

450/540 SXS RACING 2004 SUPPLEMENT ART. NO. 3.211.32 to Owner's Manual Art. No. 3.210.77

	TECHNICAL DATA – ENG	INE
Туре	450 SXS	540 SXS
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft	
Displacement	449 cc	534 cc
Bore/Stroke	95 / 63.4 mm (3.8 / 2.536 in)	100 / 68 mm (4 / 2.72 in)
Ratio	12 : 1	12 : 1
Fuel	unleaded fuel with at least RON 95	
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain	
Camshaft	55/21	8/06
Valve diameter Intake	35 mm (1.4 in) Titan	
Valve diameter Exhaust	30 mm (1.2 in) Titan	
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 forged	
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 t	
Clutch	multi disc clutch in oil bath	
Transmission claw shifted	6-speed	4-speed
1 st Gear	16:32	16:32
2 nd Gear	16:28	18:30
3 rd Gear	21:32	20:28
4 th Gear	22:29	22:26
5 th Gear	23:26	
6 th Gear	21:18	
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN	
Generator	12V 40W	
Spark plug	NGK DCPR 8 E	
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)	

BASIC CARBURATOR SETTING				
	450 SXS	540 SXS		
Туре	Keihin FCR-MX 41	Keihin FCR-MX 41		
Carburator-setting 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 position	4th from top	4th from top		
Starting jet	85	85		
Mixture control screw open	1	1,5		
Slide	15	15		
Performance restrictor	_	-		
Stop pump membrane	858 / 2,15 mm	858 / 2,15 mm		
Hot start device	2,2 mm	2,5 mm		

STANDARD ADJUSTMENT			
FORK	WP4860MXMA		
450/540 SXS	1418Y762		
Compression adjuster	18		
Rebound adjuster	20		
Spring	4.6 N/mm		
Spring preload	513mm (20.2in)*		
Air chamber length	90 mm (3.6 in)		
Fork oil	SAE 5		

^{*}Total length with spacers

STANDARD ADJUSTMENT				
SHOCK ABSORBER 450/540 SXS	WP 5018 PDS BAVP 1218Y780			
Compression adjuster	15 LS (low speed) 2 HS (high speed)			
Rebound adjuster	24			
Spring	87.5/240			
Spring preload	7 mm (0.28 in)			