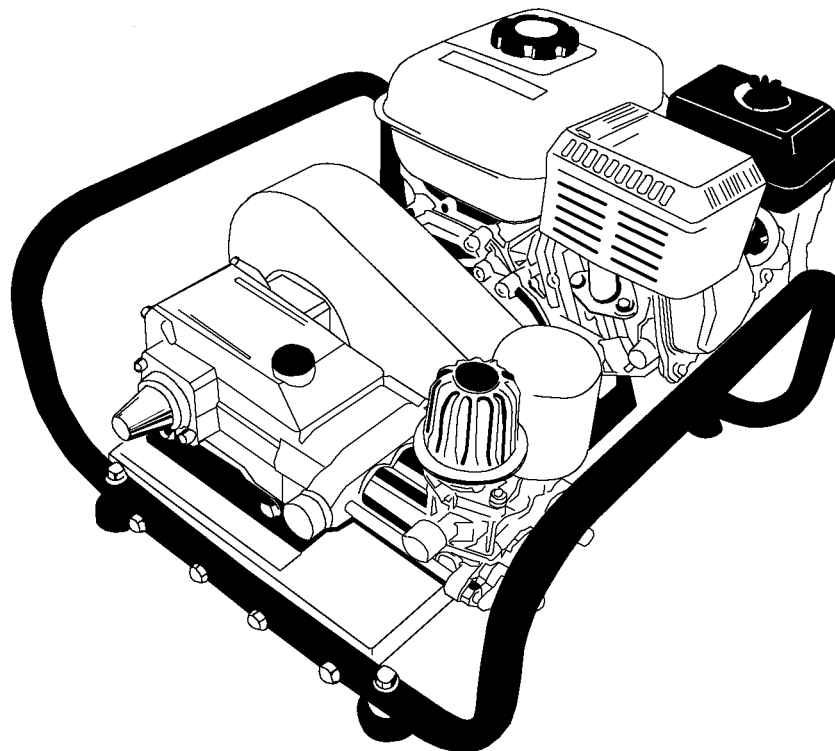


MARUYAMA

ILLUSTRATED PARTS LIST

MS330ECH

PUMP/ENGINE PACKAGE

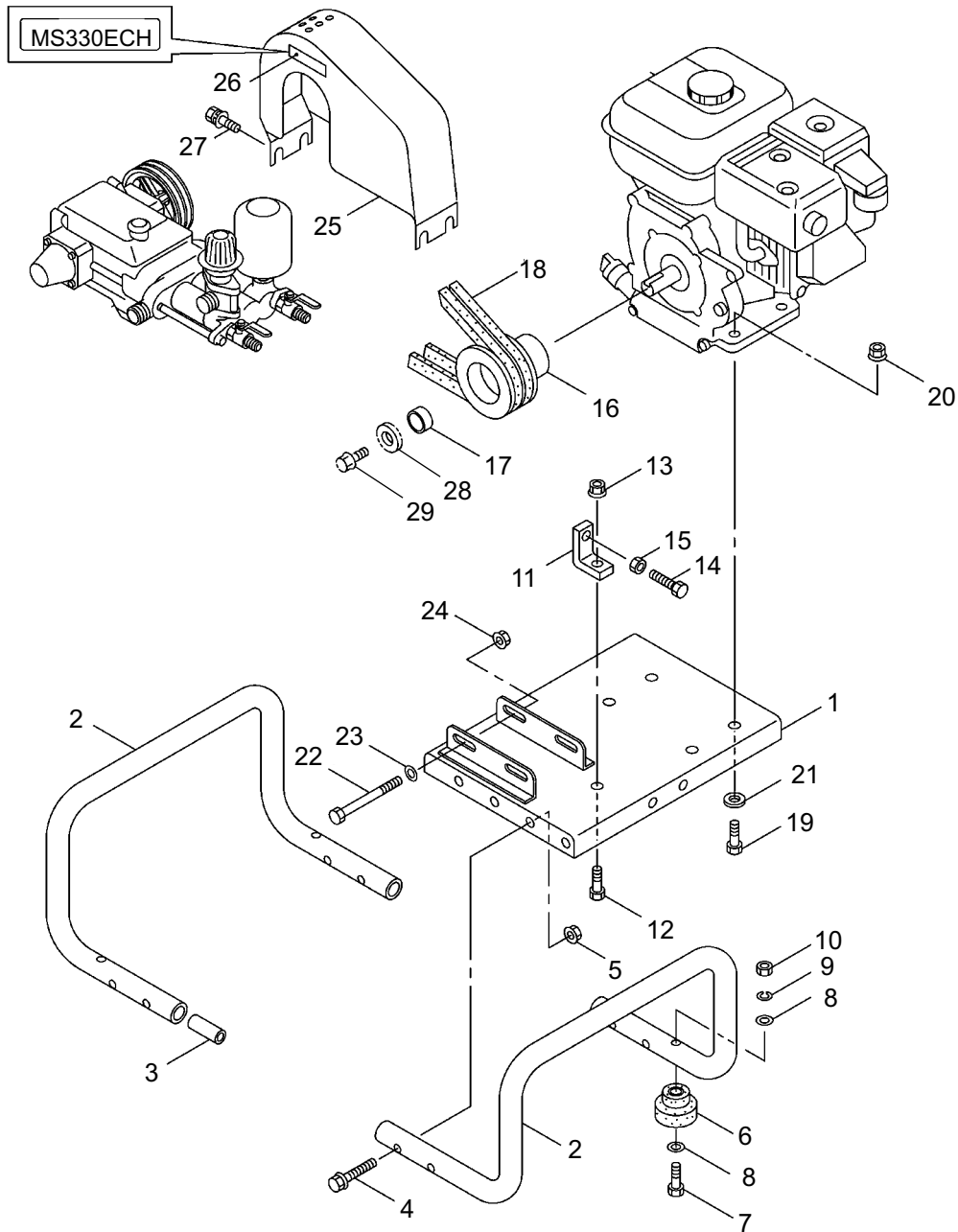


MS330ECH
PUMP/ENGINE PACKAGE
PART #845402-REV12/01



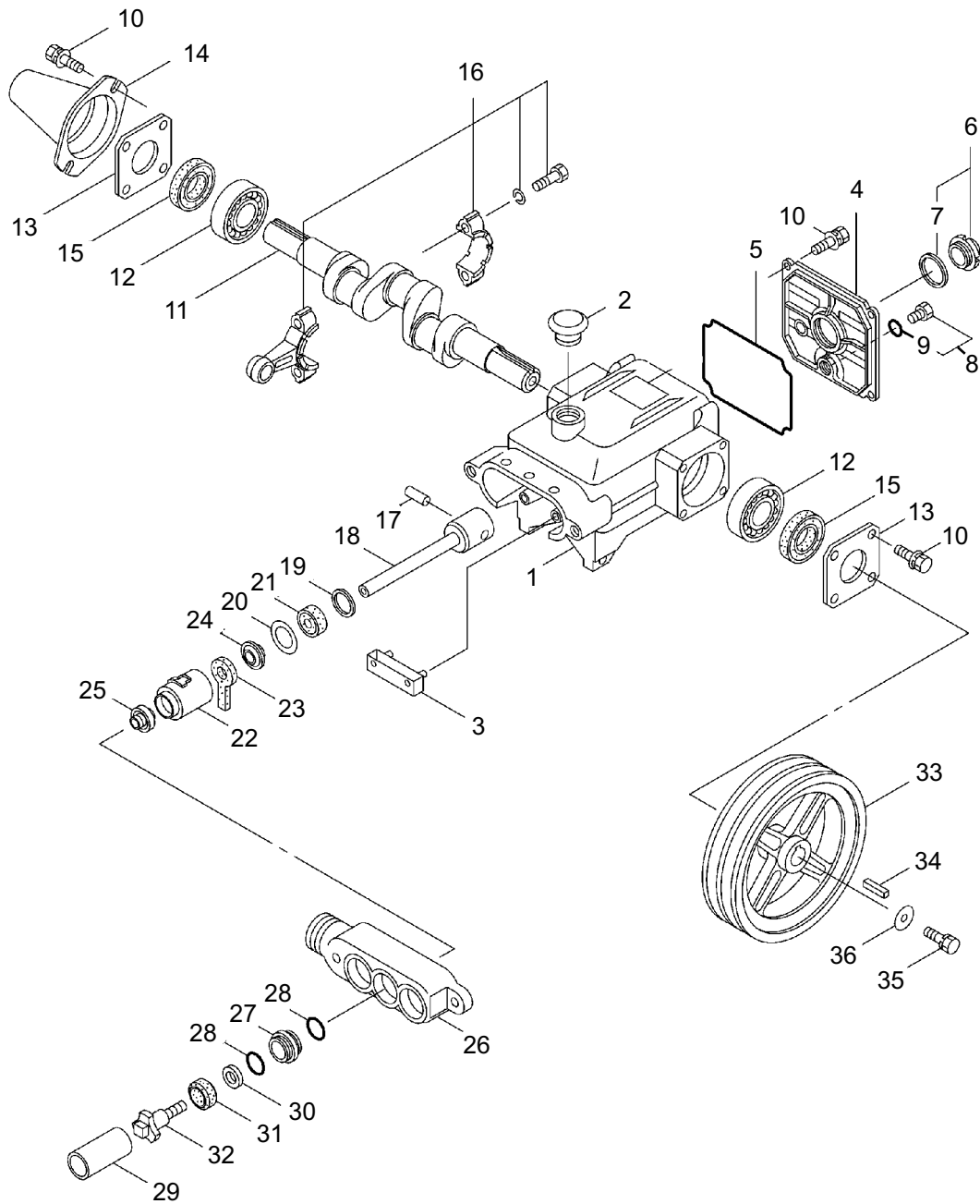
Maruyama. *E x t r a o r d i n a r y .*

MAIN BODY



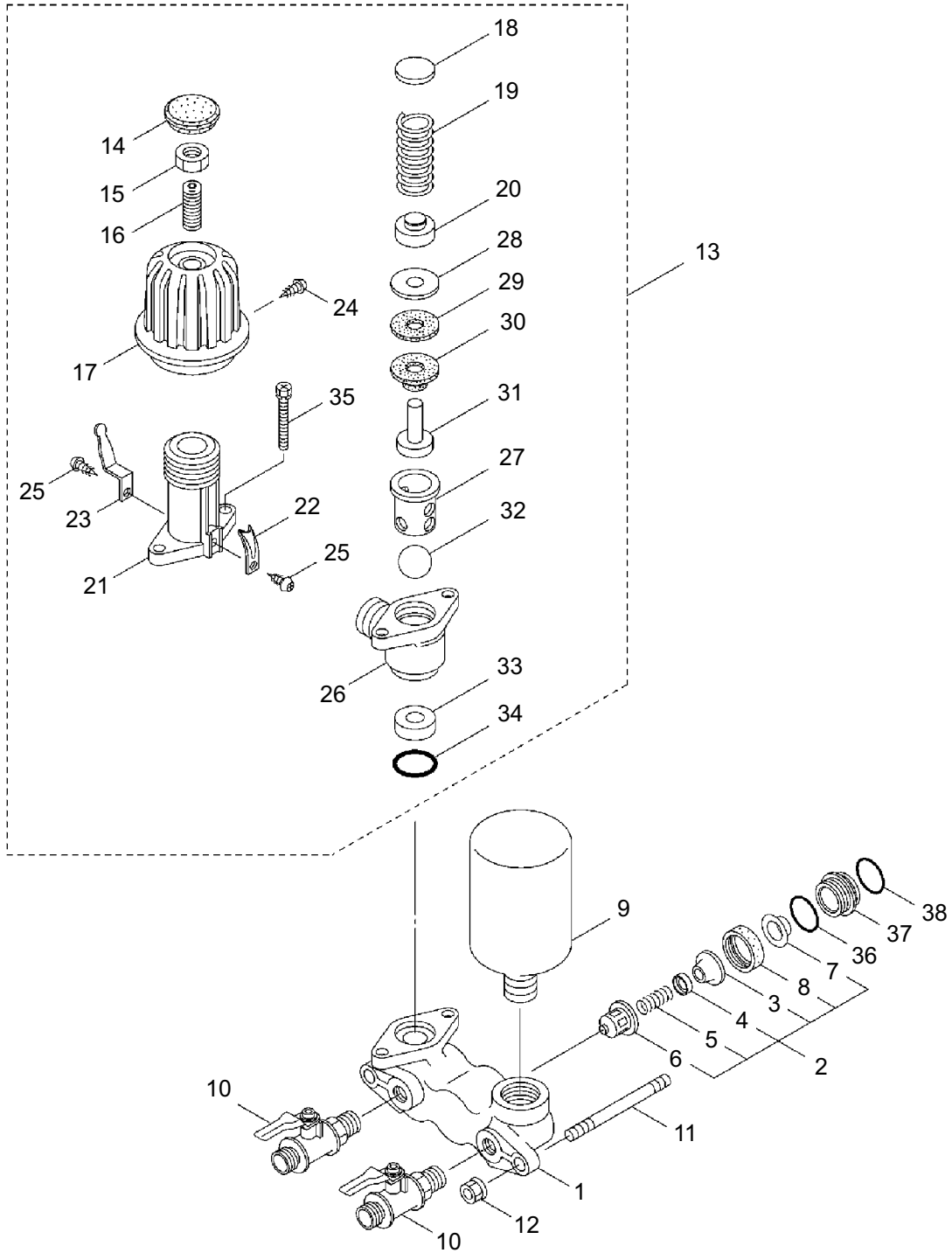
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	543615	Base	1	
2	543655	Handle	2	
3	107170	Pipe	2	17.9x21.7x56L
4	080143	Bolt	8	M8x40
5	101804	Nut	8	M8
6	544019	Buffer	4	
7	080151	Bolt	4	M8x50x22
8	014065	Washer	8	M8
9	015845	Spring Washer	4	M8
10	081040	Nut	4	M8
11	108650	Belt Tension Plate	1	
12	080126	Bolt	1	M8x20
13	101804	Nut	1	M8
14	080178	Bolt	1	M8x60
15	081040	Nut	1	M8
16	114514	V-Pulley	1	72-Ax2
17	106382	Collar	1	25x34x10L
18	028862	V-Belt	2	A24
19	080137	Bolt	4	M8x35
20	101804	Nut	4	M8
21	014065	Washer	4	M8
22	080275	Bolt	2	M8x115x30
23	014065	Washer	2	M8
24	101804	Nut	2	M8
25	543564	Belt Cover	1	
26	542108	Label	1	MS330ECH
27	092519	Bolt	4	M6x16
28	628307	Washer	1	M8
29	637699	Bolt	1	8x25

