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Contact your Dealer to verify.

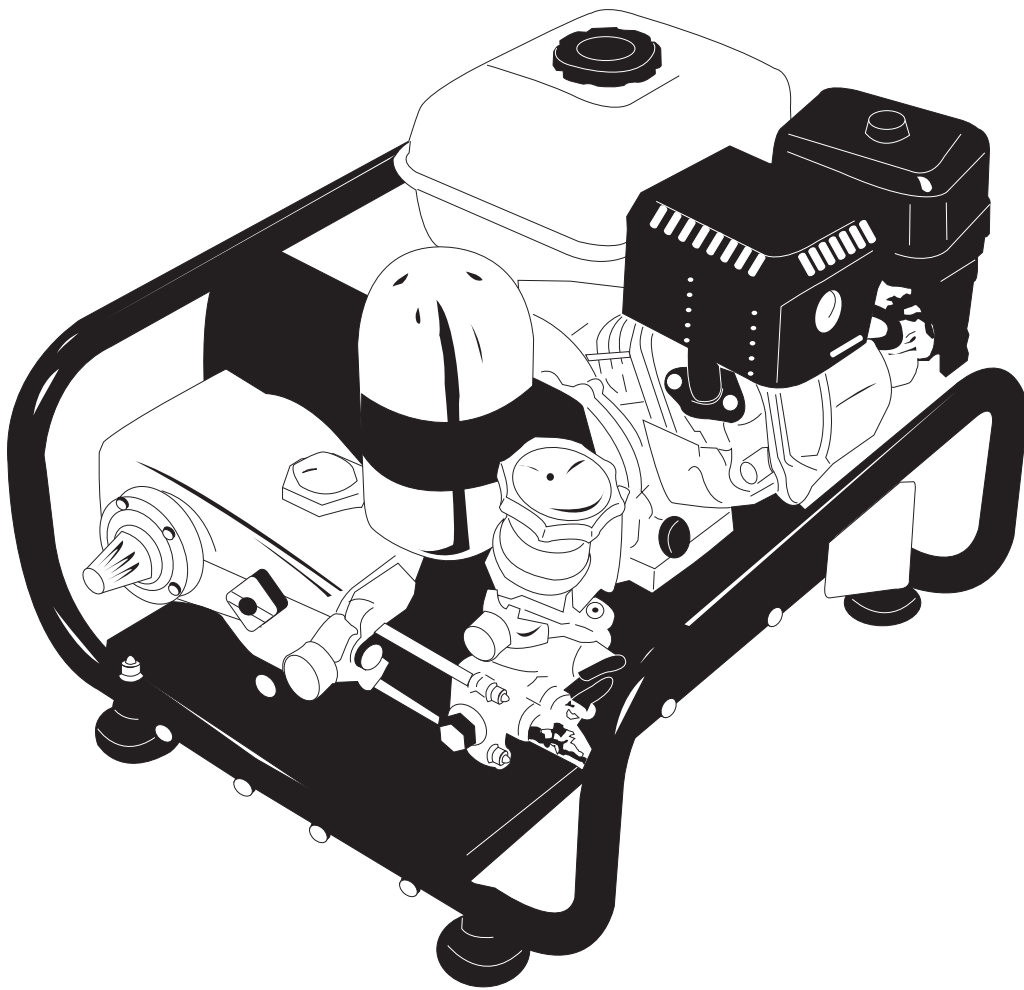
Warranties are based on Registrations and reduced to 1 year without  
Registration.

**MARUYAMA**

ILLUSTRATED PARTS LIST

**MS413ECH**

PUMP/ENGINE PACKAGE



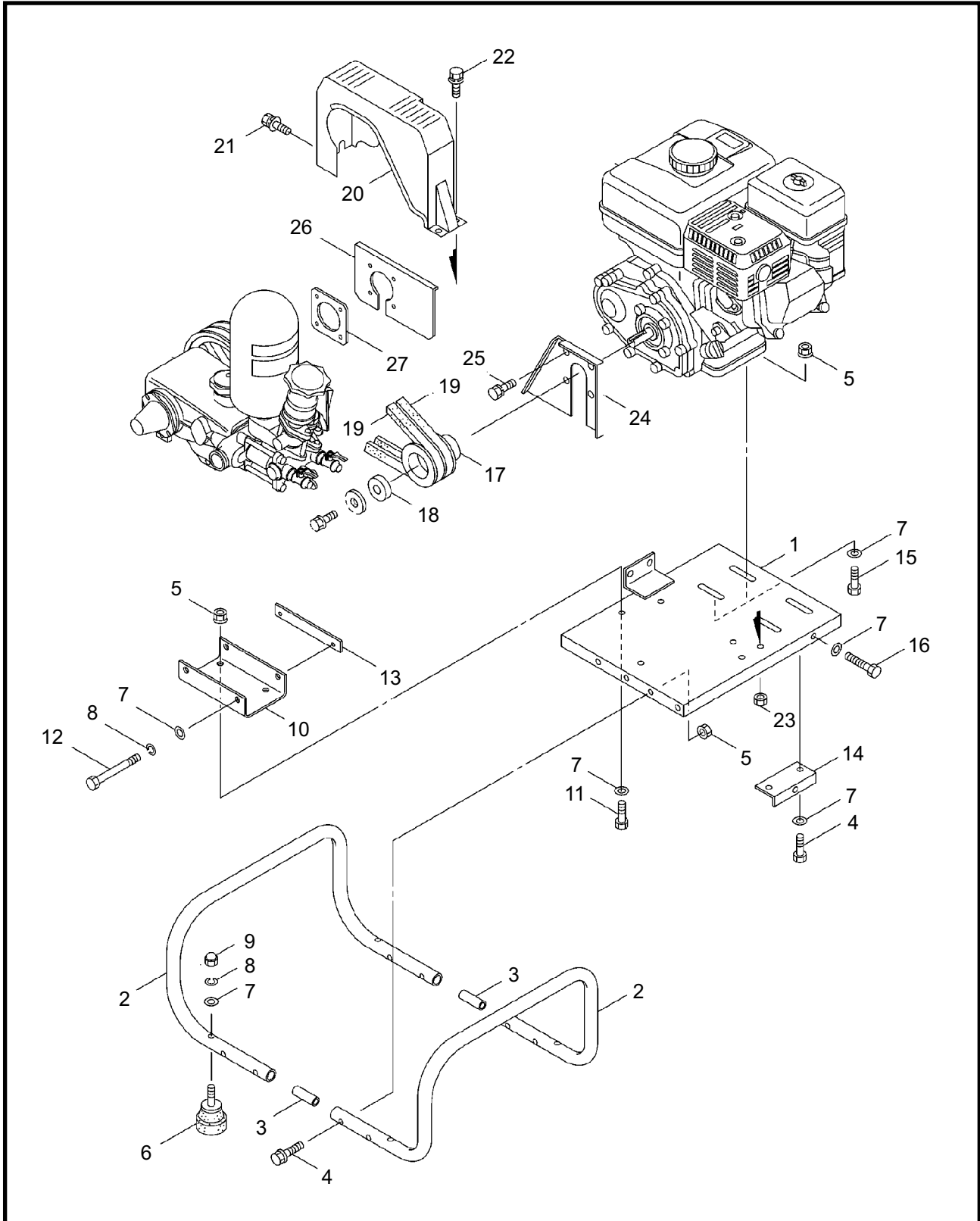
MS413ECH  
PUMP/ENGINE PACKAGE  
PART 845424-REV03/03



