

TECHNICAL DATA – ENGINE 50 AC 2002

Engine	50 AC (aircooled)
Design	single cylinder 2-stroke engine, with reed valve inlet
Displacement	49.0 ccm
Bore/Stroke	39.5 / 40 mm
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 gear oil Dexron II (Shell Donax TA)
Spark plug	NGK BR 8 EH
Electrode gap	0.6 mm
Carburetor	Dell'Orto PHVA 14 DS
Air filter	wet foam type air filter insert

BASIC CARBURETOR SETTING

Model	50 MINI ADVENTURE	50 JUNIOR/SENIOR ADVENTURE
Type	Dell'Orto PHVA 14 DS	Dell'Orto PHVA 14 DS
Main jet	60 (70/80)	80 (70)
Needle jet	211 FA	211 FA
Idling jet	45	45
Jet needle	A10	A10
Needle position from top	3.	3.
Air/Mixture reg. screw open	3,5	3,5
Slide	40	40
Starting jet	60	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	M7	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)
Oil plug	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)