3-20B Propulsion Instrument Panels



M3-20B Propulsion Instrument Panels

<u>Key #</u>	<u>Part #</u>	<u>Description</u>	<u>Qty</u>
1	200350	Panel, Admiral including Alarm & Senders	1
2	030913	Screw, Slotted Pan Head, 10 x 2 (Stainless Steel)	1
3	030119	Cover, Panel Rear	1
4	035118	Holder, Lamp Wedge Base	3
5	035114	Lamp, Instrument 12VDC Wedge Base	3
6	037601	Meter, Water Temperature	1
7	037603	Meter, Oil Pressure 100 PSI	1
8	033865	Panel, Plate	1
9	033693	Keyswitch, Off-On	1
10	030003	Nut, Nylon Locking 6-32	1
11	033684	Cover, Faceplate	1
12	030002	Spacer, Nylon	1
13	024996	Window, Keyswitch Cover	1
14	030001	Screw, Nylon 6-32 x 1/2 Washer Head	1
15	037605	Voltmeter, 12VDC	1
16	033682	Decal, Switch Identification	1
17	030148	Cable, Panel to Engine 8 Pin	1
18-1	033764	Switch, Pushbutton Start/Preheat	2
18-2	019031	Cap, Switch Cover Replacement	2
19	011917	Meter, Tachometer-Hour	1
20	036829	Assembly, Alarm	1
21	035825	Wire, Power to Meter Lamps	3
22	036844	Diagram, Wiring Engine w/Admiral Panel	1
23	200362	Panel, Captain	1
24	036590	Meter, Tachometer	1
25	036043	Panel, Plate	1
26-1	036479	Switch, Test	1
26-2	036490	Cap, Switch	1
27	013355	Buzzer, Alarm	1
28	030946	Plug, Nylon	1
29-1	024947	Lamp, 12VDC	3
29-2	036483	Holder, Lamp	3
30	036626	Harness, Panel to Engine 4 Pin	1
31	036627	Harness, Panel to Engine 8 Pin	1
32	036477	Assembly, Terminal-Diode	1
33	036544	Spacer, Terminal-Diode Assembly	2
34	036545	Screw, 6-32 x 3/4 Tapping SS	2
35	036467	Diagram, Wiring Engine w/Captain Panel	1
36	036630	Drawing, Template to Install Either Panel	1

M3-20B Numerical Index

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018143	30	20	024906	12	8	031759	36	13
018145	30	18	024906	14	35	031760	42	12
018146	30	14	024906	28	30	031762	38	17
018242	36	7	024922	32	10	031764	14	22
018242	42	25	024947	44	29-1	031764	38	16
018804	40	28	024952	2	26	031765	38	7
018813	36	16-2	024952	6	26	031766	14	21
019031	44	18-2	024977	14	30	031780	26	11
019039	36	17	024996	44	13	031780	36	5
019059	14	9	030001	44	14	031783	8	12-2
019059	28	18	030002	44	12	031783	8	16
019262	2	27	030003	44	10	031783	8	21-2
019262	6	27	030048	36	33-2	031783	14	28
019262	36	2	030119	44	3	031783	16	7
019262	36	36-2	030125	28	8	031783	18	13
019321	14	13	030125	42	19	031783	28	2
019369	4	6	030146	28	1	031783	28	16-2
019369	42	26-2	030146	28	16-1	031783	30	26
020628	8	17	030148	44	17	031783	38	13
020628	28	22	030166	28	23	031783	40	15
020628	28	28	030756	36	27	031784	18	14
020628	30	25	030760	45	10-1	031784	28	3
020650	36	16-1	030848	32	11	031784	40	9
021485	32	19	030913	44	2	031786	34	3

