

PARTS LIST

MSW1012

MSW1017

MSW1515

2015.12.



P/N 524208

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1. MSW1012/MSW1017/MSW1515

MAIN BODY

5 — 6~18

6 — 7~9

10 — 11~15

Fig.6~12 MSW1012
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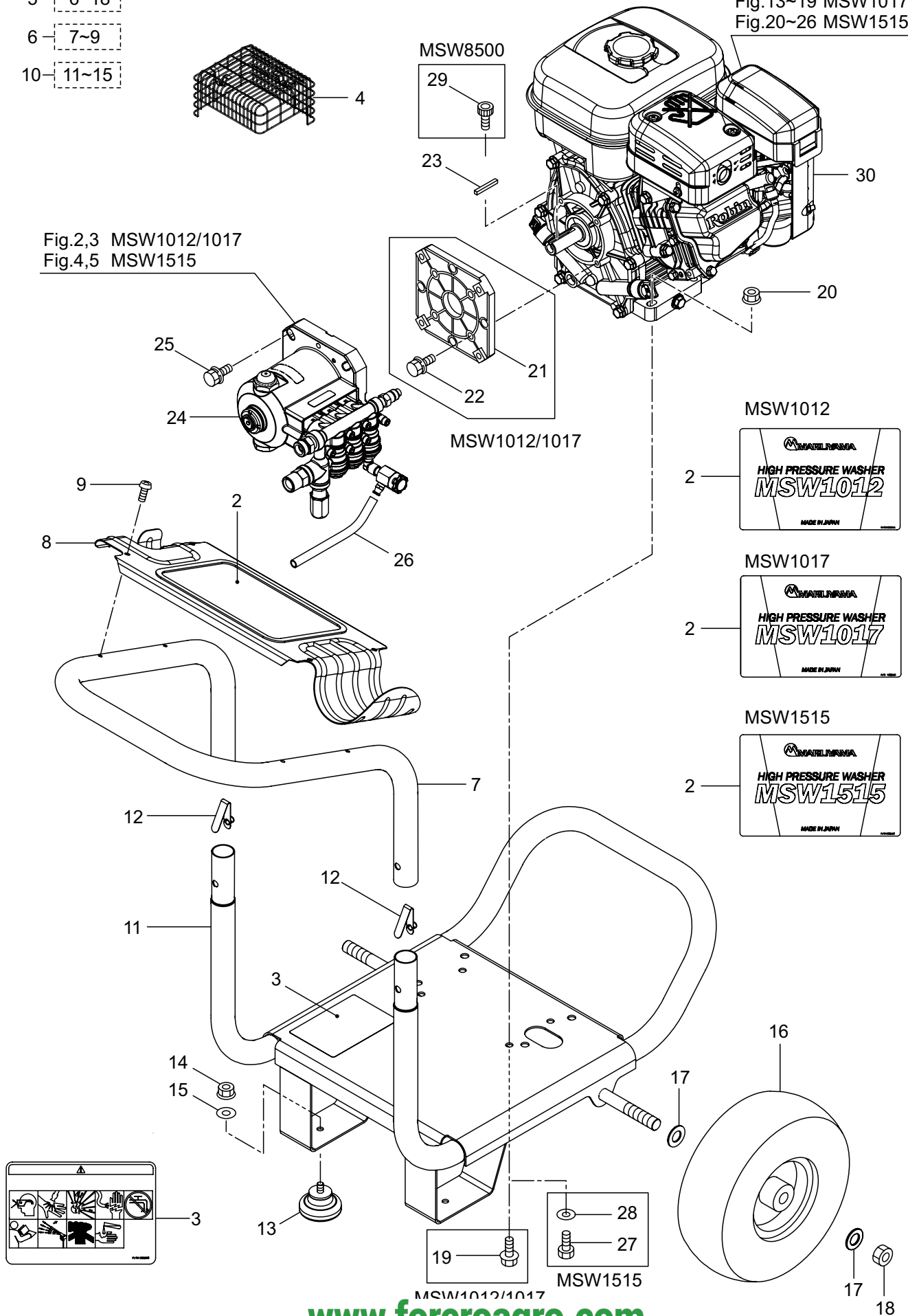


Fig.2,3 MSW1012/1017
Fig.4,5 MSW1515

MSW1012/1017

MSW1012



MSW1017

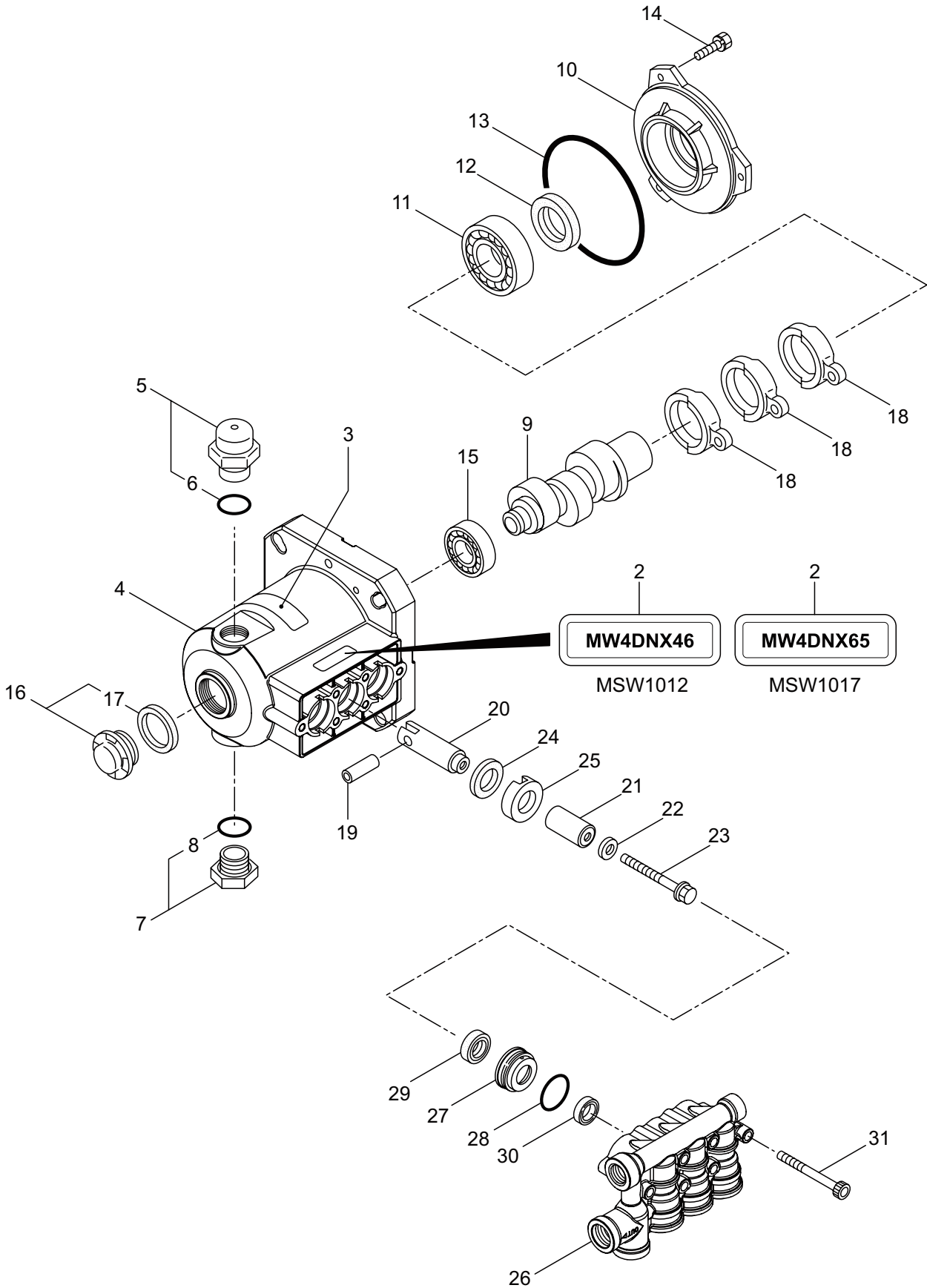


MSW1515



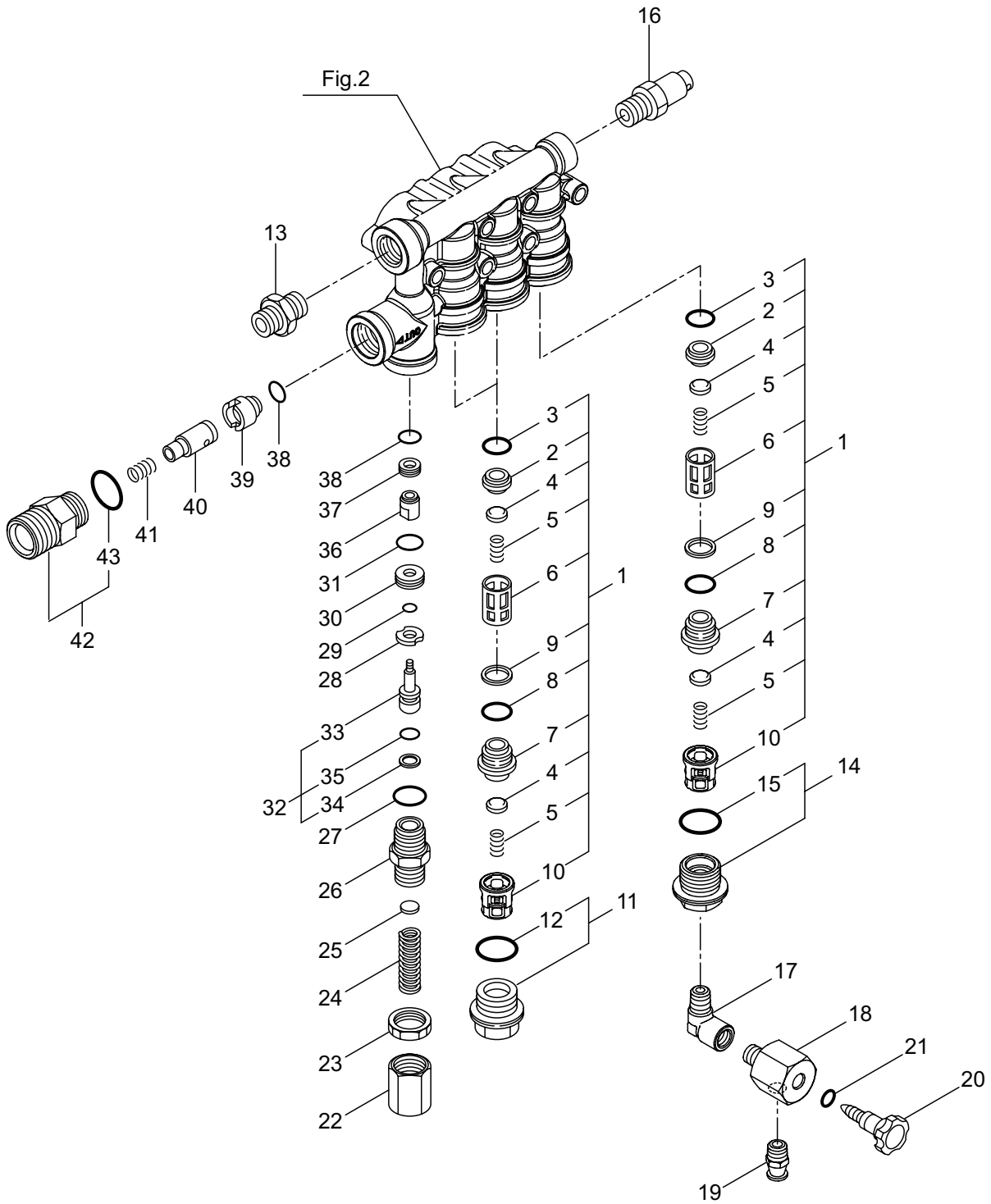
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1-1	316176	MSW1012	1			
1-1	316177	MSW1017		1		
1-1	316178	MSW1515			1	
1-2	133244	Label	1			MSW1012
1-2	133245	Label		1		MSW1017
1-2	133246	Label			1	MSW1515
1-3	133250	Label	1	1	1	
1-4	133222	Maffler Cover Comp	1	1		
1-4	133224	Maffler Cover Comp			1	
1-5	132647	Frame Ass'y	1	1	1	Incl.6-18
1-6	132681	Handle Ass'y	1	1	1	Incl.7-9
1-7	132747	Handle	1	1	1	
1-8	132682	Plate	1	1	1	
1-9	132683	Screw	4	4	4	M6x16
1-10	132748	Engine Base Ass'y	1	1	1	Incl.11-15
1-11	132680	Engine Base	1	1	1	
1-12	132684	Snap Button	2	2	2	
1-13	132688	Rubber Mount	2	2	2	30-M8X16
1-14	132689	Nut	2	2	2	M8
1-15	132941	Washer	2	2	2	M8
1-16	132685	Wheel	2	2	2	
1-17	132686	Washer	4	4	4	17.3x30xt2
1-18	132687	Nut	2	2	2	M16
1-19	092526	Bolt	4	4		M8x35
1-20	126201	Nut	4	4		M8
1-20	126567	Nut			4	M10
1-21	046271	Flange	1	1		
1-22	131212	Bolt	4	4		5/16-24UNFx20SM
1-23	547162	Key	1	1		3/16x3/16x38L
1-23	049411	Key			1	6.35x6.35x59
1-24	818587	MW4DNX46	1			
1-24	818588	MW4DNX65		1		
1-24	818589	MW67DX85			1	
1-25	541141	Bolt	4	4	4	3/8-35
1-26	132013	Vinyl Pipe	1	1	1	9x12x510
1-27	126532	Bolt			4	M10x40
1-28	126574	Washer			4	M10
1-29	126761	Cap Screw			1	M5x8
1-30	132690	Engine	1			EX170DM3460
1-30	132661	Engine		1		EX210DM2480
1-30	132668	Engine			1	EX270DM5180

2. MSW1012/MSW1017
PUMP-1



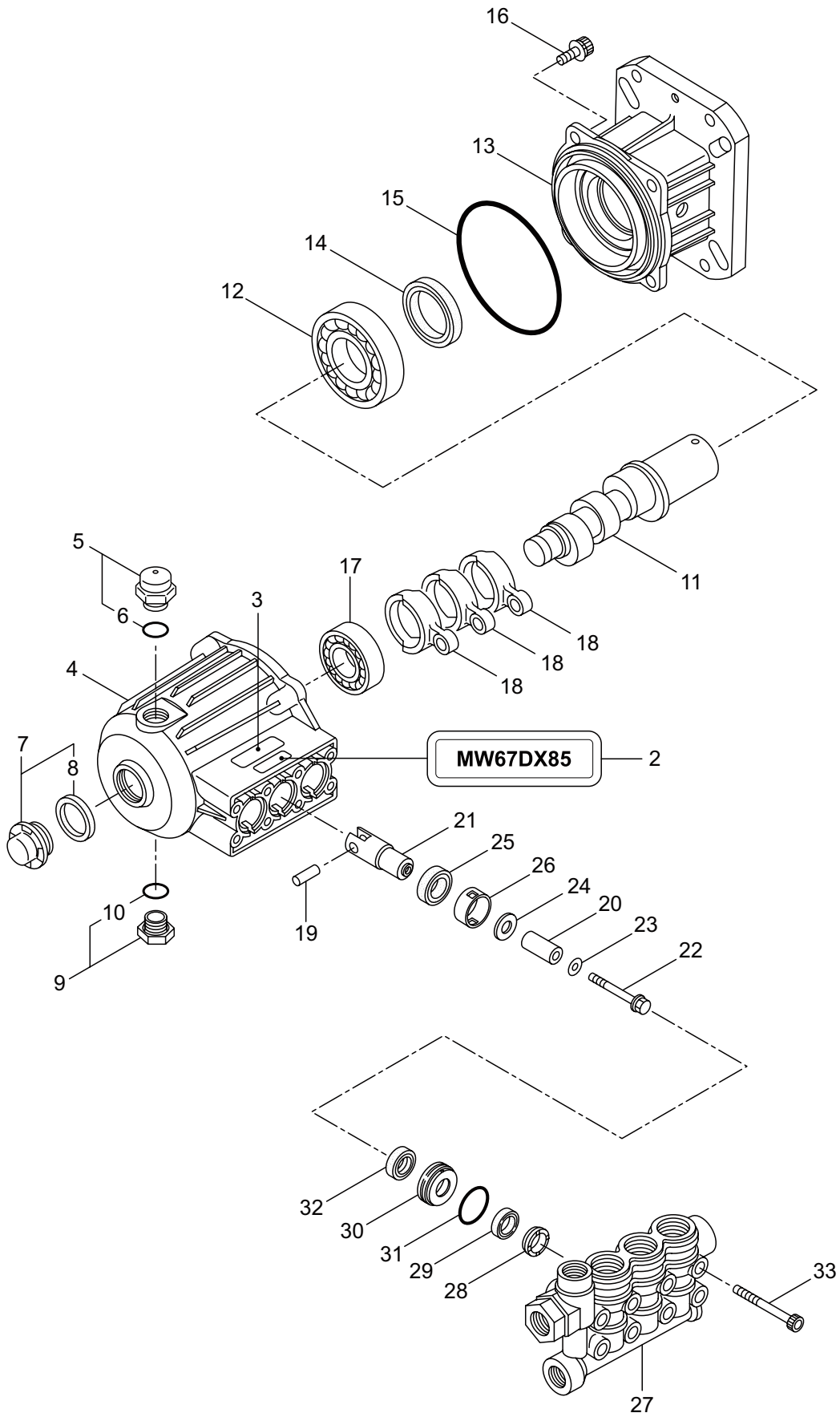
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2-1	818587	MW4DNX46	1			
2-1	818588	MW4DNX65		1		
2-2	132650	Label	1			MW4DNX46
2-2	132663	Label		1		MW4DNX65
2-3	101388	Label	1	1		
2-4	132651	Crank Case	1	1		
2-5	547961	Oil Filler Cap, Ass'y	1	1		Incl.6
2-6	014179	O-Ring	1	1		P20
2-7	811174	Plug Ass'y	1	1		Incl.8
2-8	014179	O-Ring	1	1		P20
2-9	049882	Crank Shaft	1	1		
2-10	547153	Bearing Case	1	1		2SF
2-11	014488	Bearing	1	1		#6006
2-12	055337	Oil Seal	1	1		D30428
2-13	014041	O-Ring	1	1		S100
2-14	549360	Screw	3	3		M6x14
2-15	015710	Bearing	1	1		#6204
2-16	092241	Oil Gauge Ass'y	1	1		Incl.17
2-17	044428	Packing	1	1		25x34xt2
2-18	547048	Connecting Rod	3	3		
2-19	046229	Piston Pin	3	3		
2-20	542402	Piston	3	3		
2-21	547091	Sleeve	3	3		
2-22	046730	Seal Washer	3	3		
2-23	542405	Bolt	3	3		M6x35
2-24	047215	Oil Seal	3	3		
2-25	046233	Seal Packing Retainer	3	3		
2-26	049763	Manifold	1	1		
2-27	049804	Seal Case	3	3		
2-28	013976	O-Ring	3	3		S25
2-29	049816	U-Packing B	3	3		
2-30	049824	U-Packing A	3	3		
2-31	549357	Cap Screw	6	6		M6x60

