

Engine Specifications	GX270 T2/UT2
Model	GX270 T2/UT2
Description Code	T2 (GCBHT), UT2 (GCBGT)
Type	4-stroke, OVH, single cylinder, inclined by 25°
Displacement	270 cm ³ (16.5 cu-in)
Max. Horsepower	8.51 PS (8.4 HP, 6.3 kW)
Max. Torque (Crank PTO)	19.1 Nm (1.94 kg·m, 14.1 ft·lb) at 2500 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	2.4 Liters (0.63 US gal, 0.53 Imp gal) / h
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)

Dimensions and Weight (mm/in)	GX270 T2	GX270 UT2
Type V	Type E	Type H
Length	400 (15.7)	340 (13.4)
Width	428 (16.9)	428 (16.9)
Height	422 (16.6)	422 (16.6)

Dry Weight (kg/lb)	25.8 (56.9)	25.0 (55.1)	26.5 (58.4)	25.8 (56.9)	25.8 (56.9)	25.8 (56.9)	25.8 (56.9)	30.0 (66.1)
Operating Weight (kg/lb)	30.5 (67.2)	39.7 (65.5)	31.5 (69.4)	30.5 (67.2)	30.5 (67.2)	30.5 (67.2)	30.5 (67.2)	35.0 (77.2)

Cylinder Block and Head	
Compression Ratio	8.5:1
Bore x Stroke	77 X 58 mm (3.0 x 2.3 in)
Sleeve Internal Diameter	77.000 – 77.017 mm (3.0315 – 3.0322 in)
Piston Skirt Outer Diameter	76.975 – 76.985 mm (3.0305 – 3.0309 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 (0.0457 – 0.0463 in)
Crankshaft Outer Diameter	32.975 – 32.985 mm (1.2982 – 1.2986 in)

Cylinder Head	
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)

Maintenance Data	
Engine Maximum Speed	3850 ± 150 rpm
Idle Speed	1400 ± 150 rpm
Cylinder Compression	6.0-8.5 kg/cm ² (85-121 psi, 0.59 – 0.83 MPa) at 600 rpm
Valve Clearance	Intake valve 0.15 ± 0.02 (0.006 ± 0.001), Exhaust valve 0.20 ± 0.02 (0.008 ± 0.001)

Carburetor	
Main Jet	#88
Float Height	13.2 mm (0.52 in)
Pilot Screw Opening	2 turns out

Oil System	
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)

Ignition System	
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)

Starter Motor	
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)

Tightening Torque Specs	
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

Standard Torque Values	
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