

## SPECIFICATIONS

### Generator Specifications

Generator Model .....	100306
Start Type .....	Manual
Watts (Starting/Running) .....	2000/1600
AC Volts .....	120
AC Amps @ 120 .....	13.3
DC Volts .....	12
DC Amps .....	8
Frequency .....	60 Hz
Phase .....	Single
Gross Weight .....	53.4 lb. (24.2 kg)
Net Weight .....	46.3 lb. (21 kg)
Length .....	20.5 in. (52 cm)
Width .....	13 in. (32 cm)
Height .....	16.9 in. (43 cm)

### Engine Specifications

Model .....	YF149FD-330
Displacement .....	80 cc
Type .....	4-Stroke OHV

### Oil Specifications

DO NOT OVERFILL.

Type .....	*See chart below
Capacity .....	0.4 qt. (0.4 L)

Recommended Oil Type / Tipo de aceite recomendado / Type d'huile recommandé								
		10W-30						
	5W-30		10W-40					
	5W-30 Synthetic / Sintético / Synthétique							
°F	-20	0	20	40	60	80	100	120
°C	-28.9	-17.8	-6.7	4.4	15.6	26.7	37.8	48.9
Ambient temperature / Temperatura ambiente / Température ambiante								

#### NOTICE

Weather will affect engine oil and engine performance. Change the type of engine oil used based on weather conditions to suit the engine needs.

### Fuel Specifications

Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of 10% or less by volume. DO NOT USE E15 or E85. DO NOT OVERFILL.

Gasoline Capacity .....	1.1 gal. (4.2 L)
-------------------------	------------------

### Spark Plug Specifications

OEM Type .....	NHSP E6RTC
Replacement Type .....	NGK BPR6HS or equivalent
Gap .....	0.024-0.028 in. (0.6-0.7 mm)

### Valve Specifications

Intake Clearance .....	0.004 in. (0.1 mm)
Exhaust Clearance .....	0.004 in. (0.1 mm)

#### NOTICE

A technical bulletin regarding valve adjustment procedures is available at [www.championpowerequipment.com](http://www.championpowerequipment.com).

