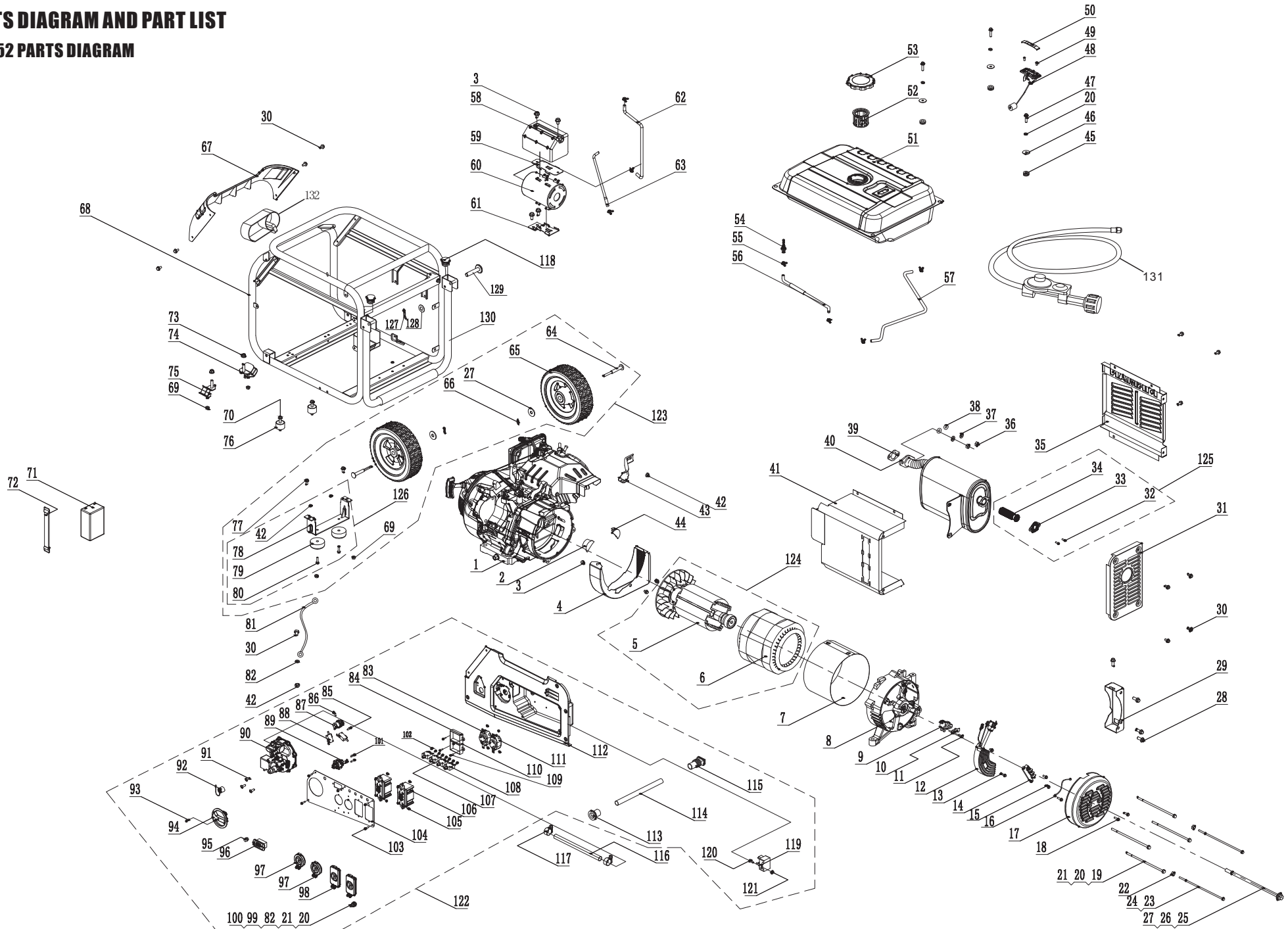
