TECHNICAL DATA - ENGINE 50 LC 2003

Engine	50 SX PRO JUNIOR LC	50 SX PRO SENIOR LC	
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 Z		
Transmission oil	0.15-0,2 liter automatic gear oil Dexron II (Shell Donax TA)		
Spark plug	NGK BR 8 ECM		
Electrode gap	0.6 mm		
Carburetor	DellOrto PHVA 14 DS	Dell'Orto PHBG 19 BS	
Air filter	wet foam type air filter insert		
Cooling liquid	0.5 litres, 40% antifreeze, 60% water, at least -25 °C (-13 °F)		

BASIC CARBURETOR SETTING				
Model	50 SX PRO JUNIOR LC	50 SX PRO SENIOR LC		
Туре	Dell'Orto PHVA 14 DS	Dell'Orto PHBG 19 BS		
Main jet	80	85		
Needle jet	211 FA	260 AU		
Idling jet	45	48		
Jet needle	A10	W9		
Needle position from top	3.	3.		
Air/Mixture reg. screw open	3.5	3.0		
Slide	40	60		
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 + 35 Nm		
Cylinder head screws	M7	15 Nm		
Cylinder base nuts	M8	18 Nm		
Allan head screw-Stator	M5x25	Loctite 243 + 8 Nm		
Oil plug	M16	5 Nm		
Oil drain plug	M10	15 Nm		
Other engine screws	M5	7 Nm		
	M6	10 Nm		
	M8	30 Nm		