

SUPPLEMENT to owner's manual 250-525 RACING 2003 (art.no.3.210.50) for 450/540 SXS RACING 2003

TECHNICAL DATA - ENGINE 450/540 SXS RACING 2003

Туре	450 SXS	540 SXS	
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft		
Displacement	449,39 ccm	534,07 ccm	
Bore/Stroke	95 / 63,4 mm (3,8 / 2,536 in)	100 / 68 mm (4 / 2,72 in)	
Ratio	12 : 1		
Fuel	unleaded premium gasoline with at least RON 95		
Valve Timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain		
Camshaft	594/55	8/06	
Valve diameter Intake	35 mm (1,4 in)		
Valve diameter Exhaust	30 mm (1,2 in)		
Valve clearence cold Intake	0,12 mm (0,0048 in)		
Valve clearence cold Exhaust	0,12 mm (0,0048 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 rotorpumps		
Engine oil	fullsynthetic oil (Motorex Power Synt 4T 10W50)		
Quantity of engine oil	1,25 liters		
Primary ratio	straight geared spur wheels 33:76 t		
Clutch	multi disc clutch in oil bath		
Transmission claw shifted	4-speed		
Gear ratio			
1 st Gear	16:32		
2 nd Gear	18:30		
3 rd Gear	20:28		
4 th Gear	22:26		
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN		
Generator	12V 40W		
Spark plug	NGK DCPR8 E		
Spark plug gap	0,6 mm (0,024 in)		
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump		
Cooling liquid	1 liter, 40% antifreeze, 60% water, at least -25° (-13° F)		
Starting equipment	kickstarter		

BASIC CARBURETOR SETTING				
	450 SXS RACING	540 SXS RACING		
Туре	Keihin FCR-MX 41	Keihin FCR-MX 41		
Carbsetting number	4122A	4125A		
Main jet	185	190		
Jet needle	OBDTP	OBDTP		
Idling jet	40	42		
Main air jet	200	200		
Idling air jet	100	100		
Needle clip position	4.th from top	4.th from top		
Starting jet	85	85		
Mixture control screw open	1	1,5		
Throttle valve	15	15		
Stop pump membrane	858 / 2,15 mm	858 / 2,15 mm		
Hot start device	2,2 mm	2,5 mm		

art.no. 3.210.92