

<b>Engine Specifications</b>	
Model	GX160 T2 / UT2
Type	4-stroke, OHV, single cylinder inclined by 25°
Displacement	163 cm <sup>3</sup> (9.9 cu-in)
Max. Horsepower	4.9 HP (3.6 kW) at 3,600 rpm
Max. Torque (Crank PTO)	10.3 N·m (1.1 kg·m, 7.6 ft·lb) at 2,500 rpm
Carburetor	Horizontal type, butterfly valve
Cooling System	Forced-air
Ignition System	C.D.I. (Capacitor Discharge Ignition)
Lubricating System	Forced splash
Starting System	Recoil or Recoil and Starter motor
Stopping System	Ignition primary circuit ground
Fuel Used	Unleaded gasoline (octane number 86 or higher)
Fuel Tank Capacity	3.1 L (0.82 US Gal, 0.68 Imp Gal.)
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)

<b>Cylinder Block and Head</b>	
Compression Ratio	9.0:1
Bore x Stroke	68 X 45 mm (2.7 x 1.8 in)

Sleeve Internal Diameter	68.00 mm (2.68 in)
Piston Skirt Outer Diameter	67.985 mm (2.6766 in)
Number of Piston Rings (Compression / Oil)	2 / 1
Ring Side Clearance	Top 0.060-0.095 mm (0.0024-0.0037 in), Second 0.045-0.080 mm (0.0018-0.0032 in)
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) 0.10-0.35 mm (0.004-0.014 in)
Ring Width	Top 0.925-0.945 mm (0.0364-0.0372 in), Second 0.940-0.960 mm (0.0370-0.0378 in)
Connecting Rod Small End ID	18.005 mm (0.7087 in)
Connecting Rod Big End ID	30.02 mm (1.182 in)
Piston Pin Outer Diameter	13.0 mm (0.51 in)
Crankshaft Crank Pin Outer Diameter	29.98 mm (1.180 in)

<b>Cylinder Head</b>	
Warpage (Limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2
Stem Outer Diameter (Standard)	INTAKE 5.468-5.480 mm (0.2153-0.2157 in), EXHAUST 5.425-5.440 mm (0.2136-0.2142 in)
Valve Spring Free Length	30.5 mm (1.20 in)

Camshaft Outer Diameter	13.984 mm (0.5506 in)
Cam Height	INTAKE 27.503-27.903 mm (1.0828-1.0985 in), EXHAUST 27.503-27.903 mm (1.0828-1.0985 in)

<b>Tightening Torque Specs</b>	
Connecting Rod Bolt	10 Nm; 1.0 kg·m; 7 ft·lb
Cylinder Head Bolt	24 Nm; 2.4 kg·m; 17 ft·lb
Flywheel Nut	75 Nm; 7.5 kg·m; 54 ft·lb
Rocker Arm Pivot Adjusting Nut	10 Nm; 1.0 kg·m; 7 ft·lb
Rocker Arm Pivot Bolt	24 Nm; 2.4 kg·m; 17 ft·lb
Crankcase Cover Bolt	24 Nm; 2.4 kg·m; 17 ft·lb
Oil Level Switch Joint Nut	10 Nm; 1.0 kg·m; 7 ft·lb

<b>Service Information</b>	
Maximum Speed	3,900 ± 100 rpm
Idle Speed	1,400 ± 150 rpm
Cylinder Compression	5.0-7.0 kg/cm <sup>2</sup> (71-100 psi) at 600 rpm
Valve Clearance	Intake 0.08±0.02 mm (0.003±0.001 in), Exhaust 0.10±0.02 mm (0.004±0.001 in)

<b>Oil System</b>	
Oil Type	Honda 4-stroke or an equivalent (SJ or higher)

Recommended Oil	SAE 10W-30, 10W-40
Oil Capacity	0.58 L (0.61 US. qt, 0.51 Imp. qt.)

<b>Carburetor</b>	
Main Jet	BE54C, BE54P: #70, BE54D, BE66U, BE54J: #68
Float Height	13.7 mm (0.54 in)
Pilot Screw Opening	BE54C: 2-1/4 turns out, BE54P: 2-1/2 turns out, BE54D, BE66U, BE54J: 1-7/8 turns out

<b>Ignition System</b>	
Ignition Timing	18° B.T.D.C. (Fixed)
Spark Plug	NGK: BPR6ES, DENSO: W20EPR-U
Spark Plug Gap	0.7-0.8 mm (0.028-0.031 in)
Primary Ignition Coil Resistance	0.6-0.9 Ω
Secondary Ignition Coil Resistance	5.6-6.9 kΩ
Ignition Coil Air Gap	0.4 ± 0.2 (0.016 ± 0.008)

<b>Starter Motor</b>	
Brush Length	11.0 mm (0.43 in)
Mica Depth	1.6 mm (0.06 in)