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031786	36	36-1	036483	44	29-2	200266	14	37-3
031786	38	9	036490	44	26-2	200268	42	14-2
031787	36	10	036493	32	26	200333	36	18-1
031828	2	24	036544	44	33	200350	44	1
031828	6	24	036545	44	34	200362	44	23
031828	36	21	036557	45	10-2	200367	36	9
031843	42	18	036563	42	9	200371	36	18-2
031847	36	32	036590	44	24	200385	14	37-2
031847	38	15	036626	44	30	200536	30	17
031847	42	10	036627	44	31	200550	45	13
031847	42	27	036630	44	36	200562	45	14
031849	36	31	036647	32	25	200563	10	6-1
031849	40	4	036660	14	36-1	200564	18	3
031849	42	11	036823	32	27	200565	26	12
031861	42	3	036829	44	20	200566	12	3
031872	40	3	036838	14	7	200567	24	11-1
031872	40	30	036844	44	22	200568	20	4
031873	36	28	036869	24	19	200569	26	2
031904	40	18	036869	32	2	200570	26	1
031904	42	22	037323	4	5	200571	24	11
032161	36	23	037393	32	28	200572	16	11
032183	30	19	037453	28	6	200574	16	12
032480	4	4	037453	42	20	200575	16	13
032974	45	5	037601	44	6	200576	22	5
033327	45	7	037603	44	7	200577	10	26
033381	38	20	037605	44	15	200578	10	23
033482	36	24	038500	22	23	200579	20	7
033682	44	16	038500	28	15	200581	10	1-2
033684	44	11	039140	32	6	200582	10	3-1
033693	44	9	039140	32	14	200583	10	4
033764	44	18-1	039248	8	21-1	200584	10	3-2
033865	44	8	039248	38	11	200585	10	5-1
034212	8	12-1	039385	4	1	200586	10	5
034212	40	16	039874	16	6	200587	10	5-2
034565	28	24	040384	24	18	200588	4	9
035109	28	7	040510	2	25	200589	2	9
035109	42	26-1	040510	6	25	200589	6	9
035114	44	5	040510	36	22	200590	16	27
035118	44	4	040622	24	8	200591	24	11-3
035747	14	39-1	040966	2	23	200592	24	1
035785	4	12	040966	6	23	200593	24	2
035785	16	21	040966	36	20	200594	34	11
035785	20	10	042175	8	18	200595	24	15
035786	10	17	042175	30	1	200596	2	16
035787	10	19	042835	38	3	200596	6	16
035789	12	18	042848	38	1	200597	2	4
035792	34	9	042848	42	23-1	200597	6	4
035799	20	5	043480	42	17	200598	10	1-1
035825	44	21	200125	40	13	200600	10	25
036043	44	25	200252	32	15	200601	12	5
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200606	34	10	299490	10	2	301222	8	10
200607	24	3	299502	10	16-1	301227	10	24
200608	24	16	299503	10	14-1	301228	10	20
200609	28	37	299512	34	1	301229	10	22
200610	10	6	299514	34	5	301231	10	18
200611	20	11	299534	16	26	301235	10	27
200612	20	12	299549	10	7	301237	12	11
200614	18	10	299549	16	18	301241	12	4
200616	22	16	299653	40	5	301241	22	9
200617	24	13	299767	40	25	301241	24	10
200619	34	8	299823	14	3	301246	18	1
200653	32	9-5	299823	28	11	301247	18	2
200654	32	9-4	299823	30	4	301248	18	4
200690	28	34	299855	32	9-2	301249	18	5
200691	28	29	299856	32	9-3	301250	18	6
200692	28	26	299864	40	7	301251	18	7
200693	28	27	299942	36	19-3	301255	18	9
200694	12	15	299967	4	8	301256	18	8
200695	16	8	300090	40	21	301257	18	15
201009	45	15	300115	36	19-1	301258	18	16
201011	45	1	300128	32	24	301259	18	18
201012	45	2	300160	8	4	301260	18	11
201013	45	3	300198	16	22	301261	20	8
201014	45	4	300208	34	2	301281	10	9
201015	45	11	300236	28	40	301282	10	8-1
201016	45	12	300237	28	12	301287	10	12
231452	40	23	300261	36	19-2	301289	10	11
287077	14	25	300429	12	20	301297	34	7
298458	36	6	300538	34	4	301299	24	7
298539	36	15	300716	2	8	301300	24	9
298599	14	23	300716	6	8	301301	26	3
298600	14	24	300746	42	23-2	301303	24	12
298630	40	27	300754	10	15-2	301306	24	6
298659	22	19	300755	10	15-3	301307	24	5
298740	12	2	300813	10	6-2	301312	16	14
298794	24	4	300826	40	22	301313	16	10
298820	2	15	300941	24	17	301314	16	5
298820	6	15	300941	32	7	301317	16	19
298826	22	11	300977	12	7	301319	16	16
298853	32	9	300978	40	26	301320	16	15
298854	32	9-1	300979	40	17	301324	26	5
298974	14	19	300983	12	22	301325	22	13
299019	40	24	301037	36	14	301327	22	1
299156	36	4	301061	14	4	301328	22	4
299360	2	3	301078	28	20	301329	28	25
299360	6	3	301089	28	21	301333	28	14
299362	2	21	301201	2	1	301335	28	31
299362	6	21	301201	6	1	301339	28	35
299365	8	2	301203	2	10	301340	28	33
299365	12	23	301203	6	10	301358	28	13
299365	22	8	301205	2	14	301385	32	17