3. MSW1012/MSW1017
PUMP-2 (Valve)



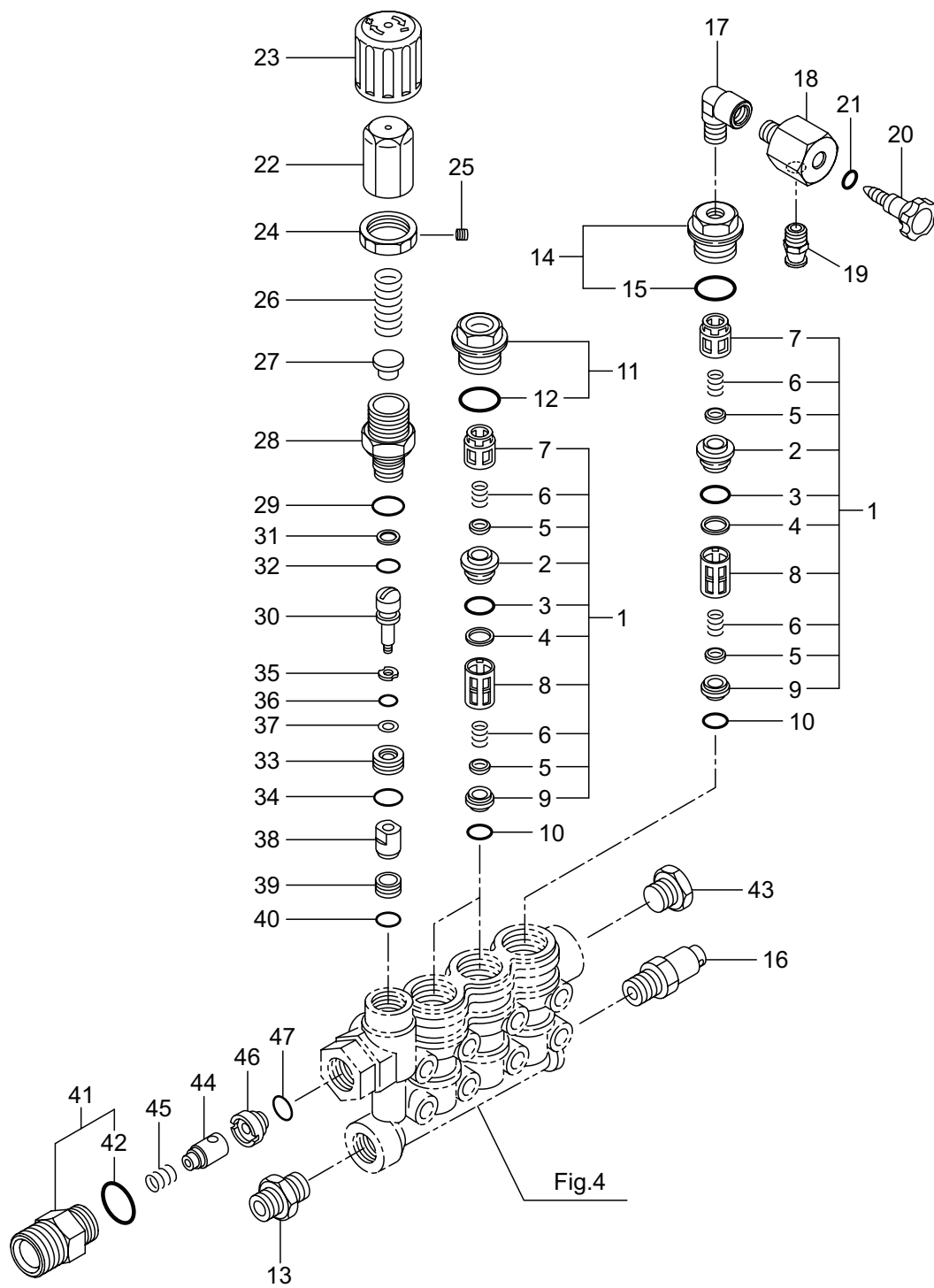
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
3-1	049808	Valve Ass'y	3	3		Incl.2-10
3-2	547077	Valve Seat	3	3		
3-3	017428	O-Ring	3	3		P10
3-4	547098	Valve	6	6		
3-5	046865	Spring	6	6		0.45-12L
3-6	543988	Spring Retainer	3	3		
3-7	547076	Valve Seat	3	3		
3-8	043358	O-Ring	3	3		12.3x1.6
3-9	048361	Back-Up Ring	3	3		12.5x15x1
3-10	049764	Spring Retainer	3	3		
3-11	547104	Plug Ass'y	2	2		Incl.12
3-12	142807	O-Ring	2	2		P18
3-13	028371	Nipple	1	1		3/8-18NPTxPF1/2
3-14	131183	Plug Ass'y	1	1		Incl.15
3-15	142807	O-Ring	1	1		P18
3-16	132652	Valve	1	1		
3-17	131185	Elbow	1	1		
3-18	541778	Air Bleeder	1	1		
3-19	541559	Adapter	1	1		
3-20	027441	Needle Valve	1	1		
3-21	011341	O-Ring	1	1		3x2
3-22	547798	Pressre Regulator Cap	1	1		
3-23	045070	Nut	1	1		M18x1
3-24	549356	Spring	1	1		2.9-40L
3-25	549352	Plate	1	1		11x2.3
3-26	547799	Piston Guide	1	1		
3-27	026133	O-Ring	1	1		S16
3-28	046250	Washer	1	1		
3-29	017399	O-Ring	1	1		P6
3-30	046249	Sleeve	1	1		
3-31	013966	O-Ring	1	1		S12.5
3-32	811301	Piston Ass'y	1	1		Incl.33-35
3-33	045694	Piston	1	1		
3-34	020184	Back-up Ring	1	1		
3-35	014190	O-Ring	1	1		P8
3-36	547800	Valve	1	1		
3-37	049664	Valve Seat	1	1		
3-38	013963	O-Ring	2	2		S10
3-39	046254	Valve Seat	1	1		
3-40	541060	Valve Comp	1	1		
3-41	045924	Spring	1	1		0.6-11.5L
3-42	131186	Adapter Ass'y	1	1		Incl.43
3-43	026133	O-Ring	1	1		S16

4. MSW1515
PUMP-1



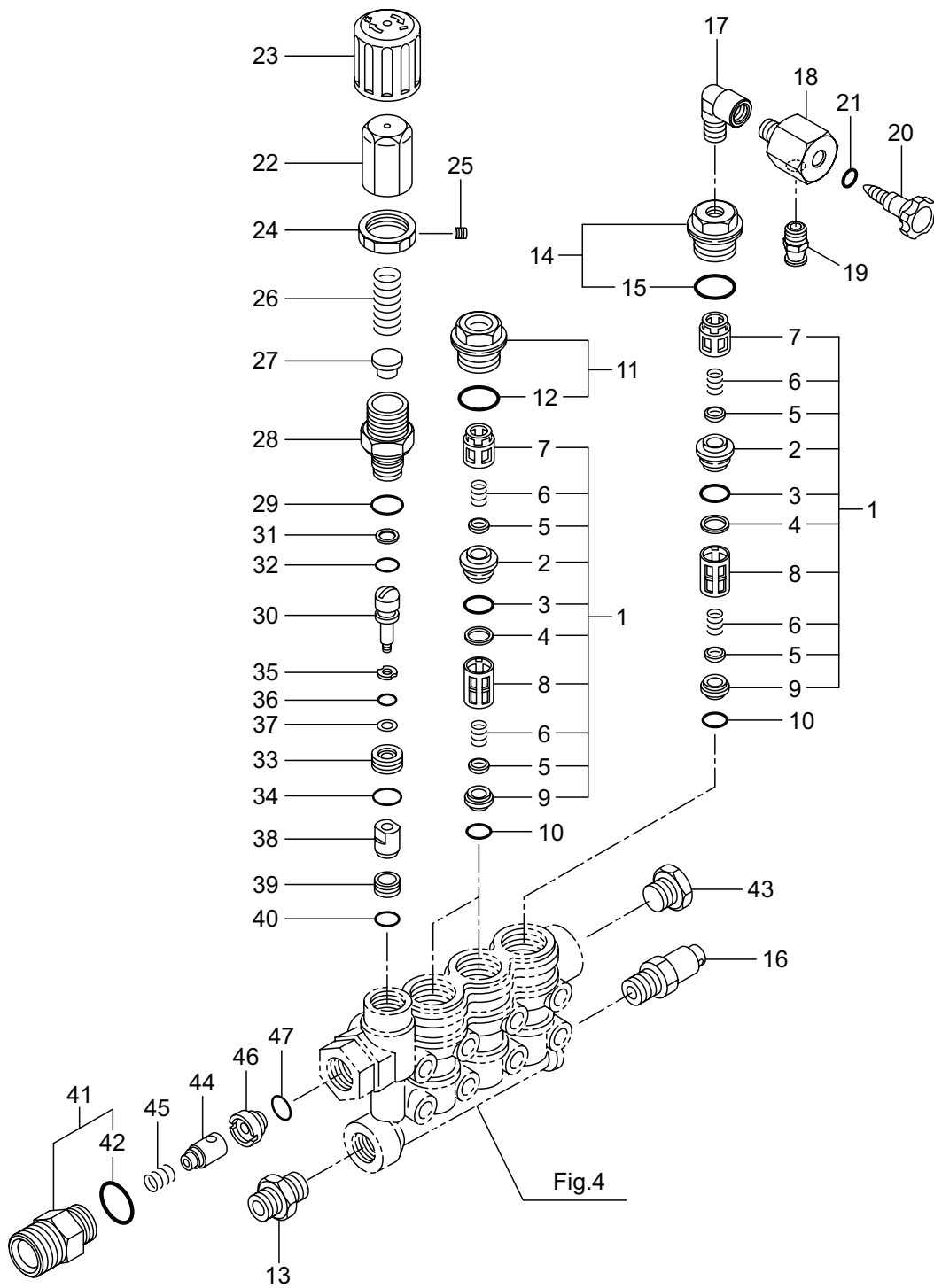
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4-1	818589	MW67DX85			1	
4-2	132670	Label			1	MW67DX85
4-3	101388	Label			1	
4-4	132671	Crank Case			1	
4-5	547961	Oil Filler Cap, Ass'y			1	Incl.6
4-6	014179	O-Ring			1	P20
4-7	092241	Oil Gauge Ass'y			1	Incl.8
4-8	044428	Packing			1	25x34xt2
4-9	811174	Plug Ass'y			1	Incl.10
4-10	014179	O-Ring			1	P20
4-11	132296	Crank Shaft			1	
4-12	126962	Bearing			1	#6208
4-13	049361	Flange			1	
4-14	125351	Oil Seal			1	TC40559
4-15	014043	O-Ring			1	S110
4-16	127285	Cap Screw			4	M8x25
4-17	049363	Bearing			1	#63/22
4-18	049364	Connecting Rod			3	
4-19	049366	Piston Pin			3	
4-20	049367	Sleeve			3	14x28L
4-21	049368	Piston			3	
4-22	049369	Bolt			3	M6x40x16
4-23	046730	Seal Washer			3	
4-24	049370	Washer			3	9x20xt0.4
4-25	047215	Oil Seal			3	
4-26	049371	Seal Packing Retainer			3	
4-27	049372	Manifold			1	
4-28	048757	Adapter Male			3	
4-29	048758	U-Packing A			3	
4-30	049374	Seal Case			3	
4-31	013977	O-Ring			3	S26
4-32	045188	U-Packing B			3	14x24x6
4-33	126512	Cap Screw			8	M8x65

5. MSW1515
PUMP-2 (Valve)



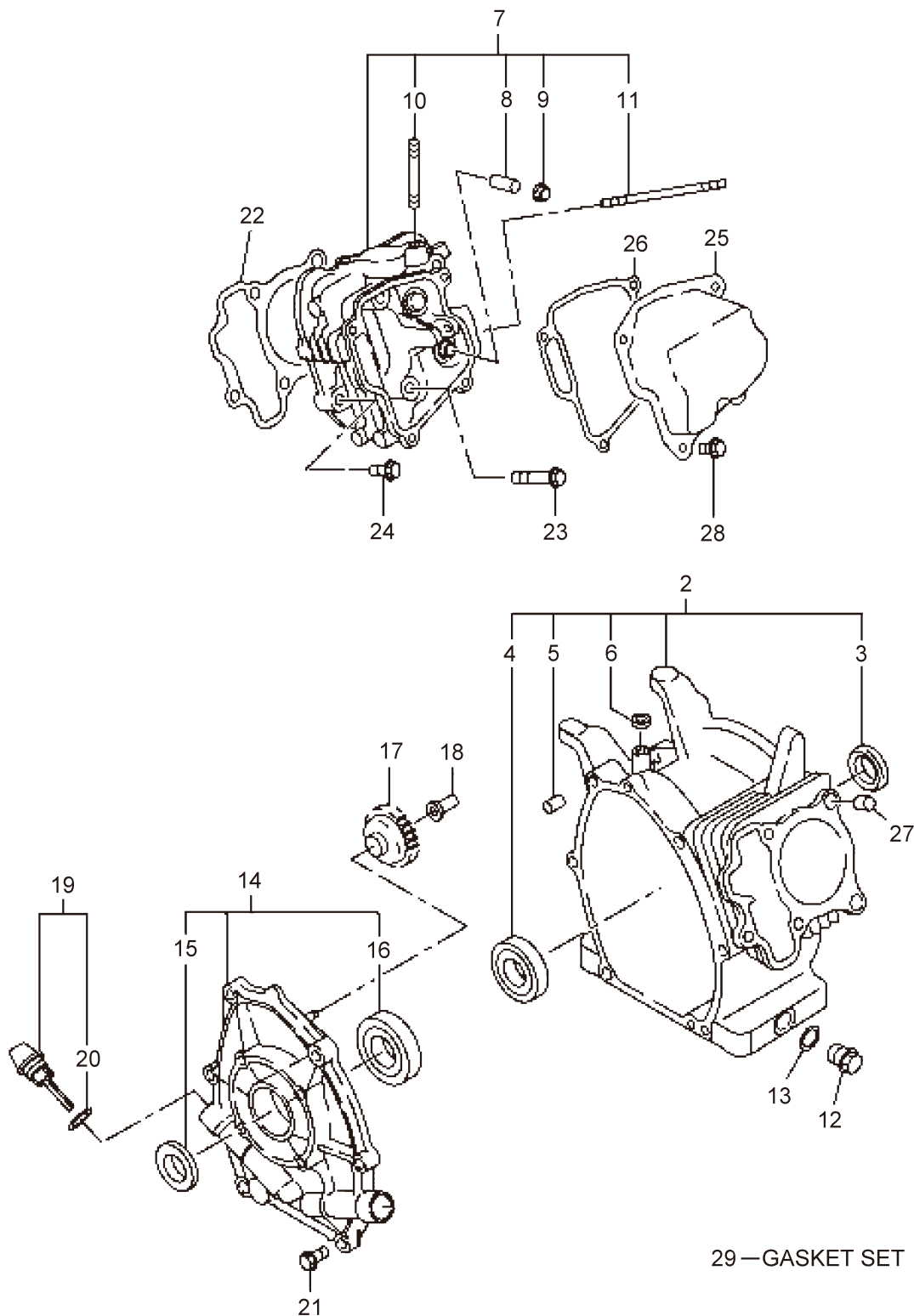
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
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5-1	049375	Valve Ass'y			3	Incl.2-9
5-2	049376	Valve Seat			3	
5-3	043358	O-Ring			3	12.3x1.6
5-4	048361	Back-Up Ring			3	12.5x15x1
5-5	547098	Valve			6	
5-6	049354	Spring			6	0.5-11L
5-7	547441	Spring Retainer			3	
5-8	049377	Spring Retainer			3	
5-9	049378	Valve Seat			3	
5-10	026129	O-Ring			3	S12
5-11	049379	Plug Ass'y			2	Incl.12,13
5-12	049382	O-Ring			2	P20
5-13	028375	Nipple			1	1/2-14NPTxG1/2
5-14	132672	Plug Ass'y			1	Incl.15
5-15	049382	O-Ring			1	P20
5-16	132652	Valve			1	
5-17	131185	Elbow			1	
5-18	541778	Air Bleeder			1	
5-19	541559	Adapter			1	
5-20	027441	Needle Valve			1	
5-21	011341	O-Ring			1	3x2
5-22	049099	Pressure Regulator Cap			1	
5-23	049100	Cap			1	
5-24	125521	Nut			1	M25x1
5-25	088953	Cap Screw			1	M4x4
5-26	045198	Spring			1	4.5-45L
5-27	049101	Plate			1	
5-28	049102	Piston Guide			1	
5-29	026133	O-Ring			1	S16
5-30	049103	Piston			1	
5-31	129638	Back-Up Ring			1	P9
5-32	049104	O-Ring			1	P9
5-33	049105	Sleeve			1	
5-34	049106	O-Ring			1	S15
5-35	049107	Washer			1	
5-36	022056	O-Ring			1	P7
5-37	049123	Back-Up Ring			1	7x10x1.25
5-38	049383	Valve			1	
5-39	049384	Valve Seat			1	
5-40	013965	O-Ring			1	S12
5-41	132674	Adapter Ass'y			1	Incl.42
5-42	026133	O-Ring			1	S16
5-43	043633	Plug			1	3/8-18NPT
5-44	049245	Valve Comp			1	
5-45	117275	Spring			1	

5. MSW1515
PUMP-2 (Valve)



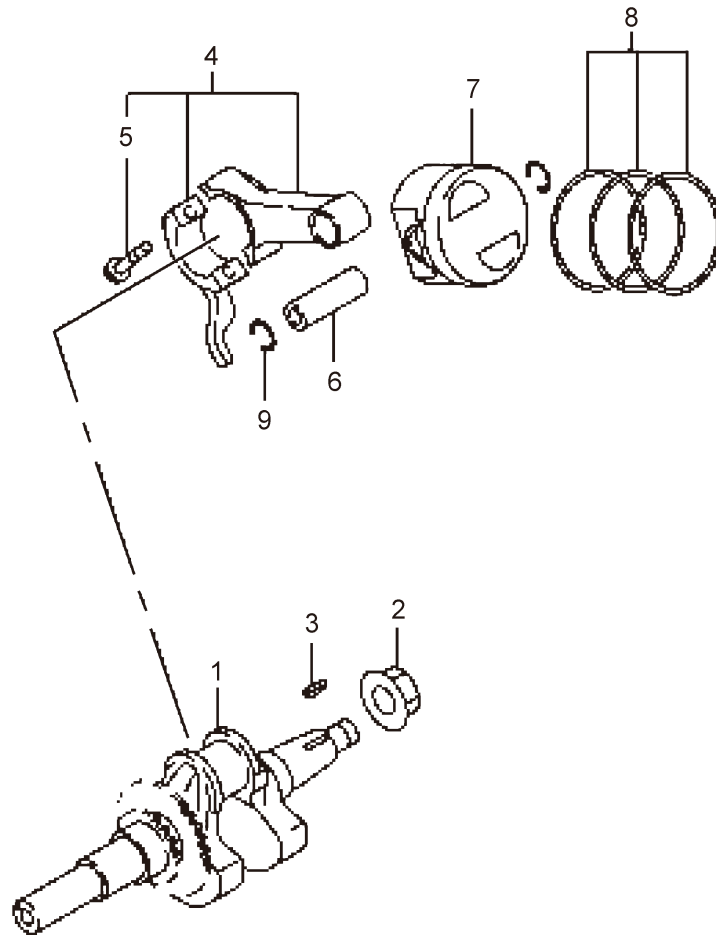
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5-46	049386	Valve Seat			1	S10
5-47	013963	O-Ring			1	