CRANKCASE & INLET VALVE



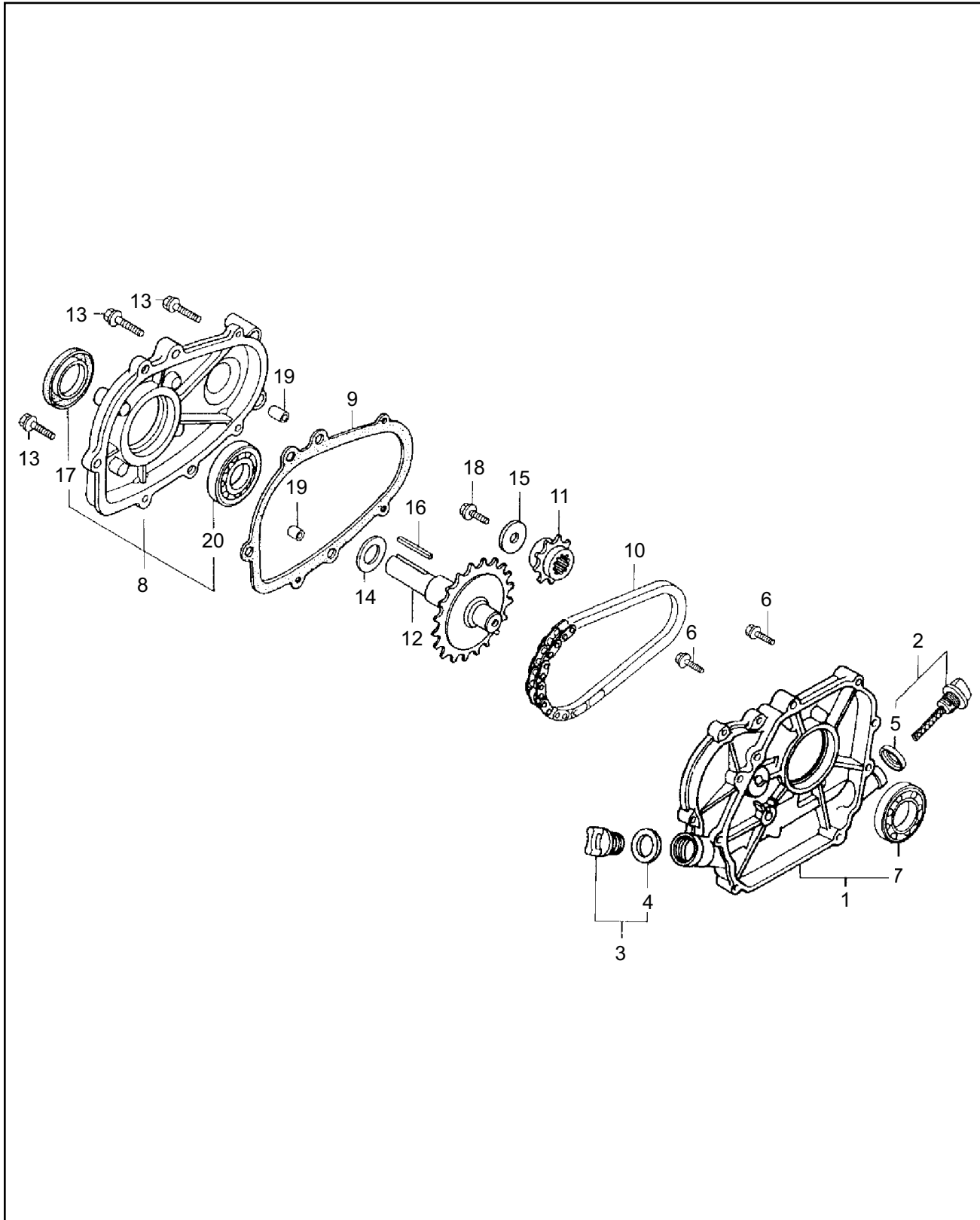
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	118176	Crankcase	1	
2	117420	Oil Filler Cap	1	
3	027712	Oil Pan	1	
4	118646	Rear Cover, Crankcase	1	
5	014041	O-Ring	1	S100
6	043987	Oil Gauge	1	
7	044428	Packing	1	25x34xt2.5
8	091376	Drain Plug	1	Incl. 11 PF 1/4
9	023170	O-Ring	1	P12.5
10	092519	Bolt	12	M6x16
11	117422	Crankshaft	1	
12	014487	Bearing	2	#6304
13	117424	Plate	2	
14	025130	Shaft Protector	1	
15	117423	Oil Seal	2	TC20528
16	024139	Connecting Rod Ass'y	3	
17	016948	Piston Pin	3	9x22L
18	118183	Piston Rod	3	
19	020017	Washer	3	17x24xt1.2
20	026854	Washer	3	20x28xt1.2
21	025461	Oil Seal	3	S10.5247
22	117576	Seal Retainer	3	
23	027711	Felt Packing	3	
24	026853	Packing	3	
25	100015	Seal	3	
26	027713	Inlet Manifold	1	
27	016957	Adapter	3	
28	015862	O-Ring	6	P21
29	022929	Cylinder Pipe	3	25x28.5x55L
30	014122	Inlet Valve Seat	3	6.1x20xt2.8
31	116121	Piston Packing	3	
32	118628	Piston Retainer	3	
33	100837	V-Pulley	1	152-Ax2
34	014543	Key	1	5x5x25L
35	092521	Bolt	1	M8x20
36	100836	Washer	1	8.5x30xt3.2

