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IMPORTANT

PLEASE READ THIS MANUAL CAREFULLY AND COMPLETELY BEFORE GOING ON YOUR FIRST RIDE. IT CONTAINS A GREAT DEAL OF INFORMATION AND ADVICE WHICH WILL HELP YOU USE AND HANDLE YOUR BIKE PROPERLY. IN YOUR OWN INTEREST, PLEASE PAY PARTICULAR ATTENTION TO NOTICES THAT ARE MARKED AS FOLLOWS:

WARNING	Δ
INSTRUCTIONS, CA	N BE DANGEROUS TO
CAUTION	!
	DAMAGE PARTS OF THE OTORCYCLE'S TRAFFIC
	CAUTION NSTRUCTIONS MAY

Please insert the serial numbers of your motorcycle in the boxes below

Chassis number	
Engine number	
Key number	
Stamp of dealer	
stamp of dealer	

COMSUMER INFORMATION FOR AUSTRALIA ONLY

Tampering with noise control system prohibited

Owners are warned that the law may prohibit:

- (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; and
- (b) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

KTM-Sportmotorcycle AG reserves the right to modify any equipment, technical specifications, colors, materials, services offered and rendered, and the like so as to adapt them to local conditions without previous announcement and without giving reasons, or to cancel any of the above items without substituting them with others. It shall be acceptable to stop manufacturing a certain model without prior notice. In the event of such modifications, please ask your local KTM dealer for information.

Introduction

We would like to congratulate you on your purchase of a KTM motorcycle.

You are now the owner of a state-of-the-art sports motorcycle that guarantees to bring you lots of fun and enjoyment, provided that you clean and maintain it appropriately. Before you go for your first ride, be sure to read this manual carefully and thoroughly in order to familiarize yourself with how to operate your new motorcycle and with its characteristics, even if this means that you will have to dedicate some of your valuable time to this task. Only by doing so will you learn how to tune your motorbike to your specific needs and how to protect yourself against injury. Besides, this manual contains important information on motorcycle maintenance. At the time this manual was typeset, it was up-to-date with the latest state of this production series. It cannot be completely ruled out, however, that minor discrepancies may exist resulting from further design upgrades of these motorcycles. This manual is an important part of your motorbike and should be passed on to any subsequent owner in case you decide to sell it.

We expressly point out that work marked with an asterisk in the chapter "Maintenance work on the chassis and engine" must be performed by a KTM workshop. If maintenance work should become necessary during a competition, it must be performed by a trained mechanic.

For your own safety, use KTM-approved parts and accessories only. KTM is not liable for damage that arises in connection with the use of other products.

Take special care to follow the recommended run in, inspection, and maintenance intervals. Heeding these guidelines will significantly increase the life of your motorcycle. Have services carried out by a KTM dealer so that your warranty claim remains intact.

Off-road motorcycle driving is a wonderful sport and we hope that you will be able to enjoy it to the full. It may, however, involve potential problems for the environment or lead to conflicts with others. These problems or conflicts can be avoided if the motorcycle is used responsibly. To safeguard the future of motorcycle sports, make sure that you use the motorcycle in accordance with the law, show that you are environmentally conscious and respect the rights of others.

We wish you a lot of fun when driving!

KTM-SPORTMOTORCYCLE AG 5230 MATTIGHOFEN, AUSTRIA

Attachments: Spare parts manual chassis & engine

ALL RIGHTS RESERVED TO MAKE ALTERATIONS TO DESIGN AND MODEL.

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IMPORTANT WARRANTY AND GUARANTEE INFORMATION

KTM sports motorcycles are designed and constructed to resist the usual wear and tear of normal use in competitions.

The motorcycles comply with the regulations and categories currently in effect with the leading international motorcycle associations.

Observance of the service, maintenance and tuning instructions for the engine and chassis specified in the Owner's Manual is a prerequisite for faultless operation and the avoidance of premature wear. An improperly tuned chassis can lead to damage and breakage of the chassis components (see chapter on checking the basic chassis setting).

The service work specified in the "Lubrication and Maintenance Schedule" must be performed by a KTM workshop and recorded in the service manual otherwise claims under the warranty shall become void.

The fuels and lubricants specified in the Owner's Manual or automotive fluids with equivalent specifications must be used in accordance with the maintenance schedule.

No claims can be filed under the warranty for damage or consequential damage caused by manipulations or conversions to the motorcycle.

The use of the motorcycle under extreme conditions, e.g. on extremely muddy and wet terrain, can lead to higher than average wear on components such as the drive train or the brakes. In this case it may become necessary to service or replace wear parts before the service limit specified in the maintenance schedule has been reached.