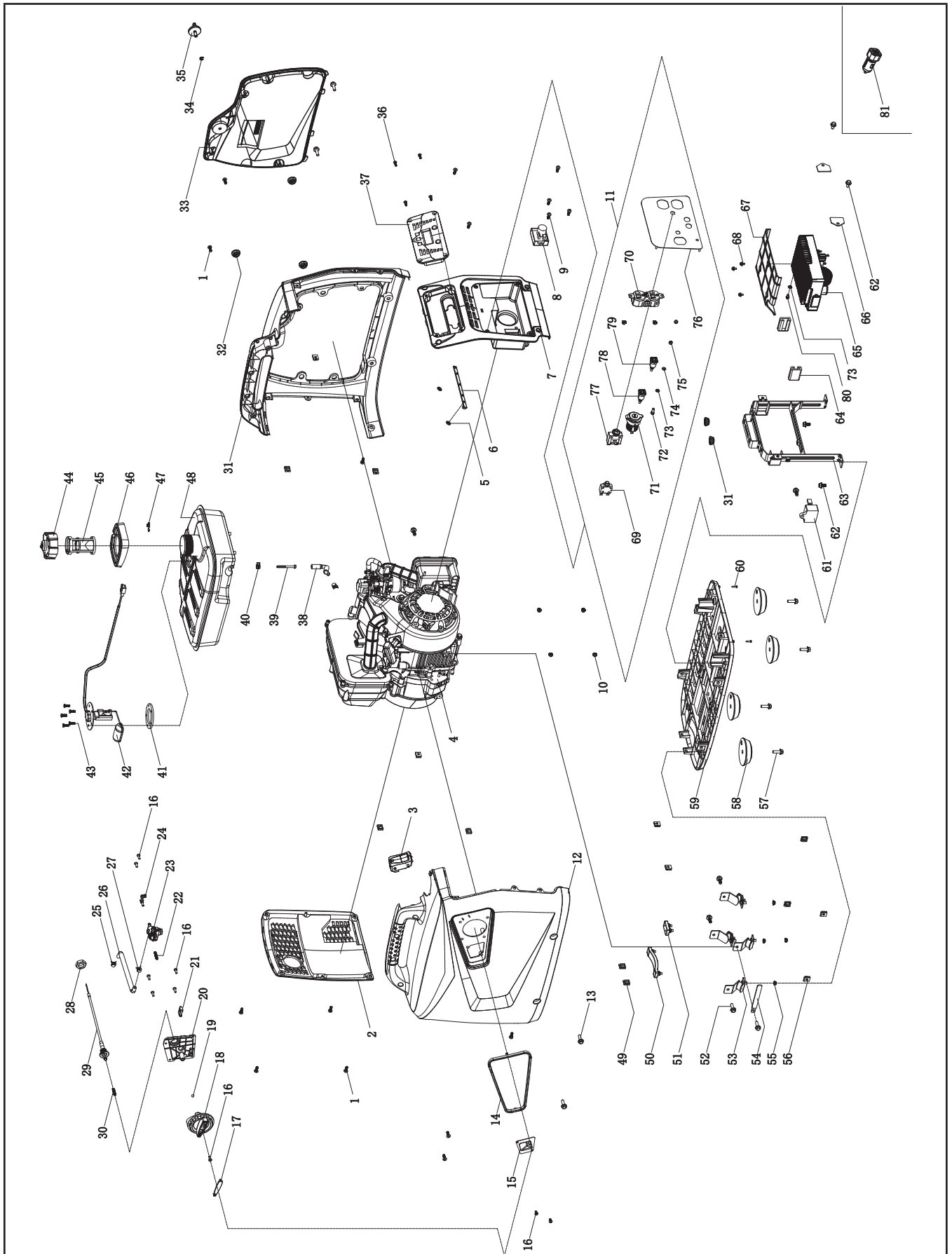
### Temperature Specifications

Starting Temperature Range (°F/°C) .....	5 to 104/-15 to 40
--	--------------------

#### NOTICE

**An important message about temperature:** Your product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed it may be operated at temperatures ranging from 5°F (-15°C) to 122°F (50°C) for short periods of time. If exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and vents.