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

**2** ILLUSTRATED PARTS LIST  
**MS413ECH**

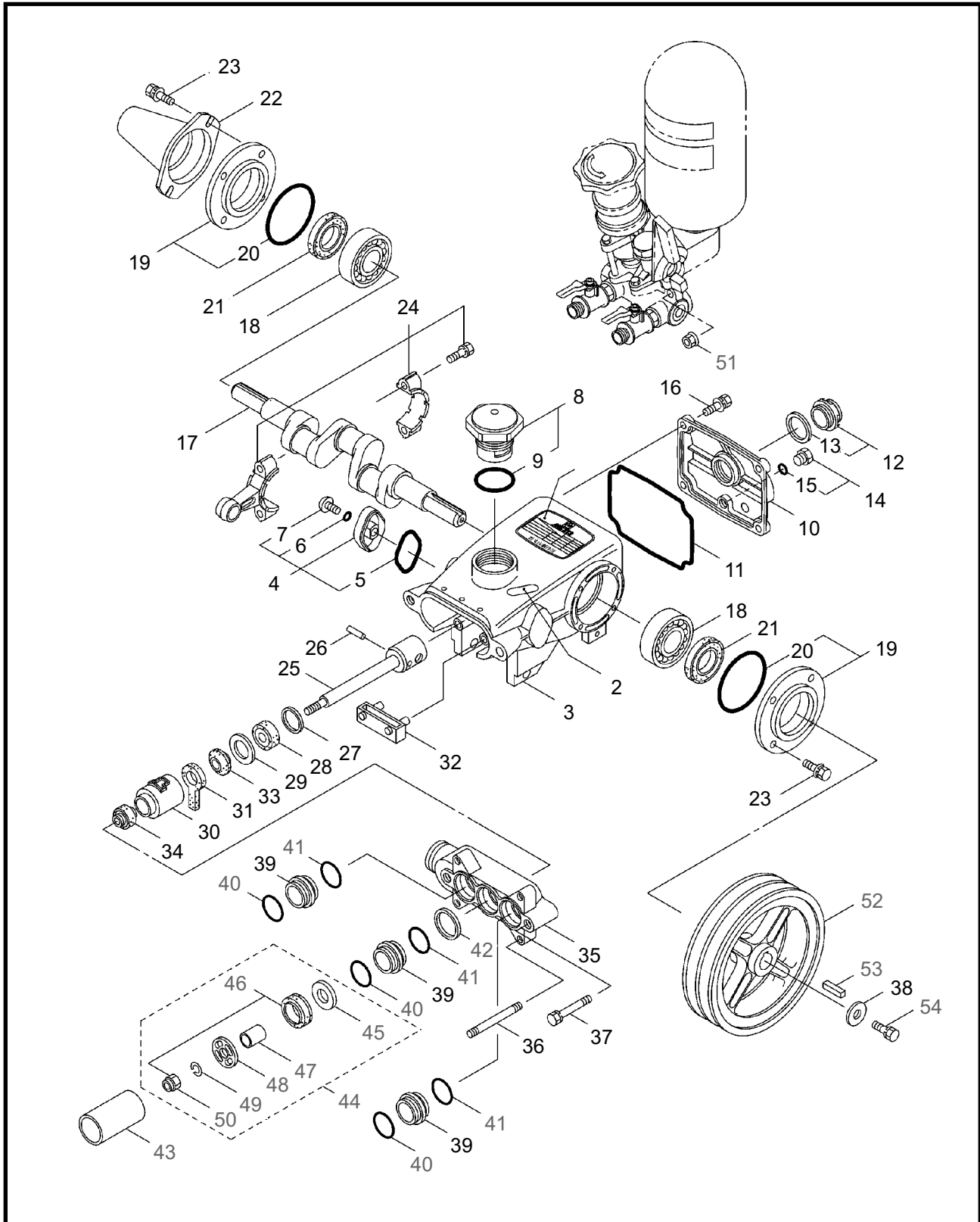
**FRAME**



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	541729	Base	1	
2	543655	Handle	2	
3	107170	Pipe	2	
4	092517	Bolt	10	M8x40
5	101804	Nut	14	M8
6	106378	Buffer	4	
7	014065	Washer	13	M8
8	015845	Spring Washer	6	M8
9	018972	Cap Nut	4	M8
10	540525	Rail	1	
11	080126	Bolt	2	M8x20
12	080275	Bolt	2	M8x115x30
13	540392	Plate Nut	1	M8
14	540315	Stay	1	
15	092526	Bolt	2	M8x35
16	080178	Bolt	1	M8x60
17	543573	V-Pulley	1	4-Ax2
18	106382	Collar	1	
19	039697	V-Belt	2	A26
20	111218	Belt Cover	1	
21	817004	Bolt	2	M6x12
22	092519	Bolt	2	M6x16
23	100420	Nut	2	M6
24	543574	Stay	1	
25	817011	Bolt	4	M8x12
26	543575	Stay	1	
27	542120	Stay	1	

