TECHNICAL DATA - ENGINE 50 AC 2003

Engine	50 AC (mixture lubrication)	50 AC (separate lubrication)	
Design	single cylinder 2-stroke engine, with reed valve inlet		
Displacement	49.0 ccm		
Bore/Stroke	39.5 / 40 mm		
Fuel	Lead-free SUPER FUEL (ROZ 95), mixed with 2-stroke oil	Lead-free SUPER FUEL (ROZ 95)	
Lubrication	mixture lubrication	separate lubrication	
Oil/gasoline ratio	1 : 40	-	
2-stroke oil	high-grade two-stroke oils for mixture lubrication	high-grade two-stroke oils for separate lubrication	
	(Shell Advance Racing X)	(Shell Advance Ultra 2)	
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 ECM		
Electrode gap	0.6 mm		
Carburetor	DellOrto PHVA 14 DS	DellOrto PHVA 12 XS	
Air filter	wet foam type air filter insert		

BASIC CARBURETOR SETTING				
Model	50 MINI ADVENTURE (SEPARATE LUBRICATION)	50 JUNIOR/SENIOR ADVENTURE		
Туре	Dell'Orto PHVA 12 XS	Dell'Orto PHVA 14 DS		
Main jet	60	80 (70)		
Needle jet	211 FA	211 FA		
Idling jet	38	45		
Jet needle	A10	A10		
Needle position from top	4.	3.		
Air/Mixture reg. screw open	4	3.5		
Slide	40	40		
Starting jet	60	60		

TIGHTENING TORQUES - ENGINE				
Primary gear nut	M14x1,25	40 Nm		
Hexagon nut ignition rotor	M10x1,25	20 Nm		
Nut of clutch hub	M10x1,25	Loctite 243 + 30 Nm		
Cylinder head screws	M7	15 Nm		
Cylinder base nuts	M8	18 Nm		
Allen head bolt -Stator	M5x25	Loctite 243 + 8 Nm		
Oil plug	M16	5 Nm		
Oil drain plug	M10	15 Nm		
Other engine bolts	M5	7 Nm		
	M6	10 Nm		
	M8	30 Nm		