

450/560SMR2007

ERGÄNZUNG ART. NR. 3.211.152
ZUR BEDIENUNGSANLEITUNG ART. NR. 3.211.145
SUPPLEMENT ART. NO. 3.211.152
TO OWNER'S MANUAL ART. NR. 3.211.145



KTM Group Partner

KTM Sportmotorcycle AG
A-5230 Mattighofen
www.ktm.at



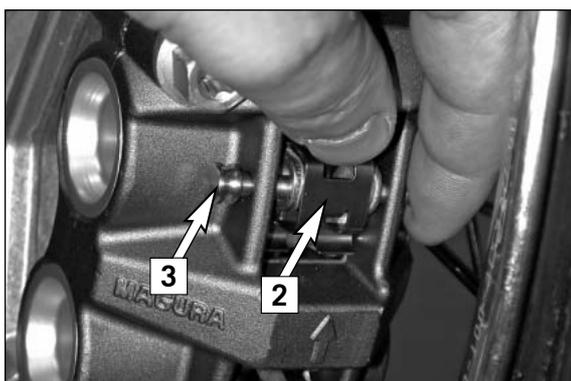
Hand brake lever

The basic position of the hand brake lever can be modified by turning the adjusting screw [1]. This lets you adapt the position of the pressure point (the resistance you feel on the hand brake lever when the brake pads are pressed against the brake disk) to fit any hand.

! CAUTION

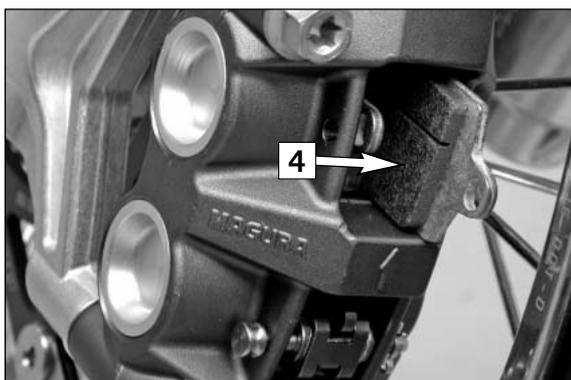
Adjustment of the hand brake lever position is only possible within certain limits. Only turn the adjusting screw manually and never apply excessive force.

MAINTENANCE WORK ON CHASSIS AND ENGINE »



Replacing the front brake pads *

Remove the lock clip. Press the bar on the lock spring [2] while you slide the bolt [3] from the bracket.



Remove the brake pads [4] from the brake caliper and thoroughly clean the brake caliper with compressed air. Mount the brake pads. Mount the lock spring [2] and bolt [3] and hold in place with the lock clip.

! CAUTION

It is very important to keep the brake disk free from oil and fatty matters. Otherwise, the braking effect would be strongly reduced.

After working on the braking system, always actuate the hand brake lever or foot brake lever, respectively to ensure that the brake pads will lie against the brake disk and the pressure point is established.

TECHNICAL DATA - CHASSIS 450/560 SMR 2007 »

CHASSIS	450 SMR	560 SMR
Frame	Central tube chrome-moly-steel frame	
Fork	WP Up Side Down 4860 MXMA PA	
Wheel travel front/rear	275/310 mm	
Rear suspension	WP Progressive Damping System shock absorber aluminium swing arm	
Front brake	Disk brake with carbon-steel brake disc Ø 310 mm brake caliper radial	
Rear brake	Disk brake with carbon-steel brake disc Ø 220 mm brake caliper floated	
Brake disc	Wear limit max. 2,5 mm front and 3,5 mm rear	
Brake disc front	SBS-RSI-97-HH	
Brake disc rear	TOYO B 143 FF	
Front tires	Dunlop 120/75-17" KR 106	
Air pressure front	1.5 bar	
Front rim	3.50x17"	
Rear tire	Dunlop 170/55-17" KR 108	
Air pressure rear	1.6 bar	
Rear rim	5,00x17"	
Fuel tank capacity	7 liters	
Final drive ratio	14:45Z	
Chain	5/8 x 1/4"	
Available final sprockets	38Z, 40Z, 42Z, 45Z, 48Z, 49Z, 50Z, 51Z, 52Z	
Steering head angle	63,5°	
Wheel base	1471 ± 10 mm	
Seat height, unloaded	855 mm	
Ground clearance, unloaded	310 mm	
Weight	107.5 Kg	108.5 Kg