THE SX/SXS AND MXC MODELS ARE PROHIBITED ON PUBLIC ROADS.

The EXC models are only allowed on public roads in the original homologated (throttled) version. Without this performance restriction (i.e. dethrottled), these models are only allowed to be driven off-road but not on public roads. The EXC models are designed for off-road sports endurance competitions(enduro) and not suitable for predominant motocross use.

2-STROKE OFFROAD MOTORCYCLES ON PUBLIC ROADS

KTM EXC and MXC models were designed for offroad use only and are only suitable for longer rides on public roads to a certain extent. The engine is subjected to completely different performance demands on public roads and must be adapted to these operating conditions.

Ask your KTM dealer for more information.

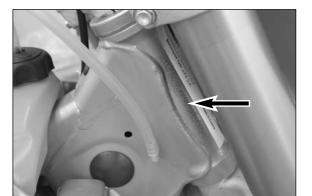


In accordance with the international quality management ISO 9001 standard, KTM uses quality assurance processes that lead to the highest possible product quality.

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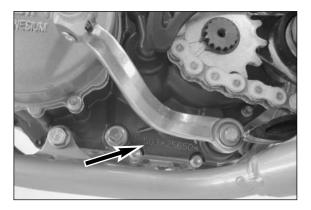




SERIAL NUMBER LOCATIONS

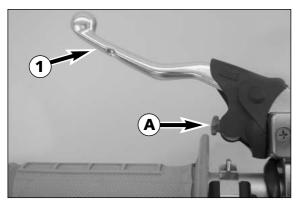
Chassis number

The chassis number is stamped on the right side of the steering head tube. Enter this number in the field on page no 1.



Engine number, engine type

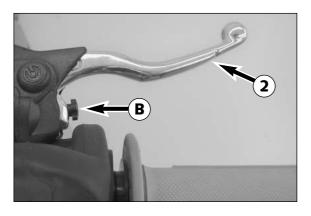
The engine number and the engine type are stamped into the left side of the engine below the engine sprocket. Enter this number on page 1.



OPERATION INSTRUMENTS

Clutch lever

The clutch lever • is located on the left side of the handlebars. The adjusting screw **4** is used to change the original position of the clutch lever (see maintenance work on chassis and engine).



Hand brake lever

The hand brake lever 2 is mounted on the handlebars on the right and actuates the front wheel brake. The adjusting screw 10 can be used to change the basic position of the hand brake lever (see maintenance work on chassis and engine).



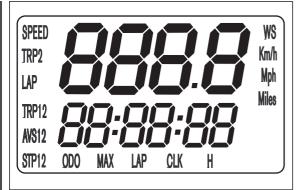
Electronic speedometer, indicator lamp (EXC)



The green control lamp **1** flashes in the same rhythm as the flashing indicator when the indicator is working.



The blue control lamp 2 lights up when the high beam is on.



Electronic speedometer

The electronic speedometer display is activated as soon as the engine is switched on and the motorcycle starts to move.

The engine must be started in order for the speedometer to be supplied with electricity from the generator. An impulse must be received from the wheel sensor to activate the display; the front wheel must turn at least one time

TEST

All of the display elements will light up for 1 second for the function test.



WS (wheel size)

The display will change and briefly show the diameter of the front wheel in millimeters.

If the front wheel does not turn, the display will automatically change to the SPEED/H mode.

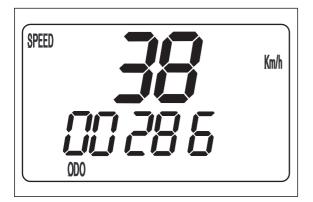
If the front wheel turns, the display will automatically change to the SPEED /ODO mode. $\,$



SPEED/H (hours) display mode

When you stop driving and no impulses are sent from the wheel sensor, the display mode will automatically change from SPEED/ODO to SPEED/H. H shows the operating hours. The operating hour counter starts to count as soon as you start the engine. The displayed figure cannot be cleared.

Service intervals are indicated in operating hours for some KTM offroad motorcycles, making the operating hour counter a very practical function.



Anzeigemodus SPEED/ODO

The SPEED/ODO mode shows the speed and the total kilometers traveled. When the front wheel stops turning, the display will automatically change to the SPEED/H mode.

The information will disappear in the display when the front wheel stops turning for 1 minute.