4 ILLUSTRATED PARTS LIST  
MS413ECH

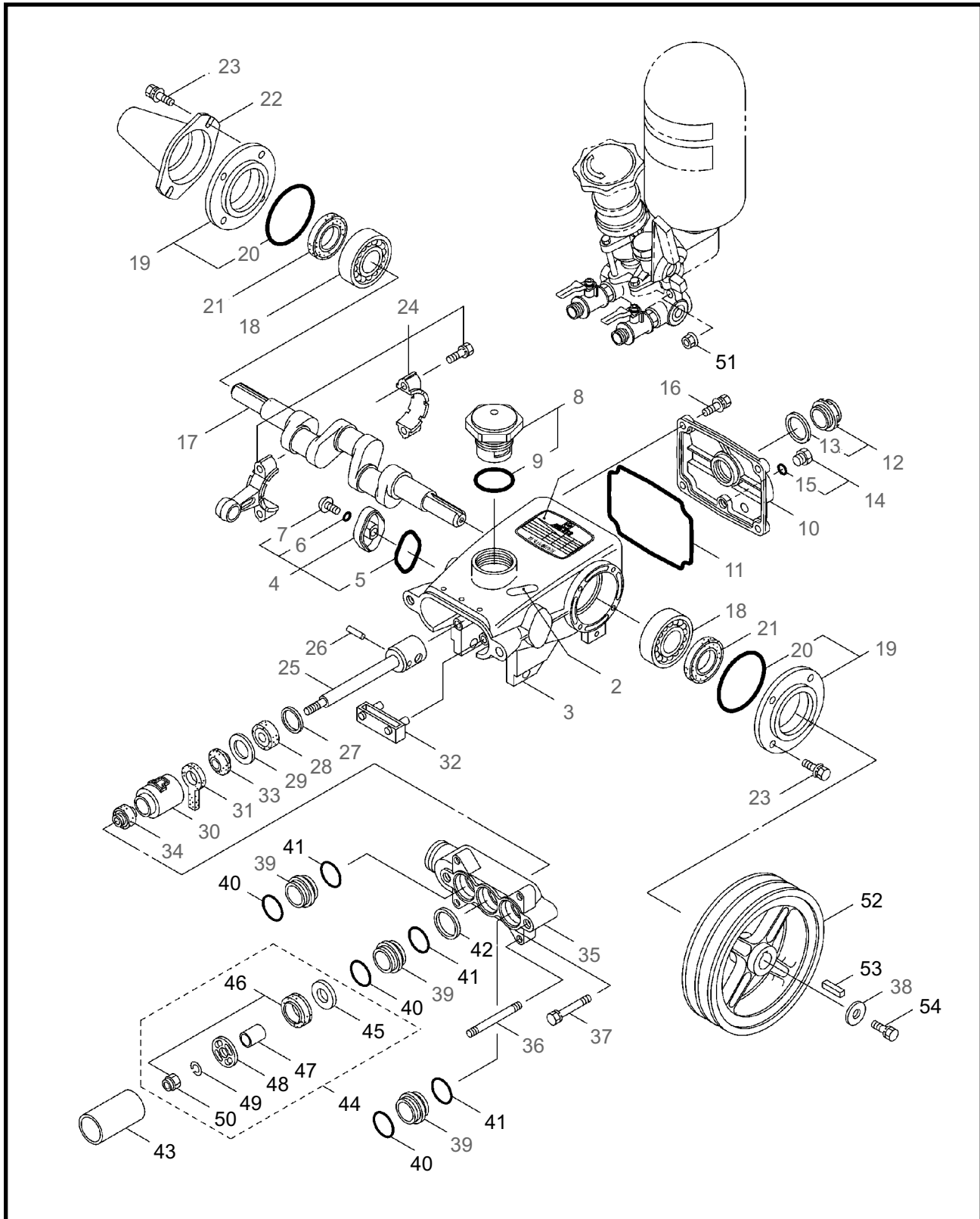
**POWER SPRAYER (PUMP ASSEMBLY)**



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	120816	Label	1	MS413
2	063975	Label	1	Oil
3	120818	Crankcase	1	
4	120821	Oil Gauge Ass'y	1	Incl. 5-7
5	120823	O-Ring	1	
6	150810	Seal Washer	1	M6
7	120824	Screw	1	M6x14
8	091264	Oil Filler Cap	1	Incl. 9
9	014177	O-Ring	1	P35
10	120826	Rear Cover	1	
11	044835	O-Ring, Rear Cover	1	
12	092241	Oil Gauge Ass'y	1	Incl. 13
13	044428	Packing	1	
14	091376	Drain Plug	1	Incl. 15
15	023170	O-Ring	1	
16	092519	Bolt	4	M6x16
17	043163	Crankshaft	1	
18	014487	Bearing	2	#6304
19	595607	Oil Seal Case Ass'y	2	Incl. 20
20	026536	O-Ring	2	
21	024159	Oil Seal	2	D204010
22	025130	Shaft Protector	1	
23	092519	Bolt	8	M6x16
24	024139	Connecting Rod Ass'y	3	
25	120827	Piston Rod	3	
26	016948	Piston Pin	3	9x22L
27	020017	Washer	3	
28	025461	Oil Seal	3	S10.5247
29	026854	Washer	3	
30	027710	Seal Retainer	3	
31	027711	Felt Packing	3	
32	027712	Oil Pan	1	
33	026853	Packing	3	
34	100015	Seal	3	
35	105507	Inlet Manifold	1	
36	120829	Stud	4	
37	817034	Bolt	2	M8x45
38	100836	Washer	1	
39	022931	Adapter	3	

6 ILLUSTRATED PARTS LIST  
MS413ECH

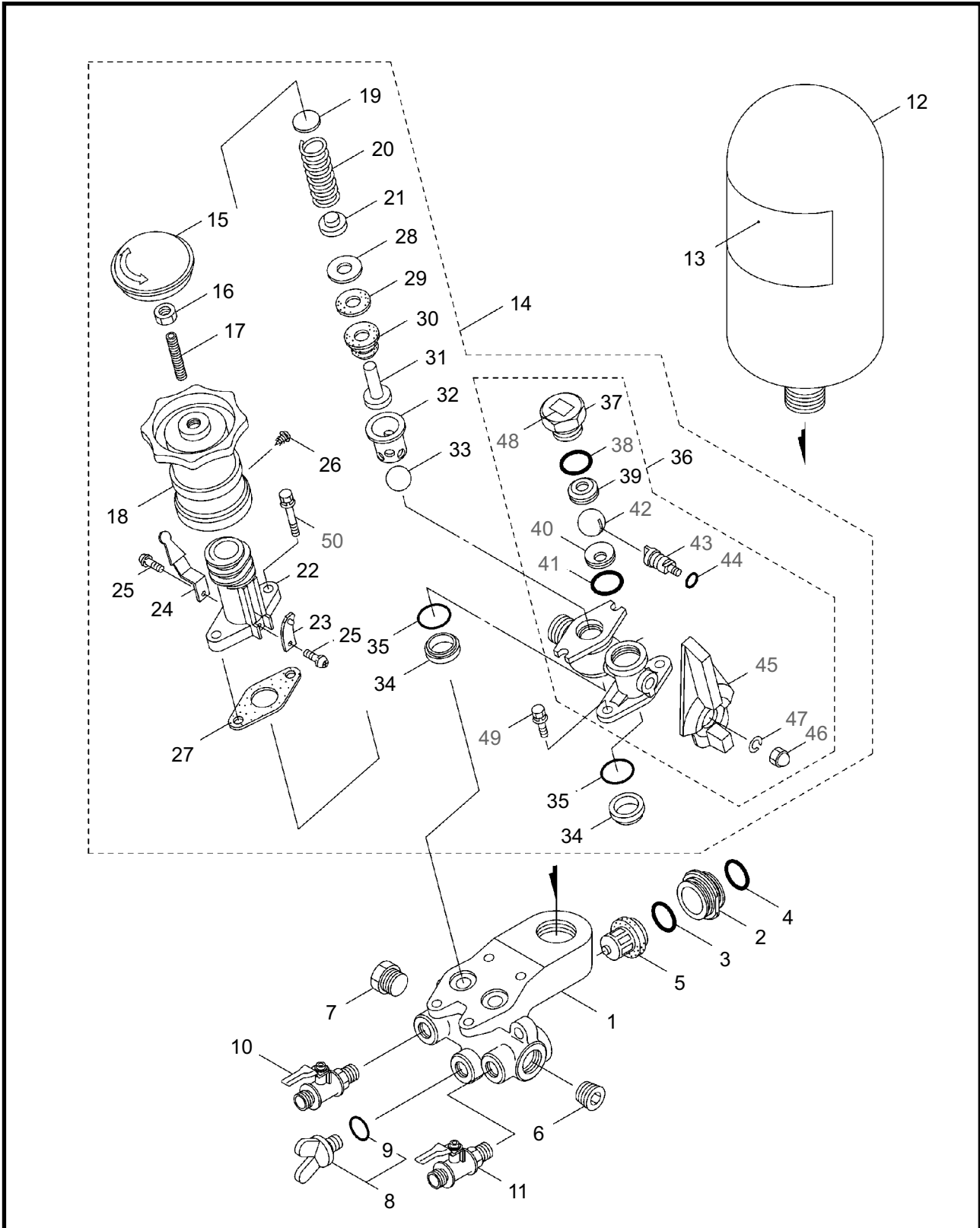
**POWER SPRAYER (PUMP ASSEMBLY)**



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
40	015862	O-Ring	3	
41	023172	O-Ring	3	
42	105508	Packing	1	
43	108065	Cylinder Pipe	3	
44	632583	Inlet Valve Ass'y	3	Incl. 45-50
45	014122	Inlet Valve Seat	3	
46	632586	Piston Packing Set	3	Incl. 50
47	027499	Spacer	3	
48	119917	Retainer, Piston	3	
49	015849	Spring Washer	3	M6
50	046365	Nylon Nut	3	M6
51	108468	Nut	4	M8
52	100837	V-Pulley	1	152-Ax2
53	014543	Key	1	
54	092521	Bolt	1	M8x20

