

Engine Specifications:

Parameter	Value
Model	GX25
Type	4-stroke, OHC, single cylinder
Displacement	25 cm ³ (1.5 cu-in)
Max. horsepower	1.1 PS (0.81 kW) at 7,000 rpm
Max. torque	1.25 Nm (0.13 kg·m, 0.94 ft·lb) at 5,000 rpm
Carburetor	Diaphragm type
Cooling system	Forced-air
Ignition system	Transistorized magneto ignition
Lubricating system	Oil mist
Starting system	Recoil starter
Stopping system	Ignition primary circuit ground
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	0.55 L (0.14 US gal, 0.12 Imp gal)
Fuel consumption	340 g/kWh (250 g/HPh, 0.55 lb/HPh)
PTO shaft rotation	Counterclockwise (from PTO shaft side)

Cylinder Block and Head:

Parameter	Value
Compression ratio	8.0:1
Bore x Stroke	35 X 26 mm (1.4 x 1.0 in)
Sleeve internal diameter	35.00 mm (1.378 in)
Piston skirt outer diameter	34.970-34.990 mm (1.377-1.378 in)
Connecting rod small end ID	7.978-7.989 mm (0.3141-0.3145 in)
Ring end gap	Top/second 0.10-0.25 mm (0.004-0.010 in)
Ring width	Top/second 0.970-0.990 mm (0.038-0.039 in)
Side clearance	Top/second 0.015-0.056 mm (0.0006-0.0022 in)
Warpage (max)	0.2 mm (0.01 in)
Valve Arrangement	OHV
Valves	2
Stem outer diameter (standard)	INTAKE 3.470-3.485 mm (0.1366-0.1372 in)
	EXHAUST 3.435-3.450 mm (0.1352-0.1358 in)

Tightening Torque Specs:

Part	Torque Values
Lower crankcase	6.4 Nm; 0.7 kg·m; 5.1 ft·lb
Fan cover	6.4 Nm; 0.7 kg·m; 5.1 ft·lb
Reed valve plate	3.9 Nm; 0.4 kg·m; 2.9 ft·lb

Ignition coil	3.9 Nm; 0.4 kg·m; 2.9 ft·lb
Recoil starter pulley	6.4 Nm; 0.7 kg·m; 4.6 ft·lb
Flywheel	14.7 Nm; 1.5 kg·m; 10.8 ft·lb
Valve adjusting lock nut	4.9 Nm; 0.5 kg·m; 3.6 ft·lb
Spark plug	11.8 Nm; 1.2 kg·m; 8.7 ft·lb

Maintenance Data:

Parameter	Value
Idle speed	3100 ± 200 rpm
Cylinder compression	9.2-11.2 kg/cm ² (131-159 psi) at 2,000 rpm
Valve clearance	Intake valve 0.08 ± 0.02
	Exhaust valve 0.11 ± 0.02

Carburetor:

Parameter	Value
Main jet	#35 (SAU and SAUT types)
	#34 (For others)

Oil System:

Parameter	Value
Oil type	Honda 4-stroke or an equivalent (SG, SF)

Recommended oil	SAE 10W-30
Oil capacity	0.08 L (2.7 US oz, 2.8 Imp oz)

Ignition System:

Parameter	Value
Ignition timing	30 ° B.T.D.C (Fixed)
Spark plug	NGK: CMR8H
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)
Primary ignition coil resistance	0.7-0.9 Ω
Secondary ignition coil resistance	6.1-9.3 k Ω
Ignition coil air gap	0.35-0.5 mm (0.014-0.020 in)