NOTE:

A Tripmaster switch is available as an accessory and enhances the electronic speedometer by providing the following functions:

2x Tripmaster

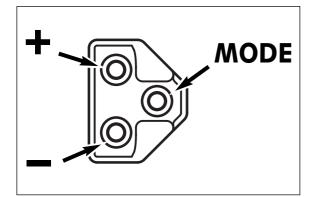
2x chronometer for the lap time

Average speed

Maximum speed

Clock

Display in miles



SPEED Km/h

SPEED Km/h





Tripmaster switch

The switch has three buttons: MODE, + (plus) and - (minus).

\triangle	WARNING	\triangle

DO NOT TRY TO CHANGE THE MODE OR READ THE SETTINGS WHILE DRIVING. YOUR ATTENTION WILL BE DISTRACTED FROM THE TRAFFIC WHICH CAN EASILY LEAD TO AN ACCIDENT.

Electronic speedometer functions provided by the Tripmaster switch

The display modes on the electronic speedometer will change in the following order. If not, please read the chapter "ACTIVATING AND DEACTIVATING THE DISPLAY MODE."

SPEED/ODO display mode

SPEED displays the speed in KPH or MPH. The displayed figure cannot be

ODO displays the kilometers or miles traveled. The displayed figure cannot be cleared.

+ BUTTON no function

- BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to change to the next mode

SPEED/MAX display mode

MAX displays the maximum speed. It is always active.

+ BUTTON no function

– BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to reset the MAX figure to 0

SPEED/LAP display mode

LAP displays the stopped lap time in hours, minutes and seconds.

+ BUTTON Starts and stops the stop watch. The lap time is not reset to 0.

- BUTTON Stops the running stop watch, stores the lap time and restarts the stop watch. The time is reset to 0. A total of 10 lap times can be stored and read in the SPEED/LAP display mode. To clear all of the stored lap times, hold the MODE button for 3 seconds in the SPEED/LAP mode.

press the MODE BUTTON to change to the next mode

If no lap time is stored or the motorcycle is driving, the LAP/LAP mode will be skipped.

press and hold the MODE BUTTON 3 SECONDS to reset the LAP figure and all stored lap times to 0

LAP/LAP display mode

The lap number is shown at the top and the lap time in hours, minutes and seconds at the bottom of the display.

If no lap time is stored or the motorcycle is driving, the LAP/LAP mode will be skipped.

Hold the MODE button for 3 seconds in the SPEED/LAP mode to clear the stored lap times.

+ BUTTON changes to the next lap time.

– BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to change to the next mode



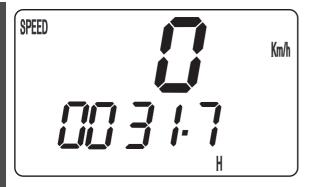
SPEED/CLK (clock) display mode

CLK will display time in hours, minutes and seconds.

+ BUTTON no function
- BUTTON no function

press the MODE BUTTON to change to the next mode.

press and hold the MODE BUTTON 3 SECONDS to set the time in the menu (see SETTING THE CLOCK)



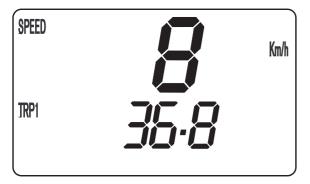
SPEED/H (hours) display mode

When you stop driving and no impulses are sent from the wheel sensor, the display mode will automatically change from SPEED/ODO to SPEED/H. H shows the operating hours. The operating hour counter starts to count as soon as you start the engine. The displayed figure cannot be cleared. Service intervals are indicated in operating hours for some KTM offroad motorcycles, making the operating hour counter a very practical function.

- + BUTTON no function
- BUTTON no function

press the MODE BUTTON to change to the next mode press and hold the MODE BUTTON 3 SECONDS to change to the SET

press and hold the MODE BUTTON 3 SECONDS to change to the SETUP mode (see REVEALING/CONCEALING functions).



SPEED/TRP1 (trip 1) display mode

The TRP1 trip meter is always active and counts to 999.9. It is used to measure the length of a trip or the distance between 2 refueling stops.

TRP1 is linked to AVS1 and STP1. The calculation of these figures is activated by the first impulse received from the wheel sensor (when the front wheel starts to turn) and stops 3 seconds after the last impulse is received (when the front wheel has stopped).

The TRP1, AVS1 and STP1 figures are automatically reset to 0 after passing 999.9.

- + BUTTON no function
- BUTTON no function

press the MODE BUTTON to change to the next mode.

press and hold the MODE BUTTON 3 SECONDS to automatically reset the TRP1, AVS1 and STP1 figures to 0.



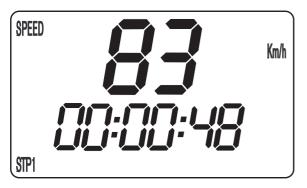
SPEED/AVS1 (average speed 1) display mode

AVS1 is always active and shows the average speed based on the TRP1 and STP1 figures. The calculation of this figure is activated by the first impulse received from the wheel sensor and stops 3 seconds after the last impulse is received.