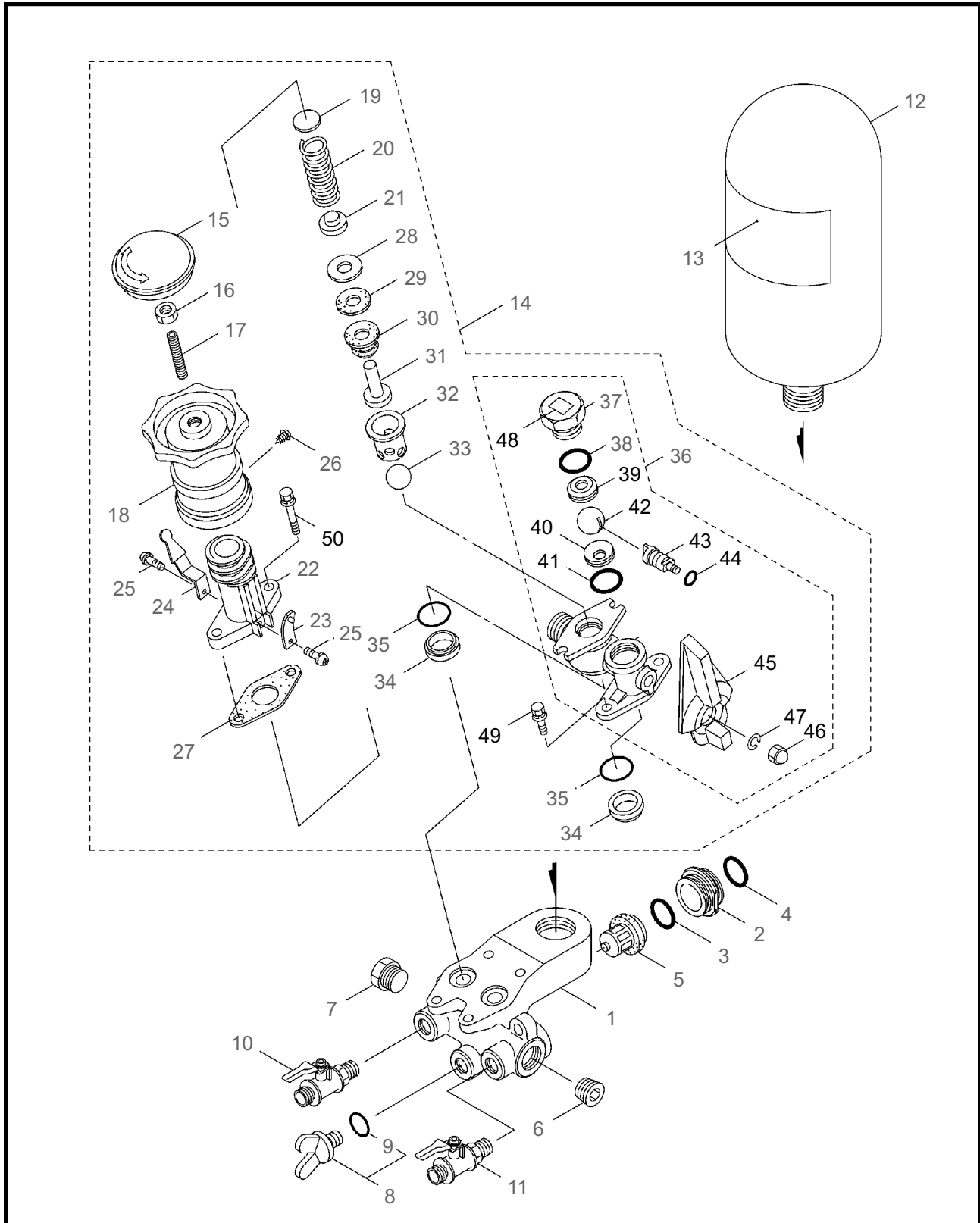


# POWER SPRAYER (DISCHARGE VALVE, P.R.VALVE)



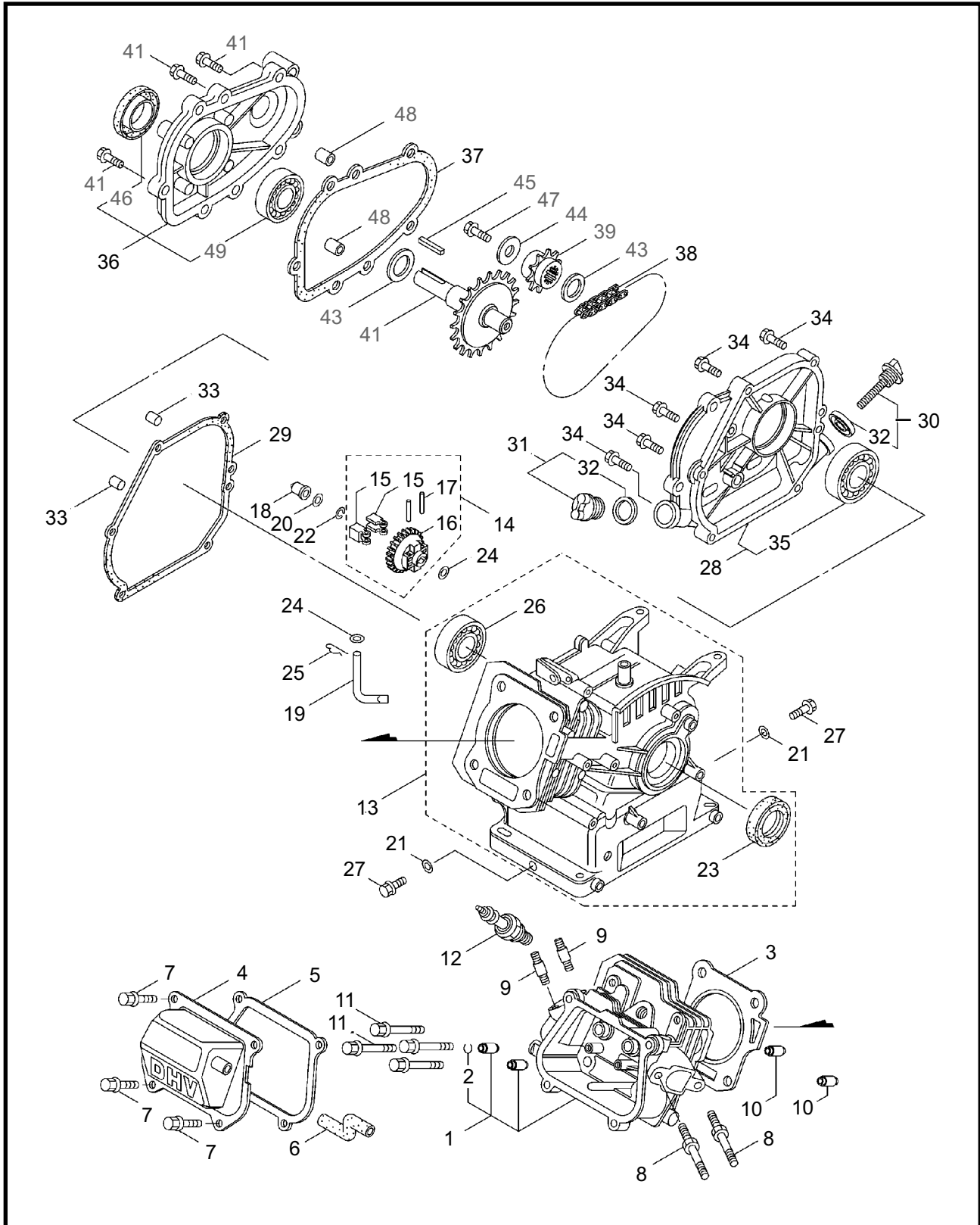
<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	120831	Discharge Manifold	1	
2	105509	Adapter	3	
3	023172	O-Ring	3	
4	015862	O-Ring	3	
5	120276	Discharge Valve Ass'y	3	
6	120833	Plug	1	
7	108368	Plug	1	
8	632737	Plug Ass'y	1	Incl. 9,
9	023170	O-Ring	1	
10	120834	Cock Ass'y	1	
11	120835	Cock Ass'y	1	
12	108416	Air Chamber	1	
13	121443	Label	1	
14	816746	Pressure Regulator Valve Ass'y	1	Incl. 15-50
15	121005	Cap	1	
16	084015	Nut	1	M10
17	088975	Screw	1	M10x48
18	121006	Grip	1	
19	019917	Retainer	1	
20	105520	Spring	1	
21	105521	Retainer	1	
22	105522	Case	1	
23	108474	Plate Spring	1	
24	105524	Indicator	1	
25	092100	Screw	2	M4x6
26	089899	Tapping Screw	1	M4x13
27	105527	Packing	1	
28	012255	Washer	1	
29	016972	Bellows Packing	1	
30	011451	Bellows	1	
31	016975	Valve Rod	1	
32	012256	Retainer	1	
33	107238	Valve Ball	1	
34	020971	Valve Seat	2	
35	014179	O-Ring	2	
36	121014	By-Pass Valve Ass'y	1	Incl. 37-48
37	121689	Ball Retainer	1	
38	013971	O-Ring	1	

