

<b>Engine Specifications</b>	
Model	G100 K1
Type	4-stroke, side valve type (L-head), single cylinder
Displacement	83 cm <sup>3</sup> (5.06 cu-in)
Max. horsepower	2.2 HP (1.64 kW) at 4200 rpm
Max. torque	3.8 Nm (0.38 kg·m)
Carburetor	Horizontal, butterfly valve
Cooling system	Forced-air
Ignition system	Transistorized magneto or CDI
Lubricating system	Splash system
Starting system	Recoil starter
Stopping system	Ground of primary circuit
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	1.4 L
Fuel consumption	320 g/HPh
PTO shaft rotation	Counterclockwise (from PTO shaft side)

<b>CYLINDER BLOCK AND HEAD</b>	
Compression ratio	6.5:1
Bore x Stroke	48 x 46 mm (1.88 x 1.81 in)
Sleeve internal diameter	48.00 mm (1.88 in)
Piston skirt outer diameter	47.995 mm (1.8503 in)
Number of piston rings (compression / oil)	2 / 1
Ring side clearance	Top/second/oil 0.01-0.05 mm (0.0004-0.002 in)
Ring end gap	Top/second 0.25 mm (0.009 in), Oil 0.45 mm (0.017 in)
Connecting rod small end ID	10.0 mm (0.393 in)
Connecting rod big end ID	18.0 mm (0.708 in)
Crankpin outer diameter	17.98 mm (0.707 in)
<b>Cylinder Head</b>	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	Side valve type (L-head)
Valves	2
Stem outer diameter (standard)	INTAKE 5.490 mm (0.2161 in), EXHAUST 5.445 mm (0.2143 in)
Guide internal diameter	INTAKE / EXHAUST 5.5 mm (0.2165 in)
Spring free length	27.1 mm (1.066 in)

Cam height	INTAKE 20.82 mm (0.8196 in), EXHAUST 20.82 mm (0.8196 in)
Camshaft journal diameter	12.184 mm (0.4796 in)

<b>MAINTENANCE DATA</b>	
<b>Engine</b>	
Idle speed	1400 ± 110 rpm
Cylinder compression	6.5 kg/cm <sup>2</sup> (637 kPa) at 800 rpm
Adjust timing ignition	Ignition timing 20° B.T.D.C. (Fixed)
Adjust valve clearance	Intake valve 0.08-0.16 mm (0.0031-0.0063 in), Exhaust valve 0.08-0.16 mm (0.0031-0.0063 in)
<b>Oil system</b>	
Oil type	Honda 4-stroke "SE"
Recommended oil	10W-40
Oil capacity	0.45 L
<b>Carburetor</b>	
Main jet	#62
<b>Ignition system</b>	
Spark plug	NGK: BM4A, BMR4A, NIPPON DENSO: W14M-U, W14MR-U
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)

Primary ignition coil resistance	0.7-0.9 kΩ
Secondary ignition coil resistance	6.3-7.7 kΩ

<b>TIGHTENING TORQUE SPECS</b>	
Carburetor	4-6 Nm; 0.4-0.6 kg·m; 2.9-4.3 ft·lb
Flywheel	45-55 Nm; 4.5-5.5 kg·m; 32.5-40 ft·lb
Governor arm	8-12 Nm; 0.8-1.2 kg·m; 5.8-8.7 ft·lb
Cylinder head	8-12 Nm; 0.8-1.2 kg·m; 5.8-8.7 ft·lb
Crankcase cover	8-12 Nm; 0.8-1.2 kg·m; 5.8-8.7 ft·lb
Connecting rod	4-6 Nm; 0.4-0.6 kg·m; 2.9-4.3 ft·lb
<b>Others</b>	
5 mm bolts, nuts	4-7 Nm; 0.4-0.7 kg·m; 2.9-5.1 ft·lb
6 mm bolts, nuts	8-12 Nm; 0.8-1.2 kg·m; 5.8-8.7 ft·lb
8 mm bolts, nuts	20-28 Nm; 2.0-2.8 kg·m; 14.5-20.3 ft·lb
10 mm bolts, nuts	35-40 Nm; 3.5-4.0 kg·m; 25-29 ft·lb