Parts Diagram



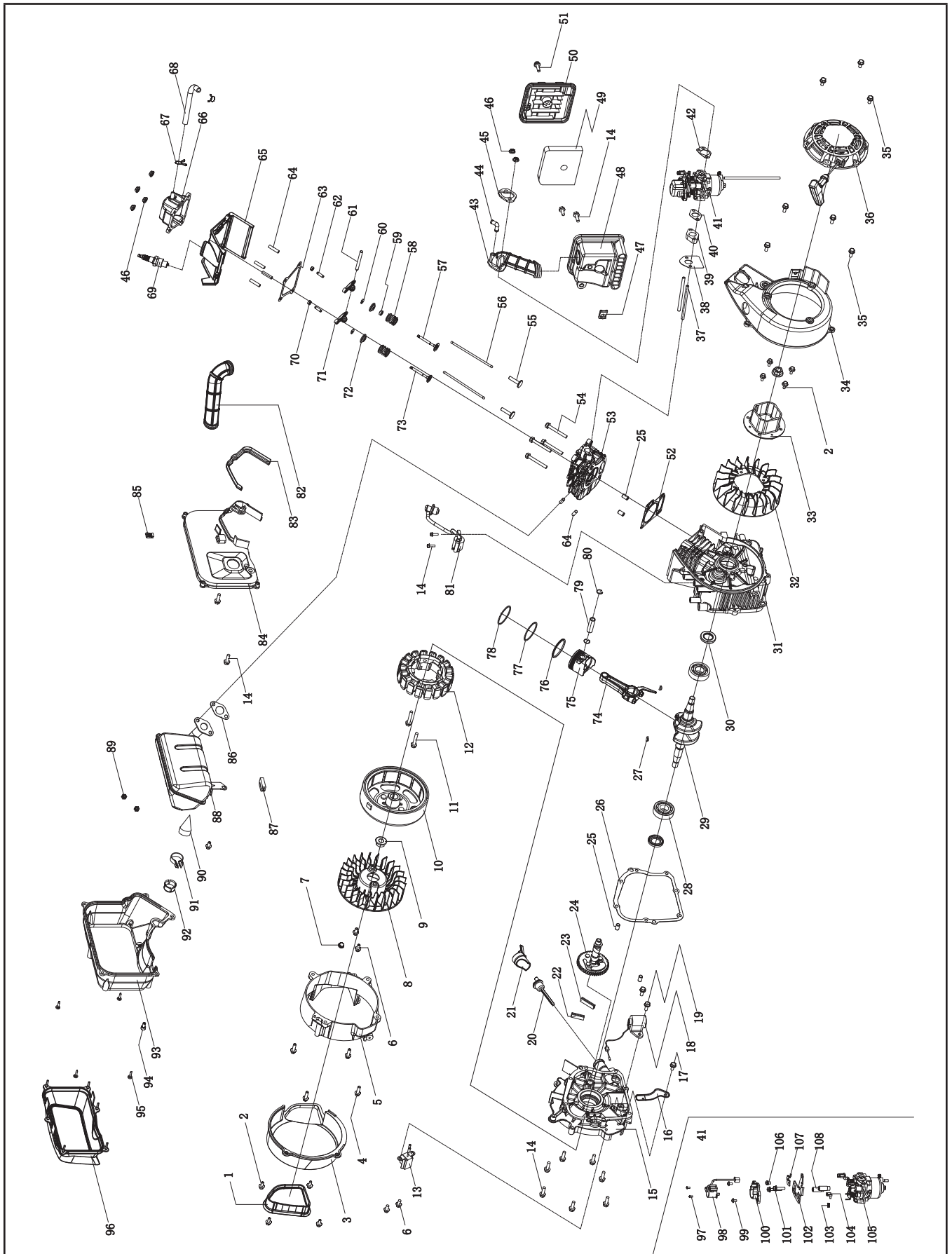
## Parts List

#	Part Number	Description	Qty.
1	1.818.0514.3	Screw M5 × 14, Green	14
2	62.200200.00	Cover, Left, black	1
3	62.214000.00	Indicator Light Assembly, Fuel Tank	1
4	62.401	Engine, 80 cc	1
5	2.03.061	Circlip	2
6	62.214000.01	Indicator Light Assembly, Control Panel	1
7	62.200300.00	Cover, Right, black	1
8	88.126000.00	Ignition Assembly	1
9	1.818.0414.3	Screw M4 × 14	2
10	1.6177.1.04.1	Lock Nut M4, Flange, Green	6
11	100306.21	Control Panel Assembly	1
12	62.200101.00.48	Front Cover, Yellow	1
13	1.5789.0615.3	Flange Bolt M6 × 15	4
14	62.200106.00	Protection Strip	1
15	62.061200.00	Guide Plate, Rope	1
16	1.823.0412.3	Screw M4 × 12	9
17	62.139002.00	Cover, Rotary Knob	1
18	62.139001.00	Rotary Knob	1
19	62.139008.00	Ball Bearing, Rotary Knob	1
20	62.139004.00	Fixed Plate	1
21	5.1050.008	Microswitch	1
22	62.139007.00	Spring, Steel Ball	1
23	62.070400.00	Fuel Valve	1
24	62.139006.00	Pressure Plate	1
25	2.06.016	Clamp, Ø8.7 × b8	2
26	62.070011.00	Pipe, Fuel Valve to Carburator	1
27	2.06.007	Clamp, Ø8 × b6	1
28	2.02.036	Thin Hexnut M16 × 1.5	1
29	62.130200.00	Pull Choke Assembly	1
30	62.130201.00	Spring, Pull Choke	1
31	62.200401.00.48	Supporter, Rear Cover, Yellow	1
32	81.200102.00	Rotundity Jacket	3
33	62.200402.00.48	Protector, Rear Cover, Yellow	1
34	1.896.05	Split Washer Ø5	1
35	62.200410.00	Rotary Knob, Protector, Rear Cover	1