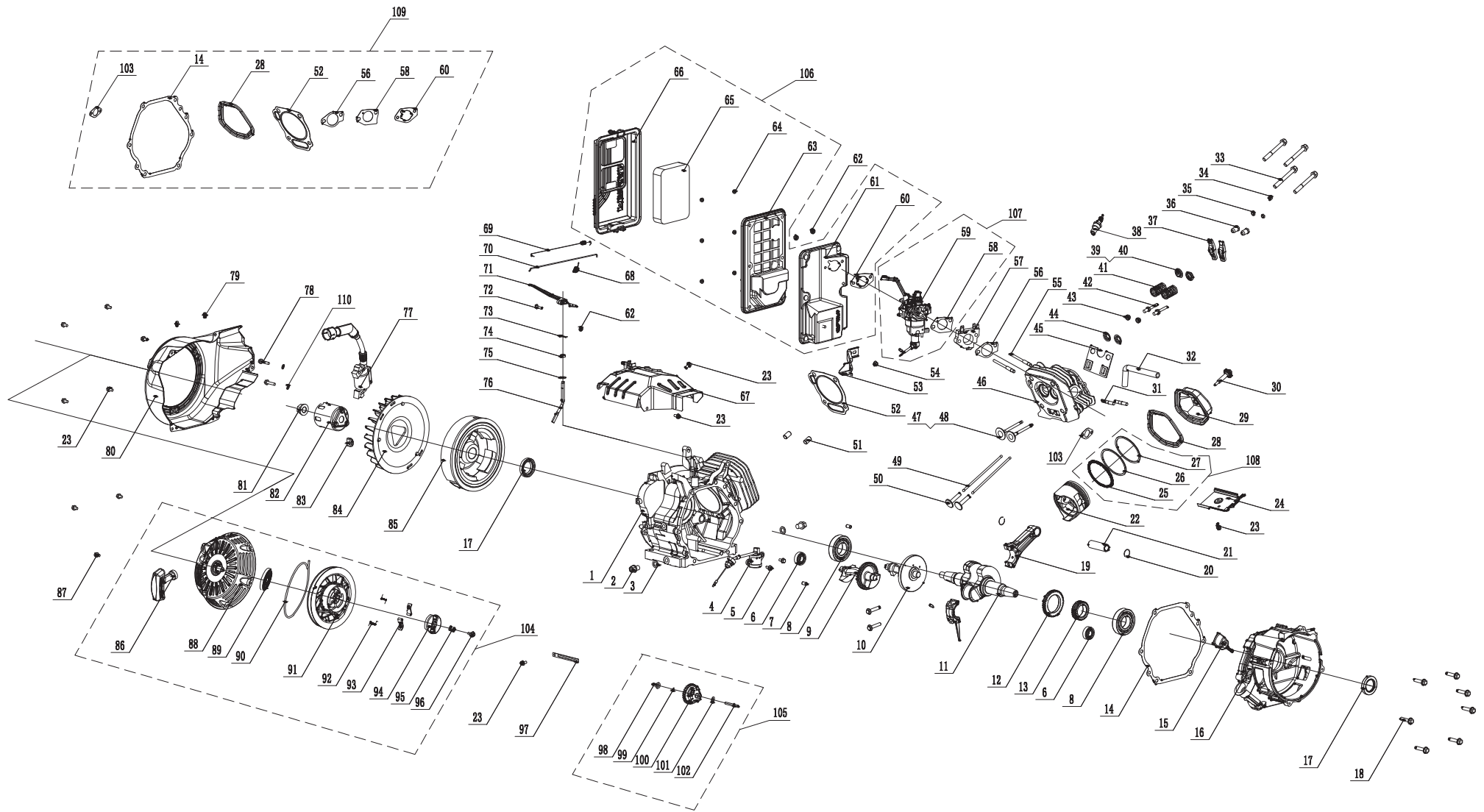