- + BUTTON no function
- BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to reset the TRP1, AVS1 and STP1 figures to 0.



SPEED/STP1 (stop 1) display mode

STP1 shows the traveling time based on TRP1 and continues to count whenever it receives impulses from the wheel sensor. The calculation of this figure is activated by the first impulse received from the wheel sensor and stops 3 seconds after the last impulse is received.

- + BUTTON no function
- BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to reset the TRP1, AVS1 and STP1 figures to 0.



SPEED/TRP2 (trip 2) display mode

The TRP2 trip meter is always active and counts to 999.9. Contrary to TRP1, the displayed figure can be changed using the + and - buttons. This is a very useful function for trips taken according to a roadbook.

TRP2 is activated by the first impulse received from the wheel sensor and stops automatically 3 seconds after the last impulse is received.

+ BUTTON increases the TRP2 figure decreases the TRP2 figure - BUTTON

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to reset TRP2 to 0



SPEED/AVS2 (average speed 2) display mode

AVS2 shows the average speed based on the TRP2 and STP2 figures. The calculation of this figure is activated by the first impulse received from the wheel sensor and stops 3 seconds after the last impulse is received.

The displayed figure will deviate from the actual average speed if TRP2 was changed manually or if STP2 was not stopped after the trip.

+ BUTTON no function

- BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to change to the next mode



SPEED/STP2 (stop 2) display mode

STP2 is a manual stop watch. Start the stop watch by pressing the + but-

ton, press again to hold. Press again to continue timing.

Press the MODE button to change to the next mode. The STP2 display will blink in the other modes if STP2 continues to run in the background. To stop STP2, return to the SPEED/STP2 mode and press the + button.

+ BUTTON starts and stops the stop watch

- BUTTON no function

press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to reset STP2 figures to 0



Setting the clock

To set the clock, switch the ignition off and select the SPEED/CLK mode. Press and hold the MODE button for 3 seconds. The blinking digits can be changed using the + and - buttons. Press the MODE button to move to the

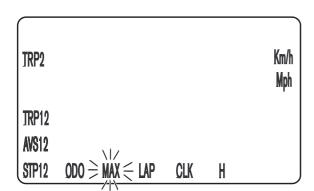
If no button is pressed for 20 seconds, the settings will be stored automatically and the display will return to the SPEED/CLK mode.

time + + BUTTON

- BUTTON time -

press the MODE BUTTON to change to the next digit

press and hold the MODE BUTTON 3 SECONDS to store the time and return to the SPEED/CLK mode



Activating/deactivating the display modes

It may not be necessary to display all of the display modes (functions) at the same time. It is possible to conceal any information not currently required. By deactivating certain functions, the MODE button will only allow you to select from the activated modes.

In the SPEED/H mode, press and hold the MODE button for 3 seconds to access the SETUP menu. The blinking function can be activated by pressing the + button and deactivated by pressing the - button.

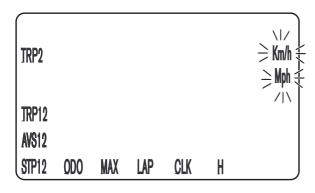
If no button is pressed for 20 seconds, the setting will be stored automatically and the display will return to the SPEED/H mode.

activates the blinking display

deactivates the blinking display - BUTTON

press the MODE BUTTON to change to the next display without changing any settings

press and hold the MODE BUTTON 3 SECONDS to store the settings and change to the SPEED/H mode



Kilometers or miles

The unit (kilometers or miles) can also be changed. The ODO figure will be retained and converted accordingly. The TRP1, AVS1, STP1, TRP2 and AVS2 figures will be cleared.

To select the unit, select the SPEED/H mode and hold the MODE button for 3 seconds to access the SETUP menu. Press the MODE button 10 times until the KMH/MPH function blinks. Press the + button to move to the options. Press the + button for KMH or the – button for MPH. If no button is pressed for 20 seconds, the setting will be stored automatically and the display will return to the SPEED/H mode.

The setting can be stored immediately by holding the MODE button for a few seconds until the display returns to the SPEED/H mode.

