TECHNICAL SPECIFICATIONS - ENGINE >>

ENGINE	85 SX/XC	105 SX/XC	
Design	Liquid cooled single cylinder two-stroke engine with reed valve intake		
Displacement	84.93 ccm	103.96 ccm	
Bore/stroke	47 / 48.95 mm	52 / 48.95 mm	
Fuel	unleaded fuel with at least RON 95 (USA = Premium RON 91), mixed with high grade two-stroke oil		
Oil/gasoline ratio	1:40 - 1:60 when using high grade two-stroke oil (e.g. Motorex 2T Crosspower), when in doubt, please contact your importer		
Lubrication	mixture lubrication		
Crankshaft bearing	deep-groove ball bearing, cylinder roller bearing		
Connecting rod bearing	needle bearing		
Piston pin bearing	needle bearing		
Piston rings	1 compression ring		
Primary drive	straight cut spur gears, 19:66 t		
Clutch	multiple disc clutch in oil bath, hydraulic operated (Motorex Kupplungs-Fluid 75)		
Transmission	6 speed, claw actuated		
Gear ratio	1st gear 11:29 2nd gear 14:28 3nd gear 16:26 4th gear 19:26 5th gear 21:25 6th gear 20:21		
Transmission oil	0.5 liter engine oil Motorex Topspeed 4T 15W50		
Ignition system	Moric Digital 2M1		
Spark plug	NGK BR 9 ECMVX		
Electrode gap	0.60 mm		
Carburetor	flat-slide carburetor, carburetor see table		
Coolant	1 liter, mixture 50% antifreeze, 50% distilled water, at least -25° C (-13° F)		
Air filter	wet foam type air filter insert		

BASIC CARBURETOR SETTING			
Carburetor	Keihin PWK 28		
Main jet	118		
Needle jet	2.6		
Idling jet	45		
Jet needle	N5HG		
Needle position from top	III		
Throttle valve	3.5		
Starting jet	62		
Air adjustment screw open	1,5		

TIGHTENING TORQUES - ENGINE				
Flange bolts - cylinder-head	M 6	10 Nm		
Nuts-cylinder base	M 8	30 Nm		
Flywheel collar nut	M 12X1	60 Nm		
Primary gear bolt	M 10X1,25	Loctite 243 + 80 Nm		
Nut for inner clutch hub	M 14X1,25	Loctite 243 + 60 Nm		
Crankcase and cover bolts	M 6	8 Nm		
Spark plug	M 14X1,25	20 Nm		
Reed valve housing	M 14X1,5	75 Nm		
Kickstarter	M 6	6 Nm		
Shift lever	M 6	Loctite 243 + 12 Nm		
Swingarm pivot	M 6	Loctite 243 + 12 Nm		
Other bolts	M 5	6 Nm		
Other polis	M 6	10 Nm		