PARTS DIAGRAM AND PART LIST

H05752 PARTS DIAGRAM



439cc ENGINE PARTS DIAGRAM



NO5752 PARTS LIST

NO.	Part Number	Description	Qty.	NO.	Part Number	Description	Qty.
1	357713593	FIRMAN 439cc Dual Fuel Engine	1	67	357713582	Plastic Front Cover	1
2	357713501	Rubber Cap B	1	68	357713583	Frame	1
3	336713528	Flange Bolt M6×8	5	69	336713558	Nut M8	6
4	357713573	Generator Wind Shield	1	70	357713584	Flange Bolt M8×35	2
5	357713574	Rotor Assy	1	71	336713838	Battery	1
6	357713575	Stator Assy	1	72	336713839	Battery Holder Band	1
7	380713503	Stator Cover	1	73	357713531	Nut M10	2
8	357713506	Generator End Cover	1	74	357713532	Isolator 2	1
9	357713507	Carbon Brush Assembly	1	75	357713533	Isolator 1	1
10	336713525	Carbon Brush Holder	1	76	357713585	Motor Mount	2
11	336713524	Bolt & washer Assemblies	1	77	336713559	Flange Bolt M8×16	4
12	357713508	AVR	1	78	357713538	Support Leg	1
13	336713519	Flange Bolt M5×16	2	79	336713557	Rubber, Support	2
14	336713523	Terminal Block	1	80	336713561	Flange Bolt M6×25	4
15	336713520	Bolt M5×16	2	81	336713514	Ground Wire	1
16	336713522	Ground Wire	1	82	336713516	External Star Washer Ø6	1
17	357713509	Generator End Cover Cap	1	83	336713601	Receptacle L14-30R	1
18	336713507	Flange Bolt M5×12	3	84	336713817	Control Module	1
19	336713511	Flange Bolt M6×179	4	85	336713819	Tapping Screw St2.9×19	2
20	336713512	Lock Washer Ø6	8	86	336713820	Tapping Screw St2.9×32	1
21	336713513	Washer Ø6	4	87	336713821	Micro Switch 1	1
22	336713577	Nut M5	2	88	336713822	Micro Switch 2	2
23	357713510	Side Cover Bolt M5×214	2	89	336713824	Fuel Valve	1
24	357713511	Lock Washer Ø5	2	90	336713823	Main Regulator Assy.	1
25	357713512	Flange Bolt M10×265	1	91	357713594	Screw M6×12	3
26	357713513	Lock Washer Ø10	1	92	336713826	LPG Inlet Cover	1
27	357713514	Washer Ø10	5	93	336713816	Screw M4×12	1
28	336713531	Flange Bolt M8×20	4	94	336713815	Fuel Selector Switch	1
29	357713515	Holder,Muff	1	95	336713828	Indicator Light	1
30	336713515	Flange Bolt M6×12	19	96	357713586	Multi Meter	1
31	357713516	Muffler Fixed Plate A	1	97	336713573	Outlet Cover L5-30R	2
32	336713538	Screw&washer Assy M5×14	2	98	357713541	Outlet Cover 5-20R GFCI	2
33	357713517	Holder,Spark Arrester	1	99	380713512	Bolt M6×22	1
34	336713536	Arrester,Spark	1	100	380713515	Nut M6	2
35	357713518	Muffler Fixed Plate B	1	101	336713830	Tapping Screw St4.8×20	2
36	336713534	Nut M8	2	102	336713569	Screw&washer Assy M4×8	8
37	336713509	Lock Washer Ø8	2	103	330713582	Screw&washer Assy M4×14	6
38	336713533	Flat Washer Ø8	2	104	357713595	Control Panel	1
39	357713520	Gskt.,ext.	1	105	336713568	Nut M4	8
40	357713576	Muff.,assy.	1	106	357713588	5-20R Duplex GFCI	2
41	357713523	Muffler Fixed Plate C	1	107	357713589	Circuit Breaker 24Amp	2
42	336713517	Nut M6	4	108	336713585	Circuit Breaker 20Amp	2
43	357713577	Air Filter Bracket	1	109	336713565	Screw M5×14	4
44	357713524	Rubber Cap A	1	110	336713818	Charger	1
45	336713542	Grommet, Fuel Tank	4	111	336713583	Receptacle L5-30R	1
46	336713543	Washer Tank Buffer	4	112	357713590	Control Box	1
47	336713544	Flange Bolt M6×20	4	113	357713545	Grommet	1
48	357713578	Fuel Gauge Assy.	1	114	357713546	Sleeve	1
49	336713546	Screw M5×10	2	115	357713548	Grommet	1
50	336713547	Fuel Gauge Display	1	116	357713591	LPG Hose	1
51	357713579	Fuel Tank Assy.	1	117	336713835	Metal Clamp (Ø8-Ø14)×b8	2
52	336713806	Fuel Filter, Wire Mesh	1	118	357713598	Waterproof Cover	2
53	336713549	Fuel Cap	1	119	336713643	VF Protection Module	1
54	336713807	Tank Fitting With Filter	1	120	330713502	Screw M5×20	1
55	336713540	Clamp Ø8×6	7	121	336713578	Nut M5	1
56	357713580	Hose,Fuel 1	1	122	357413511	Control Panel Assy.	1
57	357713581	Hose,Fuel 2	1	123	357413509	Wheel Kit	1
58	336713636	Carbon Canister Shield	1	124	357413510	Rotor And Stator Set	1
59	336713639	Carbon Canister Bracket	1	125	357413503	Spark Arrestor Kit	1
60	336713637	Carbon Canister	1	126	357413506	Support Leg Assembly	1
61	336713638	Carbon Canister Holder	1	127	336713590	Cotter Pin, Handle	2
62	380713532	Vapor Hose 1	1	128	336713844	Washer Ø8	2
63	380713533	Vapor Hose 2	1	129	357713596	Axle Pin, Handle	2
64	357713535	Axle Pin	2	130	357713597	Handle Assy.	1
65	357713592	Wheel	2	131	336713834	Regulator / Hose Assy.	1
66	357713536	Cotter Pin	2	132	336713691	Hose Holder	1

