

## MAINTENANCE STANDARDS

Part	Item	GX120T1	
		Standard	Service limit
Engine	Maximum speed	3,900 ± 100 min <sup>-1</sup> (rpm)	—
	Idle speed	1,400 ± 150 min <sup>-1</sup> (rpm)	—
	Cylinder compression	6.0 – 8.5 kg/cm <sup>2</sup> (85 – 121 psi) at 600 min <sup>-1</sup> (rpm)	—
Cylinder	Sleeve I.D.	60.0 mm (2.36 in)	60.165 mm (2.3687 in)
Cylinder head	Warpage	—	0.10 mm (0.004 in)
Piston	Skirt O.D.	59.985 mm (2.3616 in)	59.845 mm (2.3561 in)
	Piston-to-cylinder clearance	0.015 – 0.050 mm (0.0006 – 0.0020 in)	0.12 mm (0.005 in)
	Piston pin bore I.D.	13.002 mm (0.5119 in)	13.048 mm (0.5137 in)
	Pin O.D.	13.0 mm (0.51)	12.954 mm (0.5100 in)
	Piston to piston pin bore clearance	0.002 – 0.014 mm (0.0001 – 0.0006 in)	0.08 mm (0.003 in)
Piston rings	Ring side clearance:		
	Top/second/oil	0.015 – 0.045 mm (0.0006 – 0.0018 in)	0.15 mm (0.006 in)
	Ring end gap: Top/second	0.2 – 0.4 mm (0.008 – 0.016 in)	1.0 mm (0.04 in)
	Oil	0.15 – 0.35 mm (0.006 – 0.014 in)	1.0 mm (0.04 in)
	Ring width: Top/second	1.5 mm (0.06 in)	1.37 mm (0.054 in)
Connecting rod	Oil	2.5 mm (0.10 in)	2.37 mm (0.043 in)
	Small end I.D.	13.005 mm (0.5120 in)	13.07 mm (0.515 in)
	Big end I.D.	26.02 mm (1.024 in)	26.066 mm (1.0262 in)
	Big end oil clearance	0.040 – 0.063 mm (0.0016 – 0.0025 in)	0.12 mm (0.005 in)
	Big end side clearance	0.1 – 0.7 mm (0.004 – 0.028 in)	1.1 mm (0.043 in)
Crankshaft	Crankshaft O.D.	25.98 mm (1.023 in)	25.92 mm (1.020 in)
Valves	Valve clearance	IN 0.15 ± 0.02 mm (0.006 ± 0.001 in) EX 0.20 ± 0.02 mm (0.008 ± 0.001 in)	—
	Stem O.D.	IN 5.48 mm (0.216 in) EX 5.44 mm (0.214 in)	5.318 mm (0.2094 in) 5.275 mm (0.2077 in)
	Guide I.D.	IN/EX 5.50 mm (0.217 in)	5.572 mm (0.2194 in)
	Stem clearance	IN 0.02 – 0.044 mm (0.0008 – 0.0017 in) EX 0.06 – 0.087 mm (0.0024 – 0.0034 in)	0.10 mm (0.004 in) 0.12 mm (0.005 in)
	Seat width	0.8 mm (0.03 in)	2.0 mm (0.08 in)
	Spring free length	30.5 mm (1.20 in)	29.0 mm (1.14 in)
Camshaft	Cam height	IN 27.7 mm (1.09 in) EX 27.75 mm (1.093 in)	27.45 mm (1.081 in) 27.50 mm (1.083 in)
	Camshaft O.D.	13.984 mm (0.5506 in)	13.916 mm (0.5479 in)
Crankcase cover	Camshaft holder I.D.	14.0 mm (0.55 in)	14.048 mm (0.5531 in)
Carburetor	Main jet	*#60 **#62	—
	Float height	13.7 mm (0.54 in)	—
	Pilot screw opening	*2 turns out **2-3/8 turns out	—
Spark plug	Gap	0.7 – 0.8 mm (0.028 – 0.031 in)	—
Ignition coil	Resistance	Primary coil 0.8 – 1.0 Ω Secondary coil 5.9 – 7.1 kΩ	—
	Air gap	(at flywheel) 0.4 ± 0.2 mm (0.016 ± 0.008 in)	—
Starter motor	Brush length	11.0 mm (0.43 in)	6.0 mm (0.24 in)
	Mica depth	1.6 mm (0.06 in)	1.1 mm (0.04 in)
1/2 Reduction (centrifugal clutch type)	Friction disc thickness	3.5 mm (0.14 in)	3.0 mm (0.12 in)
	Clutch plate warpage	—	0.10 mm (0.004 in)

\*: Externally vented carburetor bowl. \*\*: Internally vented carburetor bowl.  
Refer to P. 6-4 for identification of the carburetor vent type.