

Engine Specifications	
Model	G300
Type	4-stroke, side valve type (L-head), single cylinder
Displacement	272 cm ³ (16.6 cu-in)
Max. horsepower	7.0 HP (5.22 kW) at 3600 rpm
Max. torque	14.7 Nm (1.5 kg·m) at 3600 rpm
Carburetor	Horizontal, butterfly valve
Cooling system	Forced-air
Ignition system	Transistorized magneto or CDI
Lubricating system	Splash system
Starting system	Recoil or electric starter
Stopping system	Ground switch
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	6.0 L
Fuel consumption	285 g/HPh
PTO shaft rotation	Counterclockwise (from PTO shaft side)

CYLINDER BLOCK AND HEAD	
Compression ratio	6.5:1
Bore x Stroke	76 X 60 mm (3.0 x 2.4 in)
Sleeve internal diameter	76.000-76.017 mm (2.9921-2.9928 in)
Piston skirt outer diameter	75.97-76.00 mm (2.991-2.992 in)
Cylinder Head	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	Side valve type
Valves	2

MAINTENANCE DATA	
Engine	
Idle speed	1400 ± 150 rpm
Cylinder compression	5.3 kg/cm ² (75 psi)
Adjust timing ignition	Ignition timing 20° B.T.D.C. (Magneto ignition; CDI type does not require adjustment)
Adjust valve clearance	Intake valve 0.08-0.16 ± 0.02 mm (0.0031-0.0063 in), Exhaust valve 0.11-0.19 ± 0.02 mm (0.0043-0.0075 in)
Oil system	
Oil type	Honda 4-stroke "SE"

Recommended oil	10W-40
Oil capacity	1.2 L (2.54 US pt.)

Carburetor	
Main jet	#88
Float height	8.2 mm (0.32 in)

Ignition system	
Spark plug	NGK: B4H, BR4HS for magneto ignition; NGK: BP4HS-10, BPR4HS-10 for CDI ignition
Spark plug gap	0.6-0.7 mm (0.024-0.028 in) for magneto ignition; 0.9-1.0 mm (0.035-0.039 in) for CDI ignition

TIGHTENING TORQUE SPECS	
Fuel valve (12 mm)	12-15 Nm; 1.2-1.5 kg·m; 8.7-10.8 ft·lb
Flywheel (16 mm)	110-120 Nm; 11.0-12.0 kg·m; 80-87 ft·lb
Cylinder head	24-26 Nm; 2.4-2.6 kg·m; 17-19 ft·lb
Tappet cover (6 mm)	8-12 Nm; 0.8-1.2 kg·m; 5.8-8.7 ft·lb
Crankcase cover (8 mm)	20-24 Nm; 2.0-2.4 kg·m; 15-17 ft·lb
Connecting rod	12.6-15.4 Nm; 1.26-1.54 kg·m; 9.1-11 ft·lb
Fuel tank (8 mm)	20-28 Nm; 2.0-2.8 kg·m; 15-20 ft·lb
Oil drain plug	15-25 Nm; 1.5-2.5 kg·m; 11-18 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