

<b>Engine Specifications</b>	<b>GX340 R2/RT2/T2/U2/UT2</b>
Model	GX340 R2/RT2/T2/U2/UT2
Description Code	GCBKK, GCBET, GCBFT, GCBKK, GCBET
Type	4-stroke, OVH, single cylinder, inclined by 25°
Displacement	389 cm <sup>3</sup> (23.7 cu-in)
Max. Horsepower	10.7 HP (8.0 kW) at 3,600 rpm
Max. Torque (Crank PTO)	26.4 Nm (2.69 kg·m, 19.5 ft·lb) at 2,500 rpm
Carburetor	Horizontal type, butterfly valve
Cooling System	Forced-air
Ignition System	C.D.I. (Capacitor Discharge Ignition) type magneto ignition
Lubricating System	Forced splash
Starting System	Recoil, Recoil and Starter motor
Stopping System	Ignition exciter coil circuit open
Fuel Used	Unleaded gasoline (octane number 86 or higher)
Fuel Consumption	3.1 L (0.82 US gal, 0.68 Imp gal) / h
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)

<b>Cylinder Block and Head</b>	
Compression Ratio	8.2:1
Bore x Stroke	88 X 64 mm (3.5 x 2.5 in)
Sleeve Internal Diameter	88.000-88.017 mm (3.4646-3.4652 in)
Piston Skirt Outer Diameter	87.965-87.985 mm (3.4632-3.4640 mm)
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 0.20-0.35 mm (0.0079-0.0138 in), Second 0.35-0.50 mm (0.0138-0.0197 in), Oil (Side Rail) 0.2-0.7 mm (0.01-0.03 in)
Ring Width	Top 1.160-1.175 mm (0.0457-0.0463 in), Second 1.160-1.175 mm (0.045-0.0463 in)
Piston Pin Outer Diameter	19.994-20.000 mm (0.7872-0.7874 in)
Connecting Rod Small End Inner Diameter	20.005-20.020 mm (0.7876-0.7882 in)
Connecting Rod Big End Inner Diameter	36.025-36.039 mm (1.4183-1.4189 in)
Crankpin Outer Diameter	35.975-35.985 mm (1.4163-1.4167 in)

<b>Cylinder Head</b>	
Warpage (Limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2
Stem Outer Diameter (Standard)	INTAKE 6.575-6.590 mm (0.2589-0.2594 in), EXHAUST 6.535-6.550 mm (0.2573-0.2579 in)
Cam Height	INTAKE 31.945-32.145 mm (1.2577-1.2655 in), EXHAUST 31.666-31.866 mm (1.2467-1.2546 in)
Camshaft Outer Diameter	15.966-15.984 mm (0.6286-0.6293 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	5.2-7.0 kg/cm <sup>2</sup> (74-100 psi, 0.51-0.69 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	#98
Float Height	13.2 mm (0.52 in)
Pilot Screw Opening	1 – 3/4 turns out

<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 gal, 0.97 Imp qt)

<b>Ignition System</b>	
Ignition Timing	B.T.D.C. 10° / 1,400 rpm
Spark Plug	NGK: BPR6ES, DENSO: W20EPR-U
Spark Plug Gap	0.7-0.8 mm (0.028-0.031 in)
Ignition Coil Air Gap	0.2-0.6 mm (0.01 – 0.02 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)