6. MSW1012
ENGINE (Crankcase, Cylinder Head)



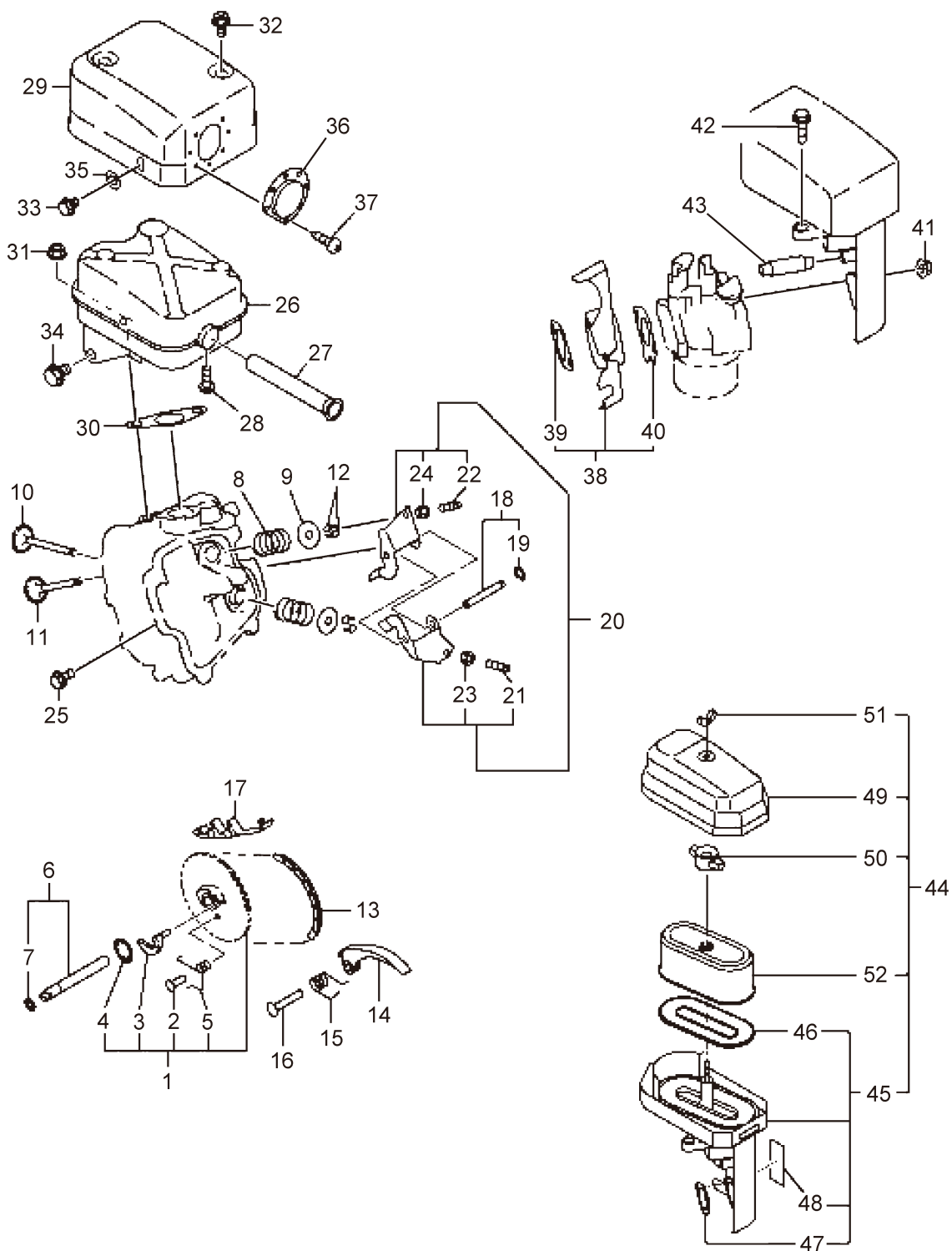
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
6-1	132690	Engine	1			EX170DM3460
6-2	426289	Crankcase Comp	1			Incl.3-6
6-3	647454	Oil Seal	1			
6-4	647455	Bearing	1			
6-5	647456	Pipe Knock	2			
6-6	647458	Oil Seal	1			
6-7	417108	Cylinder Head Comp	1			Incl.8-11
6-8	627981	Valve Guide	2			
6-9	647453	Stem Seal	1			
6-10	582498	Stud	2			
6-11	647457	Stud	2			
6-12	998006	Plug	2			
6-13	998005	Gasket	2			
6-14	426290	Main Bearing Cover C	1			Incl.15,16
6-15	647460	Oil Seal	1			
6-16	417040	Bearing	1			
6-17	417041	Governor Gear Comp	1			
6-18	417042	Governor Sleeve	1			
6-19	417044	Oil Ggauge Ass'y	2			Incl.20
6-20	417043	Gasket	2			
6-21	647466	Bolt	6			
6-22	420120	Gasket	1			
6-23	647469	Flange Bolt	4			
6-24	647470	Flange Bolt	1			
6-25	417047	Rocker Cover Comp	1			
6-26	647472	Gasket	1			
6-27	647456	Pipe Knock	2			
6-28	997940	Flange Bolt	4			
6-29	426049	Gasket Set	1			

7. MSW1012
ENGINE (Crank Shaft, Piston)



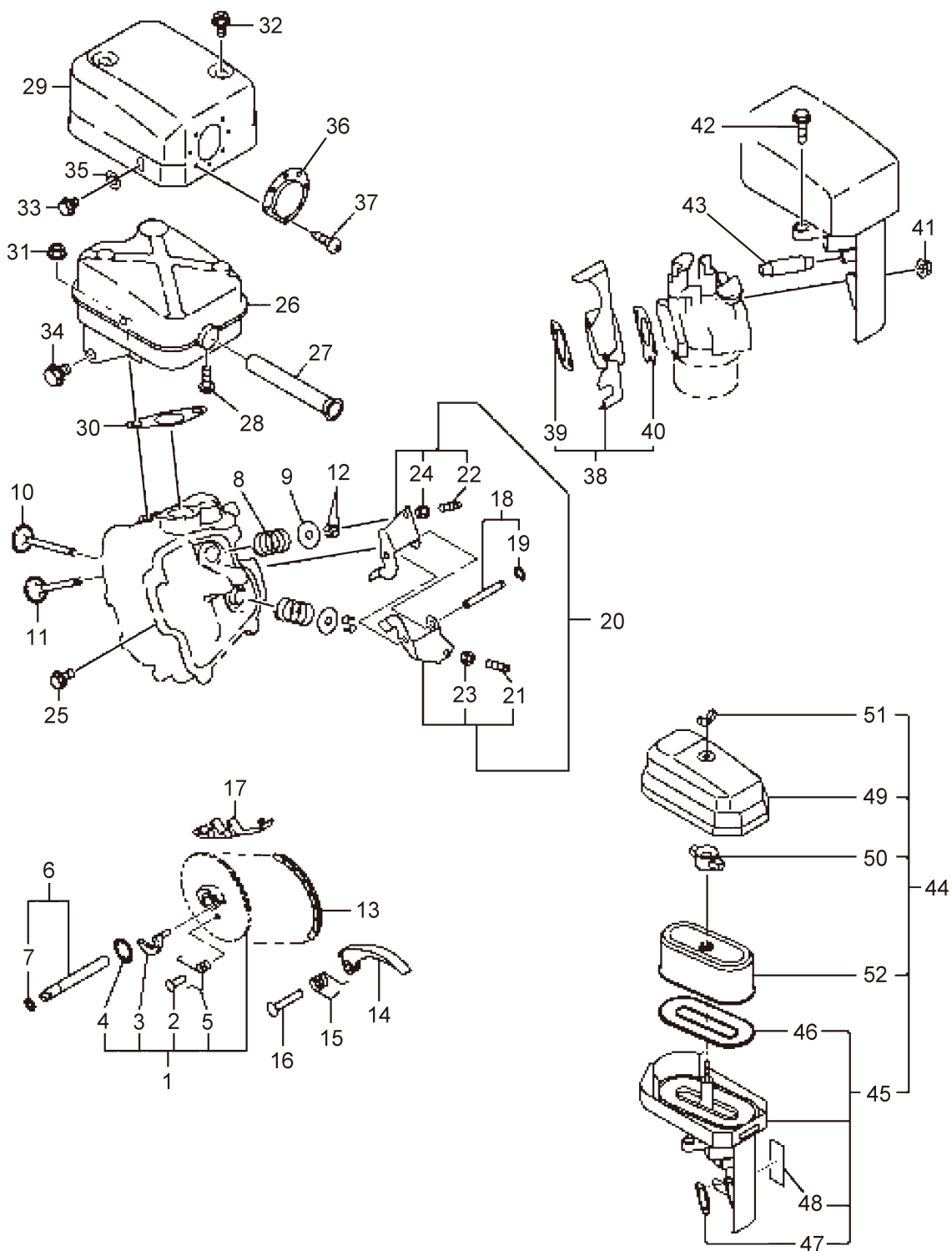
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7-1	420122	Crankshaft Comp	1			
7-2	647475	Nut	1			
7-3	998021	Woodruff Key	1			
7-4	417112	Connecting Rod Ass'y	1			Incl.5
7-4	417113	Connecting Rod Ass'y	1			Incl.5 US0.25
7-5	647480	Connecting Rod Bolt	2			
7-6	417114	Piston Pin	1			
7-7	417115	Piston	1			STD
7-7	417116	Piston	1			OS0.25
7-7	417117	Piston	1			OS0.50
7-8	426050	Piston Ring Set	1			STD
7-8	417119	Piston Ring Set	1			OS0.25
7-8	417120	Piston Ring Set	1			OS0.50
7-9	998034	Clip	2			

8. MSW1012
ENGINE (Air Cleaner, Muffler)



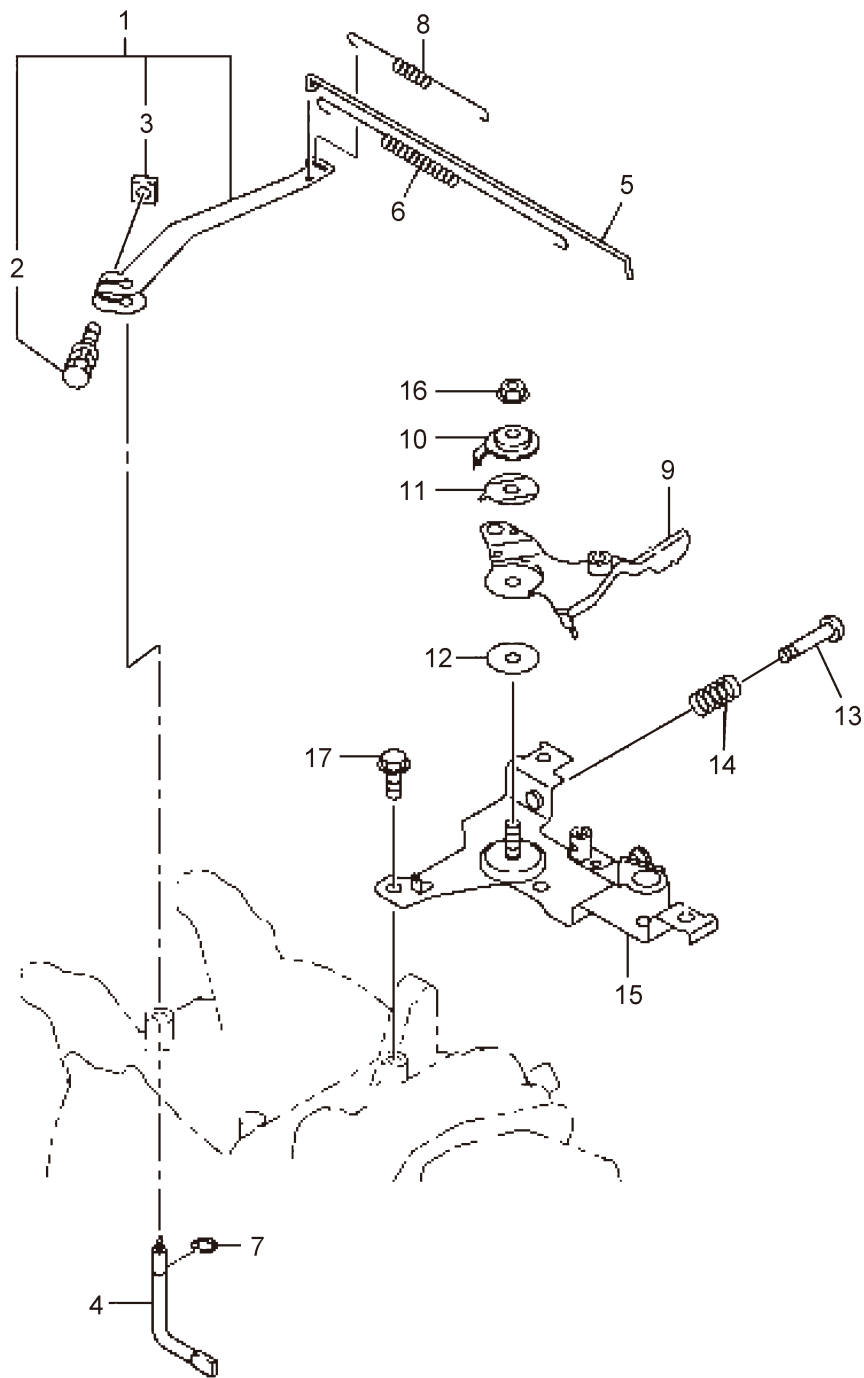
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
8-1	420127	Cam Shaft Comp	1			Incl.2-5
8-2	647491	Spring Pin	1			
8-3	647492	Release Lever	1			
8-4	647493	Clip	1			
8-5	647494	Return Spring	1			
8-6	417061	Pin Comp	1			Incl.7
8-7	417062	O-Ring	1			
8-8	647495	Valve Spring	2			
8-9	644011	Spring Retainer	2			
8-10	647496	Intake Valve	1			
8-11	647497	Exhaust Valve	1			
8-12	644010	Collet Valve	4			
8-13	417123	Timing Chain Comp	1			
8-14	426051	Tentioner	1			
8-15	647500	Spring	1			
8-16	647501	Pin	1			Incl.19
8-17	426052	Chain Guide	1			
8-18	417067	Pin Comp	1			
8-19	641764	Clip	1			
8-20	420128	Rocker Arm Ass'y Set	1			
8-21	647506	Adjust Screw	1			
8-22	647506	Adjust Screw	1			
8-23	647507	Nut	1			
8-24	647507	Nut	1			
8-25	997940	Flange Bolt	1			
8-26	420129	Muffler Comp	1			
8-27	426291	Spark Arrester Comp	1			
8-28	647516	Tapping Screw	1			
8-29	426053	Muffler Cover Comp	1			
8-30	647511	Gasket	1			
8-31	997954	Nut	2			
8-32	647513	Tapping Bolt	2			
8-33	997943	Flange Bolt	1			
8-34	647514	Flange Bolt	1			
8-35	420130	Washer	1			
8-36	417070	Screen Comp	1			Incl.39,40
8-37	647516	Tapping Screw	2			
8-38	426054	Insulator Comp	1			
8-39	426055	Gasket	1			
8-40	426056	Gasket	1			
8-41	582587	Flange Nut	2			DUAL Incl.45-52 Incl.46-48
8-42	417071	Flange Bolt	1			
8-43	417072	Breather Pipe	1			
8-44	426057	Air Cleaner Ass'y	1			
8-45	420132	Base Comp	1			

8. MSW1012
ENGINE (Air Cleaner, Muffler)



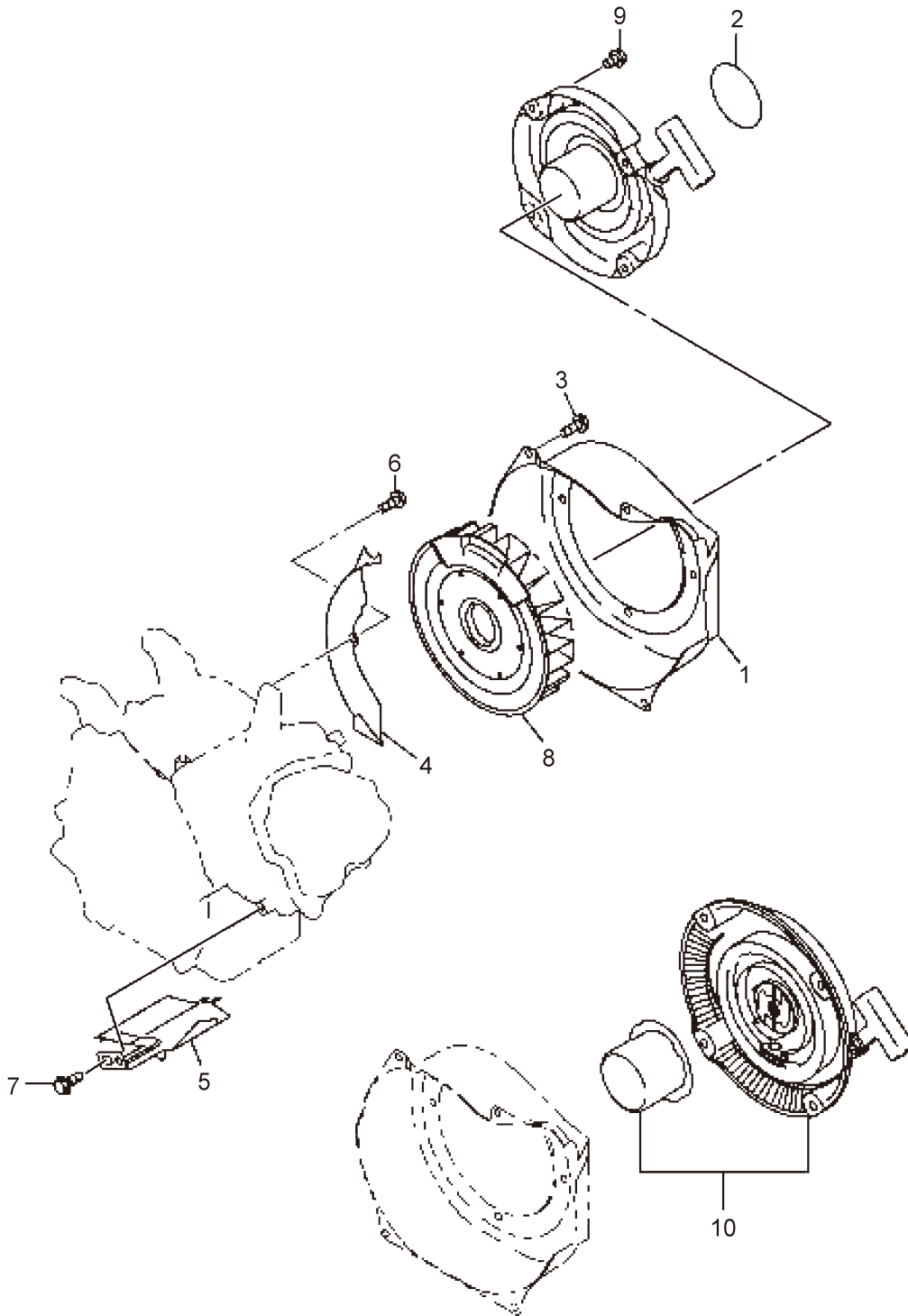
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
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8-46	647523	Packing	1			
8-47	647524	Packing	1			
8-48	647526	Label	1			
8-49	647525	Cover Comp	1			
8-50	420133	Wing Nut	1			
8-51	426058	Wing Nut	1			
8-52	647589	Element Set	1			DUAL