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301399	12	14	301648	10	16-3	302747	26	4
301416	22	22	301649	10	14-2	302750	22	7
301485	2	20	301650	10	14-3	302754	28	38
301485	6	20	301713	20	14	302755	28	17
301490	8	9	301749	16	1	302756	28	32
301493	22	20	301750	16	2	302761	4	13
301496	22	15	301751	16	3	302762	4	11
301498	18	19	301752	16	4	302769	12	17
301543	2	19	301914	36	1	302770	12	16
301543	6	19	301926	12	21	302771	18	17
301545	2	11	301965	28	36	302777	24	14
301545	6	11	302083	14	27	302782	16	17
301547	2	17	302207	14	37-1	302785	14	6
301547	6	17	302217	14	38-1	302866	30	13
301551	8	20	302217	28	9	302871	30	23
301552	8	13	302217	30	2	302872	30	24
301554	8	5	302258	14	38-2	302874	30	16
301555	8	7	302391	28	39	302875	30	6
301556	8	6	302400	14	1	302876	30	9
301557	12	12	302429	2	2	302877	30	5
301558	12	10	302429	6	2	302878	30	7
301559	12	13	302485	22	26	302879	30	8
301560	12	9	302587	2	5	302880	30	11
301565	18	20	302587	6	5	302881	30	12
301566	18	21	302588	2	7	302884	30	15
301568	20	9	302588	6	7	302885	30	10
301569	20	13	302589	2	6	302981	45	8
301571	16	25	302589	6	6	303030	2	22
301572	16	23	302593	8	11	303030	6	22
301573	16	24	302625	8	8	303031	2	
301574	16	20	302635	40	19	303031	6	
301575	22	18	302636	40	29	303032	32	12
301576	22	17	302678	8	19	303040	40	8
301578	22	21	302678	30	22	303109	42	21
301580	22	29	302679	8	15	303124	38	21
301581	22	28	302679	30	27	303125	38	6
301586	26	6	302684	2	12	303126	38	4
301587	26	8	302684	6	12	303127	38	5
301588	22	2	302692	8	1	303128	38	14
301588	26	7	302693	8	3	303145	14	17
301589	26	9	302697	8	14	303146	14	18
301590	26	10	302698	10	21	303148	38	10
301591	22	10	302707	12	1	303170	24	11-2
301592	22	14	302714	20	3	303172	30	21
301593	22	6	302717	20	2	303182	40	6
301594	22	3	302718	20	1			
301639	10	5-3	302719	20	6			
301640	10	5-4	302726	10	5-5			
301641	10	8-2	302731	10	10			
301642	10	8-3	302733	34	12			
301645	10	13-2	302744	22	24			
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1	201011	Kit A, Spare Parts	1
2	201012	Kit B, Spare Parts Extended Cruising	1
3	201013	Gasket Set, Upper	1
4	201014	Gasket Set, Complete	1
5	032974	Filter, Primary Fuel Seperator	1
6	015010	Strainer, Sea Water	1
7	033327	Valve, Anti-Siphon	1
8	302981	Paint, Blue Aerosol Spray Can	1
10-1	030760	Harness, 15 Foot Panel Extension 8 Pin	1
10-2	036557	Harness, 15 Foot Panel Extension 4 Pin	1
11	201015	Filter Kit, Remote Lube Oil	1
12	201016	Kit, Fuel Hardware	1
13	200550	Manual, Operator	1
14	200562	Manual, Service	1
15	201009	Parts List	1
16	024177	Kit, Remote Fresh Water Surge Tank	1