DISCHARGE & PRESSURE REGULATOR VALVES



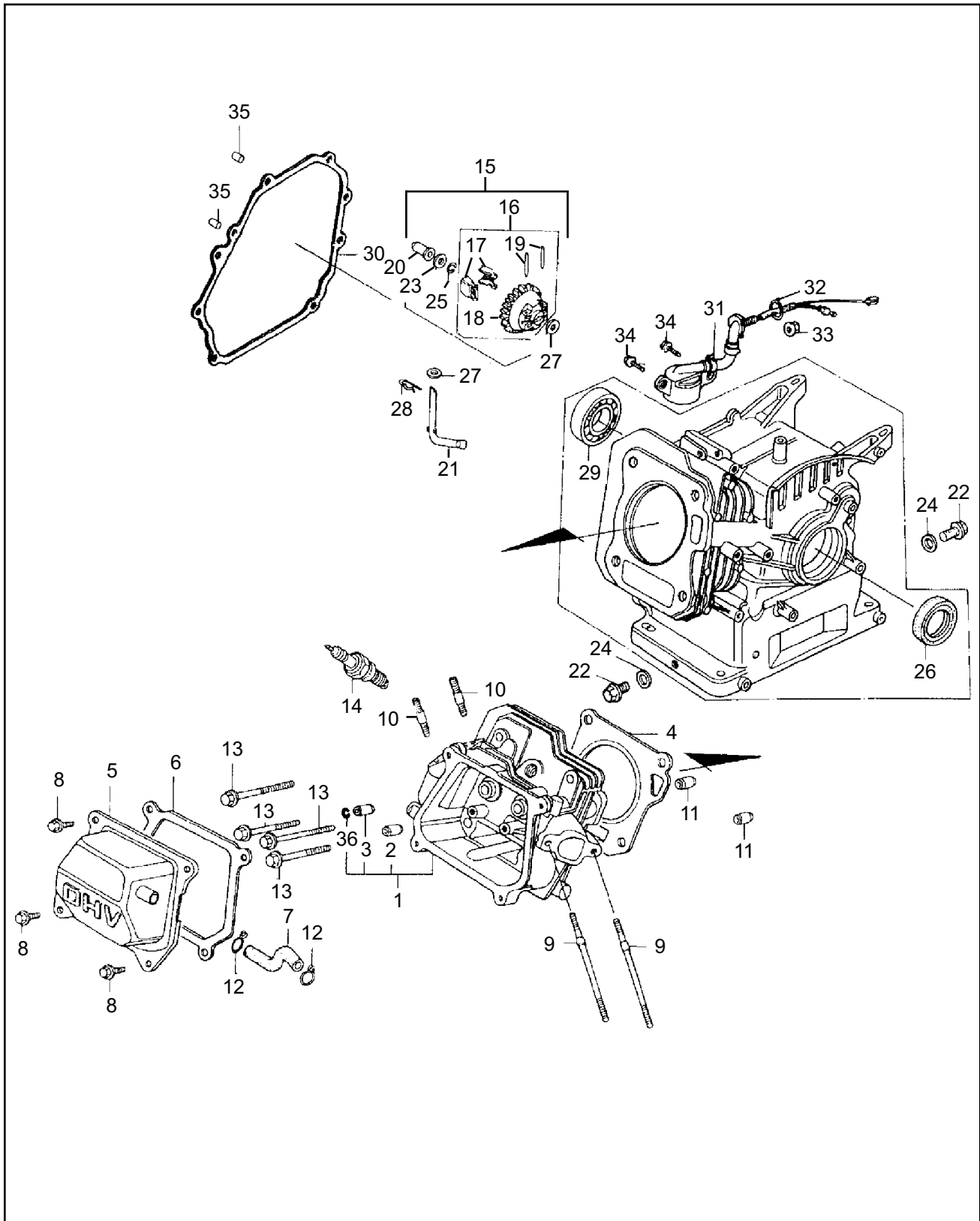
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1a	118409	Discharge Manifold	1	LH Regulator (Std.)
1b	118233	Discharge Manifold	1	RH Regulator
2	105510	Discharge Valve Ass'y	3	Incl. 3-8
3	105511	Discharge Valve Seat	3	
4	022842	Discharge Valve	3	
5	022031	Spring	3	
6	105512	Retainer	3	
7	105513	Packing Ring	3	
8	105514	Valve Case	3	
9	117813	Air Chamber	1	
10	117609	Cock Ass'y	2	PF 1/4 x PT 1/4
11	085203	Stud	2	M8x150x11x18
12	101804	Nut	2	M8
13	118236	Pressure Regulator Valve	1	Incl. 14-35
14	105518	Cap	1	
15	084015	Nut	1	M10
16	088975	Screw	1	M10x48
17	118662	Grip	1	
18	019917	Retainer	1	
19	105520	Spring	1	
20	105521	Retainer	1	
21	117448	Case	1	
22	117440	Plate	1	
23	117441	Indicator	1	
24	089899	Tapping Screw	2	M4x13
25	082744	Screw	2	M4x6
26	118237	Body	1	
27	012256	Retainer	1	
28	012255	Washer	1	6.2x22x7t0.6
29	016972	Bellows Packing	1	5x22xt1.5
30	011451	Bellows	1	
31	016975	Valve Rod	1	
32	107238	Valve Ball	1	12.7 (1/2)
33	117443	Valve Seat	1	
34	014179	O-Ring	1	P20
35	118610	Bolt	2	M6x55
36	023172	O-Ring	3	P22
37	022931	Adapter	3	
38	015862	O-Ring	3	P21

