

Category	Specifications
Engine Specifications	
Model	GXV57
Type	4-stroke, OHV, single cylinder
Displacement	57 cm ³ (3.48 cu-in)
Max. horsepower	2.0 HP (1.5 kW) at 4,800 rpm
Max. torque (crank PTO)	3.2 N·m (0.33 kg·m, 2.36 ft·lb) at 4,600 rpm
Carburetor	Horizontal type, butterfly valve
Cooling system	Forced-air
Ignition system	Transistorized magneto ignition
Lubricating system	Splash
Starting system	Recoil starter
Stoping system	Ignition primary circuit ground
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	0.27 L
Fuel consumption	250 g/HPh
PTO shaft rotation	Counterclockwise (from PTO shaft side)
CYLINDER BLOCK AND HEAD	
Compression ratio	8.0:1

Bore x Stroke	45.0 mm X 36 mm (1.77 x 1.42 in)
Sleeve internal diameter	45.000-45.015 mm (1.7717-1.7722 in)
Piston skirt outer diameter	44.970-44.990 mm (1.7705-1.7713 in)
Ring side clearance	Top/second 0.015-0.050 mm (0.0006-0.0020 in)
Ring end gap	Top 0.10-0.25 mm (0.0039-0.0138 in)
	Second 0.25-0.40 mm (0.098-0.0157 in)
Ring width	Top 0.97-0.99 mm (0.038-0.039 in)
	Second 0.97-0.99 mm (0.038-0.039 in)
Connecting rod small end ID	10.006-10.007 mm (0.3939-0.3944 in)
Connecting rod big end ID	15.000-15.011 mm (0.5906-0.5910 in)
Crankpin outer diameter	14.973-14.984 mm (0.5895-0.5899 in)
Cylinder Head	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2
Stem outer diameter (standard)	INTAKE 3.970-3.985 mm (0.1563-0.1569 in)
	EXHAUST 3.935-3.950 mm (0.1549-0.1555 in)
Spring free length	23.7.0 mm (0.93 in)
Cam height	27.972 mm (1.1013 in)

TIGHTENING TORQUE SPECS	
Spark plug	12 Nm; 1.2 kg·m; 8.6 ft·lb
Connecting rod bolt	6 Nm; 0.6 kg·m; 4.3 ft·lb
Crankcase cover bolt	7.5 Nm; 0.75 kg·m; 5.4 ft·lb
Oil case bolt	7.5 Nm; 0.75 kg·m; 5.4 ft·lb
Flywheel nut	24 Nm; 2.4 kg·m; 18 ft·lb
Ignition coil bolt	7.3 Nm; 0.75 kg·m; 5.4 ft·lb
Carburetor drain screw	1.2 Nm; 0.12 kg·m; 0.9 ft·lb
Others	
4 mm bolts, nuts	3.5 Nm; 0.35 kg·m; 2.5 ft·lb
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
SERVICE INFORMATION	
Engine	
Maximum speed	4,250 ± 150 rpm
Idle speed	2,200 ± 200 rpm
Cylinder compression	2.8 kg/cm ² (39.8 psi) at 1000 rpm
Valve clearance	
Intake valve	0.06-0.10 mm (0.0024-0.0039 in)

Exhaust valve	0.09-0.13 mm (0.0035-0.0051 in)
Oil system	
Oil type	Honda 4-stroke or an equivalent (SE or SF)
Recommended oil	SAE 10W-30
Oil capacity	0.25 l (0.26 US. qt, 0.22 Imp. qt.)
Ignition system	
Ignition timing	21° B.T.D.C.
Spark plug	NGK: CR4HSB
	DENSO: U14FSR-UB
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)
Spark plug tightening torque	12 Nm; 1.2 kg·m; 8.6 ft·lb
Primary ignition coil resistance	0.98-1.20 kΩ
Secondary ignition coil resistance	8-10 kΩ
Ignition coil air gap	0.3-0.5 mm (0.012-0.020 in)
Carburetor	
Main jet	#50
Float height	12 mm (0.47 in)
Pilot screw opening	1-5/8 turns out