

## Engine Specifications:

<b>Parameter</b>	<b>Value</b>
Model	GX35
Type	4-stroke, OHC, single cylinder
Displacement	35.8 cm <sup>3</sup> (2.2 cu-in)
Max. horsepower	1.6 PS (1.21 kW) at 7,000 rpm
Max. torque	1.9 Nm (0.19 kg·m, 1.4 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	0.65 L (0.17 US gal, 0.14 Imp gal)
Fuel consumption	360 g/kWh (265 g/HPh, 0.58 lb/HPh)
PTO shaft rotation	Counterclockwise (from PTO shaft side)

## Cylinder Block and Head:

Parameter	Value
Compression ratio	8.0:1
Bore x Stroke	39 X 30 mm (1.5 x 1.2 in)
Sleeve internal diameter	39.00 mm (1.535 in)
Piston skirt outer diameter	38.970-38.990 mm (1.534-1.535 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	OHC
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	3.0 Nm; 0.3 kg·m; 2.2 ft·lb

Ignition coil	3.4 Nm; 0.35 kg·m; 2.5 ft·lb
Recoil starter pulley	6.4 Nm; 0.7 kg·m; 4.6 ft·lb
Flywheel	22.6 Nm; 2.3 kg·m; 16.7 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
Clutch bolt	15.2 Nm; 1.5 kg·m; 11 ft·lb

#### Maintenance Data:

Parameter	Value
Idle speed	3100 ± 200 rpm
Cylinder compression	9.2-11.2 kg/cm <sup>2</sup> (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	#38 (SAU, SAUT and SUT types)
	#37 (For others)

### Oil System:

<b>Parameter</b>	<b>Value</b>
Oil type	Honda 4-stroke or an equivalent (SG, SF)
Recommended oil	SAE 10W-30
Oil capacity	0.10 L (3.4 US oz, 3.5 Imp oz)

### Ignition System:

<b>Parameter</b>	<b>Value</b>
Ignition timing	27 ° 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 $\Omega$
Secondary ignition coil resistance	6.1-9.3 k $\Omega$
Ignition coil air gap	0.2-0.4 mm (0.008-0.016 in)