TECHNICAL SPECIFICATIONS - ENGINE 65 SX 2004

Engine	CR-65
Design	Liquid cooled single cylinder two-stroke engine with reed valve intake
Displacement	64,85 ccm
Bore/stroke	45 / 40,8 mm (1.77/1.6 in)
Fuel	SUPER fuel, research octane no 95, mixed with high grade two-stroke oil
Oil/gasoline ratio	1 : 40 when using high grade two-stroke oil (e.g. Motorex Cross Power 2T), when in doubt, please contact our importer
Lubrication	mixture lubrication
Crankshaft bearing	2 deep-groove ball bearing
Connecting rod bearing	needle bearing
Piston pin bearing	needle bearing
Piston rings	1 compression ring
Primary drive	straight cut spur gears, 23:75 t
Clutch	multiple disc clutch in oil bath, hydraulic operated (Motorex Kupplungsfluid 75)
Transmission	6 speed, claw actuated
Gear ratio	1st gear 13 : 37 2nd gear 16 : 34 3rd gear 18 : 31 4th gear 21 : 30 5th gear 23 : 28 6th gear 24 : 26
Transmission oil	0.30 liter (0.0792 USgal) gear oil (e.g. Motorex Top Speed 4T 15W50)
Ignition system	Moric Digital 2M1
Spark plug	NGK BR 8 ECM
Electrode gap	0.60 mm (0.0236 in)
Carburetor	Mikuni VM 24-505
Coolant	0.55 liter (0.145 Usgal), mixture coolant : water = 2 : 1, at least -25° C (-13° F)
Air filter	wet foam type air filter insert

BASIC CARBURETOR SETTING	
Carburetor	Mikuni VM 24-505
Main jet	200
Needle jet	864 0-0
Idling jet	25
Jet needle	5I14
Needle position from top	IV
Throttle valve	1.5
Starting jet	30
Air adjustment screw open	1

TIGHTENING TORQUES - ENGINE		
Hexagon nut – primary gear	M 10	60 Nm/44 ft.lb
Collar nut – flywheel	M 10x1,25	40 Nm/30 ft.lb
HH screw – cylinder head	M 7	15 Nm/11 ft.lb
Collar nut – cylinder base	M 8	25 Nm/19 ft.lb
Hexagon screw – inner clutch hub	M 10	Loctite 243 + 60 Nm/44 ft.lb
Screw – clutch	M 6	12 Nm/9 ft.lb
Oil drain screw	M 8	12 Nm/9 ft.lb
Screws – clutch cover	M 6	8 Nm/6 ft.lb
Kickstarter stop plate	M 6	12 Nm/9 ft.lb
Screws – stator	M 4	2 Nm/1,5 ft.lb
Shift drum locating device	M 6	12 Nm/9 ft.lb
Other screws – engine	M 5 M 6	6 Nm/4.5 ft.lb 12 Nm/9 ft.lb