# POWER SPRAYER (DISCHARGE VALVE, P.R.VALVE)



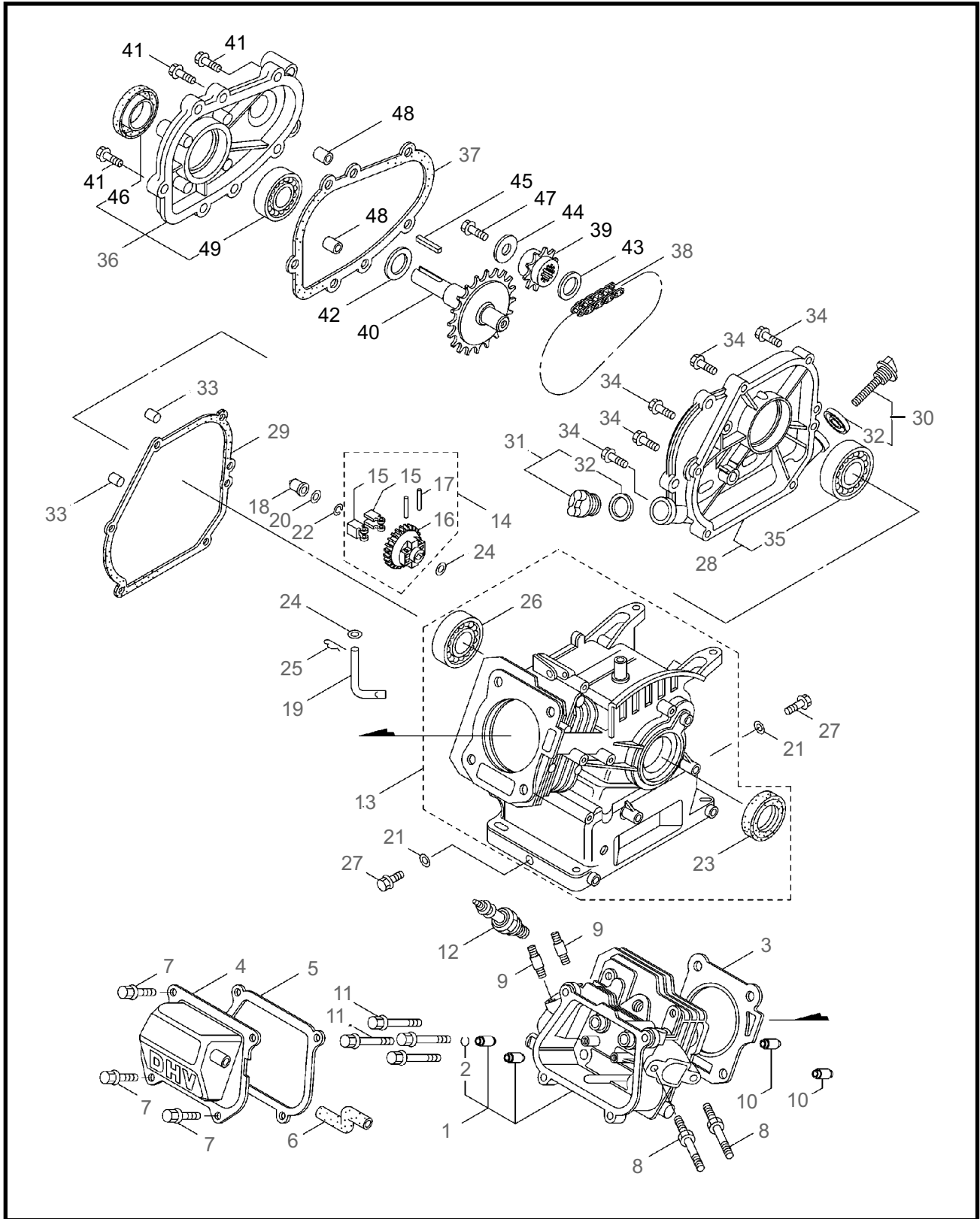
<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
39	121690	Valve Seat	1	
40	121691	Valve Seat	1	
41	013967	O-Ring	1	
42	120840	Ball Valve	1	
43	120841	Ball Retainer	1	
44	013918	O-Ring	1	
45	121007	Handle	1	
46	100166	Nut	1	M5
47	029754	Spring Washer	1	M5
48	108355	Label	1	Arrow Mark
49	092542	Bolt	2	M6x20
50	120843	Bolt	2	M6x55x20

ENGINE



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	625245	Cylinder Head Comp.	1	Incl. 2
2	626339	Clip	1	
3	625246	Cylinder Head Gasket	1	
4	583644	Head Cover Comp.	1	
5	626340	Head Cover Gasket	1	
6	625223	Breather Tube	1	
7	990467	Flange Bolt	4	6x12
8	625224	Stud Bolt	2	
9	626343	Stud Bolt	2	
10	626344	Dowel Pin	2	
11	626345	Flange Bolt	4	
12	625225	Spark Plug	2	BPR6ES NGK
13	625247	Cylinder Barrel Ass'y	1	Incl. 23, 26
14	626317	Governor Ass'y	1	Incl. 15-17
15	626318	Governor Weight	2	
16	626319	Governor Weight Holder	1	
17	998195	Governor Weight Pin	2	
18	626321	Governor Slider	1	
19	626327	Governor Arm Shaft	1	
20	626322	Thrust Washer	1	
21	998199	Drain Plug Washer	2	
22	625895	Governor Holder Clip	1	
23	626325	Oil Seal	1	
24	990493	Plain Washer	2	
25	990496	Lock Pin	1	
26	625248	Radial Ball Bearing	1	
27	998200	Drain Plug Bolt	2	
28	625249	Crankcase Cover Ass'y	1	Incl. 35
29	625250	Case Cover Gasket	1	
30	626333	Oil Filler Cap Ass'y	1	Incl. 32
31	626335	Oil Filler Cap Ass'y	1	Incl. 32
32	626334	Packing, Oil Filler Cap	2	
33	990497	Dowel Pin	2	8x14
34	583671	Flange Bolt	6	
35	626332	Radial Ball Bearing	1	
36	583672	Chain Case Cover Ass'y	1	Incl. 46, 49
37	620748	Chain Case Cover Packing	1	
38	583674	P.T.O. Drive Chain	1	
39	625251	Drive Sprocket	1	