CRANKCASE ASSEMBLY



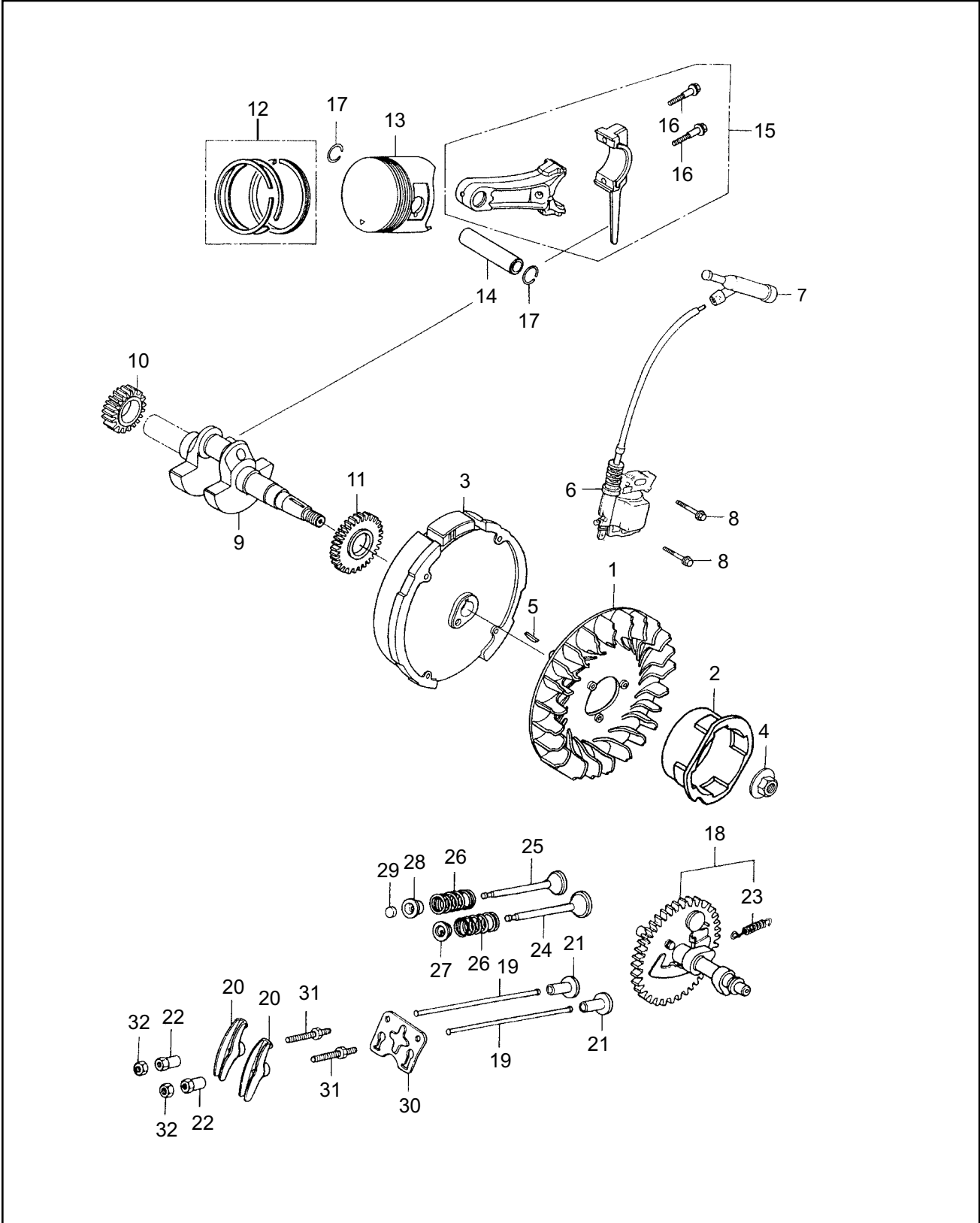
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	620742	Crankcase Cover Ass'y	1	Incl. 7
2	620744	Oil Filter Cap Ass'y	1	Incl. 5
3	620745	Oil Filter Cap Ass'y	1	Incl. 4
4	620747	Oil Filter Cap Packing	1	
5	620747	Oil Filter Cap Packing	1	
6	998198	Flange Bolt	7	
7	620741	Radial Ball Bearing	1	
8	583672	Chain Case Cover Ass'y	1	Incl. 17, 20
9	620748	Chain Case Cover Packing	1	
10	620749	Chain	1	
11	620760	Drive Sprocket	1	
12	620761	P.T.O. Shaft	1	
13	998198	Flange Bolt	5	
14	583677	Thrust Spring	1	
15	583679	Washer	1	
16	620762	Key	1	5x5x33
17	583663	Oil Seal	1	
18	620763	Bolt	1	
19	990497	Dowel Pin	2	8x14
20	583664	Radial Ball Bearing	1	

CYLINDER BARREL & CYLINDER HEAD



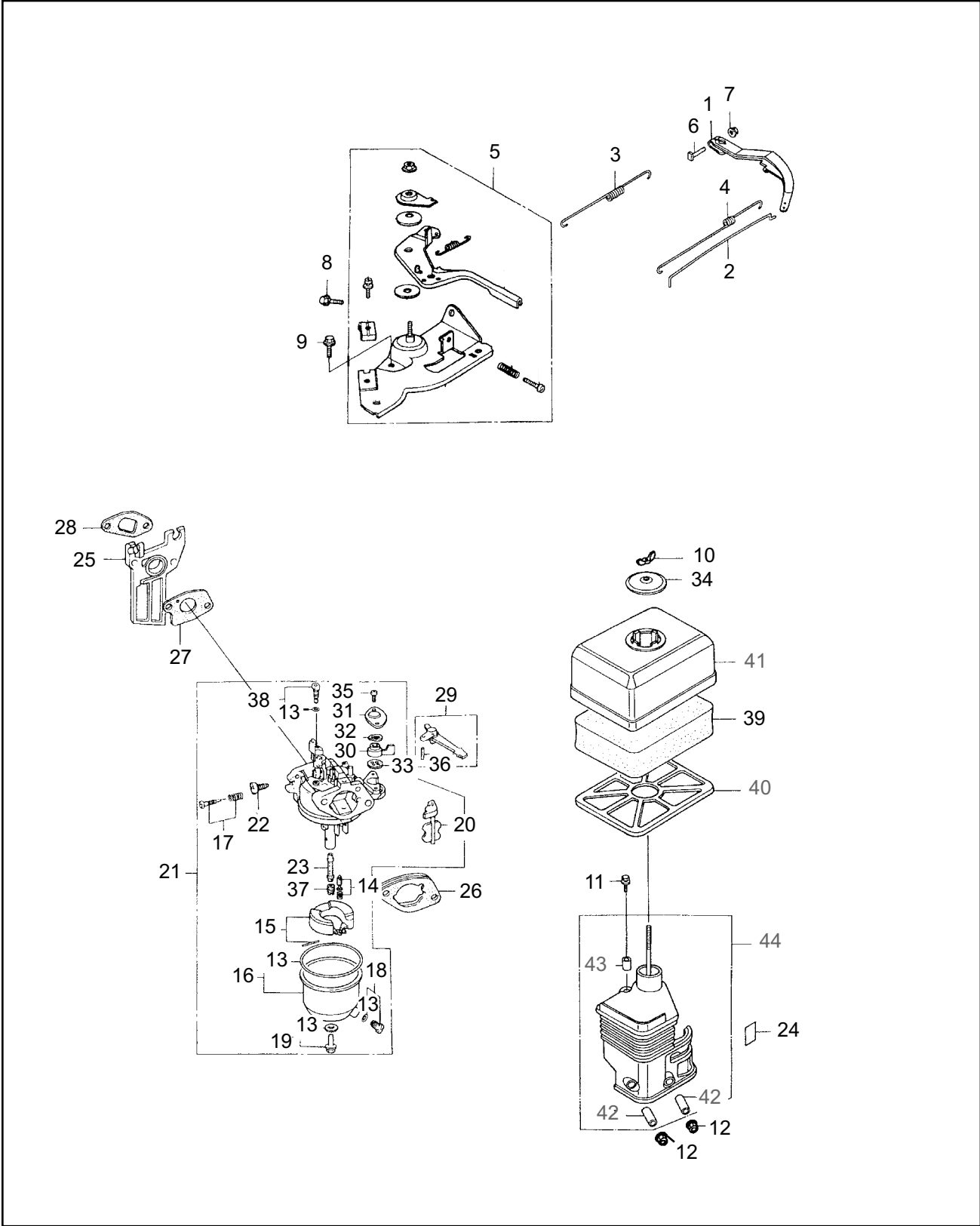
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	620733	Cylinder Head Ass'y	1	Incl. 2,3,36
2	620734	Inlet Valve Guide	1	
3	583642	Exhaust Valve Guide	1	
4	620735	Cylinder Head Gasket	1	
5	625222	Head Cover Ass'y	1	
6	583645	Head Cover Packing	1	
7	625223	Breather Tube	1	
8	990467	Flange Bolt	4	6x12
9	625224	Stud Bolt	2	
10	583649	Stud Bolt	2	
11	583650	Dowel Pin	2	
12	583651	Tube Clip	2	
13	620737	Flange Bolt	4	
14	625225	Spark Plug	1	BPR6S NGK
15	583654	Governor Kit	1	Incl. 17-20,23,25
16	583656	Governor Ass'y	1	Incl. 17-19
17	583657	Governor Weight	2	
18	583658	Governor Weight Holder	1	
19	998195	Governor Weight Pin	2	
20	583659	Governor Slider	1	
21	583660	Governor Arm Shaft	1	
22	998200	Drain Plug Bolt	2	
23	620739	Thrust Washer	1	
24	998199	Drain Plug Washer	2	
25	583662	Governor Holder Clip	1	
26	620740	Oil Seal	1	
27	990493	Plain Washer	2	
28	990496	Lock Pin	1	
29	620741	Radial Ball Bearing	1	
30	620743	Case Cover Packing	1	
31	625227	Switch Ass'y	1	
32	625228	O-Ring	1	
33	625229	Flange Nut	1	
34	625230	Flange Bolt	2	
35	990497	Dowel Pin	2	8x14
36	620736	Clip	1	

