TECHNICAL DATA - ENGINE S5-E, S5-GS 2001

Engine	S5-E (50 Mini Adventure)	S5-GS (50 SX Junior / 50 JR Adventure	
Design	air cooled single cylinder 2-stroke engine	50 SX Senior / 50 SR Adventure) air cooled single cylinder 2-stroke engine with reed valve inlet	
Displacement	49.8 ccm		
Bore/Stroke	39 / 41.7 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 doupt, 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 L-ring, 1 rectangular ring	2 rectangular ring	
Primary drive	helical gears, 15 : 52 t, cast	helical gears, 15 : 52 t, milled	
Transmission oil	0.25 l gear oil, Shell Advance EP 80		
Spark plug	Bosch W 4 AC		
Electrode gap	0.6 mm		
Carburetor	DellOrto SHA 1412	50 SX Junior: Mikuni VM 18-144 50 JR Adventure: Mikuni VM14-117 50 SX Senior / 50 SR Adventure: Mikuni VM 18-144	
Air filter	wet foam type air filter insert		

BASIC CARBURETOR SETTING					
Туре	Dell'Orto SHA 1412	Mikuni VM 14-117	Mikuni VM 18-144		
Main jet	60	90	70		
Needle jet	_	D-8	145		
Idling jet	_	25	30		
Jet needle	_	3DJ3-3	4F18-4		
Needle position from top	_	3rd	4th		
Air/Mixture reg. screw open	_	2,0 turn	1.5 turn		
Throttle valve	_	2,5	1		

TIGHTENING TORQUES - ENGINE					
Hexagon nut primary gear	M12x1,25	40 Nm (30 ft.lb)			
Hexagon nut flywheel	M8	35 Nm (25 ft.lb)			
Nut for clutch hub	M10	Loctite 243 + 35 Nm (25 ft.lb)			
Nuts cylinder head	M6	12 Nm (8 ft.lb)			
Nuts exhaust pipe	M6	12 Nm (8 ft.lb)			
Oil drain plug	M8	15 Nm (10 ft.lb)			
Other screws engine	M5	7 Nm (5 ft.lb)			
	M6	10 Nm (7 ft.lb)			