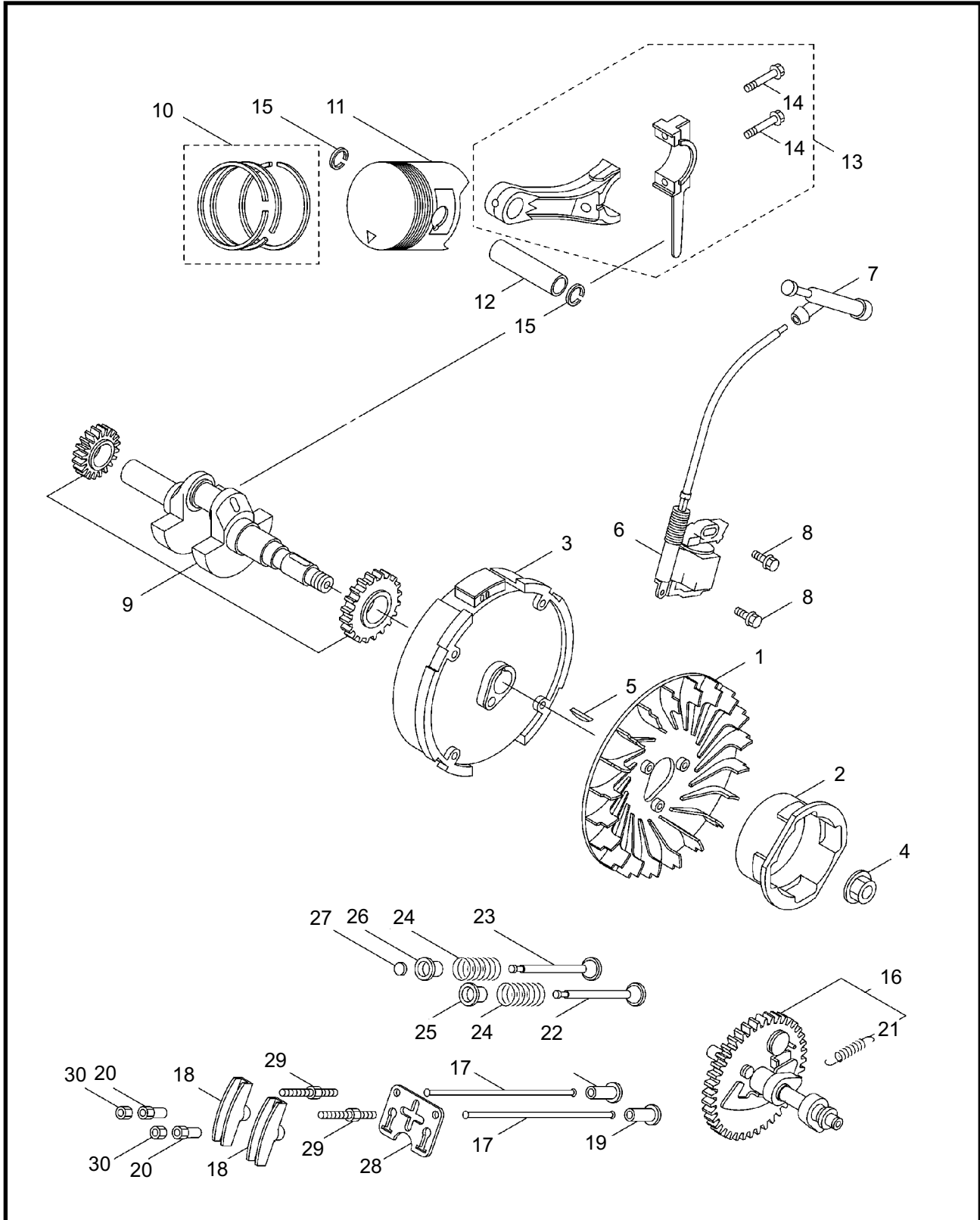
# ENGINE



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
40	625252	P.T.O. Shaft	1	
41	998198	Flange Bolt	5	
42	583677	Thrust Spring	1	
43	583678	Spacer	1	
44	583679	Washer	1	
45	620762	Key	1	5x5x33
46	626325	Oil Seal	1	
47	620763	Bolt	1	
48	990497	Dowel Pin	2	8x14
49	626332	Radial Ball Bearing	1	

