

Engine Specifications	
Model	GXR120 T/RT
Type	4-stroke, OHC, single cylinder
Displacement	121 cm ³ (7.4 cu-in)
Max. horsepower	3.6 HP (2.7 kW) at 3,600 rpm
Max. torque	7.5 N·m (0.8 kg·m, 5.5 ft·lb) at 2,500 rpm
Carburetor	Float type / Horizontal butterfly valve type / Diaphragm type
Cooling system	Forced-air
Ignition system	Transistorized magneto ignition
Lubricating system	Forced splash
Starting system	Recoil starter
Stopping system	Ignition primary circuit ground
Fuel used	Unleaded gasoline (octane number 86 or higher)
PTO shaft rotation	Counterclockwise (from PTO shaft side)

CYLINDER BLOCK AND HEAD	
Compression ratio	8.5:1
Bore x Stroke	60 X 43 mm (2.36 x 1.69 in)
Sleeve internal diameter	60.000-60.015 mm (2.3622-2.3628 in)
Piston skirt outer diameter	59.971-59.985 mm (2.3611-2.3616 in)
Cylinder Head	
Warpage (limit)	0.10 mm (0.004 in)
Valve Arrangement	OHV
Valves	2

TIGHTENING TORQUE SPECS	
Connecting rod bolt	10 Nm; 1.0 kg·m; 7 ft·lb
Flywheel nut	64 Nm; 6.5 kg·m; 47 ft·lb
Valve adjusting lock nut	7.5 Nm; 0.76 kg·m; 5.5 ft·lb
Oil drain plug bolt	18 Nm; 1.8 kg·m; 13 ft·lb
Crankcase cover bolt	12 Nm; 1.2 kg·m; 9 ft·lb
Muffler nut	12 Nm; 1.2 kg·m; 9 ft·lb

SERVICE INFORMATION	
Engine	
Maximum speed	4,100 ± 100 rpm
Idle speed	1,850 ± 150 rpm
Cylinder compression	5.1 kg/cm ² (73 psi) at 700 rpm
Valve clearance	Intake valve clearance 0.15±0.04 mm (0.006±0.002 in), Exhaust valve clearance 0.20±0.04 mm (0.008±0.002 in)
Oil system	
Oil type	Honda 4-stroke or an equivalent (SE or higher)
Recommended oil	SAE 10W-30
Oil capacity	0.28 L (0.30 US. qt, 0.25 Imp. qt.)

Carburetor (Float type)	
Main jet	BF33S A: #60, BF33R A: #60
Float height	15.7 mm (0.62 in)
Pilot screw opening	BF33S A: 3-1/2 turns out, BF33R A: 3-3/8 turns out

Carburetor (Floatless type)	
Main jet	#48
Pilot screw opening	2-3/4 turns out

Ignition system	
Ignition timing	25° B.T.D.C.
Spark plug	NGK: CR5HSB, DENSO: U16FSR-UB
Spark plug gap	0.7-0.8 mm (0.028-0.031 in)
Primary ignition coil resistance	0.75-0.92 Ω
Secondary ignition coil resistance	6.1-9.3 k Ω
Ignition coil air gap	0.4 \pm 0.2 (0.016 \pm 0.008) mm