Design	2-cylinder 4-stroke Otto motor, 75° V arrangement, water-cooled	
Displacement	1,150 cm ³ (70.18 cu in)	
Stroke	69 mm (2.72 in)	
Bore	103 mm (4.06 in)	
Compression ratio	12,5:1	
Control	DOHC, 4 valves per cylinder, chain-driven	
Valve - diameter		
Intake	42 mm (1.65 in)	
Exhaust	34 mm (1.34 in)	
Valve clearance		
Exhaust at: 20 °C (68 °F)	0.25 0.30 mm (0.0098 0.0118 in)	
Intake at: 20 °C (68 °F)	0.10 0.15 mm (0.0039 0.0059 in)	
Crankshaft bearing	Sleeve bearing	
Conrod bearing	Sleeve bearing	
Piston pin bearing	No bearing bushes - DLC-coated piston pins	
Piston	Forged light alloy	
Piston ring	1 L-ring, 1 tapered compression piston ring, 1 oil scraper ring	
Engine lubrication	Pressure circulation lubrication with 3 rotor pumps	
Primary transmission	40:76	
Clutch	Multi-disc clutch in oilbath / hydraulically operated	
Transmission	6-speed claw gears	
Transmission ratio		
1st gear	14:36	
2nd gear	16:30	

3rd gear	20:30
4th gear	21:27
5th gear	23:26
6th gear	25:26
Mixture preparation	Electronically controlled fuel injection
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment
Generator	12 V, 390 W
Spark plug	NGK LKAR9BI9
Electrode gap, spark plug	0.8 0.9 mm (0.031 0.035 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Cold start device	Electric starter

Capacity - engine oil

Engine oil 3.60 I (3.8 qt.)	3.60 I (3.8 qt.)	External temperature: ≥ 0 °C (≥ 32 °F)	Engine oil (SAE 10W/50) (♥ S. 222)
	External temperature: < 0 °C (< 32 °F)	Engine oil (SAE 5W/40) (★ S. 222)	

Capacity - coolant

Coolant	2.60 l (2.75 qt.)	Coolant (* S. 221)	
		Coolant (mixed ready to use) (S. 221)	

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Hose clip, intake flange	M4	1.5 Nm (1.11 lbf ft)	-
Screw, gear sensor	M5	3 Nm (2.2 lbf ft)	Loctite® 243™
Screw, pulse generator	M5	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, bearing retainer	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Remaining engine screws	M5	6 Nm (4.4 lbf ft)	-
Oil jet	M6x0.75	4 Nm (3 lbf ft)	Loctite® 243™
Nut, cylinder head	M6	10 Nm (7.4 lbf ft)	-
Screw, locking lever	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, freewheel holder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, freewheel ring	M6	13 Nm (9.6 lbf ft)	Loctite [®] 648™
Screw, generator cover	M6	10 Nm (7.4 lbf ft)	-
Stud, chain shaft	M6	8 Nm (5.9 lbf ft)	-
Screw, coolant connection on cylinder head	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch spring	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, engine housing	M6x60	10 Nm (7.4 lbf ft)	-
Screw, engine housing	M6x80	10 Nm (7.4 lbf ft)	-
Screw, engine housing	M6x90	10 Nm (7.4 lbf ft)	-
Screw, camshaft bearing support	M6	10 Nm (7.4 lbf ft)	-
Screw, oil pump cover	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	-

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Screw, stator clamp	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Plug, vacuum connection	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)	_
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)	-
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Remaining engine screws	M6	10 Nm (7.4 lbf ft)	
Vacuum connection	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Stud, exhaust flange	M8	10 Nm (7.4 lbf ft)	_
Screw, timing chain guide rail	M8	15 Nm (11.1 lbf ft)	Loctite® 243™
Plug, crankshaft retainer	M8	15 Nm (11.1 lbf ft)	_
Screw, engine housing	M8	18 Nm (13.3 lbf ft)	-
Screw, engine console	M8	20 Nm (14.8 lbf ft)	Loctite® 243™
Screw, camshaft bearing support	M8	Step 1 10 Nm (7.4 lbf ft) Step 2 18 Nm (13.3 lbf ft)	-
Screw, camshaft bearing support	M8	Step 1 8.5 Nm (6.27 lbf ft) Step 2 14.5 Nm (10.7 lbf ft)	Only applies when using: Hex key bit (61229025000)
Screw, timing chain tensioning rail	M8	15 Nm (11.1 lbf ft)	Loctite® 243™
Screw, heat exchanger	M8	15 Nm (11.1 lbf ft)	-
Oil pressure sensor	M10x1	10 Nm (7.4 lbf ft)	-
Screw, timing chain tensioner release	M10x1	10 Nm (7.4 lbf ft)	-
Plug, clutch lubrication	M10x1	15 Nm (11.1 lbf ft)	-

Screw, conrod bearing	M10x1	Step 1 25 Nm (18.4 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90°	
Plug, cam lever axis	M10x1	15 Nm (11.1 lbf ft)	-
Screw, cylinder head	M11x1.5	Step 1 15 Nm (11.1 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90° Step 4 90°	lubricated with engine oil
Coolant temperature sensor	M12x1.5	12 Nm (8.9 lbf ft)	-
Screw, ignition rotor	M12x1.5	90 Nm (66.4 lbf ft)	-
Spark plug	M12x1.5	12 Nm (8.9 lbf ft)	-
Oil drain plug	M20x1.5	20 Nm (14.8 lbf ft)	-
Nut, inner clutch hub	M22x1.5	130 Nm (95.9 lbf ft)	Loctite® 243™
Screw in generator cover	M24x1.5	8 Nm (5.9 lbf ft)	-
Plug, timing-chain tensioner	M24x1.5	25 Nm (18.4 lbf ft)	-
Nut, primary gear	M33LHx1.5	130 Nm (95.9 lbf ft)	Loctite® 243™