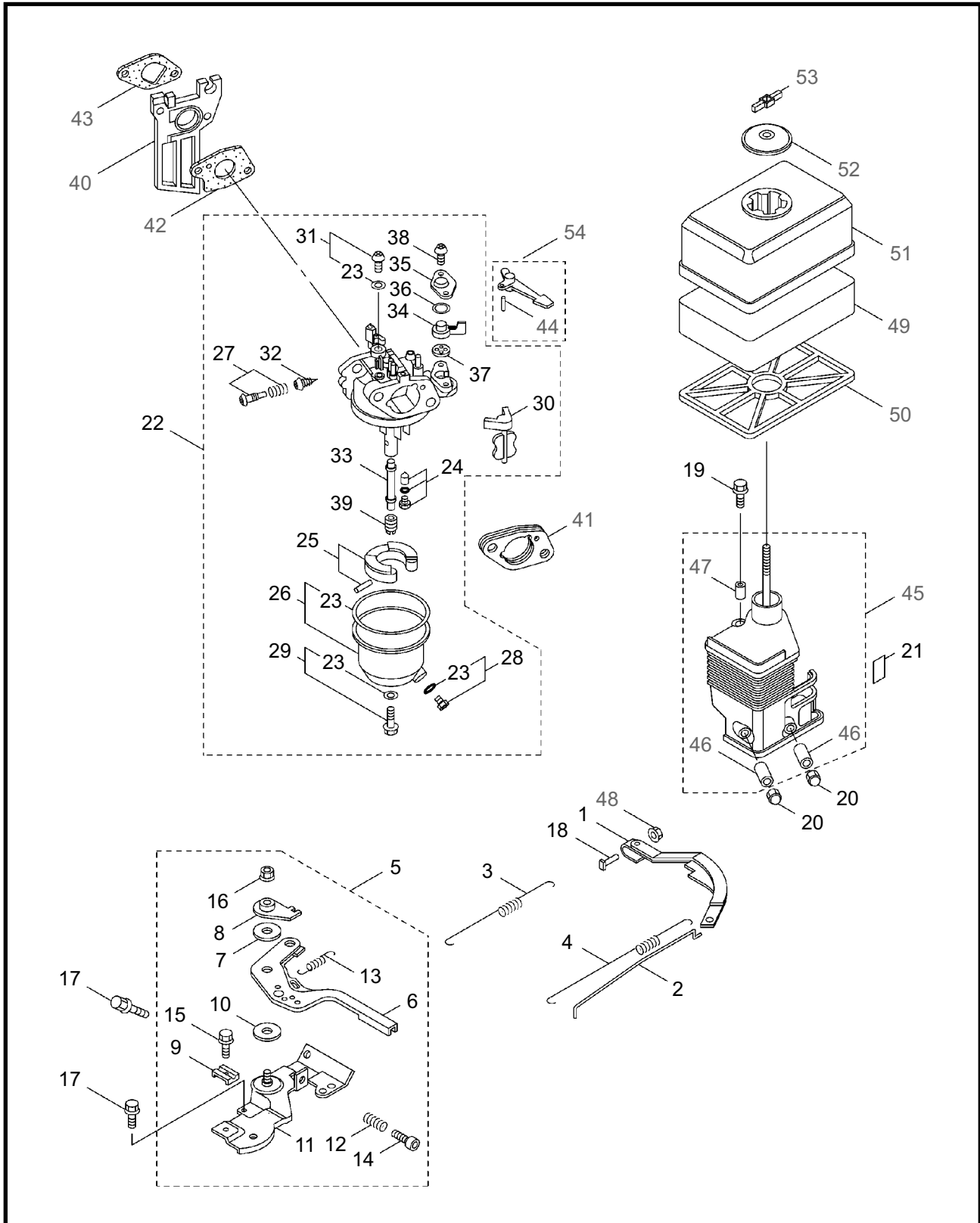


# ENGINE (CRANKCASE, PISTON, CAMSHAFT)



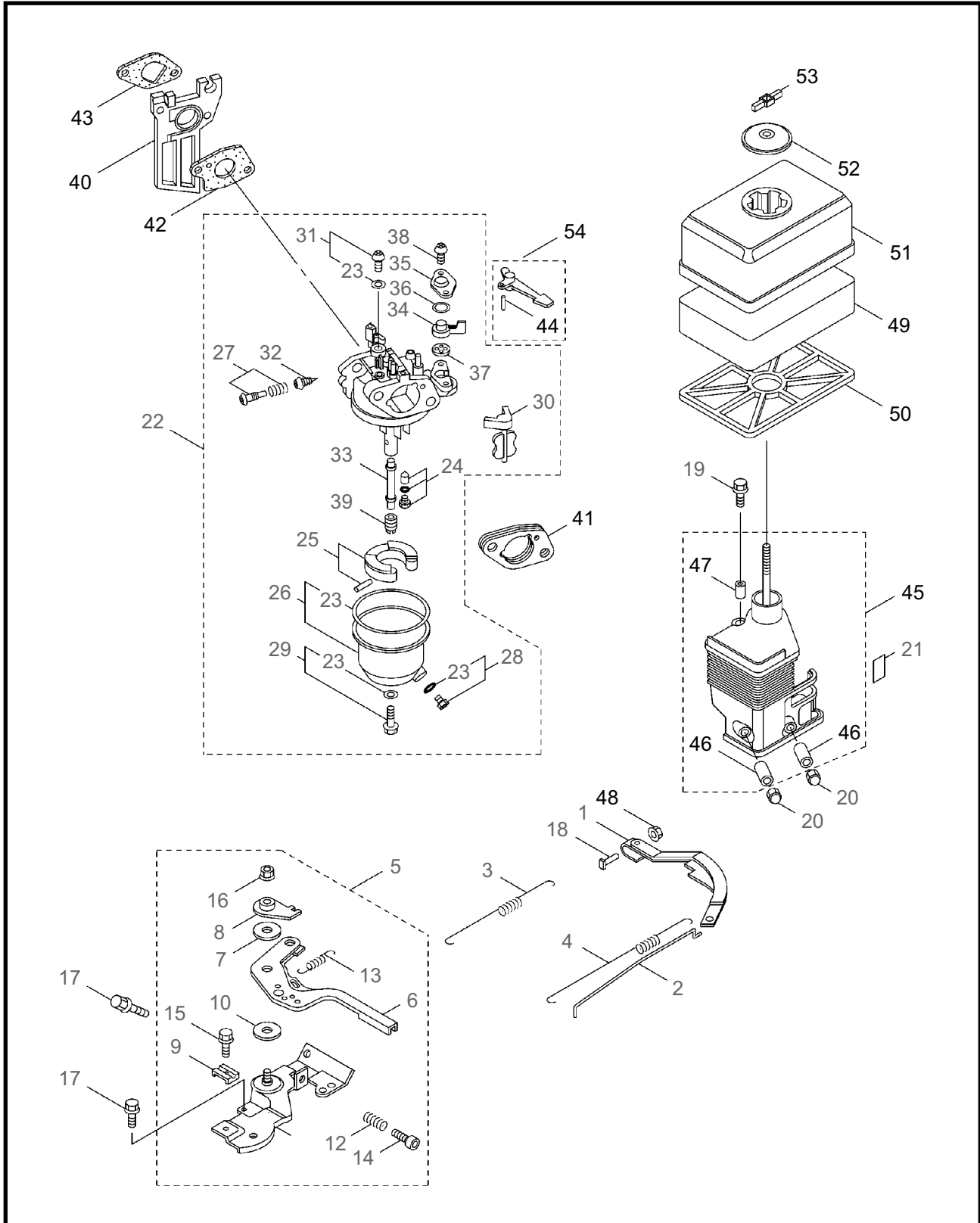
<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	626384	Cooling Fan	1	
2	626385	Starter Pulley	1	
3	626386	Flywheel Comp.	1	
4	626388	Special Nut	1	
5	626383	Special Woodruff Key	1	
6	625232	Ignition Coil Ass'y	1	
7	625233	Cap Ass'y	1	
8	998214	Flange Bolt	2	6x25
9	583689	Crankshaft Comp.	1	
10	625253	Piston Ring Set	1	
11	625254	Piston	1	
12	626355	Piston Pin	1	
13	583695	Connecting Rod Ass'y	1	Incl. 14
14	626357	Connecting Rod Bolt	2	
15	626358	Piston Pin Clip	2	
16	626346	Camshaft Ass'y	1	Incl. 21
17	626347	Push Rod	2	
18	626348	Valve Rocker Arm	2	
19	626349	Valve Lifter	2	
20	583702	Rocker Arm Pivot	2	
21	625925	Weight Return Spring	1	
22	625255	Inlet Valve	1	
23	625256	Exhaust Valve	1	
24	626350	Valve Spring	2	
25	626352	Retainer	1	
26	262352	Retainer	1	
27	626353	Valve Rotator	1	
28	626354	Push Rod Guide Plate	1	
29	625938	Pivot Bolt	2	
30	625939	Pivot Adjusting Nut	2	

# ENGINE (CARBURETOR, AIR CLEANER)



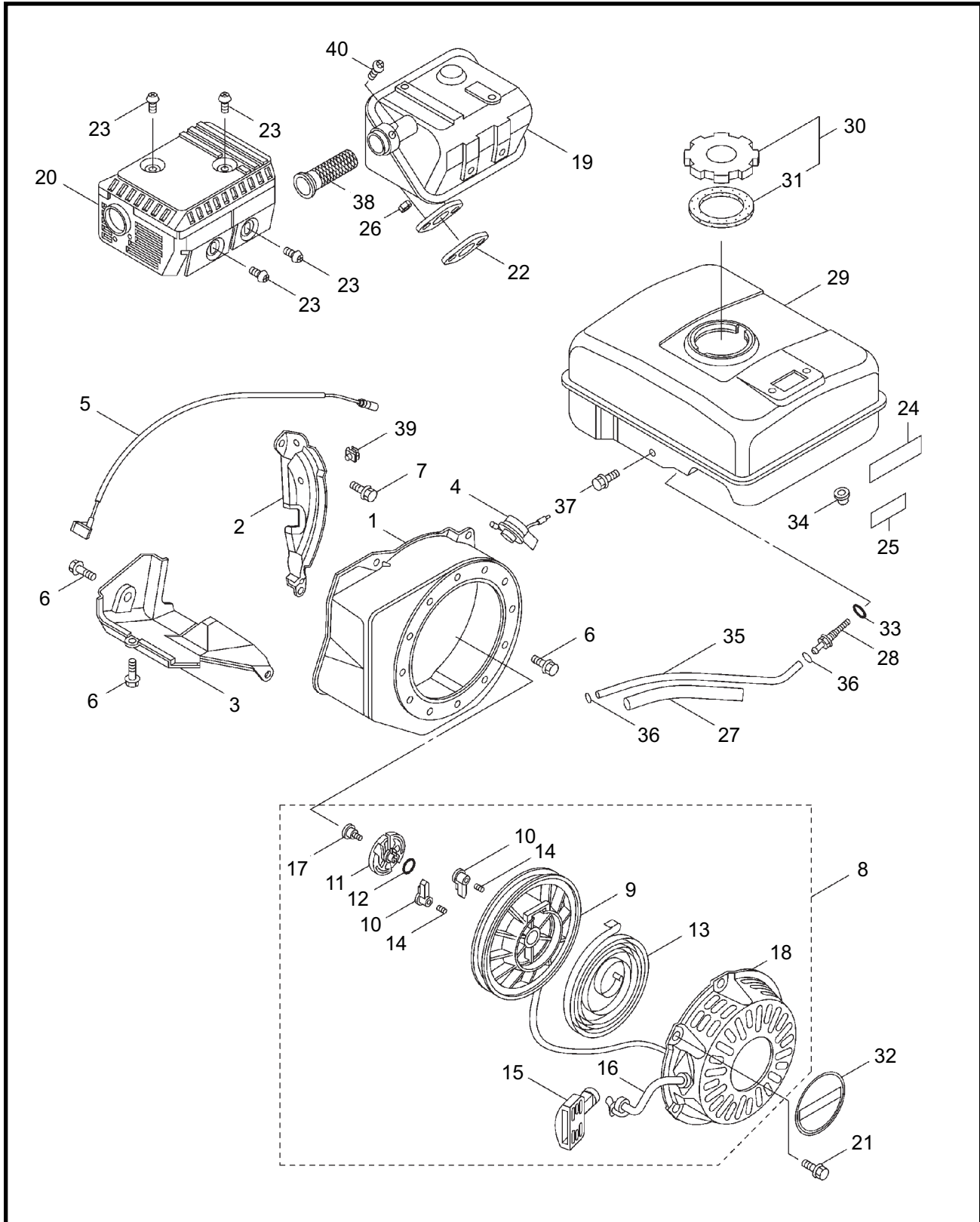
<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	626379	Governor Arm	1	
2	626380	Governor Rod	1	
3	583715	Governor Spring	1	
4	626382	Throttle Return Spring	1	
5	625257	Control Ass'y	1	Incl. 6-16
6	625258	Control Lever	1	
7	998280	Lever Spring	1	
8	620829	Control Lever Washer	1	
9	990418	Cable Holder	1	
10	998278	Control Lever Spacer	1	
11	625259	Control Base Comp.	1	
12	990419	Control Adjusting Spring	1	
13	583721	Cable Return Spring	1	
14	620831	Pan Screw	1	
15	620832	Pan Screw	1	
16	583724	Self Lock Nut	1	
17	990467	Flange Bolt	2	6x12
18	626007	Governor Arm Bolt	1	
19	583756	Bolt	1	
20	990487	Flange Nut	2	
21	620846	Choke Mark	1	
22	625260	Carburetor Ass'y	1	Incl. 23-38
23	620833	Gasket Ass'y	1	Incl. 44
24	998250	Float Valve Ass'y	1	
25	626364	Float Ass'y	1	
26	583730	Float Chamber Ass'y	1	Incl. 23, 28
27	998257	Pilot Screw Ass'y	1	
28	998255	Drain Screw Ass'y	1	Incl. 23
29	626367	Screw Ass'y	1	Incl. 23
30	626368	Choke Ass'y	1	
31	998260	Pilot Jet Ass'y	1	Incl. 23
32	998258	Throttle Stop Screw	1	
33	625270	Main Nozzle	1	
34	583741	Cock Lever	1	
35	998266	Lever Setting Plate	1	
36	998265	Cock Lever Spring	1	
37	620840	Gasket, Petcock	1	
38	620841	Pan Screw	2	
39	625262	Main Jet	1	#65

