

GENERAL INFORMATION

Specification	Details
Model	GXH50
Type	4-stroke, OHV, single cylinder
Displacement	49 cm ³ (2.99 cu-in)
Max. horsepower	Net: 2.1 HP (1.6 kW) at 7,000 rpm
	Gross: 2.5 PS (1.8 kW) at 7,000 rpm
Max. torque (crank PTO)	Net: 2.7 N·m (0.27 kg·m, 2.0 ft·lb) at 4,500 rpm
	Gross: 3.04 N·m (0.31 kg·m, 2.25 ft·lb) at 4,500 rpm
Carburetor	Float type
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	1.2 L (0.32 US gal, 0.26 Imp gal)
Fuel consumption	240 g/HPh
PTO shaft rotation	Counterclockwise (from PTO shaft side)

CYLINDER BLOCK AND HEAD

Cylinder Block

Specification	Details
Compression ratio	8.0:1
Bore x Stroke	41.8 mm X 36 mm (1.65 x 1.42 in)
Sleeve internal diameter	41.800-41.815 mm (1.6445-1.6463 in)
Piston skirt outer diameter	41.770-41.790 mm (1.6445-1.6453 in)
Ring side clearance	Top/second 0.015-0.050 mm (0.0006-0.0020 in)
Ring end gap	Top 0.15-0.30 mm (0.0059-0.0118 in)
	Second 0.15-0.30 mm (0.0059-0.0118 in)
Ring width	Top 0.77-0.79 mm (0.030-0.031 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

Specification	Details
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

Component	Torque (Nm)	Torque (kg·m)	Torque (ft·lb)
Spark plug	12	1.2	8.6
Connecting rod bolt	6	0.6	4.3
Crankcase cover bolt	7.5	0.75	5.4
Oil case bolt	7.5	0.75	5.4
Flywheel nut	22	2.2	16
Ignition coil bolt	6	0.6	5
Carburetor drain screw	1.2	0.12	0.9
Carburetor drain bolt	4.5	0.45	3.3
Others			
4 mm bolts, nuts	3.5	0.35	2.5
5 mm bolts, nuts	5.5	0.55	4.0
6 mm bolts, nuts	10	1.0	7

SERVICE INFORMATION

Service	Details
Maximum speed	7,800 ± 150 rpm
Idle speed	2,500 ± 200 rpm
Cylinder compression	4.3 kg/cm ² (61 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 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: 30° B.T.D.C.
	Spark plug: NGK CR5HSB
	Spark plug gap: 0.6-0.7 mm (0.024-0.028 in)
	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: #55
	Float height: 12 mm (0.47 in)