9. MSW1012
ENGINE (Governor)



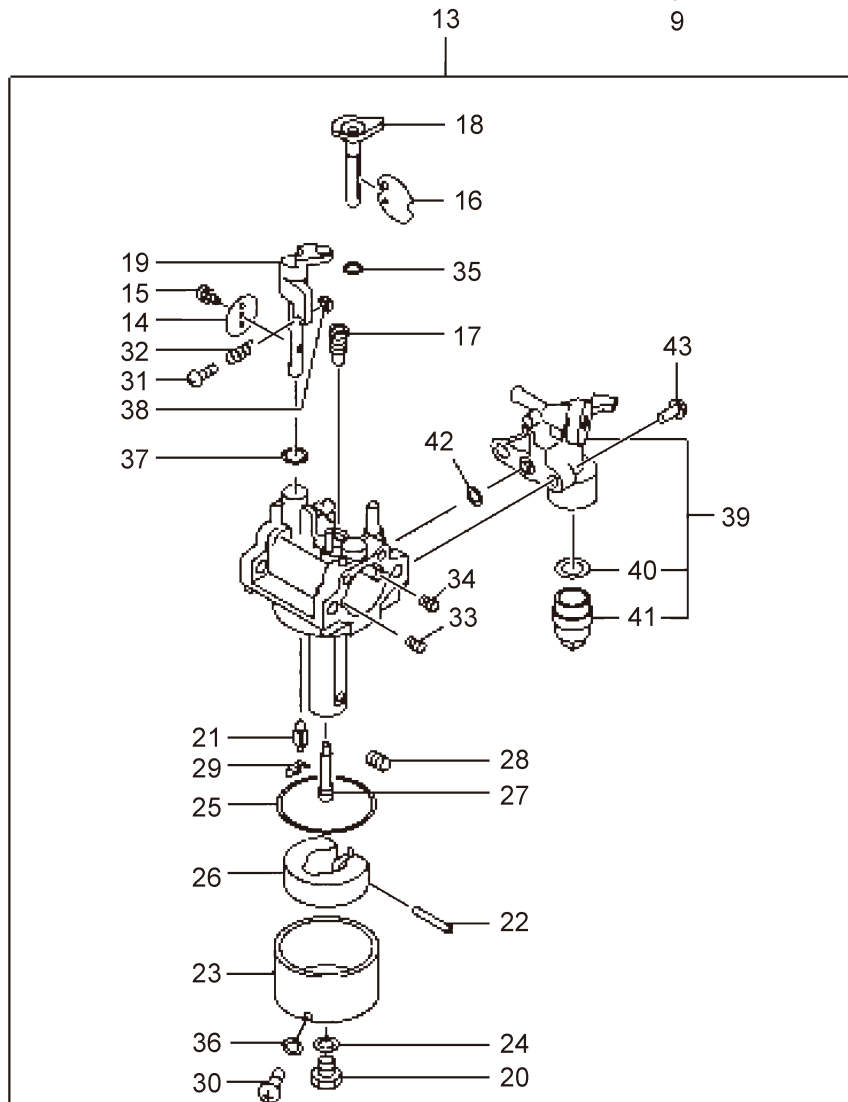
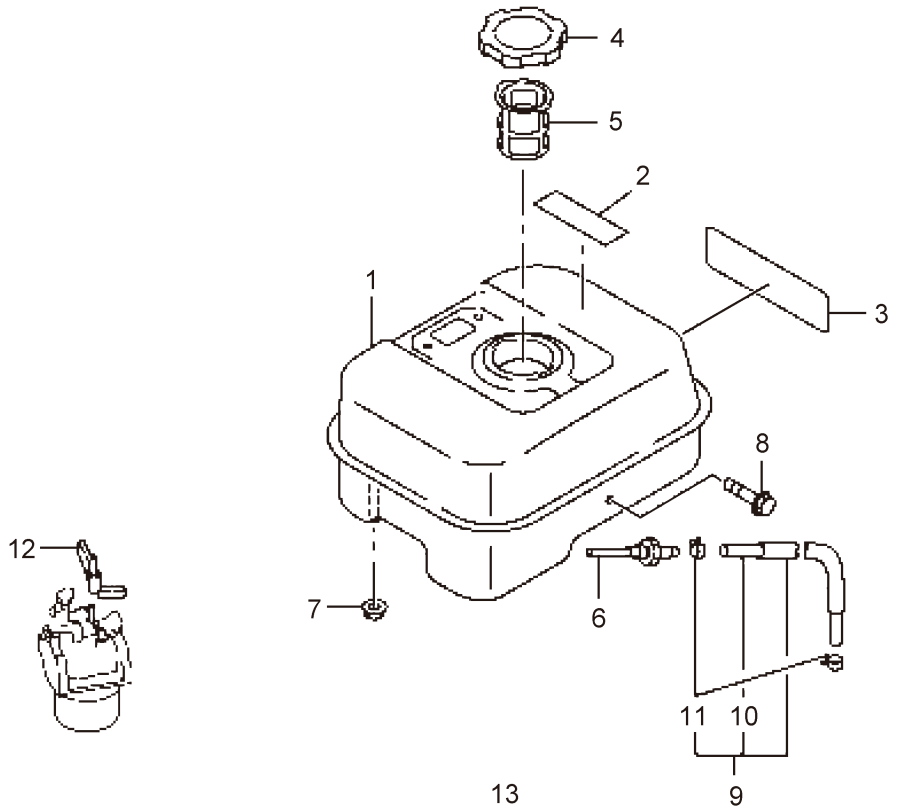
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
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9-1	417077	Governor Lever Ass'y	1			Incl.2,3
9-2	997967	Bolt AY	1			
9-3	997968	Nut	1			
9-4	647530	Governor Shaft	1			
9-5	417126	Governor Rod	1			
9-6	647532	Rod Spring	1			
9-7	641764	Clip	1			
9-8	417079	Governor Spring	1			
9-9	417080	Speed Control Lever	1			
9-10	647538	Stop Plate	1			
9-11	647539	Washer	1			
9-12	647540	Friction Washer	1			
9-13	999965	Screw	1			
9-14	647541	Spring	1			
9-15	417081	Bracket	1			
9-16	647546	Self Lock Nut	1			
9-17	997940	Flange Bolt	2			

10. MSW1012
ENGINE (Recoil Starter)



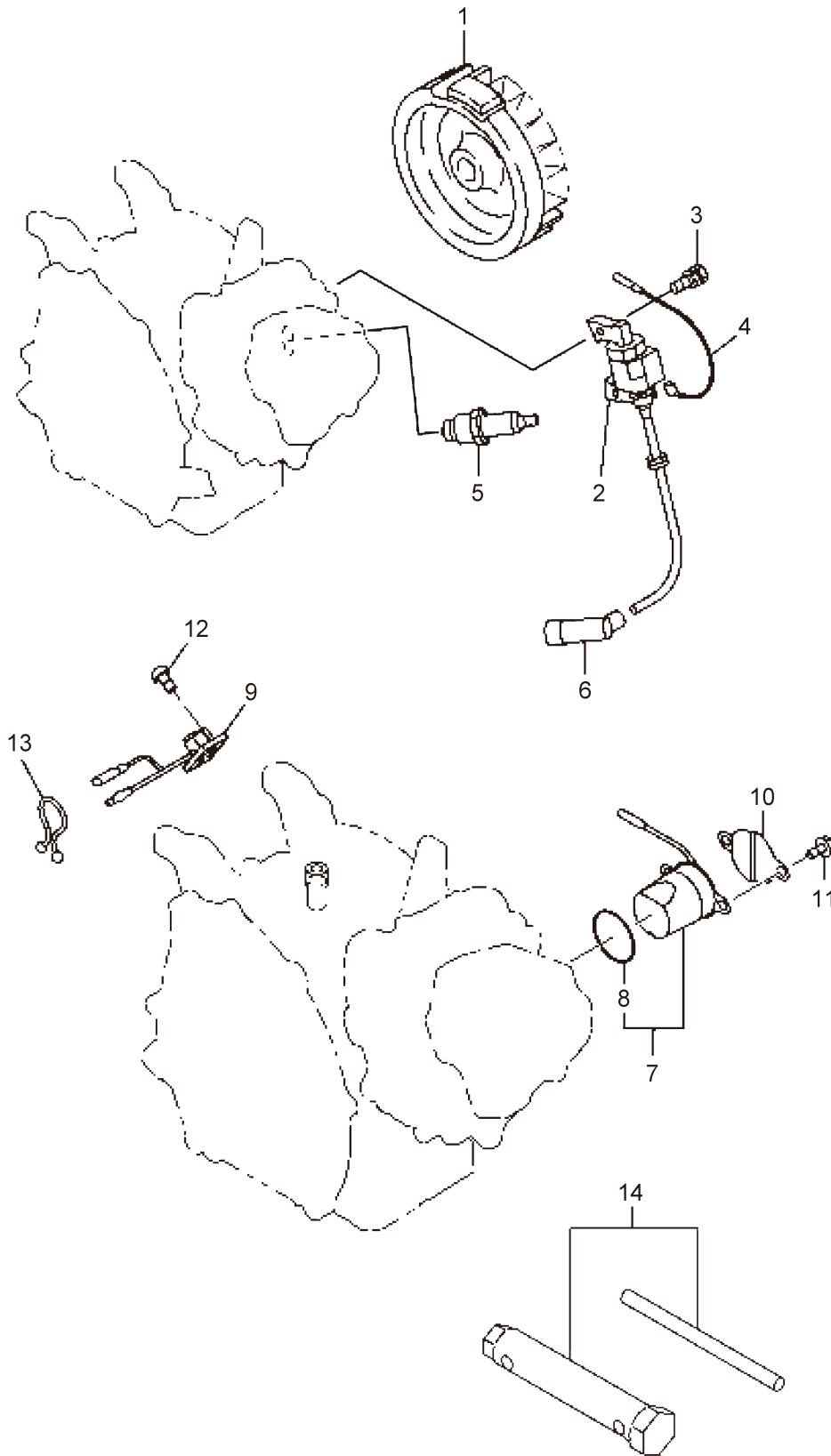
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
10-1	423499	Blower Housing Comp	1			TRADE MARK
10-2	426059	Label	1			
10-3	582563	Flange Bolt	4			
10-4	420136	Baffle Comp	1			
10-5	647549	Baffle	1			
10-6	647551	Flange Bolt	1			
10-7	997940	Flange Bolt	1			
10-8	420137	Cooling Blower	1			
10-9	582563	Flange Bolt	4			
10-10	420138	Recoil Starter Ass'y	1			

11. MSW1012
ENGINE (Fuel Tank, Carburetor)



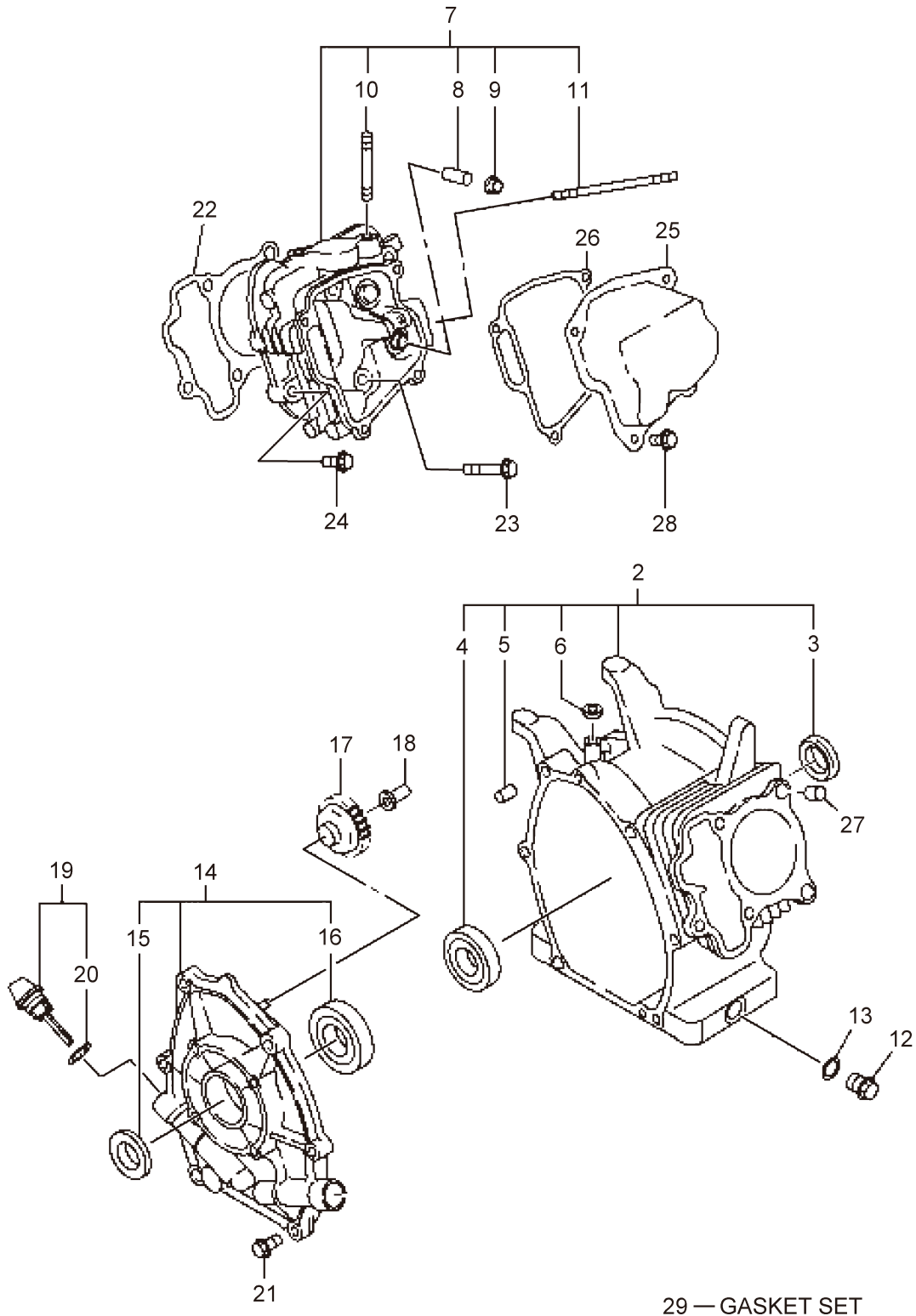
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
11-1	423505	Fuel Tank Comp	1			WARNING EX17
11-2	426313	Label	1			
11-3	426060	Label	1			
11-4	426314	Fuel Tank Cap Comp	1			
11-5	647560	Fuel Filter	1			
11-6	417137	Union	1			Incl.10,11
11-7	582587	Flange Nut	2			
11-8	628036	Flange Bolt	1			
11-9	426061	Fuel Pipe Comp	1			
11-10	426062	Rubber Pipe	1			
11-11	420144	Hose Clamp	2			Incl.14-43
11-12	647582	Choke Lever Comp	1			
11-13	420145	Carburetor Ass'y	1			
11-14	647566	Throttle Valve	1			
11-15	641980	Screw	1			
11-16	647567	Choke Valve	1			
11-17	639062	Pilot Jet	1			
11-18	647569	Choke Lever	1			
11-19	647570	Throttle Shaft-A	1			
11-20	597786	Bolt	1			
11-21	647571	Needle	1			
11-22	647572	Pin	1			
11-23	647573	Float Body Ass'y	1			
11-24	583876	Packing	1			
11-25	583877	Chamber Packing	1			
11-26	583878	Float AY	1			
11-27	417142	Main Nozzle	1			
11-28	420146	Main Jet	1			
11-29	639066	Clip	1			
11-30	647576	Screw	1			
11-31	582613	Screw	1			
11-32	417098	Spring	1			
11-33	631248	Air Jet	1			
11-34	647577	Air Jet	1			
11-35	628080	Seal	1			
11-36	647578	Packing	1			Incl.40,41
11-37	647579	Seal	1			
11-38	417099	Nut	1			
11-39	417100	Cock Body A	1			
11-40	417101	Packing	1			
11-41	417102	Cup	1			
11-42	417103	O-Ring	1			
11-43	417104	Screw	2			