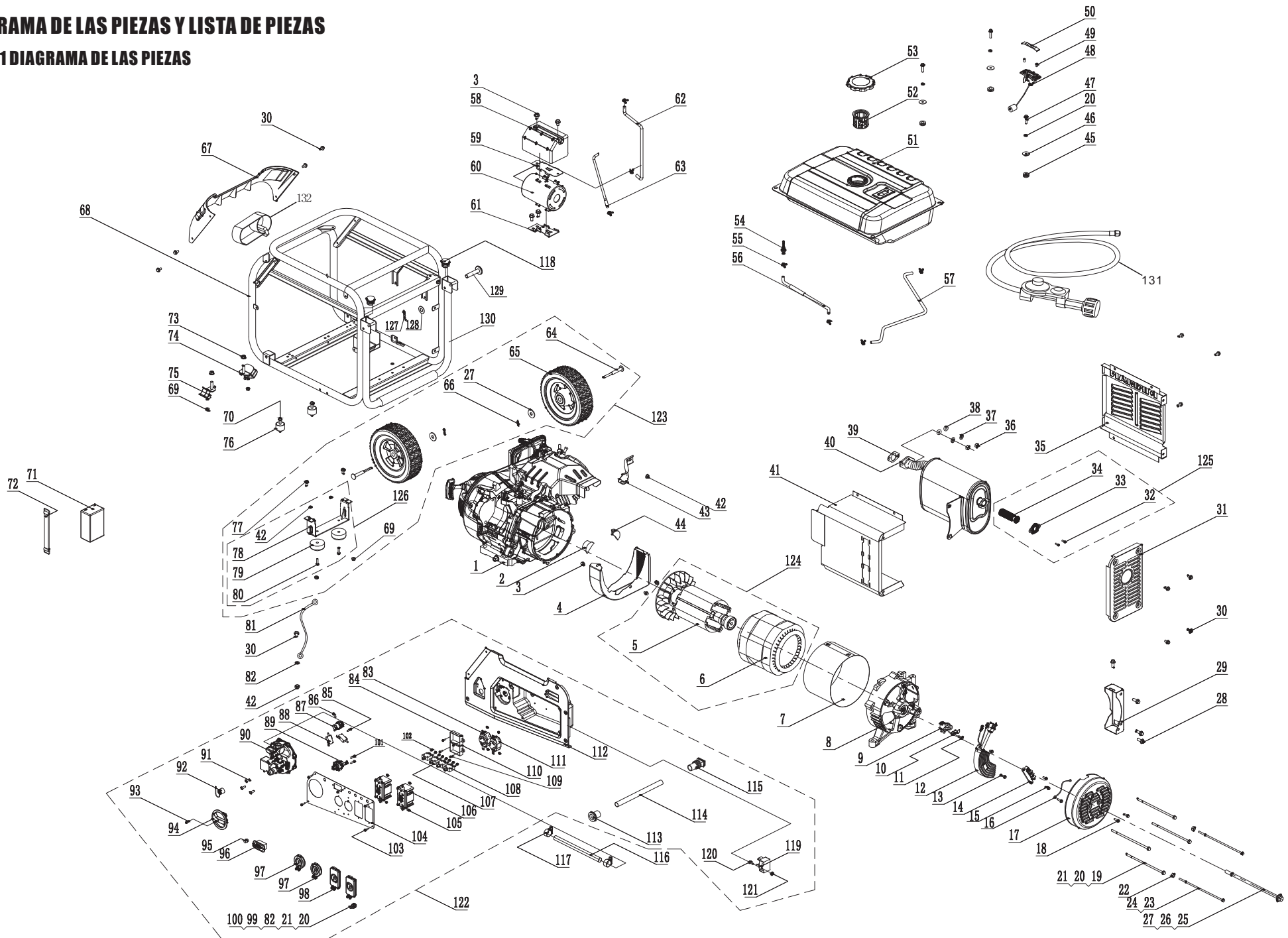
FIRMAN 439cc Engine Parts List

NO.	Part Number	Description	Qty.
1	380723514	Crankcase Comp.	1
2	357723501	Bolt, drain	2
3	357723502	Washer, drain Bolt	2
4	357723503	Oil Level Sensor	1
5	357723504	Flg. Bolt M6×15	2
6	357723505	Bearing	2
7	336723501	Locating Pins	2
8	357723506	Bearing	2
9	357723507	Balance Shaft	1
10	357723508	Camshaft Comp	1
11	380723501	Crankshaft	1
12	357723510	Gear, crank Shaft	1
13	357723511	Gear, drive	1
14	357723512	Gskt., crankcase Cover	1
15	357723513	Oil Dipstick Assy	1
16	357723514	Cover, crankcase	1
17	357723515	Oil Seal	2
18	357723516	Flg. Bolt M8×40	7
19	357723517	Conn., Rod Comp	1
20	357723518	Piston Pin Retainer Ring	2
21	357723519	Wrist Pin	1
22	380723502	Piston	1
23	336723503	Flange Bolt M6×12	8
24	357723521	Air Guide Lower	1
25	380723503	Ring, Oil	1
26	380723504	Ring, Second Piston	1
27	380723505	Ring, First Piston	1
28	357723525	Gasket, Valve Cover	1
29	357723526	Valve Cover Assy	1
30	357723527	Bolt	1
31	357723528	Exhaust Valves Stud Bolt	2
32	357723529	Breather Tube	1
33	357723530	Flg. Bolt M10×80	4
34	357723531	Rotator, Exhaust Valve	1
35	336723528	Locknut	2
36	336723529	Adjusting Nut, Valve	2
37	357723532	Valve Rocker	2
38	336723556	Spark Plug	1
39	357723533	Retainer, Intake Valve	1
40	357723534	Retainer, Exhaust Valve	1
41	357723535	Spring, Valve	2
42	336723537	Bolt, Rocker Arm	2
43	357723536	Oil Seal, Valve	2
44	357723537	Retainer, Valve	2
45	357723538	Guide Plate, Push Rod	1
46	380723506	Cylinder Head	1
47	380723507	Valve, In. take	1
48	380723508	Valve, Exhaust	1
49	357723542	Push Rod	2
50	357723543	Lifter, Valve	2
51	357723544	Locating Pins	2
52	380723509	Gasket, cyl. head	1
53	357723546	Air Cleaner Holder	1
54	357723547	Nut M6	1
55	357723548	Air Intake Stud Bolt	2
56	357723549	Gskt., Insulator	1
57	357723550	Insulator, Carburetor	1
58	357723551	Gskt., Carburetor	1

