TECHNICAL DATA - ENGINE 400 EXC RACING 2004

Туре	400 EXC
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft
Hubraum	398 ccm
Bore/Stroke	89 / 64 mm
Ratio	11 : 1
Fuel	unleaded fuel with at least RON 95 (USA = Premium RON 91)
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	595/0121
Valve diameter Intake	35 mm
Valve diameter Exhaust	30 mm
Valve clearence cold Intake	0.12 mm (0.0047 in)
Valve clearence cold Exhaust	0.12 mm (0.0047 in)
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston alluminium alloy -	cast
Piston rings	1 compression ring, 1 oil scraper ring
Engine lubrication	pressure circulation lubrication with two rotor pumps
Engine oil	full synthetic oil (Motorex Power Synt 4T 10W/50)
Quantity of engine oil	1.25 liters
Primary ratio	straight geared spur wheels 33:76 Z
Clutch	multi disc clutch in oil bath
Transmission claw shifted	6-speed
Gear ratio	
1 st Gear	14:34
2 nd Gear	17:31
3 rd Gear	19:28
4 th Gear	22:26
5 th Gear	24:23
6 th Gear	26:21
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN
Generator	12V 150W
Spark plug	NGK DCPR 8 E
Spark plug gap	0.6 mm (0.02367 in)
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump
Cooling liquid	1 liter, 40% antifreeze, 60% water, at least -25° (-13° F)
Starting equipment	kick - electric starter

BASIC CARBURATOR SETTING		
	400 EXC RACING 12 KW	
Туре	Keihin FCR-MX 39	
Carburator-setting number	3900A	
Main jet	178	
Jet needle	OBDVR	
Idling jet	42	
Main air jet	200	
Idling air jet	100	
Needle position	1 st from top	
Starting jet	85	
Mixture control screw open	1,25	
Slide	15	
Performance restrictor	Slide stop	
Stop pump membrane	858 / 2,15 mm	
Hot start device	-	