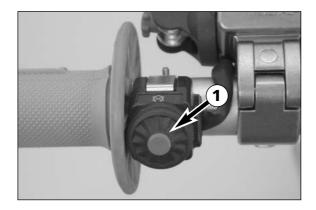
+ BUTTON to access the menu to activate the KMH setting
- BUTTON to activate the MPH setting press the MODE BUTTON to change to the next mode

press and hold the MODE BUTTON 3 SECONDS to store the setting and return to the SETUP menu

NOTE:

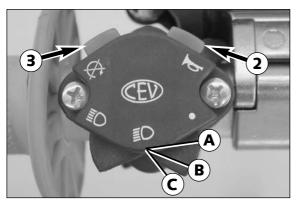
If you retrofit this Tripmaster on another motorcycle, the power can also be supplied by the 12 V vehicle electric system. You will need an additional cable harness, spare part no. 583.14.069.210, which you can order from your KTM dealer.

Standing motorcycle	Driving motorcycle		OVERVIEW	OF TRIPMAS	TER FUNCTIO	NS
Stan	Ρį	Display	Press +	Press -	Press MODE	Hold MODE for 3 sec
	×	SPEED / ODO	no function	no function	next display mode	no function
X	х	SPEED / MAX	no function	no function	next display mode	resets MAX to 0
X	X	SPEED / LAP	starts / stops LAP figure LAP remains	stops LAP, stores LAP figure, resets LAP to 0	next display mode	clears all LAP figures
Х		LAP / LAP	next figure	no function	next display mode	next display mode
X	x	SPEED / CLK	no function	no function	next display mode	set clock menu
X		SPEED / H	no function	no function	next display mode	display setup menu
X	x	SPEED / TRP1	no function	no function	next display mode	resets TRP1, STP1 and AVS1 to 0
×	X	SPEED / AVS1	no function	no function	next display mode	resets TRP1, STP1 and AVS1 to 0
X	x	SPEED / STP1	no function	no function	next display mode	resets TRP1, STP1 and AVS1 to 0
Х	x	SPEED / TRP2	increases TRP2 figure	decreases TRP2 figure	next display mode	resets TRP2 to 0
Х	x	SPEED / AVS2	no function	no function	next display mode	next display mode
x	x	SPEED / STP2	starts / stops STP2 no function next display mode sets		sets STP2 to 0	



Short circuit button (SX)

The short circuit button **1** turns off the engine. When pressing this button, the ignition circuit is short-circuited.



Combination switch (EXC)

The light switch has 2, respectively 3 switch positions.

- **a** = Light off (this function is not available in all models)
- **B** = Low beam on
- **6** = High beam on

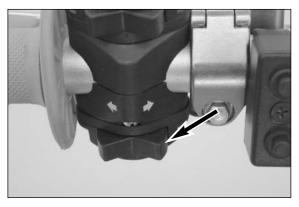
You may use button **②** to actuate the horn.

The red short circuit button **3** serves to switch off the engine. Leave the switch pressed until the engine stops.



Headlamp switch (EXC USA)

In this model the headlamp is switched on with the pull switch **4**.



Flasher switch

The flasher switch is a separate unit and is mounted on the left portion of the handlebar.

The wire harness is designed in a way that whenever you want to use your bike off-road, you can dismount the entire turn indicator system without affecting the function of the remaining electrical system.

Flasher left

Flasher right

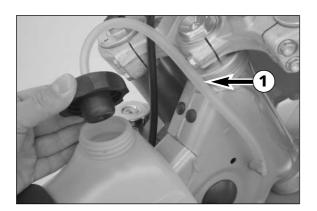


Emergency OFF switch (Australia)

The emergency OFF switch **6** is located next to the throttle grip. Primarily designed as safety or emergency OFF switch, it should normally not be in its activated state.

In this position, the ignition circuit is shorted; if the engine is running, it will stall immediately, if it is at standstill, it will not start.

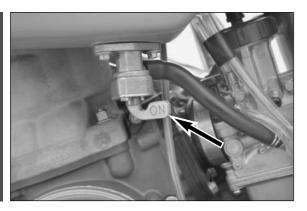
In this position, the ignition circuit is enabled; the engine should start.



Filler cap

To open it: turn filler cap counter-clockwise.

To close it: put filler cap back on and tighten it by turning it clockwise. Install tank breather hose **1** without kinks.



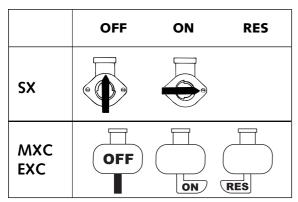
Fuel tap

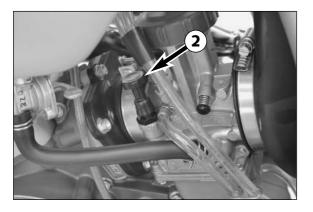
OFF In this position the fuel tap is closed. No fuel can flow to the carburetor.