#	Part Number	Description	Qty.
36	1.819.0414.3	Sunk Screw M4 × 14	4
37	62.210017.00	Multifunction Display	1
38	88.070011.01	Pipe	1
39	111.070300.01	Fuel Filter, Wire Mesh	1
40	2.06.018	Clamp, Ø10.5 × b8	1
41	122.070036.00	Seal Ring	1
42	62.070035.00	Fuel Level Sensor	1
43	1.819.0516.2	Sunk Screw M5 × 16	5
44	62.070100.00	Fuel Tank Cap	1
45	62.070300.00	Fuel Filter	1
46	62.200502.00	Spillway, Fuel Tank	1
47	82.080009.00	Mustache clip	1
48	62.071000.00	Fuel Tank, 4.2L, Black	1
49	2.02.010	Cage Nut M5	10
50	81.200603.00	Mount, End Cover	1
51	81.200602.00	Mounting Rubber, End Cover	1
52	1.5789.0615	Flange Bolt M6 × 15	5
53	81.200605.00	Motor Mount	4
54	2.05.050	Clamp, Wire, 100	1
55	1.6177.1.06.3	Lock Nut M6, Flange, Green	4
56	2.02.013	Cage Nut M6	4
57	1.5789.0620	Flange Bolt M6 × 20	4
58	62.200604.00	Mounting Rubber, Base Setting	4
59	62.200601.00	Base Setting Component	1
60	1.845.2913	Tapping Screw ST2.9 × 13	2
61	5.1800.003	Rectifier	1
62	1.5789.0612	Flange Bolt M6 × 12	5
63	62.070009.00	Supportor, Fuel Tank	1
64	81.220001.00	Protector, Control Unit	2
65	62.221000.00	Control Unit, 1600W / 120V / 60HZ	1
66	81.220003.00	Pressure Plate, Control Unit	2
67	62.220006.00	Air Shroud, Control Unit	1
68	1.9074.1.0408	Screw M4×8	3
69	5.1200.308	8Amp Circuit Breaker, Push Button	1
70	5.1120.010	Receptacle 5-20R, Duplex	1

#	Part Number	Description	Qty.
71	5.1110.005	Receptacle, DC12V	1
72	1.5783.0516.3	Bolt M5 × 16, Green	1
73	1.862.05	Lock Washer Ø5, Toothed	2
74	1.97.1.05.3	Washer, Ø5, Green	1
75	1.6170.05.3	Nut M5, Green	2
76	62.01.1.2	Control Panel	1
77	5.1210.920	20Amp Circuit Breaker, Push Button, CSA	1
78	83.210001.00.1	Connect Port, Black	1
79	83.210001.00.3	Connect Port, Red	1
80	1.16674.0510	Flange Bolt M5 x 10	1
81	9.1700.008	Plug, USB 5V/2.4A	1

### Engine Parts Diagram



## Engine Parts List

#	Part Number	Description	Qty.
1	62.190006.00	Rubber Sleeve, End Cover	1
2	1.5789.0512	Flange Bolt M5 × 12	4
3	62.190002.01	Cover, End Housing	1
4	1.16674.0620	Flange Bolt M6 × 20	4
5	62.190002.00	End Housing, Motor	1
6	1.16674.0612	Flange Bolt M6 × 12	5
7	24.091008.01	End Cap	1
8	62.190001.00	Cooling Fan, Rotor	1
9	2.02.018	Nut M12 × 1.25	2
10	62.191100.00	Rotor Component	1
11	1.5789.0635	Flange Bolt M6 × 35	2
12	62.191200.03	Stator Component	1
13	81.122000.00	Trigger Assembly	1
14	1.5789.0620	Flange Bolt M6 × 20	12
15	81.030007.00	Cover, Crankcase	1
16	81.030006.00	Plate, Coil	1
17	1.5789.0608	Flange Bolt M6 × 8	1
18	81.127000.00	Oil Level Sensor	1
19	1.5789.0612	Flange Bolt M6 × 12	2
20	81.031000.00	Oil Dipstick Assembly	1
21	81.030035.00	Oil Nipple	1
22	81.030013.00	Seal Strip 1, Crankcase Cover	1
23	81.030013.01	Seal Strip 2, Crankcase Cover	1
24	81.040100.00	Camshaft	1
25	2.04.002	Dowel Pin Ø8 × 14	4
26	81.030008.00	Gasket, Crankcase Cover	1
27	2.14.013	Woodruff Key 3 × 5 × 13	2
28	1.276.6204	Bearing 6204	2
29	81.050100.00	Crankshaft	1
30	2.11.019	Oil Seal Ø20 × Ø35 × 5	2
31	81.030100.00	Crankcase	1
32	81.080001.00	Cooling Fan	1
33	81.060001.00	Pulley, Starter	1
34	62.080100.00	Fan Cover	1
35	1.5789.0615	Flange Bolt M6 × 15	8
36	62.061000.00	Recoil Assembly	1
37	2.01.026	Stud Bolt M6 × 88	2
38	81.130002.00	Gasket, Insulator	1

