

## GENERAL INFORMATION

Specification	Details
Model	GX120 T2 / UT2
Type	4-stroke, OHV, single cylinder inclined by 25°
Displacement	118 cm <sup>3</sup> (7.2 cu-in)
Max. horsepower	3.5 HP (2.6 kW) at 3,600 rpm
Max. torque (crank PTO)	7.3 N·m (0.7 kg·m, 5.4 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 starter
Stopping system	Ignition primary circuit ground
Fuel used	Unleaded gasoline (octane number 86 or higher)
Fuel tank capacity	2.0 L (0.53 US Gal, 0.44 Imp Gal.)
PTO shaft rotation	Counterclockwise (from PTO shaft side)

## CYLINDER BLOCK AND HEAD

### *Cylinder Block*

Specification	Details
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Compression ratio	8.5:1
Bore x Stroke	60 X 42 mm (2.4 x 1.7 in)
Sleeve internal diameter	60.00 mm (2.36 in)
Piston skirt outer diameter	59.985 mm (2.3616 in)
Number of piston rings	Compression: 2
	Oil: 1
Ring side clearance	Top: 0.035-0.070 mm (0.0014-0.0028 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)	0.2-0.7 mm (0.01-0.03 in)
Ring width	Top: 0.95-0.97 mm (0.0374-0.0382 in)
	Second: 0.94-0.96 mm (0.0370-0.0378 in)
Connecting rod small end ID	13.005 mm (0.5120 in)
Connecting rod big end ID	26.02 mm (1.024 in)
Piston pin outer diameter	13.0 mm (0.51 in)
Crankshaft crank pin outer diameter	25.98 mm (1.023 in)

### ***Cylinder Head***

Specification	Details
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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: 27.500-27.900 mm (1.0827-1.0984 in)
	EXHAUST: 27.547-27.947 mm (1.0845-1.1003 in)

## TIGHTENING TORQUE SPECS

Component	Torque (Nm)	Torque (kg·m)	Torque (ft·lb)
Connecting rod bolt	12	1.2	9
Cylinder head bolt	24	2.4	17
Flywheel nut	75	7.5	54
Rocker arm pivot adjusting nut	10	1.0	7
Rocker arm pivot bolt	24	2.4	17
Crankcase cover bolt	12	1.2	9
Oil level switch joint nut	10	1.0	7

## SERVICE INFORMATION

Service	Details
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 valve clearance: 0.15±0.02 mm (0.006±0.001 in)
	Exhaust valve clearance: 0.20±0.02 mm (0.008±0.001 in)
Oil system	Oil type: Honda 4-stroke or equivalent (SJ or higher)
	Recommended oil: SAE 10W-30
	Oil capacity: 0.56 L (0.59 US. qt, 0.49 Imp. qt.)
Carburetor	Main jet: BE99A - #60
	BE60W, BE61M, BE99B - #62
	Float height: 13.7 mm (0.54 in)
	Pilot screw opening: BE99A - 2 turns out
	BE60W, BE61M, BE99B - 2-3/8 turns out
Ignition system	Ignition timing: 20° B.T.D.C.
	Spark plug: NGK BPR6ES
	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: $0.4 \pm 0.2$ (
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