CRANKSHAFT, IGNITION COIL & VALVE



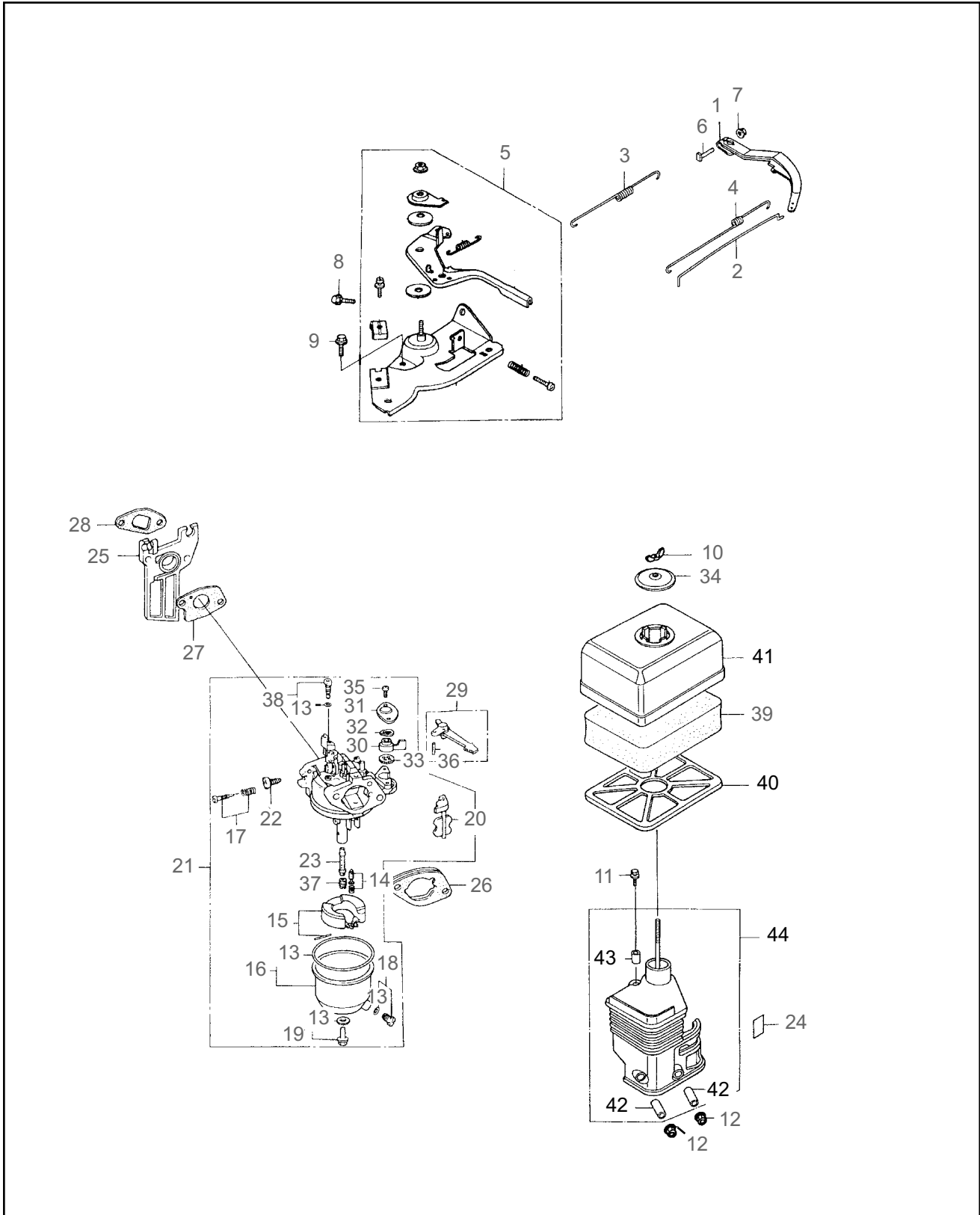
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	620764	Cooling Fan	1	
2	620765	Starter Pulley	1	
3	625231	Flywheel Ass'y	1	
4	583685	Special Nut	1	
5	583686	Special Woodruff Key	1	
6	625232	Ignition Coil Ass'y	1	
7	625233	Cap Ass'y	1	
8	998214	Flange Bolt	2	6x25
9	620769	Crankshaft Ass'y	1	
10	620770	Timing Gear	1	
11	620771	Governor Drive Gear	1	
12	620772	Piston Ring Ass'y	1	
13	620773	Piston	1	
14	620774	Piston Pin	1	
15	620775	Connecting Rod Ass'y	1	Incl. 16
16	583696	Connecting Rod Bolt	2	
17	620776	Piston Pin Clip	2	
18	620777	Camshaft Ass'y	1	Incl. 23
19	620818	Push Rod	2	
20	583700	Valve Rocker Arm	2	
21	625234	Valve Lifter	2	
22	583702	Rocker Arm Pivot	2	
23	583703	Weight Return Spring	1	
24	620819	Inlet Valve	1	
25	620820	Exhaust Valve	1	
26	620821	Valve Spring	2	
27	583707	Retainer	1	
28	583708	Retainer	1	
29	583709	Valve Rotator	1	
30	620822	Push Rod Guide Plate	1	
31	583711	Pivot Bolt	2	
32	583712	Pivot Adjusting Nut	2	

