

Design	1-cylinder 2-stroke engine, water-cooled, with reed intake and exhaust control	
Displacement	64.85 cm ³ (3.9574 cu in)	
Stroke	40.8 mm (1.606 in)	
Bore	45 mm (1.77 in)	
Control	Exhaust control PCEV	
Crankshaft bearing	2 grooved ball bearings	
Conrod bearing	Needle bearing	
Piston pin bearing	Needle bearing	
Pistons	Aluminum cast	
Piston rings	1 rectangular ring	
Engine lubrication	Mixture oil lubrication	
Primary transmission	23:75 straight cut spur gear	
Clutch	Multidisc clutch in oil bath/hydraulically activated	
Gearbox	6-gear, claw shifted	
Transmission ratio		
1st gear	13:37	
2nd gear	16:34	
3rd gear	18:31	
4th gear	21:30	
5th gear	23:28	
6th gear	24:26	
Ignition	AET digital	
Spark plug	NGK LR 8 B	
Spark plug electrode gap	0.60 mm (0.0236 in)	
Cooling	Water-cooled	
Starting aid	Kickstarter	

Capacity - gear oil

Gear oil	0.50 l (0.53 qt.)	Engine oil (15W/50) (☛ p. 68)
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Capacity - coolant

Coolant	0.55 l (0.58 qt.)	Coolant (☛ p. 68)
		Coolant (mixed ready to use) (☛ p. 68)

Bearing retainer, main shafts	M5		Loctite® 648™
Nut, exhaust control diaphragm	M5	3 Nm (2.2 lbf ft)	–
Screw, clutch line holder	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, diaphragm cover of exhaust control	M5	4 Nm (3 lbf ft)	–
Screw, ignition system/stator	M5	5 Nm (3.7 lbf ft)	Loctite® 222
Screw, reed valve housing of exhaust control	M5	5 Nm (3.7 lbf ft)	–
Screw, retaining bracket for return spring of shift shaft	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, shift drum locating	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, water pump wheel	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Bearing retainer, shift drum	M6	8 Nm (5.9 lbf ft)	Loctite® 243™
Drain plug, water pump cover	M6	6 Nm (4.4 lbf ft)	–
Exhaust control, lower part of control valve	M6		Loctite® 243™
Screw, clutch intermediate cover	M6	10 Nm (7.4 lbf ft)	–
Screw, clutch slave cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, clutch springs	M6	10 Nm (7.4 lbf ft)	–
Screw, engine housing	M6	10 Nm (7.4 lbf ft)	–
Screw, engine sprocket cover	M6	10 Nm (7.4 lbf ft)	–
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, gear oil level check	M6	6 Nm (4.4 lbf ft)	–
Screw, generator cover	M6	8 Nm (5.9 lbf ft)	–
Screw, intake flange/reed valve housing	M6	10 Nm (7.4 lbf ft)	–
Screw, kickstarter stop piece	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, outer clutch cover	M6	10 Nm (7.4 lbf ft)	–
Screw, reed valve housing of exhaust control	M6	10 Nm (7.4 lbf ft)	–
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
Screw, water pump cover	M6	8 Nm (5.9 lbf ft)	–
Vacuum connection/vent connection	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, cylinder head	M7	18 Nm (13.3 lbf ft)	–
Nuts, cylinder base	M8	20 Nm (14.8 lbf ft)	–
Screw, kickstarter	M8	25 Nm (18.4 lbf ft)	Loctite® 243™
Stud, cylinder base (left section of the engine case)	M8	Tightening sequence: screw in until it projects by 27 mm (1.063 in)	Loctite® 243™
Stud, cylinder base (left section of the engine case)	M8	Tightening sequence: screw in until it projects by 29 mm (1.142 in)	Loctite® 243™
Screw, inner clutch hub	M10	60 Nm (44.3 lbf ft)	Loctite® 243™
Spark plug	M10x1	10... 12 Nm (7.4... 8.9 lbf ft)	–
Nut, rotor	M10x1.25	50 Nm (36.9 lbf ft)	–
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	–
Nut, primary gear	M14x1.25	40 Nm (29.5 lbf ft)	Loctite® 243™

Carburetor type	MIKUNI TM 24
Needle position	2nd position from top
Idle air adjusting screw	
Open	3.5 turns
Main jet	210
Jet needle	51 PL 43-2
Idling jet	20
Needle jet	Q-0 (454)
Throttle slide	2.5