

<b>Engine Specifications</b>	<b>GX340K1</b>
Model	GX340K1
Type	4-stroke, OHV, single cylinder, inclined by 25°
Displacement	337 cm <sup>3</sup> (20.6 cu-in)
Max. Horsepower	11.0 HP (8.2 kW) at 3,600 rpm
Max. Torque (Crank PTO)	24 Nm (2.4 kg·m, 17.0 ft·lb) at 2,500 rpm
Carburetor	Horizontal type, butterfly valve
Cooling System	Forced-air
Ignition System	Transistorized magneto ignition
Lubricating System	Forced splash
Starting System	Recoil and Starter motor
Stopping System	Ignition primary circuit ground
Fuel Used	Unleaded gasoline (octane number 86 or higher)
Fuel Consumption	6.5 Liters (1.72 US gal, 1.43 Imp gal) / h
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)

<b>Dimensions and Weight (mm/in)</b>	<b>Honda GX340K1 (Type S)</b>
Length	380 (15.0)
Width	450 (17.7)
Height	443 (17.4)
Dry Weight (kg/lb)	31.0 (68.3)
Operating Weight (kg/lb)	37.0 (81.6)

<b>Cylinder Block and Head</b>	
Compression Ratio	8.0:1
Bore x Stroke	82 X 64 mm (3.2 x 2.5 in)
Sleeve Internal Diameter	82.000 mm (3.228 in)
Piston Skirt Outer Diameter	81.985 mm (3.2277 in)
Number of Piston Rings (Compression / Oil)	2 / 1
Ring Side Clearance	Top/Second 0.030 – 0.060 (0.0012 – 0.0024)
Ring End Gap	Top 0.20 – 0.40 mm (0.01 – 0.02 in), Second 0.20 – 0.40 mm (0.01 – 0.02 in), Oil (Side Rail) 0.20 – 0.70 mm (0.01 – 0.03 in)
Ring Width	Top 2.0 mm (0.08 in), Second 2.0 mm (0.08 in)
Connecting Rod Small End I.D.	20.005 mm (0.7876 in)
Connecting Rod Big End I.D.	36.025 mm (1.4183 in)
Crankshaft Outer Diameter	35.985 mm (1.4167 in)

<b>Cylinder Head</b>	
Warpage (Limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2
Stem Outer Diameter (Standard)	INTAKE 6.590 mm (0.2594 in), EXHAUST 6.550 mm (0.2579 in)
Guide Inner Diameter	INTAKE/EXHAUST 6.60 mm (0.6260 in)
Cam Height	INTAKE 31.85-32.25 mm (1.254-1.270 in), EXHAUST 31.57-31.97 mm (1.243-1.259 in)
Camshaft Outer Diameter	15.984 mm (0.6293 in)

<b>Tightening Torque Specs</b>	
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

<b>Standard Torque Values</b>	
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

<b>Maintenance Data</b>	
Maximum Speed	3850 ± 150 rpm
Idle Speed	1400 ± 150 rpm
Cylinder Compression	6.0-8.5 kg/cm <sup>2</sup> (85-121 psi, 0.59 – 0.83 MPa) at 600 rpm
Valve Clearance	Intake 0.15 ± 0.02 (0.006 ± 0.001), Exhaust 0.20 ± 0.02 (0.008 ± 0.001)

<b>Carburetor</b>	
Main Jet	Externally vented carburetor bowl: #88, Internally vented carburetor bowl: #108
Float Height	13.2 mm (0.52 in)
Pilot Screw Opening	Externally vented carburetor bowl: 2-1/2, Internally vented carburetor bowl: 3

<b>Oil System</b>	
Oil Type	Honda 4-stroke or an equivalent (SE or later)
Recommended Oil	SAE 10W-30
Oil Capacity	1.1 L (1.16 US qt, 0.97 Imp qt)

<b>Ignition System</b>	
Ignition Timing	B.T.D.C. 25° (Fixed)
Spark Plug	NGK: BP6ES, BPR6ES, DENSO: W20EP-U, W20EPR-U
Spark Plug Gap	0.7-0.8 mm (0.028-0.031 in)

<b>Starter Motor</b>	
Brush Length	7.0 mm (0.28 in) limit: 3.5 mm (0.14 in)
Mica Depth	1.0 mm (0.04 in) limit: 0.2 (0.01)