AIR CLEANER, CARBURETOR & GOVERNOR



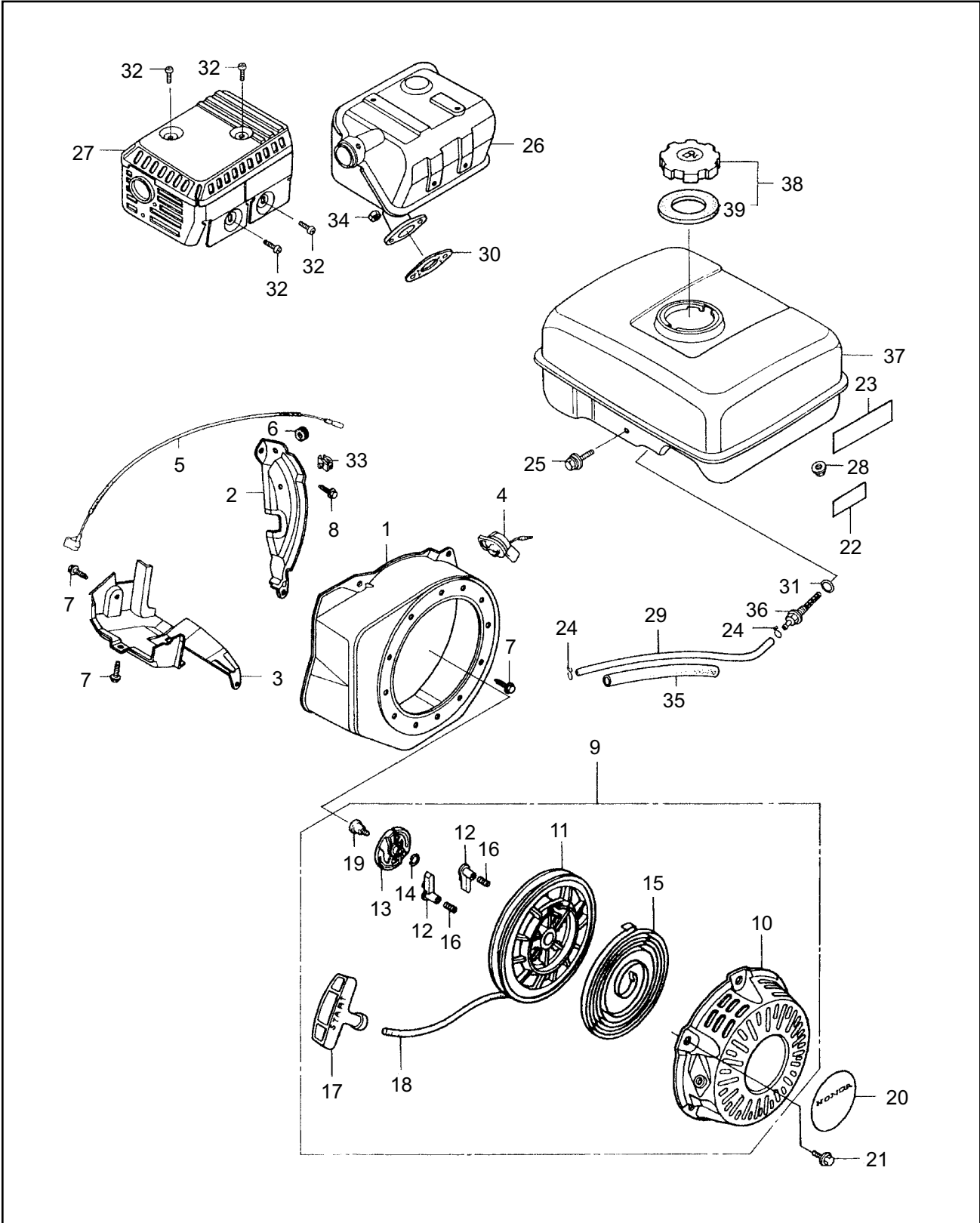
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	620823	Governor Arm	1	
2	620824	Governor Rod	1	
3	620825	Governor Spring	1	
4	620826	Throttle Return Spring	1	
5	620827	Control Ass'y	1	
6	583723	Governor Arm Bolt	1	
7	990487	Flange Nut	2	
8	583762	Flange Bolt	1	
9	990467	Flange Bolt	1	6x12
10	990471	Wingnut	1	
11	583756	Bolt	1	
12	990487	Flange Nut	2	
13	620833	Gasket Ass'y	4	
14	998250	Float Valve Ass'y	1	
15	583729	Float Ass'y	1	
16	583730	Float Chamber Ass'y	2	Incl. 13 only
17	998257	Pilot Screw Ass'y	1	
18	998255	Drain Screw Ass'y	1	
19	583731	Screw Ass'y	1	
20	583732	Choke Ass'y	1	
21	625235	Carburetor Ass'y	1	
22	998258	Throttle Stop Screw	1	
23	620835	Main Nozzle	1	
24	620846	Choke Mark	1	
25	620837	Insulator	1	
26	583737	Carburetor Spacer Comp.	1	
27	625236	Carburetor Packing	1	
28	620839	Insulator Packing	1	
29	583740	Choke Lever Comp.	1	Incl. 36 only
30	583741	Cock Lever	1	
31	998266	Lever Setting Plate	1	
32	998265	Cock Lever Spring	1	
33	620840	Gasket, Petcock	1	
34	583752	Cleaner Cap	1	
35	620841	Pan Screw	2	
36	583744	Spring Pin	1	
37	625237	Main Jet	1	#55
38	998260	Pilot Jet Ass'y	1	#35
39	583746	Air Cleaner Element	1	

