250 SXS-F, 450/540 SXS RACING 2006 »

TO OWNER'S MANUAL ART.NO. 3.211.73

TECHNICAL DATA				
Engine	250 SXS-F	450 SXS	540 SXS	
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft			
Displacement	249,51 ccm	449,39 ccm	534 ccm	
Bore/Stroke	76 / 55 mm	95 / 63.4 mm	100 / 68 mm	
Ratio	12,8 : 1	12.5 : 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	05	55/32	8/06	
Valve diameter Intake	30,9 mm	35 mm Titan	35 mm Titan	
Valve diameter Exhaust	26,5 mm	30 mm Titan	30 mm Titan	
Valve clearence cold Intake	0,10 – 0,20 mm	0,12 mm	0,12 mm	
Valve clearence cold Exhaust	0,12 – 0,22 mm	0,12 mm	0,12 mm	
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	1.1 liters 1.25 liters			
Transmission claw shifted	6-speed	5-speed	4-speed	
1 st Gear	13:32	16:32	16:32	
2 nd Gear	15:30	18:30	18:30	
3 rd Gear	17:28	20:28	20:28	
4 th Gear	19:26	22:26	22:26	
5 th Gear	21:25	24:24		
6 th Gear	22:24			
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN			
Generator	no generator			
Spark plug	NGK CR 9 EKB NGK DCPR 8 E			
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump			
Cooling liquid	1.2 liter, 50% antifreeze, 5	50% distilled water, at least -	25° (-13° F)	

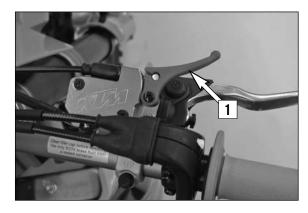
BASIC CARBURATOR SETTING				
	250 SXS-F	450 SXS	540 SXS	
Туре	Keihin FCR-MX 39	Keihin FCR-MX 41	Keihin FCR-MX 41	
Carburator-setting number	3925D	4122B	4125F	
Main jet	180	190	190	
Jet needle	OBETP	OBDTP	OBDTP	
Idling jet	40	40	42	
Main air jet	200	200	200	
Idling air jet	100	100	100	
Needle position	5 th from top	4 th from top	5 th from top	
Starting jet	85	85	85	
Mixture control screw open	1,25	1.5	1.5	
Slide	15	15	15	
Performance restrictor	-	_	_	
Stop pump membrane	858 / 2,15 mm	858 / 2.15 mm	858 / 2.15 mm	
Hot start device	2,5 mm	2.2 mm	2.5 mm	

STANDARD ADJUSTMENT FORK				
250 SXS-F	WP 4860 MXMA			
	14187B15			
Compression adjuster	22			
Rebound adjuster	24			
Spring	4.4 N/mm			
Spring preload	5.5 mm			
Fork oil	SAE 5			

STANDARD ADJUSTMENT SHOCK ABSORBER			
250 SXS-F	WP 5018 PDS		
	12187B11		
Compression adjuster	12 (low speed)		
	2 (high speed)		
Rebound adjuster	25		
Spring	84-250		
Spring preload	5 mm		

STANDARD ADJUSTMENT FORK				
450/540 SXS	WP 4860 MXMA			
	14187B16			
Compression adjuster	22			
Rebound adjuster	24			
Spring	4.6 N/mm			
Spring preload	5.5 mm			
Fork oil	SAE 5			

STANDARD ADJUSTMENT SHOCK ABSORBER			
450/540 SXS	WP 5018 PDS		
	12187A12		
Compression adjuster	12 (low speed)		
	2 (high speed)		
Rebound adjuster	25		
Spring	88-250		
Spring preload	5 mm		



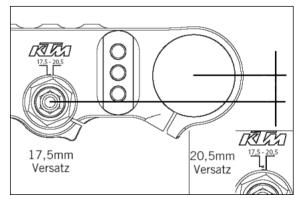
Hot start lever

If you pull the hot start lever [1] during the starting procedure backward, a bore in the carburetor will be opened through which the engine may take in additional air. The result is a "lean" fuel-air mixture of the type needed for hot starts.

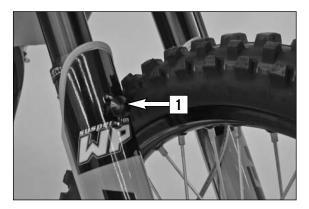


Progressive Handlebar Damping System (PHDS)

see "Information Hard Equipment" (included)



Changing the fork offset (caster) * see "Information Hard Equipment" (included)



Factory Start

Sitting on the motorcycle, lean forward over the handlebar, reach for the rim and compress the fork, press the latch button [1] and slowly rebound until the latch button engages in the latch ring. Let go of the latch button. The latch button will automatically be released from the latch ring when you compress for the first time while driving.



Anti-Hopping-Clutch Tuning and service: see "Information Hard Equipment" (included)