12. MSW1012
ENGINE (Electrical Parts, Accessories)



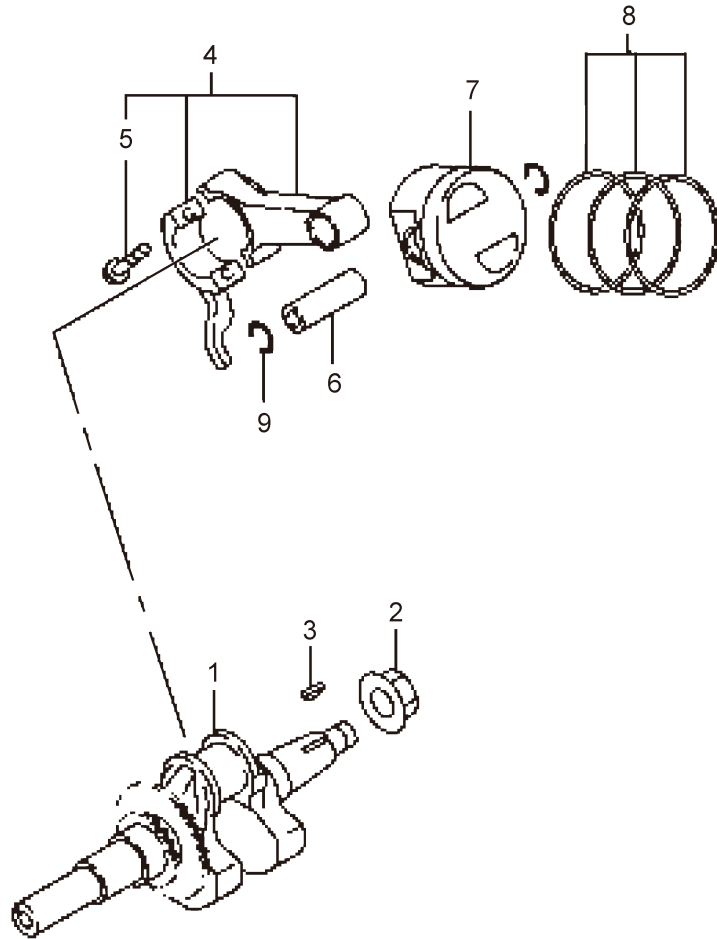
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
12-1	420147	Flywheel Comp	1			
12-2	420148	Ignition Coil Comp	1			
12-3	417071	Flange Bolt	2			
12-4	647585	Wire Comp	1			
12-5	647586	Spark Plug	1			NGK BR6HS
12-6	420149	Spark Plug Cap	1			
12-7	426315	Oil Sensor Comp	1			Incl.8
12-8	426316	O-Ring	1			P30
12-9	426317	Float	1			
12-10	426318	Shield Plate	1			
12-11	417085	Flange Bolt	2			
12-12	640047	Tapping Screw	2			
12-13	426319	Purse Lock	1			
12-14	420150	Accessory Tool Kit	1			

13. MSW1017
ENGINE (Crankcase, Cylinder Head)



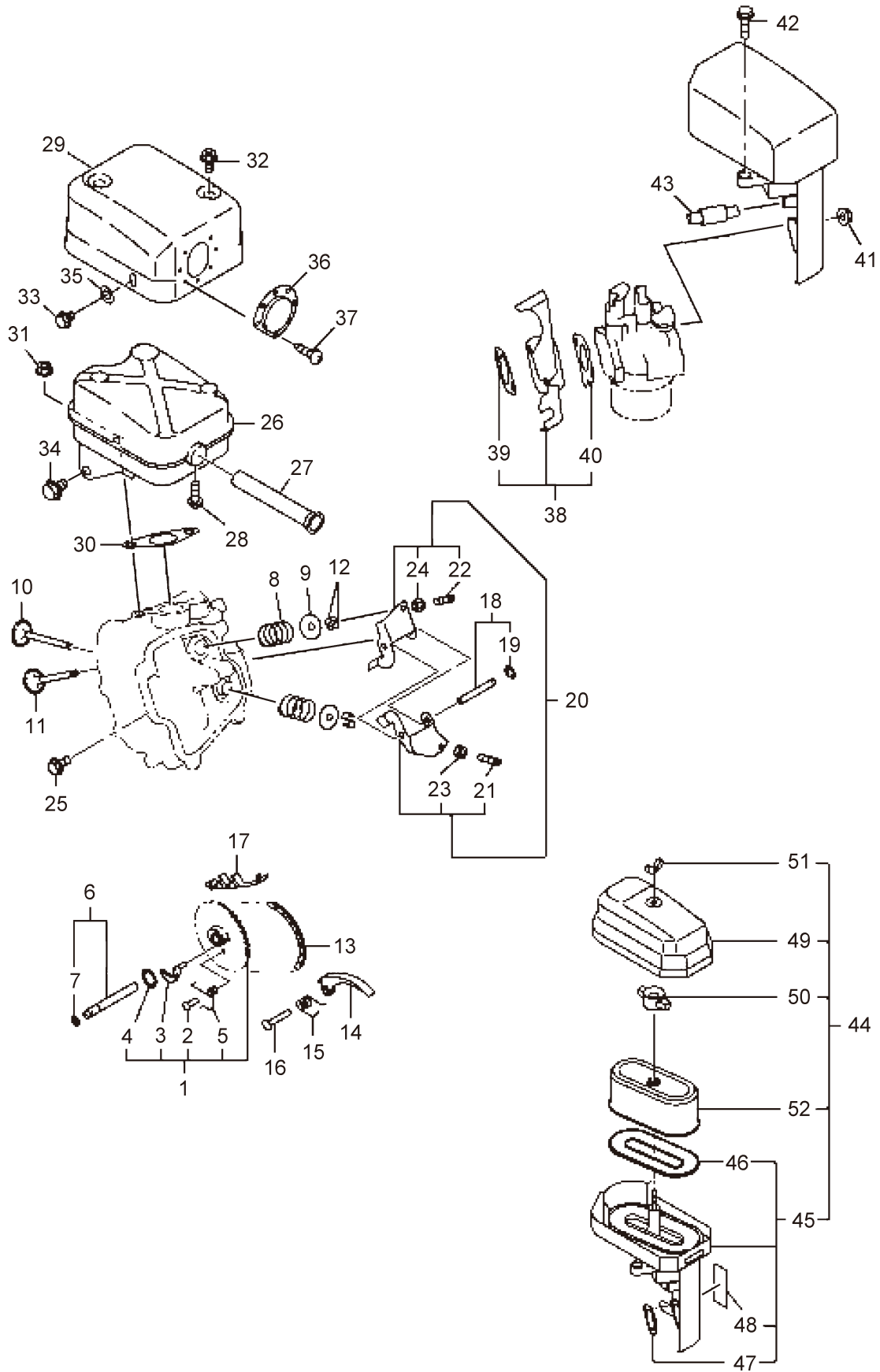
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
13-1	132661	Engine		1		EX210DM2480
13-2	426320	Crankcase Comp		1		Incl.3-6
13-3	647454	Oil Seal		1		
13-4	647455	Bearing		1		
13-5	647456	Pipe Knock		2		
13-6	647458	Oil Seal		1		
13-7	647467	Cylinder Head Comp		1		Incl.8-11
13-8	627981	Valve Guide		2		
13-9	647453	Stem Seal		1		
13-10	582498	Stud		2		
13-11	647457	Stud		2		
13-12	998006	Plug		2		
13-13	998005	Gasket		2		
13-14	426290	Main Bearing Cover C		1		Incl.15,16
13-15	647460	Oil Seal		1		
13-16	417040	Bearing		1		
13-17	417041	Governor Gear Comp		1		
13-18	417042	Governor Sleeve		1		
13-19	417044	Oil Ggauge Ass'y		2		Incl.20
13-20	417043	Gasket		2		
13-21	647466	Bolt		6		
13-22	420120	Gasket		1		
13-23	647469	Flange Bolt		4		
13-24	647470	Flange Bolt		1		
13-25	417047	Rocker Cover Comp		1		
13-26	647472	Gasket		1		
13-27	647456	Pipe Knock		2		
13-28	997940	Flange Bolt		4		
13-29	426049	Gasket Set		1		

14. MSW1017
ENGINE (Crank Shaft, Piston)



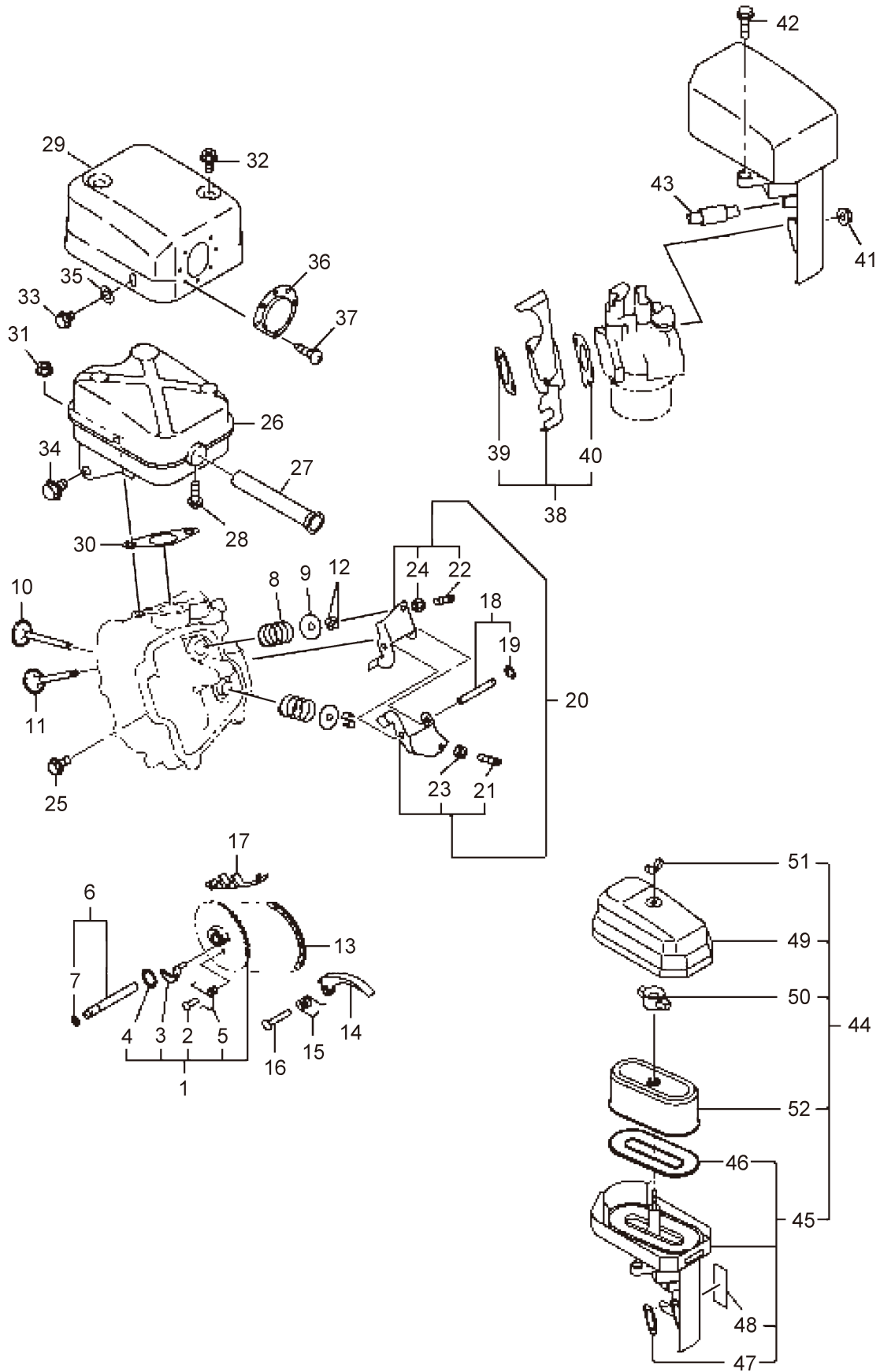
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
14-1	426321	Crankshaft Comp		1		
14-2	647475	Nut		1		
14-3	998021	Woodruff Key		1		
14-4	647478	Connecting Rod Ass'y		1		Incl.5 STD
14-4	647479	Connecting Rod Ass'y		1		Incl.5 US0.25
14-5	647480	Connecting Rod Bolt		2		
14-6	417114	Piston Pin		1		
14-7	417115	Piston		1		STD
14-7	417116	Piston		1		OS0.25
14-7	417117	Piston		1		OS0.50
14-8	426050	Piston Ring Set		1		STD
14-8	417119	Piston Ring Set		1		OS0.25
14-8	417120	Piston Ring Set		1		OS0.50
14-9	998034	Clip		2		

15. MSW1017
ENGINE (Air Cleaner, Muffler)



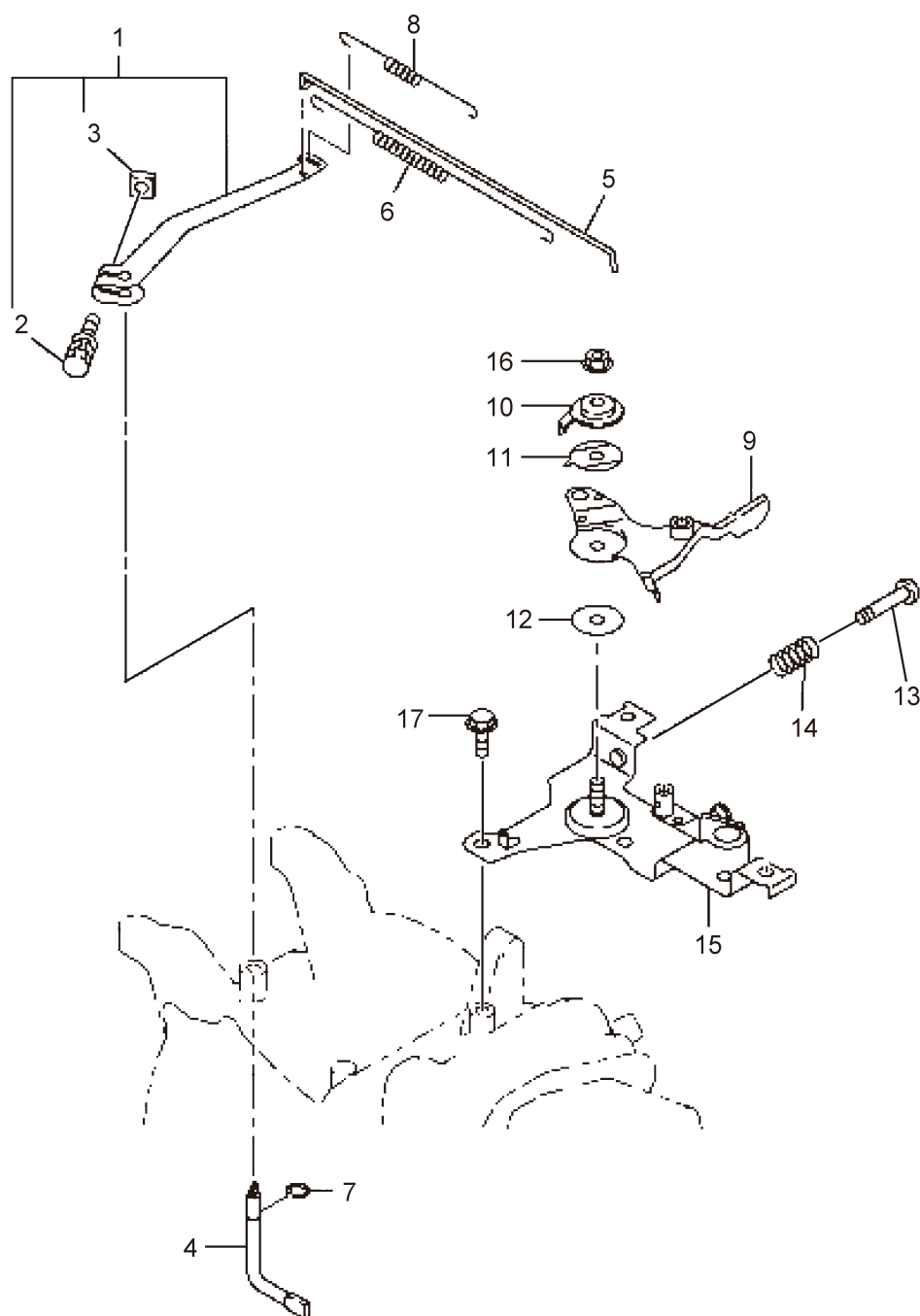
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
15-1	420127	Cam Shaft Comp		1		Incl.2-5
15-2	647491	Spring Pin		1		
15-3	647492	Release Lever		1		
15-4	647493	Clip		1		
15-5	647494	Return Spring		1		
15-6	417061	Pin Comp		1		Incl.7
15-7	417062	O-Ring		1		
15-8	647495	Valve Spring		2		
15-9	644011	Spring Retainer		2		
15-10	647496	Intake Valve		1		
15-11	647497	Exhaust Valve		1		
15-12	644010	Collet Valve		4		
15-13	426064	Timing Chain Comp		1		
15-14	426051	Tentioner		1		
15-15	647500	Spring		1		
15-16	647501	Pin		1		Incl.19
15-17	426052	Chain Guide		1		
15-18	417067	Pin Comp		1		
15-19	641764	Clip		1		
15-20	420128	Rocker Arm Ass'y Set		1		
15-21	647506	Adjust Screw		1		
15-22	647506	Adjust Screw		1		
15-23	647507	Nut		1		
15-24	647507	Nut		1		
15-25	997940	Flange Bolt		1		
15-26	420129	Muffler Comp		1		
15-27	426291	Spark Arrester Comp		1		
15-28	647516	Tapping Screw		1		
15-29	426053	Muffler Cover Comp		1		
15-30	647511	Gasket		1		
15-31	997954	Nut		2		
15-32	647513	Tapping Bolt		2		
15-33	997943	Flange Bolt		1		
15-34	647514	Flange Bolt		1		
15-35	420130	Washer		1		
15-36	417070	Screen Comp		1		Incl.39,40
15-37	647516	Tapping Screw		2		
15-38	426054	Insulator Comp		1		
15-39	426055	Gasket		1		
15-40	426056	Gasket		1		
15-41	582587	Flange Nut		2		DUAL Incl.45-52 Incl.46-48
15-42	417071	Flange Bolt		1		
15-43	417072	Breather Pipe		1		
15-44	426057	Air Cleaner Ass'y		1		
15-45	420132	Base Comp		1		