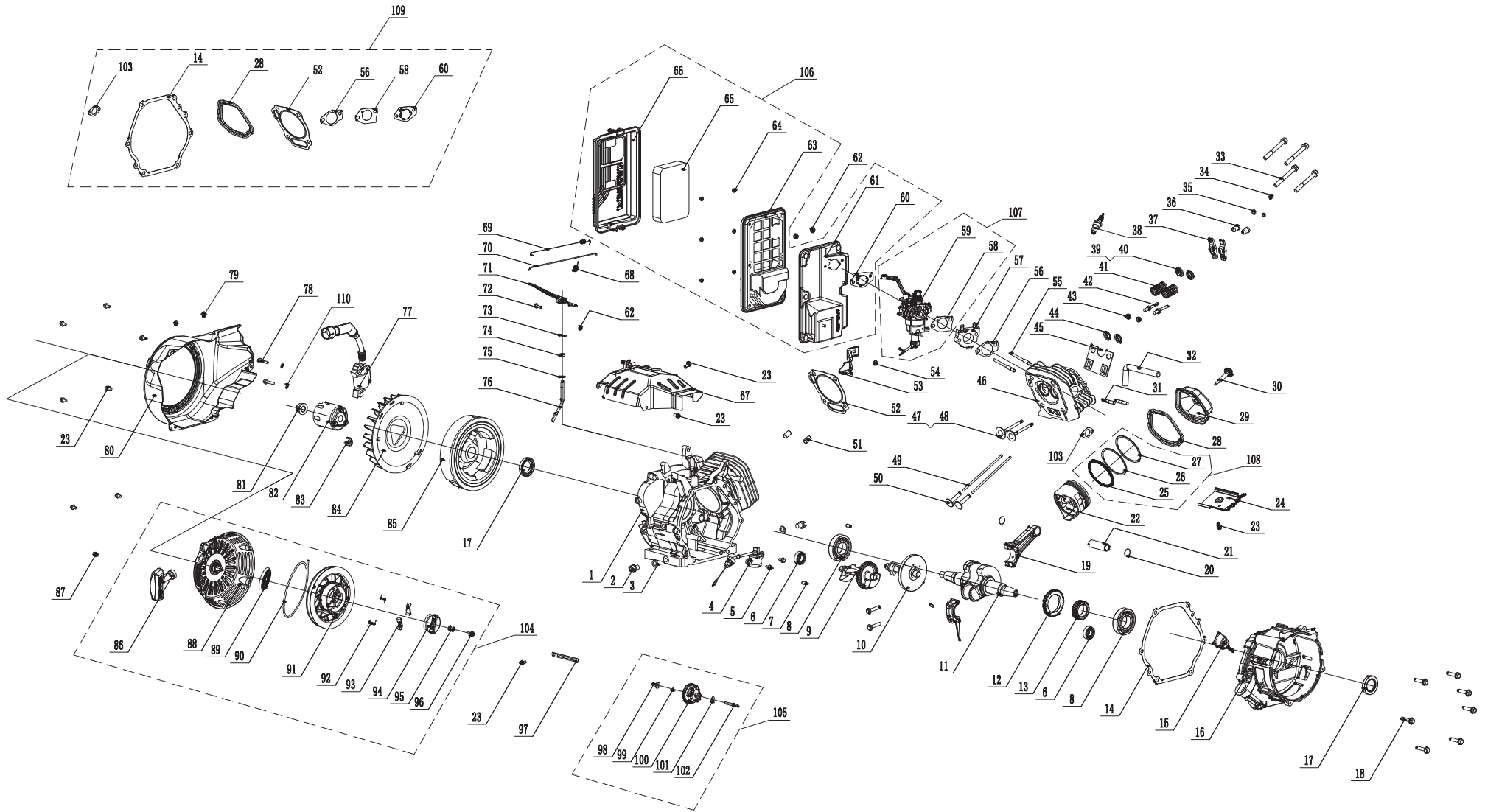
NO.	Part Number	Description	Qty.
59	380723515	Carburetor	1
60	357723554	Gskt., Air Cleaner	1
61	357723555	Elbow, Air Cleaner	1
62	336723555	Nut M6	3
63	357723556	Clapboard	1
64	357723557	Nut M5	6
65	380723516	Element, Air Cleaner	1
66	357723559	Cover, Air Cleaner	1
67	357723560	Wind Guide, Top	1
68	357723561	Spring, Governor	1
69	357723562	Spring, Throttle Return	1
70	357723563	Rod, Governor	1
71	357723564	Arm, Governor	1
72	336723567	Bolt, Governor Arm	1
73	357723565	Pin, Shaft	1
74	357723566	Oil Seal	1
75	336723564	Rocker Shim	1
76	357723567	Shaft, Governor Arm	1
77	357723568	Ignition Coil	1
78	357723569	Flg. Bolt M6×29	2
79	336723606	Wire Clip	2
80	357723570	Fan Cover Comp	1
81	357723571	Nut, Shaft	1
82	357723572	Pulley, Starter	1
83	336723612	Sheath, Wire	1
84	380723511	Cooling Fan	1
85	380723517	Flywheel Comp	1
86	357723577	Grip, Starter	1
87	357723578	Flange Bolt M6×8	3
88	357723579	Case Comp., recoil Starter	1
89	357723580	Spring, starter Return	1
90	357723581	Cord	1
91	357723582	Pulley, Recoil Starter	1
92	336723589	Spring, Patchet	2
93	336723590	Patchet, Starter	2
94	336723591	Pawl Guide	1
95	336723592	Clip Sprg., Pawl Guide	1
96	336723593	Screw, Pawl Guide	1
97	330723528	Wire Clip	1
98	357723584	Bushing, Governor Gear	1
99	336723597	Clip, Governor Gear	1
100	357723585	Gear, Governor	1
101	336723595	Inner Washer, Gear	1
102	357723586	Gov., gear Shaft	1
103	357713520	Gskt., ext.	1
104	357423500	Recoil Starter Set	1
105	357423501	Governing Gear Set	1
106	357423508	Air Cleaner Set	1
107	357423509	Carburetor Set	1
108	380423501	Piston Rings Set	1
109	380423502	Gasket Set	1
110	336723615	Lock Washer	2

