

Engine Specifications	
Model	GX270
Type	4-stroke, OHV, single cylinder, inclined by 25°
Displacement	270 cm ³ (16.5 cu-in)
Max. Horsepower	9.12 PS (9.0 HP, 6.7 kW) at 3600 rpm
Max. Torque (Crank PTO)	19.5 Nm (1.95 kg·m, 14 ft·lb)
Carburetor	Horizontal type, butterfly valve
Cooling System	Forced-air
Ignition System	Transistorized magneto ignition
Lubricating System	Splash
Starting System	Recoil or electric starter
Stopping System	Ignition primary circuit ground
Fuel Used	Unleaded gasoline (octane number 86 or higher)
Fuel Tank Capacity	6.0 L (1.59 US gal, 1.32 Imp gal)
Fuel Consumption	313 g/kWh (230 g/HPh, 0.51 lb/HPh)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)

Dimensions and Weight (mm/in)	GX270
Type S	Type Q
Length	355 (14.0)
Width	430 (16.9)
Height	410 (16.1)

Dry Weight (kg/lb)	25 (55.1)	25 (55.1)	26.5 (58.4)	30 (66.1)	26.5 (58.4)	25 (55.1)	25 (55.1)	25 (55.1)
Operating Weight (kg/lb)	30 (66.1)	30 (66.1)	31.5 (69.4)	35 (77.2)	31.5 (69.4)	30 (66.1)	30 (66.1)	30 (66.1)

Cylinder Block and Head	
Compression Ratio	8.2
Bore x Stroke	77 X 58 mm (3.0 x 2.3 in)
Sleeve Internal Diameter	77.00 mm (3.031 in)
Piston Skirt Outer Diameter	76.985 mm (3.0309 in)
Number of Piston Rings (Compression / Oil)	2 / 1
Ring Side Clearance	Top/Second/Oil 0.015-0.045 mm (0.0006-0.0018 in)
Ring End Gap	Top/Second 0.2-0.4 mm (0.01-0.02 in), Oil 0.2-0.7 mm (0.01-0.03 in)
Ring Width	Top/Second 2.0 mm (0.08 in)

Crankshaft Outer Diameter	32.985 mm (1.2986 in)
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Cylinder Head	
Warpage (Limit)	0.10 mm (0.004 in)
Valve Arrangement	Overhead valve
Valves	2
Stem Outer Diameter (Standard)	INTAKE 6.59 mm (0.259 in), EXHAUST 6.55 mm (0.258 in)
Cam Height	INTAKE 31.52-31.92 mm (1.241-1.257 in), EXHAUST 31.56-31.96 mm (1.243-1.258 in)
Camshaft Outer Diameter	15.984 mm (0.6293 in)

Maintenance Data	
Engine Maximum Speed	3850 ± 150 rpm
Idle Speed	1400 ± 150 rpm
Cylinder Compression	6.0-8.5 kg/cm ² (85-151 psi) at 600 rpm
Valve Clearance	Intake valve 0.15 ± 0.02 (0.006 ± 0.001), Exhaust valve 0.20 ± 0.02 (0.008 ± 0.001)

Carburetor	
Main Jet	Externally vented carburetor bowl: #88, Internally vented carburetor bowl: #95
Float Height	13.2 mm (0.52 in)
Pilot Screw Opening	2

Oil System	
Oil Type	Honda 4-stroke or an equivalent (SG.SF/CC.CD)
Recommended Oil	SAE 10W-30
Oil Capacity	1.1 L (1.16 US gal, 0.97 Imp qt)

Ignition System	
Ignition Timing	20 ° B.T.D.C (Fixed)
Spark Plug	NGK: BP6ES, BPR6ES; NIPPONDENSO: W20EP-U, W20EPR-U
Spark Plug Gap	0.7-0.8 mm (0.028-0.031 in)
Spark Plug Cap	7.5-12.5 kΩ
Primary Ignition Coil Resistance	0.8-1.0 kΩ
Secondary Ignition Coil Resistance	5.9-7.1 kΩ
Ignition Coil Air Gap	0.4 ± 0.2 (0.016 ± 0.008)

Starter Motor	
Brush Length	7.2 mm (0.28 in) limit: 3.5 mm (0.14 in)
Mica Depth	1.0 mm (0.04 in) limit: 0.2 mm (0.01 in)

Tightening Torque Specs	
Connecting Rod Bolt (M8x1.25 Special)	14 Nm; 1.4 kg·m; 10 ft·lb
Cylinder Head Bolt (M10x1.25)	35 Nm; 3.5 kg·m; 25 ft·lb
Flywheel Nut (M16x1.5 Special)	115 Nm; 11.5 kg·m; 83 ft·lb
Rocker Arm Pivot Lock Nut (M6x0.5)	10 Nm; 1.0 kg·m; 7 ft·lb
Rocker Arm Pivot Bolt (M8x1.25 Special)	24 Nm; 2.4 kg·m; 17 ft·lb
Crankcase Cover Bolt (M8x1.25)	24 Nm; 2.4 kg·m; 17 ft·lb
Oil Level Switch Joint Nut (M10x1.25)	10 Nm; 1.0 kg·m; 7 ft·lb
Fuel Filter Joint Nut (M10x1.25)	2 Nm; 0.2 kg·m; 1.4 ft·lb
Muffler Mounting Nut (M8x1.25)	24 Nm; 2.4 kg·m; 17 ft·lb
Air Cleaner Wing Nut (M6x1.0)	9 Nm; 0.9 kg·m; 6.5 ft·lb
Oil Drain Bolt (M12x1.5)	23 Nm; 2.3 kg·m; 17 ft·lb
Fuel Tank Bolt (M8x1.25)	24 Nm; 2.4 kg·m; 17 ft·lb
Air Cleaner Mounting Nut (M6x1.0)	10 Nm; 1.0 kg·m; 7 ft·lb
Fuel Strainer Cup (M24x1.0)	4 Nm; 0.4 kg·m; 2.9 ft·lb

Standard Torque Values	
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