ON During operation the twist grip must be turned to ON. This means that the fuel can flow to the carburetor. With the twist grip in this position the tank will be emptied until only the reserve is left.

RES The reserve tank cannot be tapped until the rotating handle is turned to the RES position. Fill the tank as soon as possible and remember to turn the rotating handle back to the ON position so that you will have backup fuel next time, too.

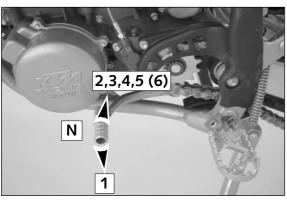
Reserve of the 9 | tank 1.3 | (0.32 US gallons) Reserve of the 11 | tank 1.7 | (0.45 US gallons)





Choke knob

When pulling the choke knob ② fully towards the top, a bore is opened in the carburetor. Through this bore the engine can take in additional fuel. This results in a rich fuel-air mixture, that is needed for a cold start. When pressing the choke knob downward in the carburetor, the bore is closed again.



Shift lever

The shift lever is mounted on the left side of the engine. The position of the gears is shown in the illustration. Neutral, or the idle speed, is located between first and second gear.



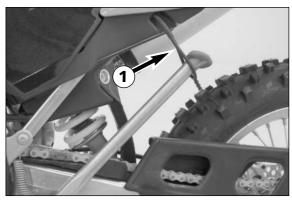
Kickstarter

The kickstarter is mounted on the left side of the engine. Its upper part can be swivelled.



Foot brake pedal

The foot brake pedal is disposed in front of the right foot rest. Its basic position can be adjusted to your seat position (see maintenance work).



Side stand

Push the side stand to the ground with your foot and load it with the motorcycle. Make sure that you put your bike on solid ground and in a secure position. For off-road riding, you can use the rubber band **1** to additionally secure the center stand in its folded-up position.

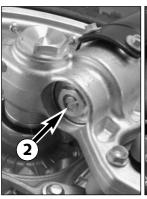


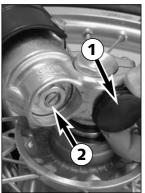
Steering lock

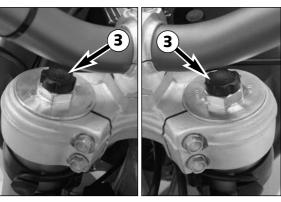
The handlebar can be locked by means of the lock located on the steering head. To lock it, turn the handlebar all the way to the right, insert the key, turn it to the left, press it in, turn it to the right, and remove it.

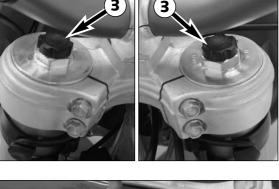
! CAUTION

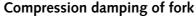
Never leave the key inserted in the steering lock. If you turn the handlebar to the left the key could get damaged.











Hydraulic compression damping determines the reaction when the fork is compressed. The degree of compression can be adjusted with adjusting screws at the bottom of the fork legs. Remove the protecting cap 1

Turn the knob 2 clockwise to increase damping, turn it counterclockwise to reduce damping during compression.

STANDARD ADJUSTMENT

- turn adjusting screw clockwise as far as it will go
- turn it back by as many clicks as are specified for the relevant type of fork

Typ White Power	1418Y743	18 clicks
Typ White Power	1418Y744	20 clicks
Typ White Power	1418Y745	18 clicks
Typ White Power	1418Y746	20 clicks

Rebound damping of fork

Hydraulic rebound damping determines the reaction when the fork is rebound. By turning the adjusting screw (REB), the degree of damping of the rebound can be adjusted. Turn the knob clockwise to increase damping, turn it counterclockwise to reduce damping during rebounding.

STANDARD ADJUSTMENT

- turn adjusting screw clockwise as far as it will go
- turn it back by as many clicks as are specified for the relevant type of fork

Typ White Power	1418Y743	18 clicks
Typ White Power		
Typ White Power	1418Y745	18 clicks
Typ White Power	1418Y746	20 clicks



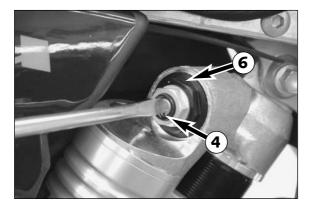
Damping action during compression of shock absorber (SX)

The shock absorber on the SX models can synchronize the compression damping in the low and high-speed range separately (Dual Compression Control).

Low and high speed refers to the movement of the shock absorber during compression and not to the speed of the motorcycle.

The low and high-speed technology overlaps.

