

<b>Engine Specifications</b>	
Model	G150
Type	4-stroke, side valve type (L-head), single cylinder
Displacement	144 cm <sup>3</sup> (8.8 cu-in)
Max. horsepower	CDI: 3.5 HP (2.6 kW) at 3600 PRM; Magneto ignition: 3.8 HP (2.8 kW) at 3600 PRM
Max. torque	Crankshaft PTO type: CDI - 7.1 Nm (0.72 kg·m) at 3000 PRM, Magneto ignition - 7.4 Nm (0.76 kg·m) at 3000 PRM; Camshaft PTO type: CDI - 14.2 Nm (1.44 kg·m) at 1500 PRM, Magneto ignition - 14.8 Nm (1.52 kg·m) at 1500 PRM
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	2.5 L (0.66 US gal, 0.55 Imp gal.)
Fuel consumption	310 g/HPh

PTO shaft rotation	Counterclockwise (from PTO shaft side)
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<b>CYLINDER BLOCK AND HEAD</b>	
Compression ratio	6.5:1
Bore x Stroke	64 x 45 mm (2.52 x 1.77 in)
Sleeve internal diameter	64.00 mm (2.52 in)
Piston skirt outer diameter	64.00 mm (2.52 in)
<b>Cylinder Head</b>	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	Side valve type (L-head)
Valves	2

<b>MAINTENANCE DATA</b>	
<b>Engine</b>	
Maximum speed	3850 ± 150 rpm
Idle speed	1400 ± 150 rpm
Cylinder compression	6.0 kg/cm <sup>2</sup> (85 psi)
Adjust timing ignition	Ignition timing 24° B.T.D.C. (Magneto ignition), 20° B.T.D.C. (Fixed) for Contact breaker point (CDI type does not require adjustment)

Adjust valve clearance	Intake valve 0.08-0.16 mm (0.0031-0.0063 in), Exhaust valve 0.16-0.24 mm (0.0063-0.0094 in)
<b>Oil system</b>	
Oil type	Honda 4-stroke "SE"
Recommended oil	10W-40
Oil capacity	0.7 L (1.5 US pt. 1.2 Imp. pt.)

<b>Carburetor</b>	
Main jet	#70
Float height	8.2 mm (0.32 in)
Pilot screw opening	1-5/8 turns out

<b>Ignition system</b>	
Spark plug	NGK: B4H, BR4HS
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)
Spark plug cap resistance	10 k $\Omega$
Ignition coil (Contact breaker piont type)	Resistance in secondary coil: 6.6 k $\Omega$
Ignition coil (Transistorized magneto type)	Primary ignition coil resistance: 0.9 k $\Omega$ , Secondary ignition coil resistance: 6.5 k $\Omega$ , Ignition coil air gap: $0.3 \pm 0.1$ (0.012 $\pm$ 0.004)

<b>TIGHTENING TORQUE SPECS</b>	
Air cleaner case nut (M6x10)	10 Nm; 1.0 kg·m; 7 ft·lb
Air cleaner case bolt (M6x70)	2.5 Nm; 0.25 kg·m; 1.8 ft·lb
Connecting rod bolt (M7x35)	12 Nm; 1.2 kg·m; 8.6 ft·lb
Cylinder head bolt (M8x45)	25 Nm; 2.5 kg·m; 18 ft·lb
Cylinder barrel stud (M8)	4 Nm; 0.4 kg·m; 2.9 ft·lb
Crankcase cover bolt (M6x32)	10 Nm; 1.0 kg·m; 7 ft·lb
Control lever bolt (M6x12)	10 Nm; 1.0 kg·m; 7 ft·lb
Fan cover (M6x12)	10 Nm; 1.0 kg·m; 7 ft·lb
Flywheel nut (M14x1.5)	75 Nm; 7.5 kg·m; 54 ft·lb
Fuel cock bolt (M6x12)	10 Nm; 1.0 kg·m; 7 ft·lb
Fuel tank bolt, nut (M6x10)	10 Nm; 1.0 kg·m; 7 ft·lb
Ignition coil bolt (M6x32)	10 Nm; 1.0 kg·m; 7 ft·lb
Muffler mounting nut (M8x12.5)	12 Nm; 1.2 kg·m; 8.6 ft·lb
Muffler protector mounting nut (M6x8)	5 Nm; 0.5 kg·m; 3.6 ft·lb
Oil drain bolt (M12)	20 Nm; 2.0 kg·m; 14.5 ft·lb
Side plate (M6x12)	10 Nm; 1.0 kg·m; 7 ft·lb
Shroud (M6x12)	10 Nm; 1.0 kg·m; 7 ft·lb
Tappet room cover bolt (M6x12)	14 Nm; 1.4 kg·m; 10 ft·lb

<b>Others</b>	
5 mm bolts, nuts	5.5 Nm; 0.55 kg·m; 4.0 ft·lb
6 mm bolts, nuts	10 Nm; 1.0 kg·m; 7 ft·lb
8 mm bolts, nuts	24 Nm; 2.4 kg·m; 17 ft·lb
10 mm bolts, nuts	37 Nm; 3.7 kg·m; 27 ft·lb
12 mm bolts, nuts	55 Nm; 5.5 kg·m; 39.5 ft·lb