



125/250 SXS 2004

SUPPLEMENT ART. NO. 3.211.31 to Owner's Manual Art. No. 3.210.76

TECHNICAL DATA – ENGINE

Engine	125 SXS	250 SXS
Design	Liquid-cooled, single-cylinder, two-stroke engine with intake and exhaust control	
Piston displacement	124.8 cc	249 cc
Bore / stroke	54 / 54.5 mm (2.16 / 2.18 in)	66,4 / 72 mm (2.62 / 2.84 in)
Fuel	unleaded fuel with at least RON 98 , mixed with high grade two stroke oil	
Oil / gasoline ratio	1:40 when using high grade, two- stroke oil (Motorex Cross Power 2T). When in doubt, please contact your importer	
Crankshaft bearing	1 deep-groove ball bearing / 1 cylinder roller bearing	
Connecting rod bearing	needle bearing	
Piston pin bearing	needle bearing	
Piston	cast piston	
Piston ring	one plain compression ring	
Dimension „X“ <small>(upper edge piston- upper edge cylinder)</small>	0,0 mm	0 + 0.1 mm
Ignition timing	1.4 mm (0.056 in) (16.5°) BTDC	1.9 mm (0.076 in) BTDC
Spark plug	NGK R6385-105P	NGK BR 8 ECM
Dimension „Z“ <small>(height of the control flap)</small>	43 mm (1.72 in)	48.5 mm (1,9 in)
Primary drive	straight cut spur gears, primary ratio 23 : 73	straight cut spur gears, primary ratio 26 : 72
Clutch	multiple disc clutch in oil bath, hydraulically operated (Motorex clutch-fluid 75)	
Transmission	5 speed, claw actuate	
Gear ratio		
1 st gear	„KTM14V“ 14 : 31	„KTM31V“ 14 : 28
2 nd gear	„KTM16V02“ 16 : 30	„KTM30V“ 16 : 26
3 rd gear	„KTM19VH“ 19 : 29	„KTM29VH“ 18 : 24
4 th gear	„KTM19VH“ 21 : 28	„KTM28V“ 21 : 24
5 th gear	„5S21“ 21 : 25	„5S25“ 22 : 21
Gear lubrication	0.7 l engine oil (Motorex Top Speed 4T 15W50)	
Available chain sprockets	13Z / 14Z / 15Z for chain $\frac{5}{8} \times \frac{1}{4}$ "	
Coolant	1.2 litres, 40% anti freeze, 60% water, at least -25 °C (-13 °F)	
Ignition system	KOKUSAN 2K-1	
Generator output	no generator	
Carburetor	flat-slide carburetor, carburetor setting see table	
Air-filter	wet foam type air filter insert	

BASIC CARBURETOR SETTING 125 SXS

Carburetor	Keihin PWK 39
Carburetor setting No.	021201
Main jet	188 (182/185/190)
Idling jet	48 (45/50)
Starting jet	85
Jet needle	R 1469 D
Needle pos. from top	II
Throttle valve	55 (6)
Air adjustm. screw open	1,5

STANDARD ADJUSTMENT

FORK 125 SXS	WP4860MXMA 1418Y760
Compression adjuster	18
Rebound adjuster	19
Spring	4.0 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

FORK 250 SXS	WP4860MXMA 1418Y761
Compression adjuster	18
Rebound adjuster	20
Spring	4.4 N/mm
Spring preload	513mm (20.2in)*
Air chamber length	90 mm (3.6 in)
Fork oil	SAE 5

*Total length with spacers

BASIC CARBURETOR SETTING 250 SXS

Carburetor	Keihin PWK 38-S AG
Carburetor setting No.	180303
Main jet	165 (162/168)
Idling jet	40 (38)
Starting jet	85
Jet needle	NOZG (NOZH/NOZF)
Needle pos. from top	IV
Throttle valve	6,5
Air adjustm. screw open	1

STANDARD ADJUSTMENT

SHOCK ABSORBER 125 SXS	WP 5018 PDS BAVP 1218Y778
Compression adjuster	15 LS (low speed) 2 HS (high speed)
Rebound adjuster	24
Spring	80/240
Spring preload	6 mm (0.24 in)

STANDARD ADJUSTMENT

SHOCK ABSORBER 250 SXS	WP 5018 PDS BAVP 1218Y779
Compression adjuster	15 LS (low speed) 2 HS (high speed)
Rebound adjuster	24
Spring	84/240
Spring preload	6 mm (0.24 in)