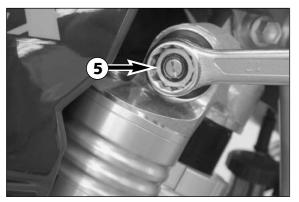
The low-speed setting is primarily for slow to normal shock absorber compression rates. The high-speed setting is effective at fast compression rates. Turning in a clockwise direction will increase the damping, turning counterclockwise will decrease the damping.



STANDARD LOW-SPEED SETTING:

- Turn the adjusting screw 4 to the limit in a clockwise direction using a screwdriver.
- Unscrew the respective number of clicks for the specific type of shock absorber in a counterclockwise direction.

Typ White Power	1218Y767	17 clicks
Typ White Power	1218Y769	12 clicks



STANDARD HIGH-SPEED SETTING:

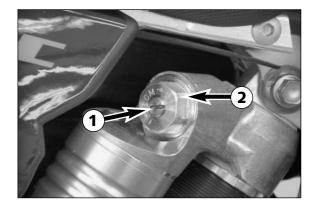
- Turn the adjusting screw **6** to the limit in a counterclockwise direction using a box wrench.
- Unscrew the respective number of turns for the specific type of shock absorber in a clockwise direction.

Typ White Power 1218Y7672 turns Typ White Power 1218Y7692 turns

WARNING

THE DAMPING UNIT OF THE SHOCK ABSORBER IS FILLED WITH HIGH-COMPRESSION NITROGEN. NEVER TRY TO TAKE THE SHOCK ABSORBER APART OR TO DO ANY MAINTENANCE WORK YOURSELF. SEVERE INJURIES COULD BE THE RESULT.

NEVER UNSCREW THE BLACK SCREW 6 CONNECTION (24MM).



Compression damping of shock absorber (MXC, EXC)

The compression damping (during compression) can be adjusted for the MXC and EXC shock absorbers (Mono Compression Control).

The degree of damping can be adjusted by turning adjusting screw • with a screwdriver. Turning in a clockwise direction will increase the damping, turning in a counterclockwise direction will decrease the damping.

STANDARD ADJUSTMENT:

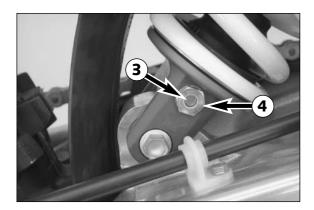
- Turn the adjusting screw clockwise to the stop.
- Then turn the adjusting screw counterclockwise, counting the number of clicks that corresponds to the respective type of shock absorber.

Typ White Power 1218Y768......19 clicks Typ White Power 1218Y770.....19 clicks

 Δ WARNING Δ

The damping unit of the shock absorber is filled with high-compression nitrogen. Never try to take the shock absorber apart or to do any maintenance work yourself. Severe injuries could be the result.

NEVER UNSCREW THE BLACK SCREW 2 CONNECTION (24MM).



Rebound damping of shock absorber (SX, MXC, EXC)

By using the adjusting screw **3**, the degree of damping of the rebound can be adjusted. Turn the knob to the right side to increase damping, turn it to the left side to reduce damping during rebounding.

STANDARD ADJUSTMENT:

- Turn the adjusting screw clockwise to the stop.
- Then turn the adjusting screw counterclockwise, counting the number of clicks that corresponds to the respective type of shock absorber.

∆ WARNING △

The damping unit of the shock absorber is filled with high-compression nitrogen. Never try to take the shock absorber apart or to do any maintenance work yourself. Severe injuries could be the result.

Never unscrew the black screw 4 connection (15mm).

GENERAL TIPS AND WARNINGS FOR STARTING THE MOTORCYCLE

Instructions for your first ride

- Verify that your KTM dealer performed the PREPARATION OF VEHICLÉ jobs (see Customer Service Manual).
- Thoroughly read the whole instruction manual before starting for your first tour.
- Familiarize yourself with the controls.
- Adjust the clutch lever, the hand brake lever and the foot brake pedal to the most comfortable position.
- Get used to handling the motorcycle on an empty parking lot or open space, before going for a longer ride. Also try to ride as slowly as possible while standing upright, to improve your feeling for the vehicle.
- Do not drive along off-road trails which go beyond your ability and experience.
- Hold the handlebar with both hands and leave your feet on the foot rests while driving.
- Remove your foot from the foot brake lever when you are not braking. If the foot brake lever is not released the brake pads rub continuously and the braking system is overheated.
- You may only take a passenger along if your motorcycle is fitted and registered for such purposes. During the ride, the passenger must hold on to the straps or to the driver, with his feet on the passenger footrests.
- Do not make any alterations to the motorcycle and always use ORIGINAL KTM SPARE PARTS. Spare parts from other manufacturers can impair the safety of the motorcycle.
- Motorcycles are sensitive to alterations in the distribution of weight. If you are taking luggage with you, it should be secured as close as possible to the middle of the vehicle; distribute the weight evenly between the front and the rear wheel. Never exceed the maximum permissible laden weight and the axle weights. The maximum permissible laden weight is made up of the following components:
 - Motorcycle ready for operation and tank full
 - Luggage
- Driver and passenger with protective clothing and helmet.
- Pay attention to running-in procedure.