STANDARD ADJUSTMENT – FORK	
	450 / 560 SMR
	WP 4860 MXMA PA 14.18.7C.18
Compression adjuster	20
Rebound adjuster	10
Preload Adjuster (turns)	5
Spring	432.485.00.046
Air chamber length	100 mm
Fork oil	4860 0401 Motorex

STANDARD ADJUSTMENT – SHOCK ABSORBER	
	450 / 560 SMR
	WP 5018 PDS DDC 12.18.7C.15
Compression adjuster	13 LS (low speed) 2 HS (high speed)
Rebound adjuster	19
Spring	88/250
Spring preload	9 mm

TECHNICAL DATA - CHASSIS 450/560 SMR 2007»

TIGHTENING TORQUES – CHASSIS		
Collar screw, front wheel spindle	M24x1.5	40 Nm
Brake caliper, MAGURA radial front	M10x1.25	Loctite 243 + 40 Nm
Brake disks	M6	Loctite 243 + 14 Nm
Clamping screws, upper fork bridge	M8	17 Nm
Clamping screws, lower fork bridge	M8	12 Nm
Clamping screws, fork stubs	M8	15 Nm
Hexagon nut, swing arm bolt	M16x1.5	100 Nm
Hexagon collar screw, handlebar clamp	M8	20 Nm
Allan head screw, handlebar support	M10	Loctite 243 + 40 Nm
Shock absorber, top	M12	Loctite 243 + 70 Nm
Shock absorber, bottom	M12	Loctite 243 + 70 Nm
Collar nut, swing arm bolt	M20x1.5	80 Nm
Sprocket Screws	M8	35 Nm
Ball joint for push rod	M6	10 Nm
Engine mounting bolt	M10	60 Nm
Engine brace	M8	33 Nm
Spoke nipple	M4.5 / M5	5 Nm
Screw adjusting ring spring preload shock abs.	M6	8 Nm
Other screws on chassis	M6	10 Nm
	M8	25 Nm
	M10	45 Nm
Other collar nuts on chassis	M6	15 Nm
	M8	30 Nm
	M10	50 Nm

TECHNICAL DATA - ENGINE 450/560 SMR 2007 »

TYPE	450 SMR	560 SMR
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft	
Displacement	449.4 cm ³	565.5 cm ³
Bore/Stroke	95 / 63.4 mm	100 / 72 mm
Ratio	12 : 1	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	590/5521	
Valve diameter Intake	35 mm (Titan)	
Valve diameter Exhaust	30 mm (Titan)	
Valve clearance cold Intake	0.1 – 0.15 mm	
Valve clearance cold Exhaust	0.1 – 0.15 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	1.25 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	16:32	
2 nd Gear	18:30	
3 rd Gear	20:28	
4 th Gear	22:26	
5 th Gear	24:24	
6 th Gear	21:18	
Ignition system	contactless DC-CDI ignition with digital advanced system by KOKUSAN 4K-3A	
Generator	12V 40W	
Spark plug	NGK DCPR 8 E	
Spark plug gap	0,6 mm	
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump	
Cooling liquid	1 liter, 50% antifreeze, 50% distilled water, at least -25° (-13° F)	
Starting equipment	kickstarter	

BASIC CARBURATOR SETTING		
	450 SMR	560 SMR
Type	Keihin FCR-MX 4122B	Keihin FCR-MX 4125E
Main jet	185	190
Jet needle	OBDTP	OBDTP
Idling jet	40	42
Main air jet	200	200
Idling air jet	100	100
Needle position	4 th from top	5 th from top
Starting jet	85	85
Mixture control screw open	1,5	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