

Engine Specifications	
Model	G100
Type	4-stroke, side valve type (L-head), single cylinder
Displacement	76 cm ³ (4.6 cu-in)
Max. horsepower	2.0 HP (1.5 kW) or 2.2 HP (1.6 kW) at 4200 rpm
Max. torque	3.3 Nm (0.33 kg·m, 2.4 ft·lb) or 3.5 Nm (0.35 kg·m, 2.5 ft·lb)
Carburetor	Horizontal, butterfly valve
Cooling system	Forced-air
Ignition system	Flywheel magneto
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)

CYLINDER BLOCK AND HEAD	
Compression ratio	6.5:1
Bore x Stroke	46 x 46 mm (1.81 x 1.81 in)
Sleeve internal diameter	46.00 mm (1.811 in)
Piston skirt outer diameter	45.980 mm (1.810 in)
Number of piston rings (compression / oil)	2 / 1
Ring side clearance	Top 0.025-0.055 mm (0.0009-0.0022 in), Second/oil 0.010-0.040 mm (0.0004-0.0016 in)
Ring end gap	Top/second 0.15-0.35 mm (0.006-0.014 in), Oil 0.15-0.35 mm (0.006-0.014 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	17.973 mm (0.7076 in)
Cylinder Head	
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 18.10-18.40 mm (0.713-0.724 in), EXHAUST 18.10-18.40 mm (0.713-0.724 in)
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MAINTENANCE DATA	
Engine	
Idle speed	1400 ± 110 rpm
Cylinder compression	6.5 kg/cm ² (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)
Oil system	
Oil type	Honda 4-stroke "SE"
Recommended oil	10W-40
Oil capacity	0.45 L
Carburetor	
Main jet	#55
Pilot screw	1-3/8
Float height	6.7-9.7 mm (0.26-0.28 in)
Ignition system	
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 winding ignition coil resistance	0.49 Ω ±10%
Secondary winding ignition coil resistance	4.0 k Ω ±10%

TIGHTENING TORQUE SPECS	
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
Others	
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