DIAGRAMA DE LAS PIEZAS Y LISTA DE PIEZAS

H05751 DIAGRAMA DE LAS PIEZAS



FIRMAN 439cc Motor DIAGRAMA DE LAS PIEZAS



NO5751 LISTA DE PIEZAS

NO	Número de Pieza	Descripción	Qty.	NO	Número de Pieza	Descripción	Qty.
1	357713593	FIRMAN 439cc Dual Fuel Engine	1	67	357713582	Cubierta Plástica	1
2	357713501	Gorra de goma B	1	68	357713583	Marco	1
3	336713528	Perno de brida M6 x 8	5	69	336713558	Tuerca M8	6
4	357713573	Generador Wind Shield	1	70	357713584	Perno de brida M8 x 35	2
5	357713574	Rotor Assy	1	71	336713838	Batería	1
6	357713575	estator	1	72	336713839	Banda de soporte de la batería	1
7	380713503	Cubierta del estator	1	73	357713531	Tuerca M10	2
8	357713506	Cubierta del generador	1	74	357713532	Aislador 2	1
9	357713507	Ensamble del cepillo del carbón	1	75	357713533	Aislador 1	1
10	336713525	Sostenedor del cepillo del carbón	1	76	357713585	Montaje del motor	2
11	336713524	Conjuntos de tornillos y arandelas	1	77	336713559	Perno de brida M8 x 16	4
12	357713508	AVR	1	78	357713538	Pata de apoyo	1
13	336713519	Perno de brida M5 x 16	2	79	336713557	Caucho, Soporte	2
14	336713523	Bloque de terminales	1	80	336713561	Perno de la brida M6 x 25	4
15	336713520	Perno M5 x 16	2	81	336713514	Cable de tierra	1
16	336713522	Cable de tierra	1	82	336713516	Arandela de estrella externa Ø6	1
17	357713509	Tapa del extremo del generador	1	83	336713601	Receptáculo L14-30R	1
18	336713507	Perno de brida M5 x 12	3	84	336713817	Módulo de control	1
19	336713511	Perno de brida M6 x 179	4	85	336713819	Tornillo roscado St2.9 x 19	2
20	336713512	Arandela de bloqueo Ø6	8	86	336713820	Tornillo roscado St2.9 x 32	1
21	336713513	Arandela Ø6	4	87	336713821	Micro Switch 1	1
22	336713577	Tuerca M5	2	88	336713822	Micro Switch 2	2
23	357713510	Perno de la cubierta lateral M5 x 214	2	89	336713824	Válvula de gasolina	1
24	357713511	Arandela de seguridad Ø5	2	90	336713823	Regulador principal Assy.	1
25	357713512	Perno de brida M10 x 265	1	91	357713594	Tornillo M6 x 12	3
26	357713513	Arandela de seguridad Ø10	1	92	336713826	Cubierta de entrada de GLP	1
27	357713514	Lavadora Ø10	5	93	336713816	Tornillo M4 x 12	1
28	336713531	Perno de brida M8 x 20	4	94	336713815	Selector de combustible	1
29	357713515	Titular, manguito	1	95	336713828	Luz indicadora	1
30	336713515	Perno de la brida M6 x 12	19	96	357713586	multímetro	1
31	357713516	Placa fija del silenciador A	1	97	336713573	Cubierta de salida L5-30R	2
32	336713538	Tornillo y arandela Assy M5 x 14	2	98	357713541	Cubierta de salida 5-20R GFCI	2