15. MSW1017
ENGINE (Air Cleaner, Muffler)



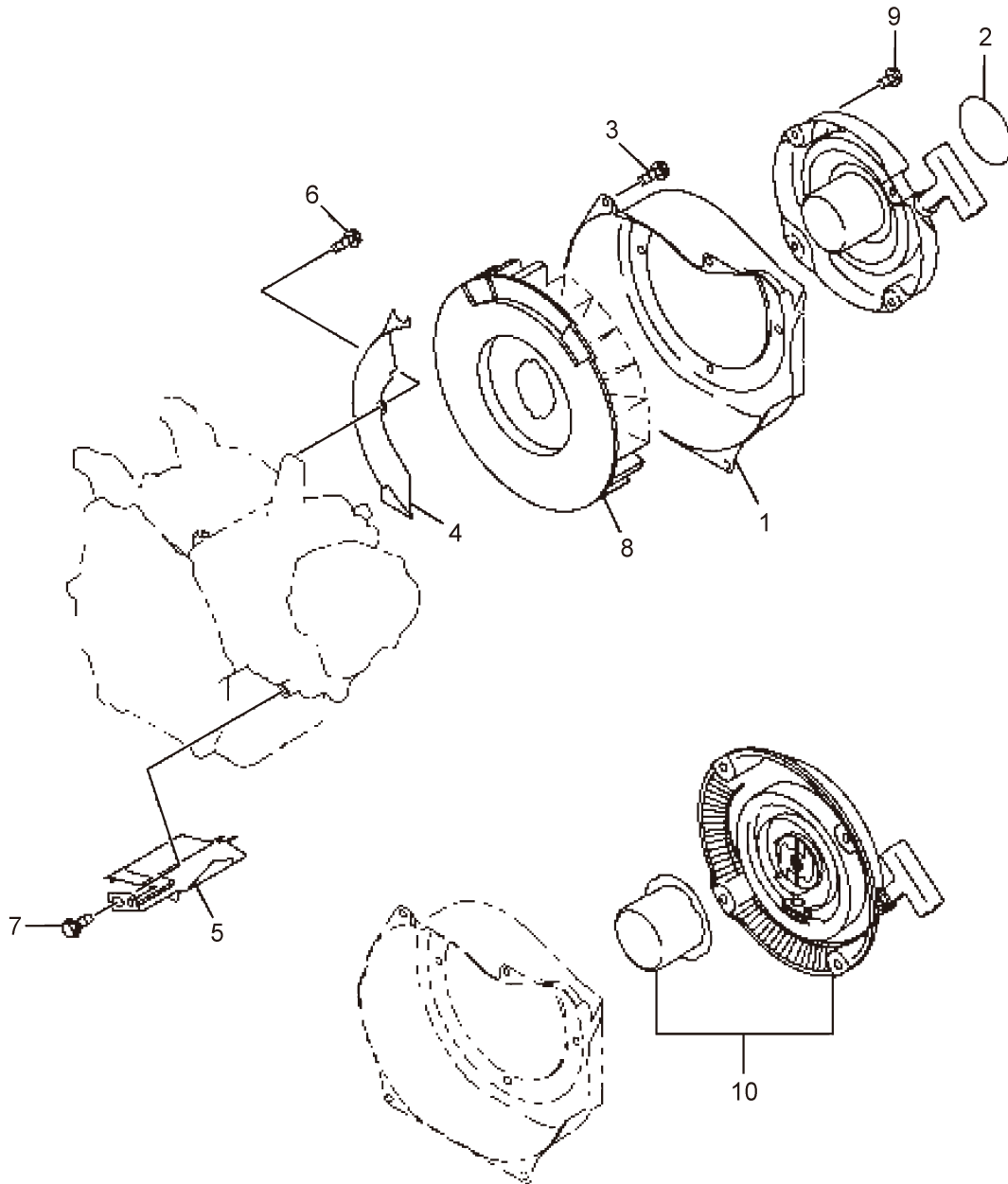
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
15-46	647523	Packing		1		
15-47	647524	Packing		1		
15-48	647526	Label		1		
15-49	647525	Cover Comp		1		
15-50	420133	Wing Nut		1		
15-51	426058	Wing Nut		1		
15-52	647589	Element Set		1		DUAL

16. MSW1017
ENGINE (Governor)



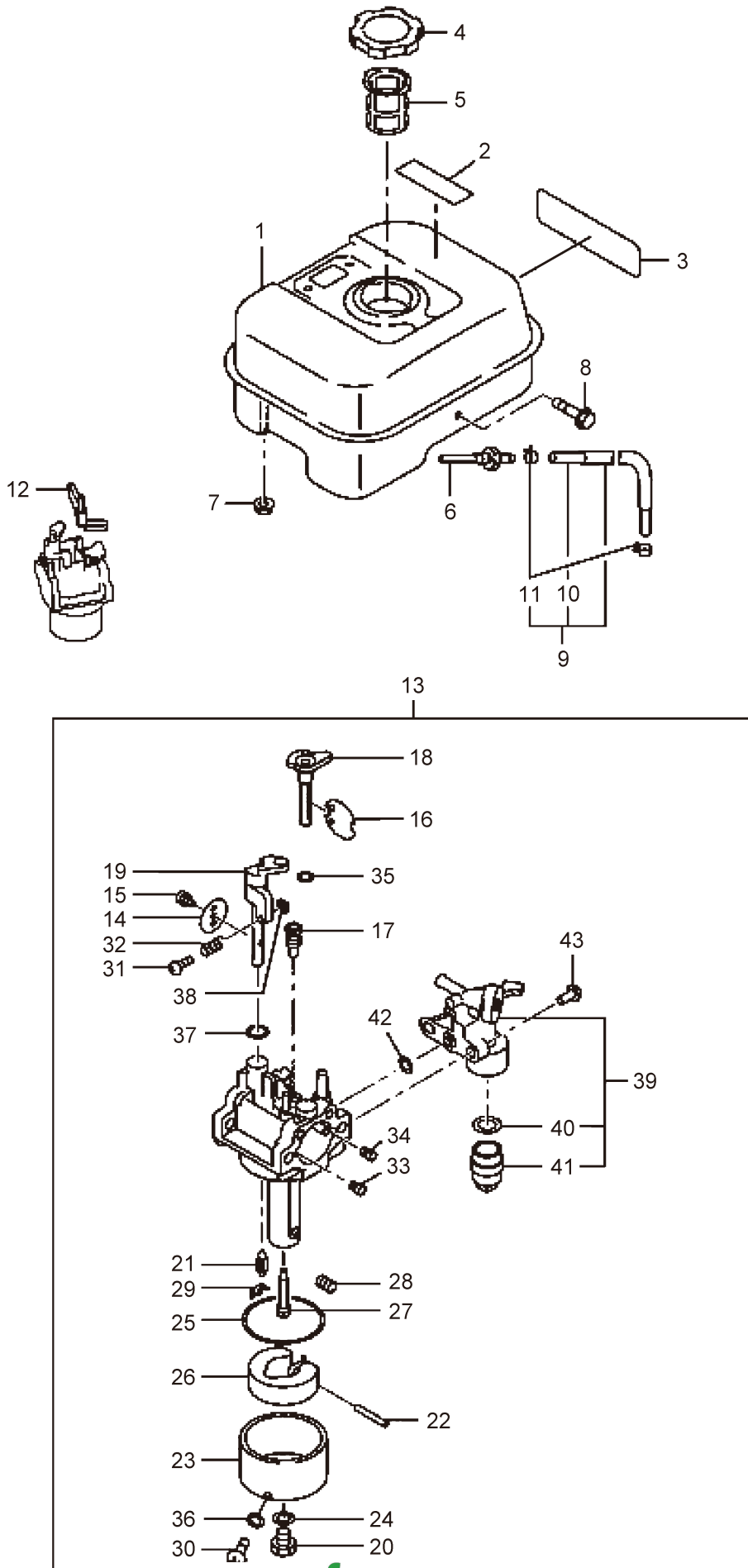
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
16-1	417077	Governor Lever Ass'y		1		Incl.2,3
16-2	997967	Bolt AY		1		
16-3	997968	Nut		1		
16-4	647530	Governor Shaft		1		
16-5	417126	Governor Rod		1		
16-6	647532	Rod Spring		1		
16-7	641764	Clip		1		
16-8	417079	Governor Spring		1		
16-9	417080	Speed Control Lever		1		
16-10	647538	Stop Plate		1		
16-11	647539	Washer		1		
16-12	647540	Friction Washer		1		
16-13	999965	Screw		1		
16-14	647541	Spring		1		
16-15	417081	Bracket		1		
16-16	647546	Self Lock Nut		1		
16-17	997940	Flange Bolt		2		

17. MSW1017
ENGINE (Recoil Starter)



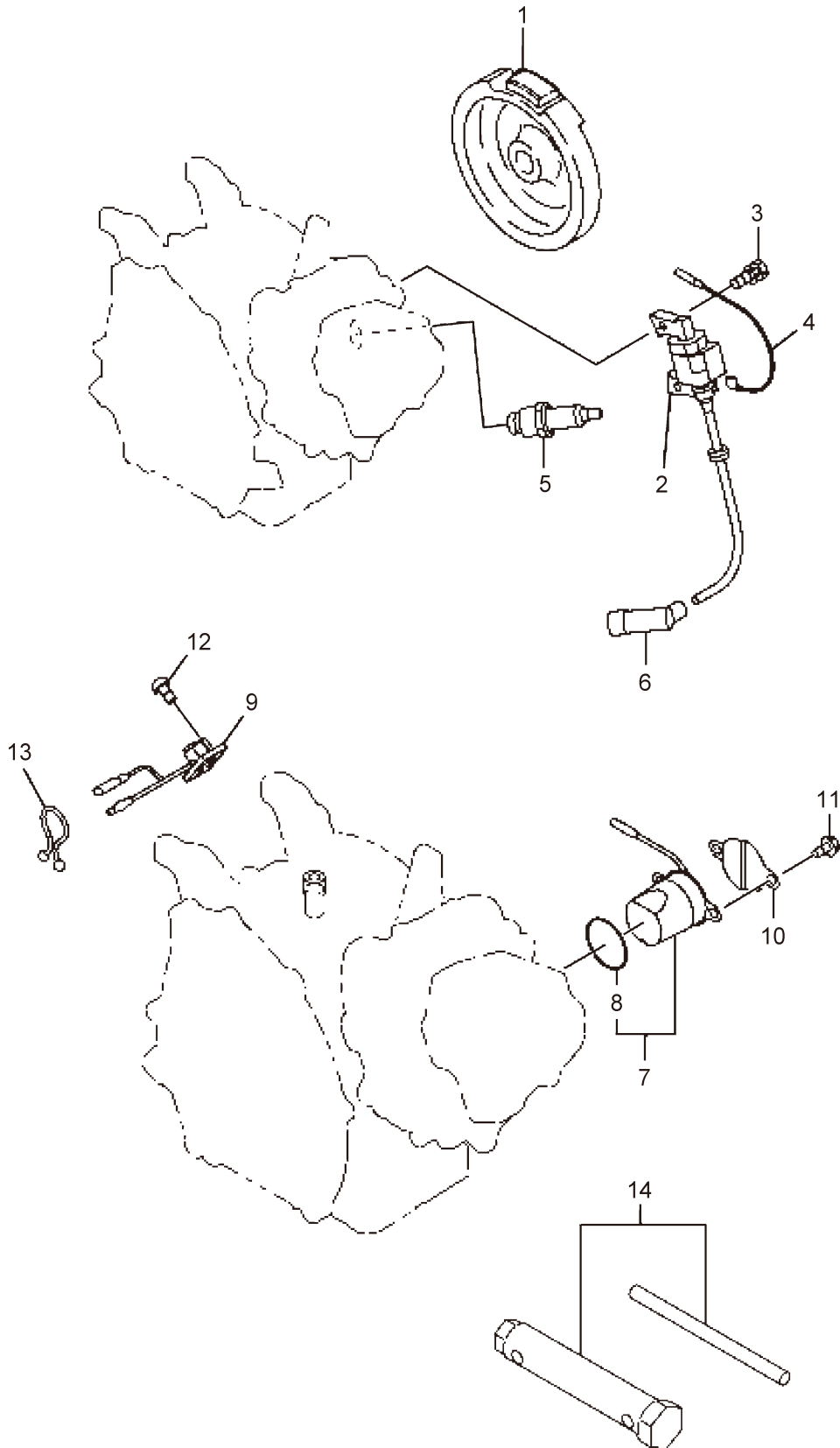
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
17-1	426065	Blower Housing Comp		1		TRADE MARK
17-2	426059	Label		1		
17-3	582563	Flange Bolt		4		
17-4	420136	Baffle Comp		1		
17-5	647549	Baffle		1		
17-6	647551	Flange Bolt		1		
17-7	997940	Flange Bolt		1		
17-8	426066	Cooling Blower		1		
17-9	582563	Flange Bolt		4		
17-10	426067	Recoil Starter Ass'y		1		

18. MSW1017
ENGINE (Fuel Tank, Carburetor)



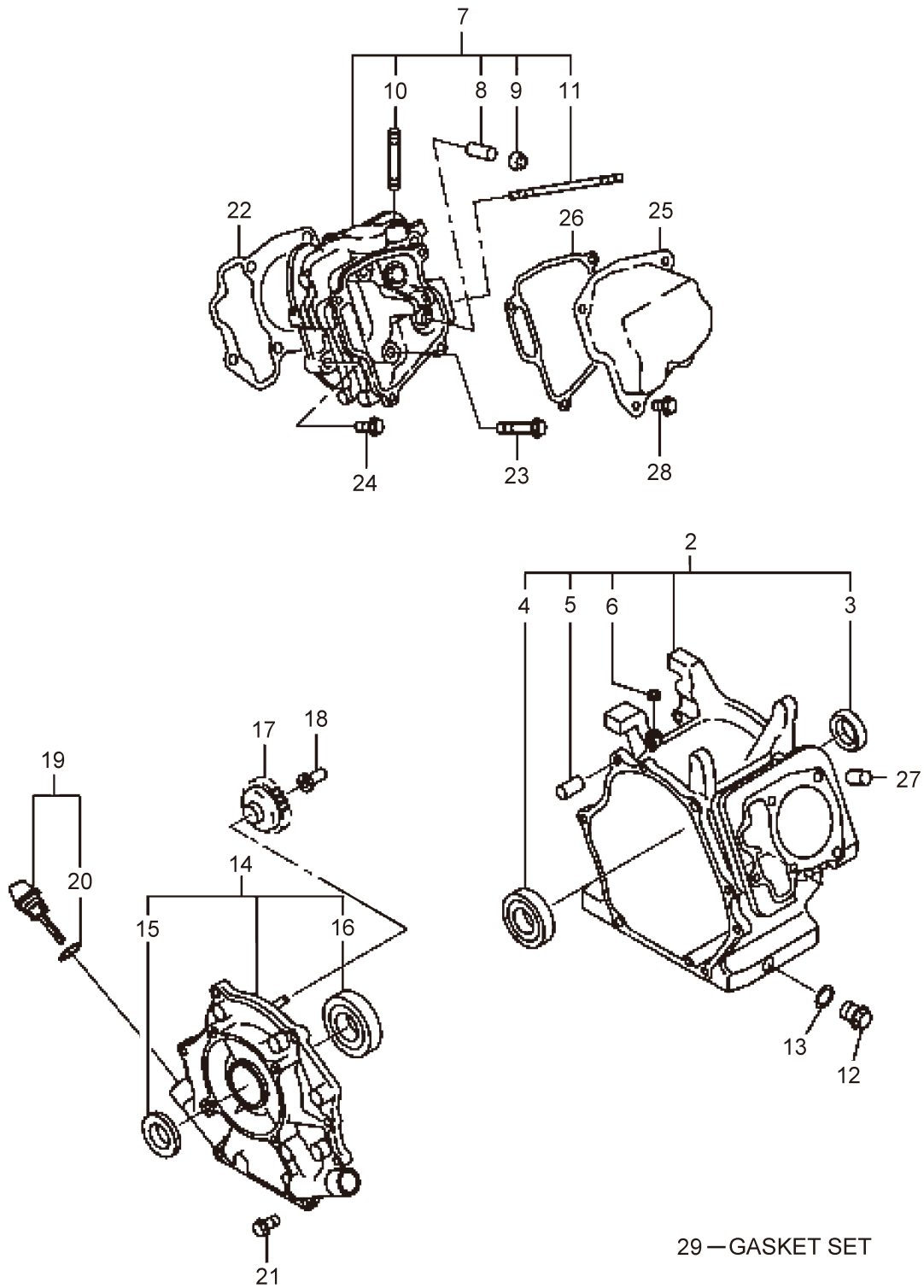
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
18-1	423505	Fuel Tank Comp		1		
18-2	426313	Label		1		WARNING
18-3	426068	Label		1		EX21
18-4	426314	Fuel Tank Cap Comp		1		
18-5	647560	Fuel Filter		1		
18-6	417137	Union		1		
18-7	582587	Flange Nut		2		
18-8	628036	Flange Bolt		1		
18-9	426069	Fuel Pipe Comp		1		Incl.10,11
18-10	426070	Rubber Pipe		1		
18-11	420144	Hose Clamp		2		
18-12	647582	Choke Lever Comp		1		
18-13	426071	Carburetor Ass'y		1		Incl.14-43
18-14	647566	Throttle Valve		1		
18-15	641980	Screw		1		
18-16	647567	Choke Valve		1		
18-17	647568	Pilot Jet		1		
18-18	647569	Choke Lever		1		
18-19	647570	Throttle Shaft-A		1		
18-20	597786	Bolt		1		
18-21	647571	Needle		1		
18-22	647572	Pin		1		
18-23	647573	Float Body Ass'y		1		
18-24	583876	Packing		1		
18-25	583877	Chamber Packing		1		
18-26	583878	Float AY		1		
18-27	647574	Main Nozzle		1		
18-28	647575	Main Jet		1		
18-29	639066	Clip		1		
18-30	647576	Screw		1		
18-31	582613	Screw		1		
18-32	417098	Spring		1		
18-33	599849	Air Jet		1		
18-34	647577	Air Jet		1		
18-35	628080	Seal		1		
18-36	647578	Packing		1		
18-37	647579	Seal		1		
18-38	417099	Nut		1		
18-39	417100	Cock Body A		1		Incl.40,41
18-40	417101	Packing		1		
18-41	417102	Cup		1		
18-42	417103	O-Ring		1		
18-43	417104	Screw		2		

19. MSW1017
ENGINE (Electrical Parts, Accessories)



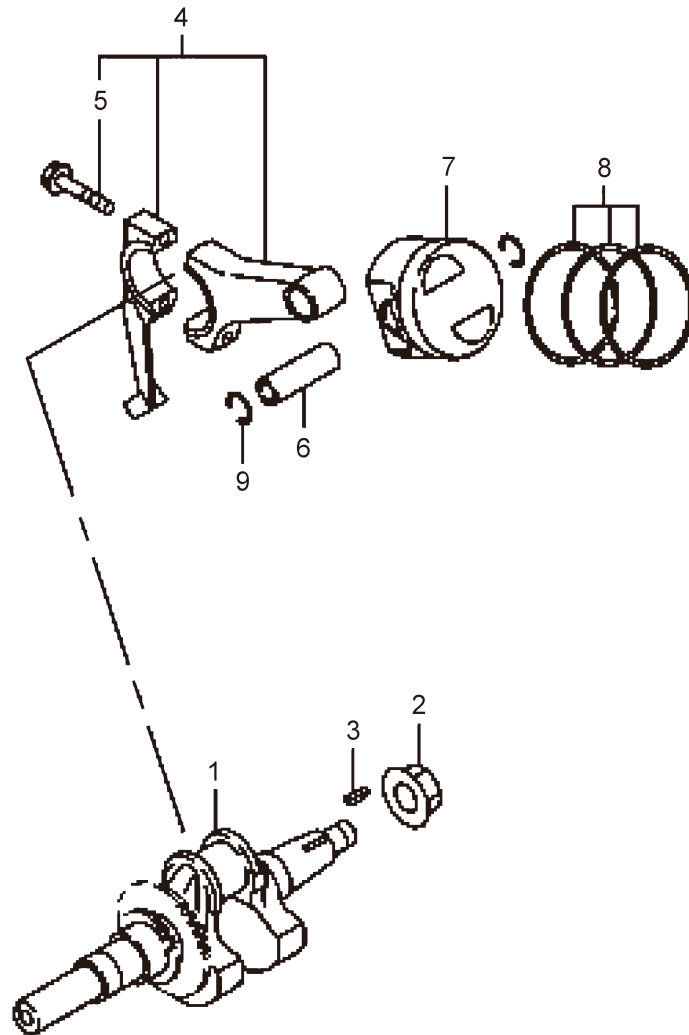
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
19-1	420147	Flywheel Comp		1		
19-2	420148	Ignition Coil Comp		1		
19-3	417071	Flange Bolt		2		
19-4	647585	Wire Comp		1		
19-5	647586	Spark Plug		1		NGK BR6HS
19-6	420149	Spark Plug Cap		1		
19-7	426315	Oil Sensor Comp		1		Incl.8
19-8	426316	O-Ring		1		P30
19-9	426317	Float		1		
19-10	426318	Shield Plate		1		
19-11	417085	Flange Bolt		2		
19-12	640047	Tapping Screw		2		
19-13	426319	Purse Lock		1		
19-14	420150	Accessory Tool Kit		1		

