

TECHNICAL DATA – ENGINE 50 MCH 2001

Engine	50 MCH
Design	single cylinder 2-stroke engine, liquid cooled, with reed valve inlet
Displacement	49.0 ccm
Bore/Stroke	39.5 / 40 mm
Compression ratio	9 : 1
Fuel	SUPER fuel, research octane no 95, mixed with 2-stroke oil
Oil/gasoline ratio	1 : 40 when using high grade 2-stroke oil (Shell Advance Racing X) When in doubt, please contact your importer or use 1 : 33 mix ratio to be on the safe side
Lubrication	mixture lubrication
Crankshaft bearing	2 grooved ball bearing
Connecting rod bearing	needle bearing
Piston pin bearing	needle bearing
Piston rings	1 rectangular ring
Primary drive	straight cut spur gears, 16 : 57 t
Transmission oil	0.15-0,2 liter engine oil W20-40 (Advance Ultra 4)
Spark plug	NGK BR 10 EG
Electrode gap	0.6 mm
Carburetor	DellOrto PHBG 19 BS
Air filter	wet foam type air filter insert
Coolant	0.5 liter (0.132 USgal) ; ixture coolant : water = 2 : 1

BASIC CARBURETOR SETTING

Type	DellOrto PHBG 19 BS
Main jet	85
Needle jet	260 AU
Idling jet	48
Jet needle	W9
Needle position from top	3.
Air/Mixture reg. screw open	3.0
Throttle valve	60
Starting jet	60

TIGHTENING TORQUES - ENGINE

Primary gear nut	M14x1,25	40 Nm (30 ft.lb)
Hexagon nut ignition rotor	M10x1,25	20 Nm (15 ft.lb)
Nut of clutch hub	M10x1,25	Loctite 243 + 30 Nm (22 ft.lb)
Cylinder head screws	M7x	15 Nm (11 ft.lb)
Cylinder base nuts	M8	18 Nm (13 ft.lb)
Allan head screw-Stator	M5x25	Loctite 243 + 8 Nm (6 ft.lb)
Oilplug	M16	5 Nm (4 ft.lb)
Oil drain plug	M10	15 Nm (11 ft.lb)
Other screws engine	M5	7 Nm (5 ft.lb)
	M6	10 Nm (7 ft.lb)
	M8	30 Nm (22 ft.lb)