33	357713517	Soporte, Parabrisas	1	99	380713512	Bolt M6 x 22	1
34	336713536	Paracaídas, chispa	1	100	380713515	Tuerca M6	2
35	357713518	Silenciador Placa Fija B	1	101	336713830	Tornillo roscado St4.8 x 20	2
36	336713534	Tuerca M8	2	102	336713569	Tornillo y arandela Assy M4 x 8	8
37	336713509	Arandela de seguridad Ø8	2	103	330713582	Tornillo y arandela Assy M4 x 14	6
38	336713533	Arandela plana Ø8	2	104	357713595	Panel de control	1
39	357713520	Gskt., Ext.	1	105	336713568	Tuerca M4	8
40	357713576	Muff., Assy.	1	106	357713588	5-20R Duplex GFCI	2
41	357713523	Silenciador Placa Fija C	1	107	357713589	Disyuntor 24Amp	2
42	336713517	Tuerca M6	4	108	336713585	Disyuntor 20Amp	2
43	357713577	Soporte del filtro de aire	1	109	336713565	Tornillo M5 x 14	4
44	357713524	Gorra de goma A	1	110	336713818	Cargador	1
45	336713542	Ojal, Tanque de combustible	4	111	336713583	Receptáculo L5-30R	1
46	336713543	Tampón del tanque de la lavadora	4	112	357713590	Caja de control	1
47	336713544	Perno de brida M6 x 20	4	113	357713545	Ojal	1
48	357713578	Indicador de combustible Assy.	1	114	357713546	Manga	1
49	336713546	Tornillo M5 x 10	2	115	357713548	Ojal	1
50	336713547	Pantalla del medidor de combustible	1	116	357713591	Manguera de gas	1
51	357713579	Depósito de combustible.	1	117	336713835	Abrazadera metálica (ø8-ø14) x b8	2
52	336713806	Filtro de combustible, malla de alambre	1	118	357713598	Cubierta impermeable	2
53	336713549	Tapa de combustible	1	119	336713643	Módulo de protección VF	1
54	336713807	Ajuste del Tanque con Filtro	1	120	330713502	Tornillo M5 x 20	1
55	336713540	Abrazadera Ø8 x 6	7	121	336713578	Tuerca M5	1
56	357713580	Manguera, combustible 1	1	122	357413511	Panel de control Assy.	1
57	357713581	Manguera, combustible 2	1	123	357413509	Kit de ruedas	1
58	336713636	Protector del cartucho de carbono	1	124	357413510	Conjunto Rotor Y Estator	1
59	336713639	Soporte del cartucho de carbono	1	125	357413503	Spark Arrestor Kit	1
60	336713637	Cartucho de Carbono	1	126	357413506	Montaje de la pata de apoyo	1
61	336713638	Porta contenedores de carbono	1	127	336713590	Pasador, Mango	2
62	380713532	Manguera de vapor 1	1	128	336713844	Arandela Ø8	2
63	380713533	Manguera de vapor 2	1	129	357713596	Pin de eje, mango	2
64	357713535	Pin del eje	2	130	357713597	Asa de manija	1
65	357713592	Rueda	2	131	336713834	Regulador / manguera.	1
66	357713536	Pasador	2	132	336713691	Soporte de manguera	1