20. MSW1515
ENGINE (Crankcase, Cylinder Head)



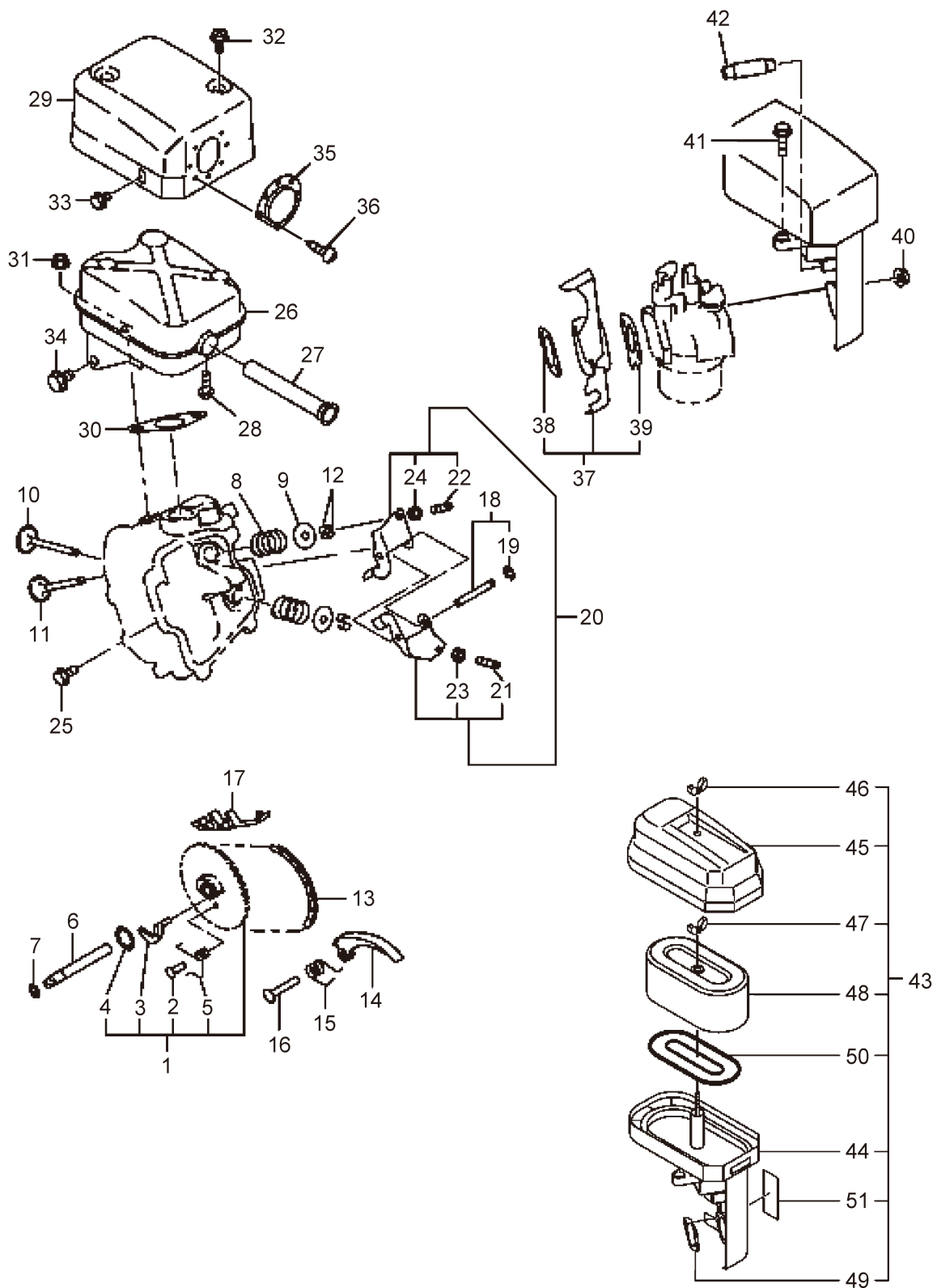
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
20-1	132668	Engine			1	EX270DM5180
20-2	426420	Crankcase Comp			1	Incl.3-6
20-3	426421	Oil Seal			1	
20-4	426422	Ball Bearing			1	
20-5	647456	Pipe Knock			2	
20-6	647458	Oil Seal			1	
20-7	426427	Cylinder Head Comp			1	Incl.8-11
20-8	627981	Valve Guide			2	
20-9	647453	Stem Seal			1	
20-10	582498	Stud			2	
20-11	426423	Stud			2	
20-12	998006	Plug			2	
20-13	998005	Gasket			2	
20-14	426424	Bearing Cover Comp			1	Incl.15,16
20-15	426421	Oil Seal			1	
20-16	426422	Ball Bearing			1	
20-17	417041	Governor Gear Comp			1	
20-18	417042	Governor Sleeve			1	
20-19	426426	Oil Gauge Ass'y			2	Incl.20
20-20	426425	Gasket			2	
20-21	647466	Bolt			7	
20-22	426428	Gasket			1	
20-23	647469	Flange Bolt			4	
20-24	647470	Flange Bolt			1	
20-25	417047	Rocker Cover Comp			1	
20-26	647472	Gasket			1	
20-27	647456	Pipe Knock			2	
20-28	997940	Flange Bolt			4	
20-29	426429	Gasket Set			1	

21. MSW1515
ENGINE (Crank Shaft, Piston)



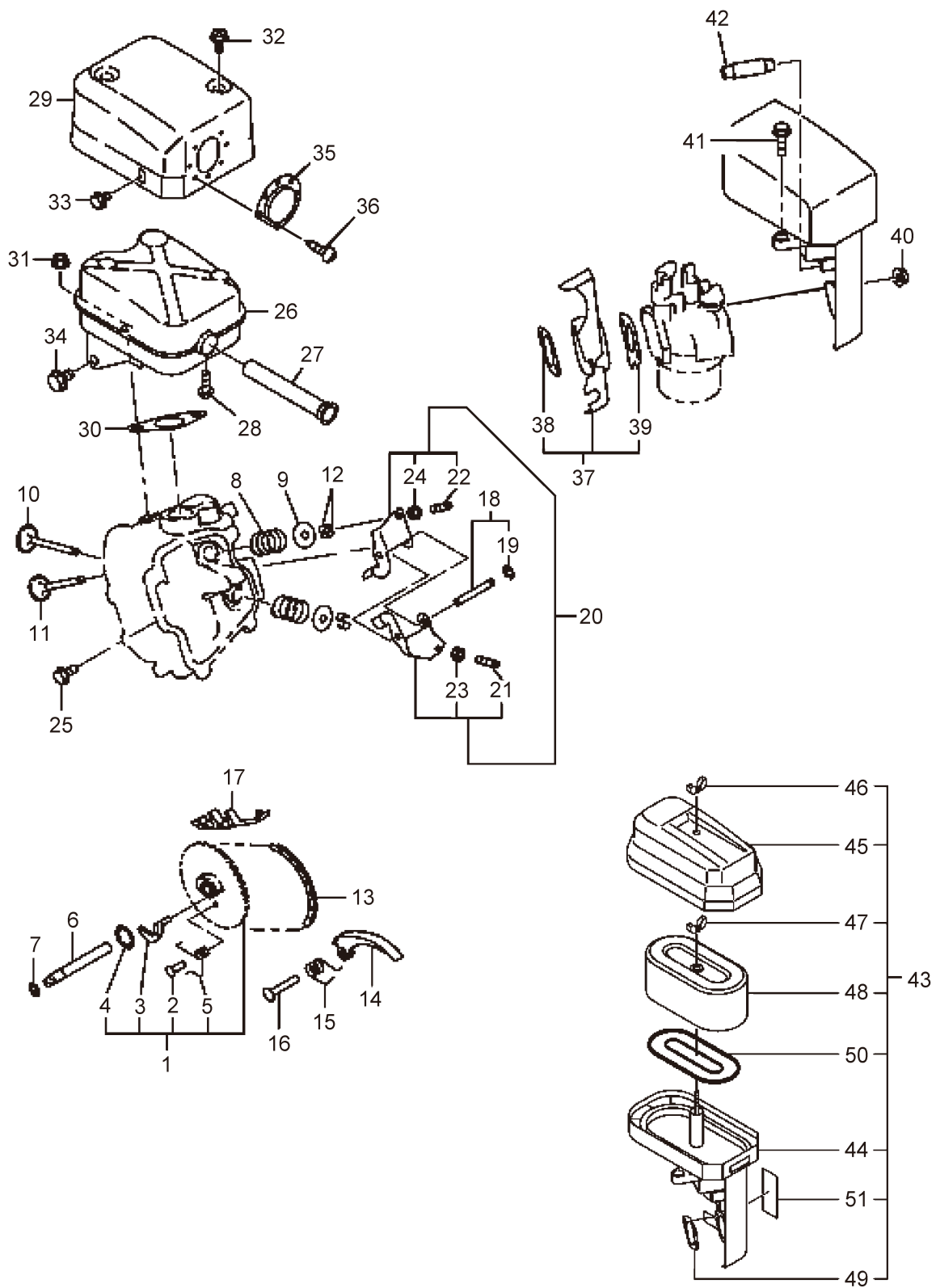
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
21-1	426430	Crankshaft CP			1	
21-2	407050	Flange Nut			1	
21-3	998021	Woodruff Key			1	
21-4	426431	Connecting Rod Ass'y			1	Incl.5
21-5	426432	Connecting Rod Bolt			2	
21-6	426433	Piston Pin			1	
21-7	426434	Piston			1	STD
21-7	426435	Piston			1	OS0.25
21-7	426436	Piston			1	OS0.50
21-8	426437	Piston Ring Set			1	STD
21-8	426438	Piston Ring Set			1	OS0.25
21-8	426439	Piston Ring Set			1	OS0.50
21-9	631185	Clip			2	

22. MSW1515
ENGINE (Air Cleaner, Muffler)



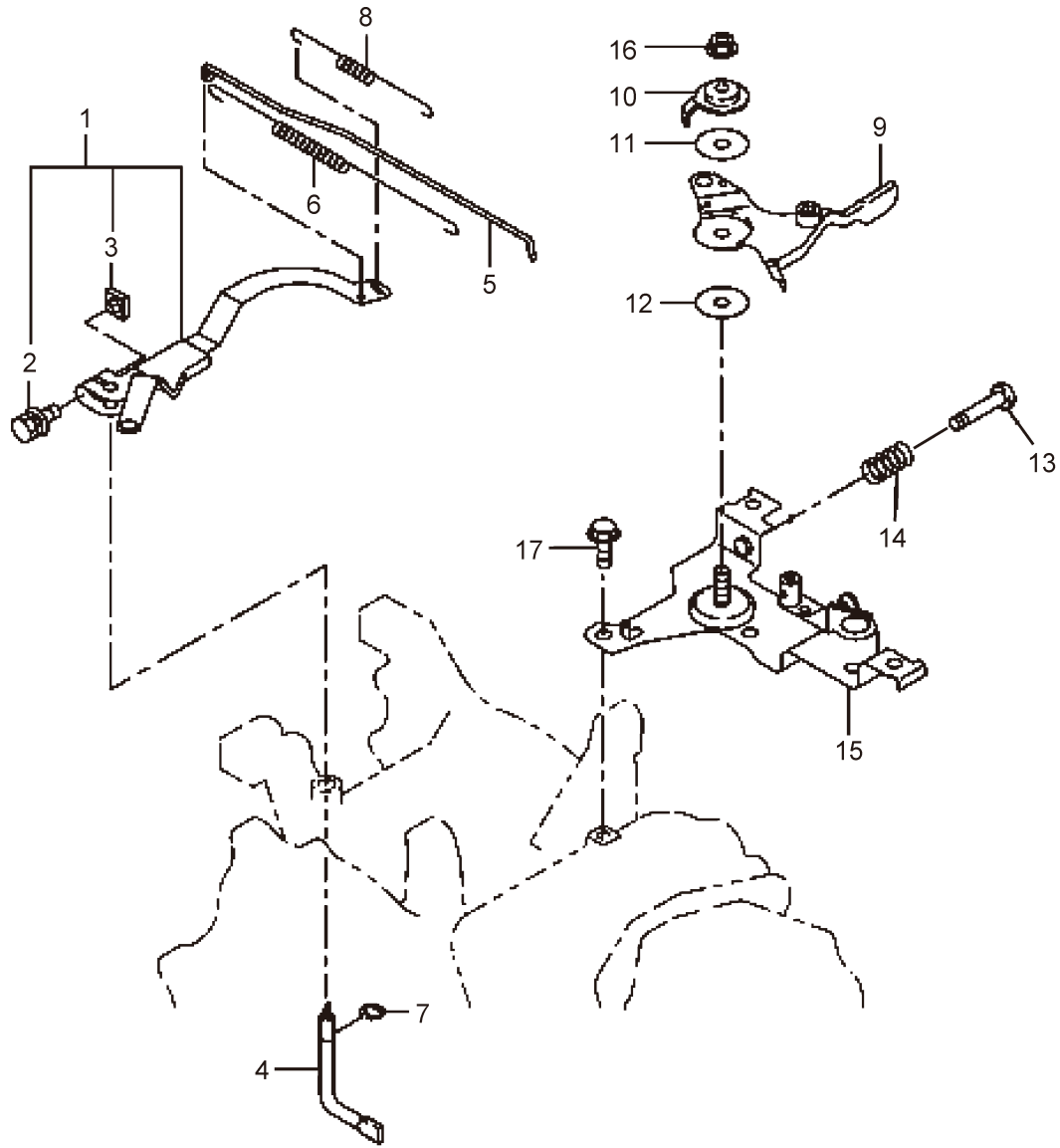
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
22-1	426440	Camshaft CP			1	Incl.2-5
22-2	647491	Spring Pin			1	
22-3	426441	Release Lever			1	
22-4	647493	Clip			1	
22-5	426442	Return Spring			1	
22-6	417061	Pin Comp			1	Incl.7
22-7	417062	O-Ring			1	
22-8	647495	Valve Spring			2	
22-9	644011	Spring Retainer			2	
22-10	426443	Intake Valve			1	
22-11	426444	Exhaust Valve			1	
22-12	644010	Collet Valve			4	
22-13	426445	Timing Chain Comp			1	
22-14	426051	Tentioner			1	
22-15	647500	Spring			1	
22-16	647501	Pin			1	
22-17	426052	Chain Guide			1	
22-18	417067	Pin Comp			1	
22-19	641764	Clip			1	
22-20	420128	Rocker Arm Ass'y Set			1	
22-21	647506	Adjust Screw			1	
22-22	647506	Adjust Screw			1	
22-23	647507	Nut			1	
22-24	647507	Nut			1	
22-25	997943	Flange Bolt			1	
22-26	426446	Muffler Comp			1	
22-27	426447	Spark Arrester Comp			1	
22-28	647516	Tapping Screw			1	
22-29	426448	Muffler Cover Comp			1	
22-30	647511	Gasket			1	
22-31	997954	Nut			2	
22-32	647513	Tapping Bolt			2	
22-33	997943	Flange Bolt			1	
22-34	647514	Flange Bolt			1	
22-35	417070	Screen Comp			1	
22-36	647516	Tapping Screw			2	Incl.38,39
22-37	426449	Insulator Comp			1	
22-38	426450	Gasket			1	
22-39	426451	Gasket			1	
22-40	582587	Flange Nut			2	
22-41	417071	Flange Bolt			1	Incl.44-51
22-42	426452	Rubber Pipe			1	
22-43	426453	Air Cleaner Ass'y			1	
22-44	426454	Base			1	
22-45	426455	Cover Comp			1	

22. MSW1515
ENGINE (Air Cleaner, Muffler)



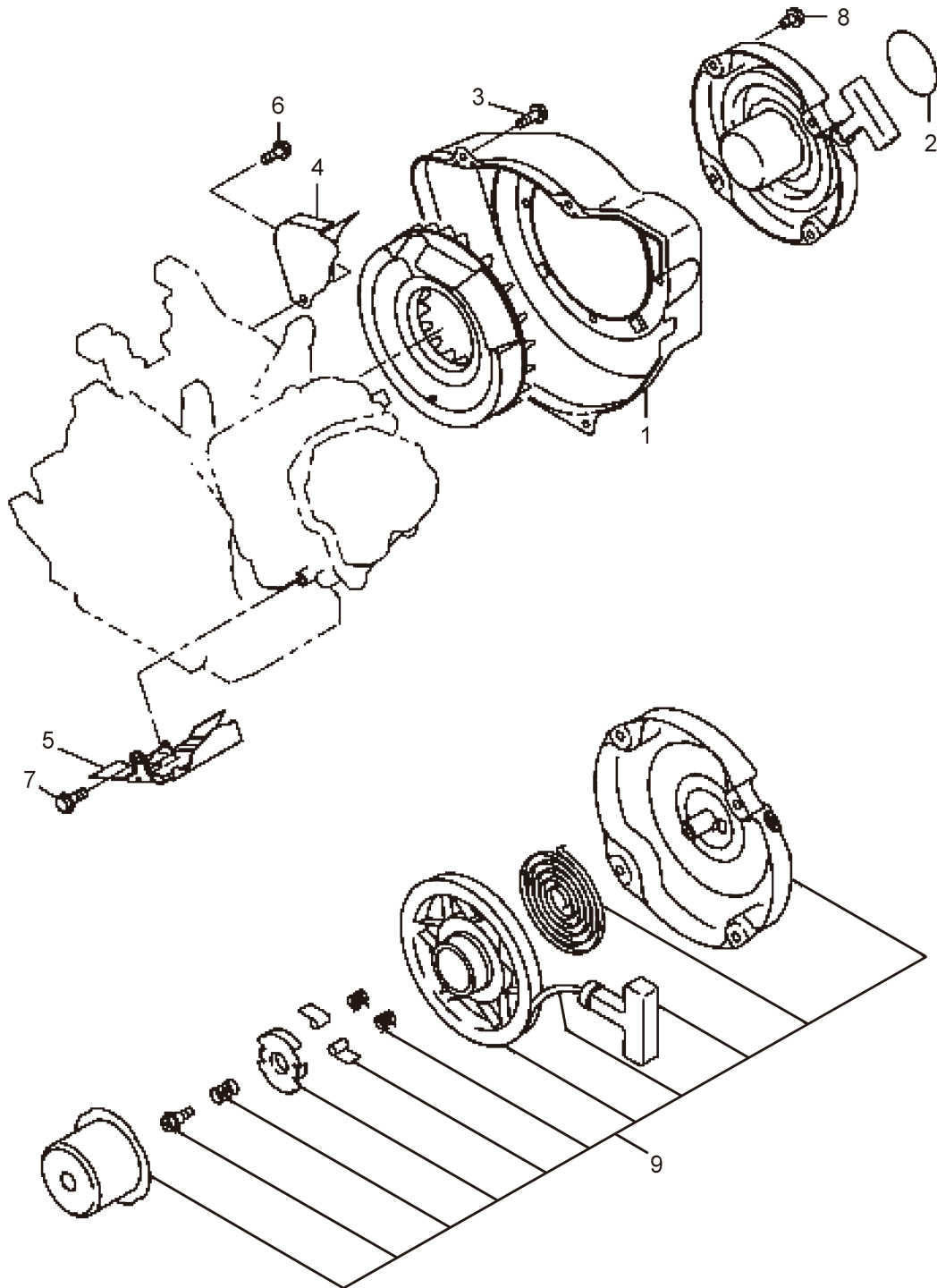
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
22-46	426456	Wing Nut			1	
22-47	426058	Wing Nut			1	
22-48	426457	Element Ass'y			1	
22-49	426458	Gasket			1	
22-50	426459	Packing			1	
22-51	647526	Label			1	