#	Part Number	Description	Qty.
39	81.130001.00	Insulator, Carburetor	1
40	81.130003.00	Gasket, Carburetor	1
41	62.130000.00	Carburetor Assembly	1
42	81.130004.00	Gasket, Air Cleaner	1
43	81.090004.00	Pipe, Air Cleaner	1
44	81.090003.00	Joint, Breather Pipe	1
45	81.090005.00	Pressure Plate, Air Filter Tube	1
46	1.6177.1.06.3	Flange Lock Nut M6	6
47	2.02.013	Cage Nut M6	1
48	81.091100.00	Base, Air Cleaner	1
49	81.091003.00	Element, Air Cleaner	1
50	81.091200.00	Cover, Air Cleaner	1
51	2.08.053	Bolt M6 × 20	1
52	81.030009.00	Gasket, Cylinder Head	1
53	81.010100.00	Cylinder Head	1
54	1.5789.0650	Flange Bolt M6 × 50	4
55	81.040013.00	Lifter, Valve	2
56	81.040005.00	Push Rod	2
57	81.040002.00	Valve, Intake	1
58	83.040003.01	Spring, Valve	2
59	81.040017.00	Oil Seal, Valve	1
60	83.040014.01	Valve Collet	2
61	81.040016.00	Shaft, Rocker Arm	1
62	81.040012.00	Screw, Valve Adjustment	2
63	62.020002.00	Gasket, Cylinder Head Cover	1
64	2.01.027	Stud Bolt M6 × 27	6
65	62.080200.00	Air Shroud, Cylinder	1
66	62.021000.00	Cover, Cylinder Head	1
67	2.06.010	Clamp, Ø10.5 × Ø1	2
68	81.020001.00	Breather Tube	1
69	2.15.005	Spark Plug E6RTC	1
70	2.02.009	Nut M5 × 0.5, Lock	2
71	81.040009.00	Rocker Arm, Intake Valve	2
72	83.040001.01	Retainer, Valve Spring	2
73	81.040006.00	Valve, Exhaust	1
74	81.050200.00	Connecting Rod Assembly	1
75	81.050005.00	Piston	1
76	81.050303.00	Ring Assembly, Oil	1
77	81.050302.00	Piston Ring, Second	1

#	Part Number	Description	Qty.
78	81.050301.00	Piston Ring, First	1
79	81.050003.00	Wrist Pin, Piston	1
80	2.09.007	Circlip Ø13.5 × Ø1	2
81	81.123000.01	Ignition Coil	1
82	81.080003.00	Air Duct	1
83	81.081001.00	Muffler Protector Seal	1
84	62.081100.00	End Shield, Muffler	1
85	81.081003.00	Fastening Insert Piece	1
86	81.100001.00	Gasket, Exhaust Pipe	1
87	81.081002.00	Rubber Seal Sleeve	1
88	62.101100.00	Muffler Assembly	1
89	1.6175.06.3	Nut M6	2
90	81.101300.00	Spark Arrester	1
91	2.06.011	Clamp, Ø25 × b10	1
92	81.101501.00	Cap, Spark Arrester	1
93	62.081200.00	Middle Shield, Muffler	1
94	1.70.0616	Inside Hexagonal Bolt M6X16	1
95	1.845.4817	Tapping Screw ST4.8 × 17	4
96	62.081300.00	Terminal Shield, Muffler	1
97	1.818.0306.1	Screw M3 × 6	2
98	62.132200.00	Stepper Motor	1
99	1.9074.1.0408	Screw M4 × 8	2
100	81.132100.00	Stepper Motor Base	1
101	1.9074.4.0535	Screw M5 × 35	2
102	62.130005.00	Support, Stepper Motor	1
103	81.130010.00	Spring, Connector	1
104	81.130008.00	Connector, Choke Valve Axis	1
105	81.131000.00	Carburetor	1
106	1.9074.3.0510	Screw M5 × 10	1
107	62.130007.00	Pressure Plate, Choke Control Line	1
108	81.130006.00	Brace, Support Plate	2

Wiring Diagram

