

<b>Engine Specifications</b>	
Model	GXV160
Type	4-stroke, OHV, single cylinder
Displacement	163 cm <sup>3</sup> (9.9 cu-in)
Max. horsepower	5.5 HP (4.4 kW) at 3,600 rpm
Max. torque (crank PTO)	10.8 Nm (1.1 kg·m, 7.96 ft·lb) at 2,500 rpm
Carburetor	Horizontal type, butterfly valve
Cooling system	Forced-air
Ignition system	Transistorized magneto ignition
Lubricating system	Forced splash
Starting system	Recoil starter / Self starter
Stopping system	Ignition primary circuit ground
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	2.0 L (0.52 US qt)
Fuel consumption	250 g/HPh
PTO shaft rotation	Counterclockwise (from PTO shaft side)
<b>CYLINDER BLOCK AND HEAD</b>	
Compression ratio	8.0:1
Bore x Stroke	68 X 45 mm (2.7 x 1.8 in)

Sleeve internal diameter	68.000 mm (2.677 in)
Piston skirt outer diameter	67.985 mm (2.6766 in)
Number of piston rings (compression / oil)	2 / 1
Ring side clearance	Top: 0.030-0.065 mm (0.0012-0.0026 in) Second: 0.030-0.065 mm (0.0012-0.0026 in)
Ring end gap	Top/Second: 0.20-0.40 mm (0.008-0.016 in) Oil: 0.15-0.35 mm (0.006-0.014 in)
Ring width	Top/Second: 1.5 mm (0.06 in) Oil: 2.5 mm (0.10 in)
Connecting rod small end ID	18.005 mm (0.7087 in)
Connecting rod big end ID	30.02 mm (1.182 in)
Piston pin outer diameter	18.0 mm (0.7087 in)
Crankshaft crank pin outer diameter	29.98 mm (1.180 in)
<b>Cylinder Head</b>	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2
Stem outer diameter (standard)	INTAKE: 5.480 mm (0.216 in) EXHAUST: 5.440 mm (0.214 in)
Valve spring free length	34.0 mm (1.339 in)
Camshaft outer diameter	13.984 mm (0.5506 in)
Cam height	INTAKE: 27.70 mm (1.09 in) EXHAUST: 27.75 mm (1.093 in)

<b>TIGHTENING TORQUE SPECS</b>	
Connecting rod lower cap	12 Nm; 1.2 kg·m; 9 ft·lb
Cylinder head bolt	24 Nm; 2.4 kg·m; 17 ft·lb
Flywheel nut	75 Nm; 7.5 kg·m; 54 ft·lb
Pivot adjusting nut	10 Nm; 1.0 kg·m; 7 ft·lb
Pivot bolt	24 Nm; 2.4 kg·m; 17 ft·lb
Oil filter extension	10 Nm; 1.0 kg·m; 7 ft·lb
Oil drain bolt	18 Nm; 1.8 kg·m; 13 ft·lb
Oil pan	24 Nm; 2.4 kg·m; 17 ft·lb
<b>Standard torque values</b>	
Bolt, nut (5 mm)	5.5 Nm; 0.55 kg·m; 4.0 ft·lb
Bolt, nut (6 mm)	10 Nm; 1.0 kg·m; 7 ft·lb
Bolt, nut (8 mm)	24 Nm; 2.4 kg·m; 17 ft·lb
Bolt, nut (10 mm)	37.5 Nm; 3.75 kg·m; 27 ft·lb
Bolt, nut (12 mm)	55 Nm; 5.5 kg·m; 40 ft·lb
<b>SERVICE INFORMATION</b>	
<b>Engine</b>	
Maximum speed	3,200 ± 100 rpm
Idle speed	1,700 ± 150 rpm

Cylinder compression	5.0-8.0 kg/cm <sup>2</sup> (71-114 psi) at 600 rpm
<b>Valve clearance</b>	
Intake valve clearance	0.15±0.02 mm (0.006±0.001 in)
Exhaust valve clearance	0.20±0.02 mm (0.008±0.001 in)
<b>Oil system</b>	
Oil type	Honda 4-stroke or an equivalent (SE or SF)
Recommended oil	SAE 10W-30
Oil capacity	0.6 L (0.63 US. qt, 0.53 Imp. qt.)
<b>Carburetor</b>	
Main jet	#70
Float height	12.2-15.2 mm (0.48-0.60 in)
Pilot screw opening	2 turns out
<b>Ignition system</b>	
Ignition timing	20° B.T.D.C. (Fixed)
Spark plug	NGK: BP5ES, BPR5ES NIPPONDENSO: W16EP-U, W16EPR-U
Spark plug gap	0.7-0.8 mm (0.028-0.031 in)
Primary ignition coil resistance	0.7-0.9 Ω
Secondary ignition coil resistance	6.3-7.7 kΩ
Ignition coil air gap	0.4 ± 0.2 mm (0.016 ± 0.008 in)