AIR CLEANER, CARBURETOR & GOVERNOR



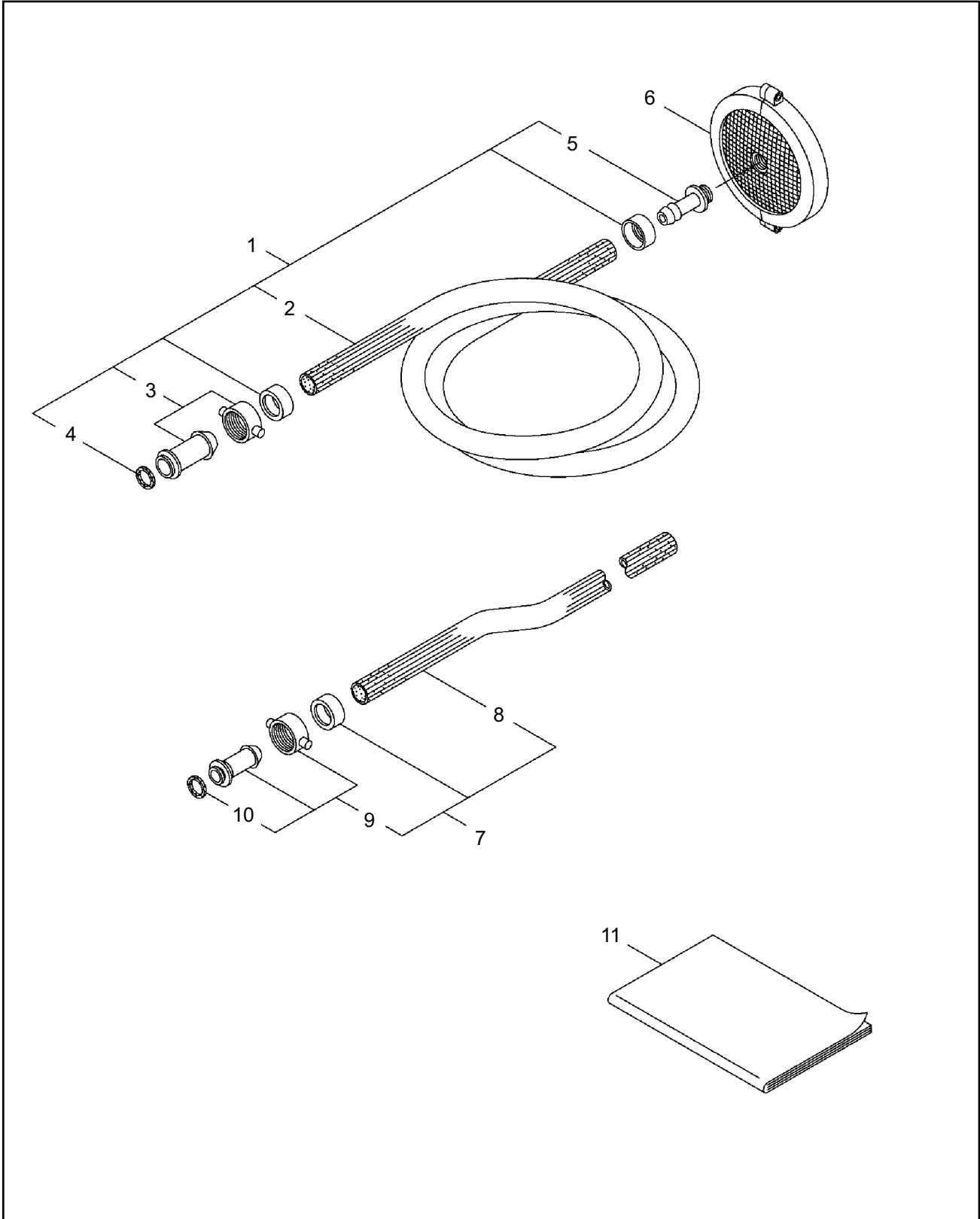
REF #	PART #	DESCRIPTION	Q'TY.	NOTES
40	583747	Air Cleaner Grid	1	
41	620843	Air Cleaner Cover	1	
42	620844	Air Cleaner Collar	2	
43	583750	Air Cleaner Collar B	1	
44	620845	Air Cleaner Elbow Comp.	1	Incl. 42,43

FUEL TANK, RECOIL STARTER & MUFFLER



REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	620848	Fan Cover Comp.	1	
2	625238	Side Plate	1	
3	625239	Shroud Comp.	1	
4	625240	Stop Switch Ass'y	1	
5	620851	Stop Switch Cord	1	
6	620852	Grommet	1	
7	990467	Flange Bolt	6	6x12
8	583762	Flange Bolt	1	
9	620853	Recoil Starter Ass'y	1	Incl. 10-19
10	620854	Recoil Starter Case Comp.	1	
11	620856	Recoil Starter Reel	1	
12	620857	Starter Ratchet	2	
13	620858	Ratchet Guide	1	
14	620859	Friction Spring	1	
15	620860	Recoil Starter Spring	1	
16	620861	Return Spring	2	
17	620862	Recoil Starter Knob	1	
18	620863	Recoil Starter Rope	1	
19	620864	Setting Screw	1	
20	620865	Emblem	1	
21	586568	Flange Bolt	3	
22	625241	Label	1	
23	620847	Label	1	
24	990499	Tube Clip	2	
25	583796	Flange Bolt	1	
26	620866	Muffler Ass'y	1	
27	620867	Muffler Protector	1	
28	990487	Flange Nut	2	
29	583795	Fuel Tube	1	
30	620868	Muffler Gasket	1	
31	583794	O-Ring	1	
32	583785	Tapping Screw	4	
33	625242	Clip	1	
34	583787	Nut	2	
35	620869	Supporter Rubber	1	
36	583789	Fuel Tank Joint	1	
37	620870	Fuel Tank Comp.	1	
38	620871	Fuel Filler Cap Comp.	1	Incl. 39
39	620872	Gasket, Fuel Filler Cap	1	

ACCESSORIES



REF #	PART #	DESCRIPTION	Q'TY.	NOTES
1	105936	Suction Hose Ass'y	1	Incl. 2-5
2	103571	Hose	1	19x1Bx3000L
3	098010	Hose Coupling	1	PF3/4
4	103686	Packing	1	18.5x24xt2
5	105937	Hose Coupling	1	PF1
6	122017	Suction Strainer Ass'y	1	
7	104344	Spill Hose Ass'y	1	Incl. 8-10
8	103573	Hose	1	13x19x3000L
9	098009	Hose Coupling	1	PF1/2
10	103685	Packing	1	12x18.5xt1.5
11	119675	Instruction Manual	1	



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