# ENGINE (THROTTLE ASSEMBLY)



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
40	626374	Insulator	1	
41	583737	Carburetor Spacer Comp.	1	
42	625236	Carburetor Packing	1	
43	625261	Insulator Gasket	1	
44	626377	Spring Pin	1	
45	583751	Air Cleaner Elbow Comp.	1	Incl. 46, 47
46	583749	Air Cleaner Collar	2	
47	583750	Air Cleaner Collar B	1	
48	990487	Flange Nut	1	
49	583746	Air Cleaner Element	1	
50	583747	Air Cleaner Grid	1	
51	583748	Air Cleaner Cover	1	
52	583752	Cleaner Cap	1	
53	990471	Wingnut	1	
54	583740	Choke Lever Comp.	1	Incl. 44

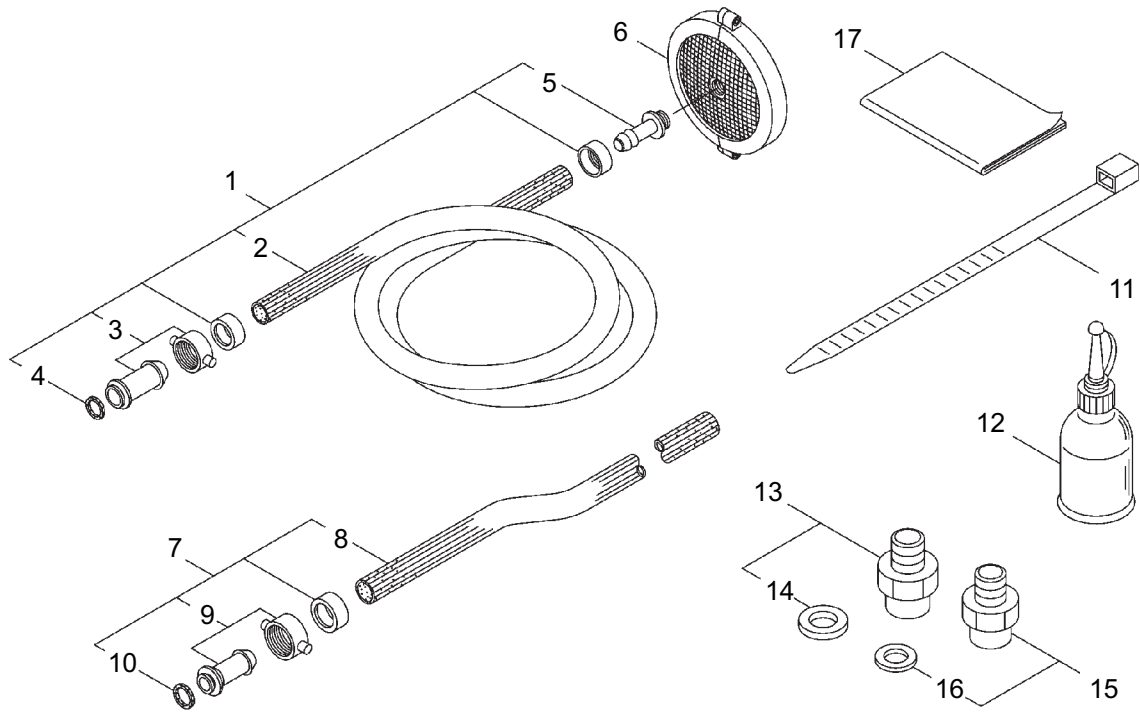
# ENGINE (FUEL TANK, MUFFLER, RECOIL STARTER)



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	625263	Fan Cover Comp.	1	
2	625264	Side Plate	1	
3	625265	Shroud Comp.	1	
4	625240	Stop Switch Ass'y	1	
5	620851	Stop Switch Cord	1	
6	990467	Flange Bolt	6	6x12
7	626393	Flange Bolt	1	
8	620853	Recoil Starter Ass'y	1	Incl. 9-18
9	626448	Recoil Starter Reel	1	
10	626449	Starter Ratchet	2	
11	626450	Ratchet Guide	1	
12	626451	Friction Spring	1	
13	626452	Recoil Starter Spring	1	
14	626453	Return Spring	2	
15	620862	Recoil Starter Knob	1	
16	626455	Recoil Starter Rope	1	
17	626456	Setting Screw	1	
18	620854	Recoil Starter Case Comp.	1	
19	625267	Muffler Comp.	1	
20	620867	Muffler Protector	1	
21	626609	Flange Bolt	3	
22	626624	Muffler Gasket	1	
23	583785	Tapping Screw	4	
24	620847	Label	1	
25	625241	Label	1	
26	626627	Nut	2	
27	620869	Supporter Rubber	1	
28	583789	Fuel Tank Joint	1	
29	625268	Fuel Tank Comp.	1	
30	620871	Fuel Filler Cap Comp.	1	Incl. 31
31	620872	Gasket, Fuel Filler Cap	1	
32	625266	Emblem	1	
33	625228	O-Ring	1	
34	990487	Flange Nut	2	
35	583795	Fuel Tube	1	
36	990499	Tube Clip	2	
37	583796	Flange Bolt	1	
38	625269	Spark Arrester	1	
39	625242	Clip	1	
40	583786	Tapping Screw	1	4x6



# ACCESSORIES



<b>REF #</b>	<b>PART #</b>	<b>DESCRIPTION</b>	<b>Q'TY.</b>	<b>NOTES</b>
1	105936	Suction Hose Ass'y	1	Incl. 2-5
2	103571	Hose	1	19x1Bx3000L
3	098213	Hose Coupling	1	
4	103686	Packing	1	
5	105937	Hose Coupling	1	
6	122017	Suction Strainer Ass'y	1	
7	103572	Spill Hose Ass'y	1	Incl. 8-10
8	103573	Hose	1	13x19x3000L
9	098009	Hose Coupling	1	
10	103685	Packing	1	
11	107107	Band	1	
12	015773	Oil Feeder	1	
13	091010	Extension	1	Incl. 14
14	550090	Packing	1	
15	091015	Extension	1	Incl. 16
16	014823	Packing	1	
17	814273	Instruction Manual	1	



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