FIRMAN 439cc Motor LISTA DE PIEZAS

NO.	Número de Pieza	Descripción	Qty.
1	380723514	Cárter Comp.	1
2	357723501	Tornillo de drenaje	2
3	357723502	Arandela, tornillo de drenaje	2
4	357723503	Sensor de nivel de aceite	1
5	357723504	Fig. Bolt M6 × 15	2
6	357723505	Cojinete	2
7	336723501	Pernos de localización	2
8	357723506	Cojinete	2
9	357723507	Eje de equilibrio	1
10	357723508	Comp de árbol de levas	1
11	380723501	Cigüeñal	1
12	357723510	Engranaje, eje de manivela	1
13	357723511	Engranaje	1
14	357723512	Gskt., Cubierta del cárter	1
15	357723513	Ensamble de la varilla de nivel de aceite	1
16	357723514	Cubierta, cárter	1
17	357723515	Sello de aceite	2
18	357723516	Fig. Perno M8 × 40	7
19	357723517	Conn, Rod Comp	1
20	357723518	Anillo Retenedor de Pasador de Pistón	2
21	357723519	Conector	1
22	380723502	Pistón	1
23	336723503	Perno de la brida M6 × 12	8
24	357723521	Guía del Aire Baja	1
25	380723503	Anillo de aceite	1
26	380723504	Anillo, segundo pistón	1
27	380723505	Anillo, primer pistón	1
28	357723525	Junta, tapa de la válvula	1
29	357723526	Cubierta de la válvula Assy	1
30	357723527	Tornillo	1
31	357723528	Válvulas de escape	2
32	357723529	tubo de respiración	1
33	357723530	Fig. Bolt M10 × 80	4
34	357723531	Rotator, válvula de escape	1
35	336723528	Tuerca de bloqueo	2
36	336723529	Tuerca de ajuste, válvula	2
37	357723532	Valve Rocker	2
38	336723556	Bujía	1
39	357723533	Retenedor, Válvula de admisión	1
40	357723534	Retenedor, Válvula de escape	1
41	357723535	Muelle, válvula	2
42	336723537	Perno, brazo oscilante	2
43	357723536	Sello de aceite, válvula	2
44	357723537	Retenedor, Válvula	2
45	357723538	Placa guía, empujador	1
46	380723506	Cabeza de cilindro	1
47	380723507	Válvula en la toma	1
48	380723508	Válvula de escape	1
49	357723542	Varilla de empuje	2
50	357723543	Elevador, válvula	2
51	357723544	Pernos de localización	2
52	380723509	Junta, cil.head	1
53	357723546	Soporte del filtro de aire	1
54	357723547	Tuerca M6	1
55	357723548	Tornillo de entrada de aire	2
56	357723549	Gskt., Aislador	1
57	357723550	Aislante, Carburador	1
58	357723551	Gskt., Carburador	1

NO.	Número de Pieza	Descripción	Qty.
59	380723515	Carburador	1
60	357723554	Gskt., Limpiador de aire	1
61	357723555	Codo, filtro de aire	1
62	336723555	Tuerca M6	3
63	357723556	Tablilla	1
64	357723557	Tuerca M5	6
65	380723516	Elemento, filtro de aire	1
66	357723559	Cubierta, filtro de aire	1
67	357723560	Guía del viento, Top	1
68	357723561	Primavera gobernador	1
69	357723562	Primavera, Vuelta del acelerador	1
70	357723563	Rod, gobernador	1
71	357723564	Brazo gobernador	1
72	336723567	Perno, brazo del gobernador	1
73	357723565	Pin, eje	1
74	357723566	Sello de aceite	1
75	336723564	balancín	1
76	357723567	Eje, brazo del gobernador	1
77	357723568	Bobina de encendido	1
78	357723569	Fig. Bolt M6 × 29	2
79	336723606	Clip de alambre	2
80	357723570	Cubierta del ventilador	1
81	357723571	Tuerca, eje	1
82	357723572	Polea, arrancador	1
83	336723612	Vaina, alambre	1
84	380723511	Ventilador	1
85	380723517	Comp. del volante	1
86	357723577	Apretón, arrancador	1
87	357723578	Perno de brida M6 × 8	3
88	357723579	Caja Comp., Recoil Starter	1
89	357723580	Resorte, arrancador	1
90	357723581	Cable	1
91	357723582	Polea, arrancador de retroceso	1
92	336723589	Primavera, Patchet	2
93	336723590	Patchet, Entrante	2
94	336723591	Qué hacer en Pawl	1
95	336723592	Clip Sprg., Pawl Guía	1
96	336723593	Screw, Pawl Guía	1
97	330723528	Clip de alambre	1
98	357723584	Buje, engranaje de Governor	1
99	336723597	Clip, Governor Gear	1
100	357723585	Engranaje gobernador	1
101	336723595	Arandela interior, engranaje	1
102	357723586	Gov., eje de engranaje	1
103	357713520	Gskt., Ext.	1
104	357423500	Juego de arranque de retroceso	1
105	357423501	Conjunto de engranajes gobernantes	1
106	357423508	Juego de filtro de aire	1
107	357423509	Juego de carburador	1
108	380423501	Juego de anillos de pistón	1
109	380423502	Juego de juntas	1
110	336723615	Arandela de seguridad	2