23. MSW1515
ENGINE (Governor)



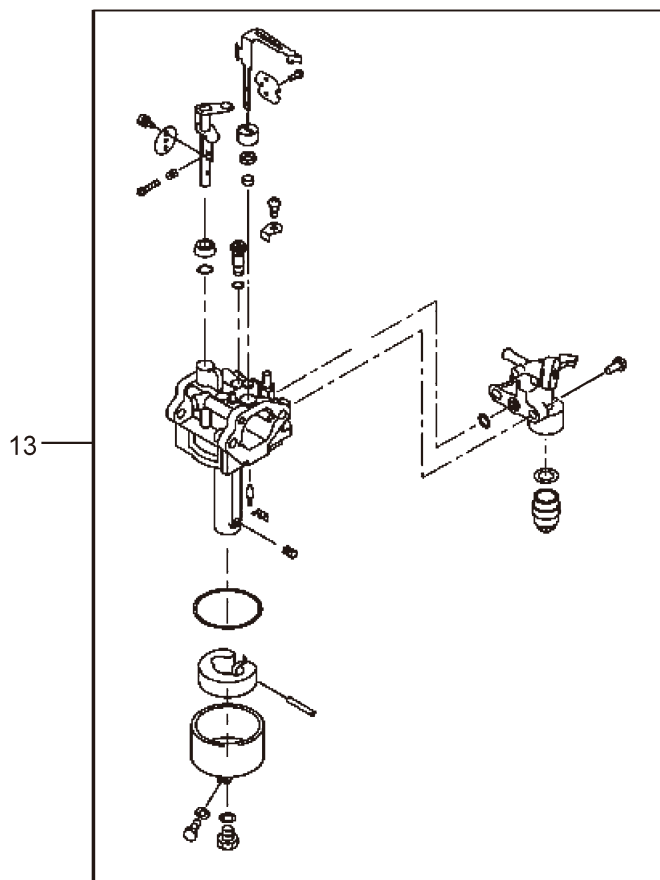
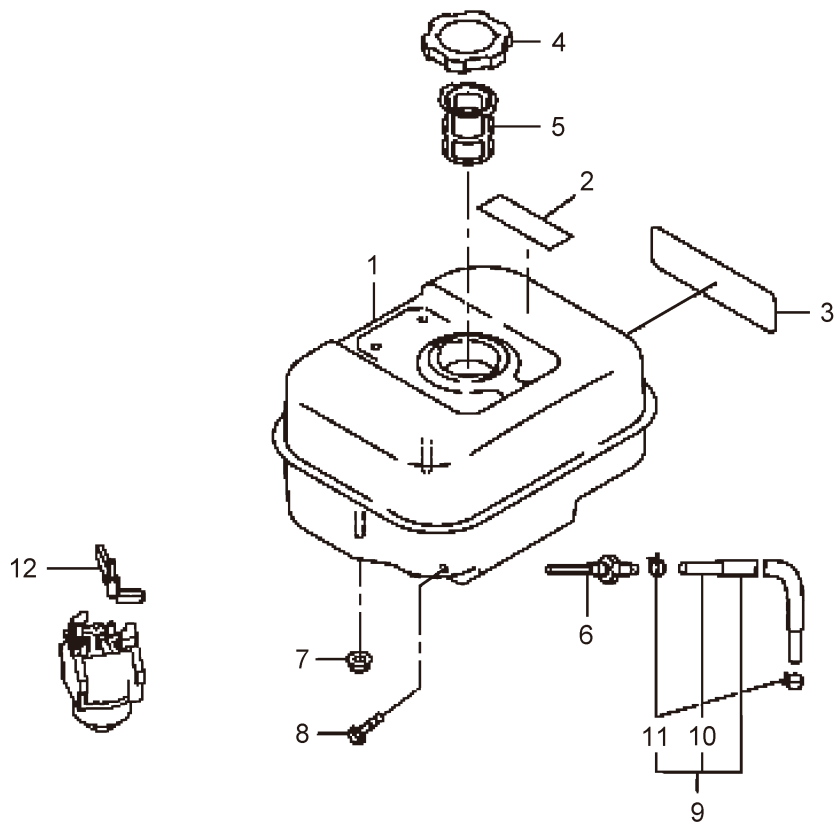
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
23-1	426460	Governor Lever Ass'y			1	Incl.2,3
23-2	997967	Bolt AY			1	
23-3	997968	Nut			1	
23-4	647530	Governor Shaft			1	
23-5	417078	Governor Rod			1	
23-6	647532	Rod Spring			1	
23-7	641764	Clip			1	
23-8	417079	Governor Spring			1	
23-9	417080	Speed Control Lever			1	
23-10	647538	Stop Plate			1	
23-11	647539	Washer			1	
23-12	647540	Friction Washer			1	
23-13	999965	Screw			1	
23-14	647541	Spring			1	
23-15	417081	Bracket			1	
23-16	647546	Self Lock Nut			1	
23-17	997940	Flange Bolt			2	

24. MSW1515
ENGINE (Recoil Starter)



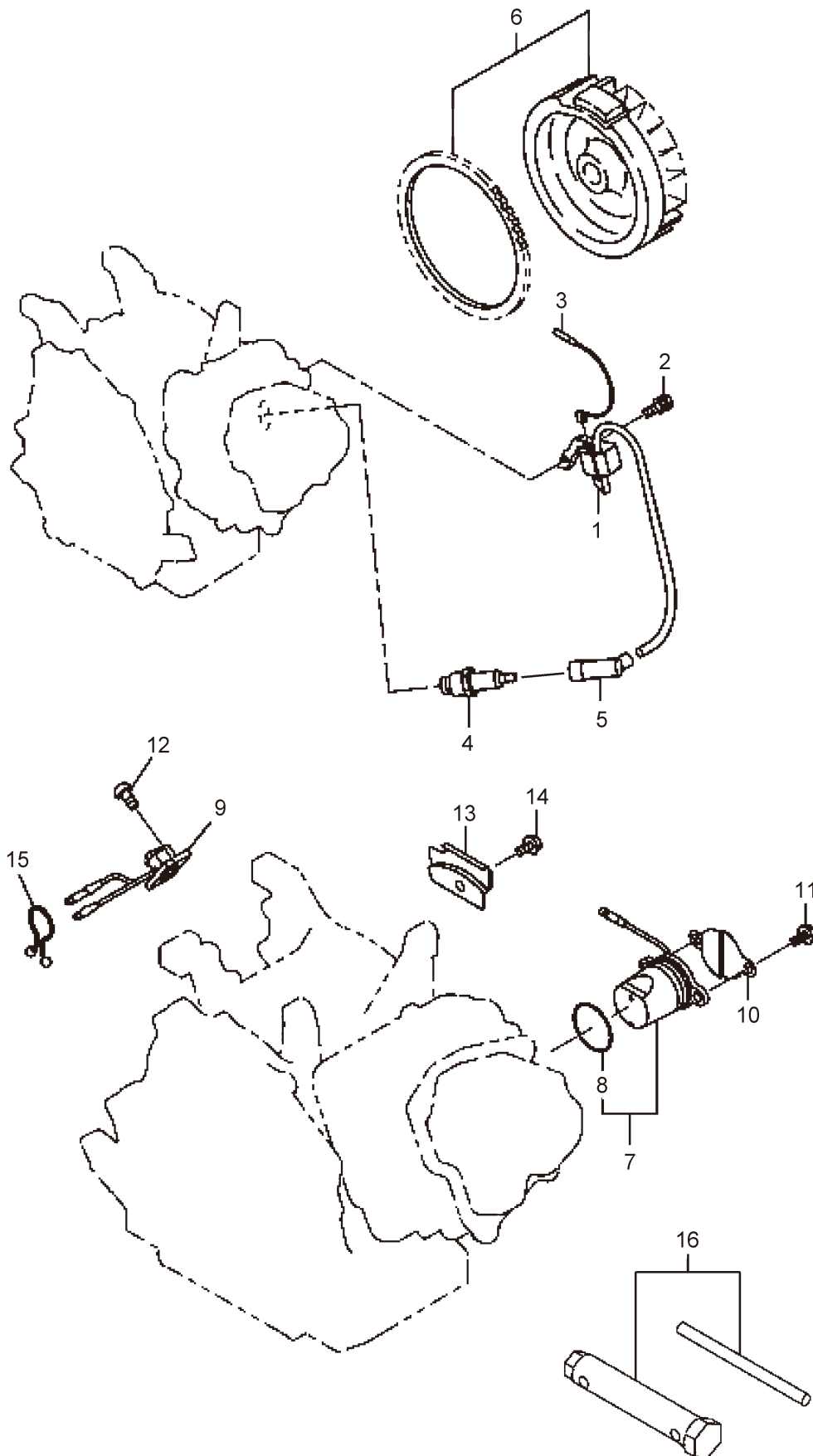
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
24-1	426461	Blower Housing Comp			1	
24-2	426059	Label			1	TRADE MARK
24-3	582563	Flange Bolt			4	
24-4	426462	Baffle			1	
24-5	426463	Baffle			1	
24-6	999721	Bolt			1	
24-7	997940	Flange Bolt			1	
24-8	417128	Bolt			4	
24-9	426464	Recoil Starter Ass'y			1	

25. MSW1515
ENGINE (Fuel Tank, Carburetor)



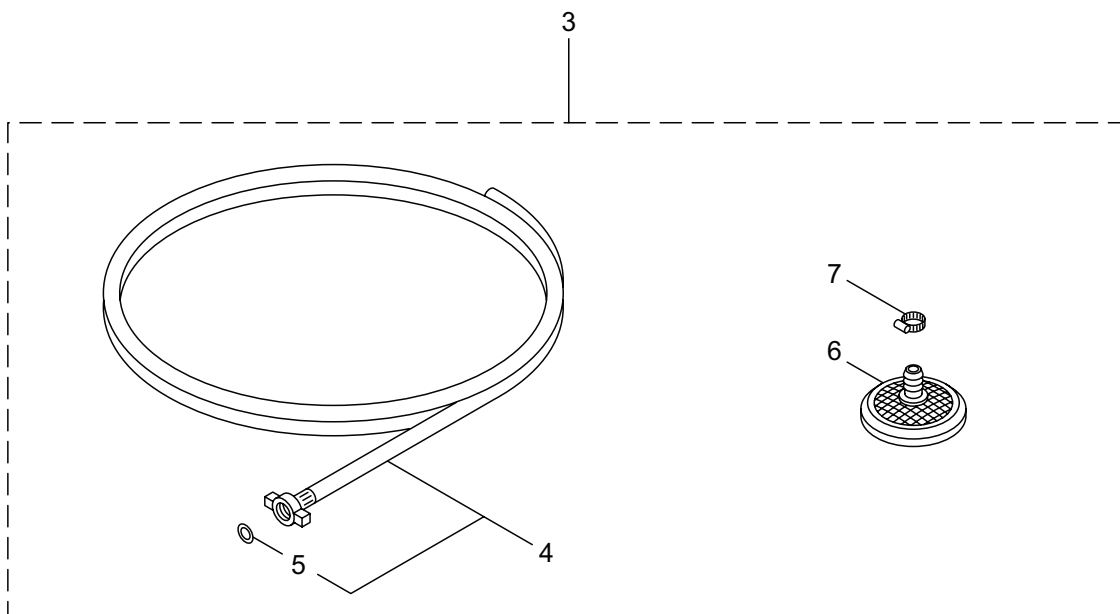
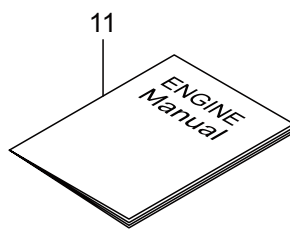
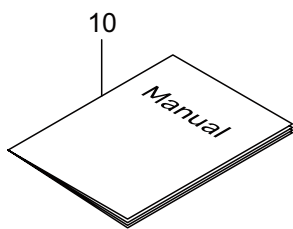
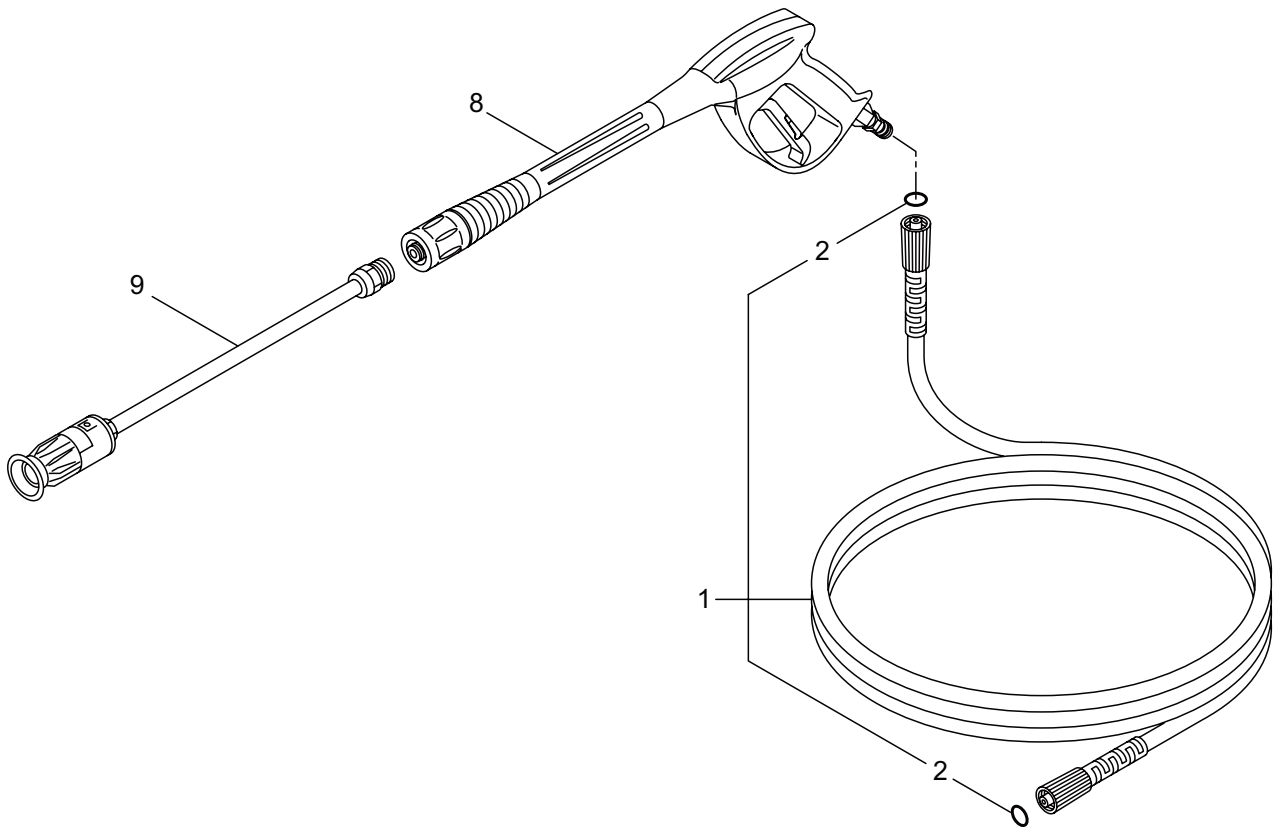
Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
25-1	426465	Fuel Tank Comp			1	
25-2	426313	Label			1	WARNING
25-3	426466	Label			1	
25-4	426467	Fuel Tank Cap Comp			1	
25-5	647560	Fuel Filter			1	
25-6	417137	Union			1	
25-7	997954	Nut			2	
25-8	647477	Flange Bolt			2	
25-9	426468	Fuel Pipe Comp			1	Incl.10,11
25-10	426469	Rubber Pipe			1	
25-11	420144	Hose Clamp			2	
25-12	647582	Choke Lever Comp			1	
25-13	426470	Carburetor Ass'y			1	

26. MSW1515
ENGINE (Electrical Parts, Accessories)



Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
26-1	426471	Ignition Coil Comp			1	
26-2	997967	Bolt AY			2	
26-3	647585	Wire Comp			1	
26-4	647586	Spark Plug			1	NGK BR6HS
26-5	420149	Spark Plug Cap			1	
26-6	426472	Flywheel Comp			1	
26-7	426473	Oil Sensor Comp			1	Incl.8
26-8	426316	O-Ring			1	P30
26-9	426317	Float			1	
26-10	426318	Shield Plate			1	
26-11	417085	Flange Bolt			2	
26-12	640047	Tapping Screw			2	
26-13	426474	Wire Clamp			1	
26-14	647513	Tapping Bolt			1	
26-15	426319	Purse Lock			1	
26-16	420150	Accessory Tool Kit			1	

27. MSW1012/MSW1017/MSW1515
ACCESSORIES (Hose, Nozzle)



Ref. No.	Parts No.	Parts Name	Q'ty			Remarks
			1012	1017	1515	
27-1	132238	High-Pressure Hose Ass'y	1	1	1	6.4x14x8m Incl.2
27-2	132362	O-Ring	2	2	2	
27-3	132655	Suction Hose Set	1	1	1	Incl.4-7
27-4	131215	Suction Hose Ass'y	1	1	1	13x18x2.4m Incl.5
27-5	131301	Packing	1	1	1	12x18.5xt2
27-6	131303	Suction Strainer Ass'y	1	1	1	
27-7	131306	Hose Band	1	1	1	#13-19
27-8	131972	Gun Glip Ass'y	1	1	1	
27-9	131973	Variable Nozzle Ass'y	1			
27-9	132665	Variable Nozzle Ass'y		1		
27-9	132678	Variable Nozzle Ass'y			1	
27-10	133252	Instruction Manual	1	1	1	MSW
27-11	131332	Instruction Manual	1			Engine
27-11	132657	Instruction Manual		1	1	Engine