Running in

Even very precisely machined sections of engine components have rougher surfaces than components which have been sliding across one another for quite some time. Therefore, every engine needs to be broken in. For this reason, during its first 500 kilometers (300 miles) or 5 hours the engine must not be revved up to its performance limits.

Apply low but changing loads for running-in.

CAUTION

DO NOT DRIVE AT FULL LOAD FOR THE FIRST 500 KILOMETERS (300 MILES) OR 5 HOURS!

Δ WARNING

WEAR SUITABLE CLOTHING WHEN DRIVING A MOTORCYCLE. SMART

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- KTM DRIVERS ALWAYS WEAR A HELMET, BOOTS, GLOVES, AND A JACKET, REGARDLESS OF WHETHER DRIVING ALL DAY OR JUST GO FOR A SHORT RIDE. THE PROTECTIVE CLOTHING SHOULD BE BRIGHTLY COLORED SO THAT OTHER USERS OF THE ROADS CAN SEE YOU AS EARLY AS POSSIBLE. OF COURSE YOUR PASSENGER WILL ALSO NEED SUITABLE PROTECTIVE CLOTHING.
- ALWAYS TURN ON THE LIGHT TO MAKE SURE THAT OTHER DRIVERS BECOME AWARE OF YOU AS FARLY AS POSSIBLE.
- DO NOT DRIVE AFTER HAVING CONSUMED ALCOHOL.
- Only use accessory parts recommended by KTM. For exam-PLE, FRONT PANELLING CAN IMPAIR THE DRIVING CHARACTERISTICS OF THE MOTORCYCLE. CASES, EXTRA TANKS ETC. CAN ALTER THE WEIGHT DISTRIBUTION AND THUS ALSO IMPAIR THE VEHICLE'S DRIVING CHARACTERISTICS.
- THE FRONT AND REAR WHEEL ARE ALLOWED TO BE FITTED ONLY WITH TIRES THAT HAVE THE SAME PROFILE TYPE.
- BE SURE TO CHECK THE SPOKE TENSION AFTER 30 MINUTES' RUNNING TIME. THE SPOKE TENSION WILL DECREASE QUICKLY ON NEW WHEELS. IF YOU CONTINUE TO DRIVE WITH LOOSE SPOKES, THE SPOKES MAY CRACK AND LEAD TO UNSTABLE HANDLING (SEE "CHECKING THE SPOKE TENSION").
- OBSERVE THE TRAFFIC REGULATIONS, DRIVE DEFENSIVELY AND TRY TO LOOK AHEAD AS FAR AS POSSIBLE SO THAT YOU RECOGNIZE ANY HAZARDS AS EARLY AS POSSIBLE.
- Adjust your driving speed to the conditions and your DRIVING SKILLS.
- Drive carefully on unknown roads or in unknown TERRITORY.
- When driving off-road, always have a friend on a second MOTORCYCLE TO KEEP YOU COMPANY, SO THAT YOU CAN HELP EACH OTHER SHOULD DIFFICULTIES ARISE.
- REPLACE THE HELMET VISOR OR GOGGLE GLASSES EARLY ENOUGH. When light shines directly on a scratched visor or goggles, YOU WILL BE PRACTICALLY BLIND.
- NEVER LEAVE YOUR MOTORCYCLE WITHOUT SUPERVISION AS LONG AS THE ENGINE IS RUNNING.

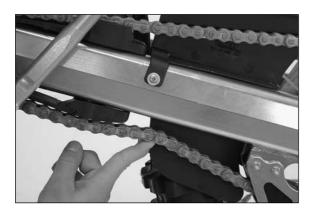
WARNING

- THE ABOVE MODELS WERE DESIGNED AND BUILT FOR ONE PERSON ONLY - NO ADDITIONAL PASSENGER ALLOWED!
- Neither do these models meet the applicable statutory REGULATIONS AND SAFETY STANDARDS. USING THEM ON PUBLIC ROADS, HIGHWAYS, FREEWAYS, ETC. IS AGAINST THE LAW.
- When riding your motorcycle, please bear in mind that OTHER PEOPLE MAY FEEL MOLESTED BY EXCESSIVE NOISE.

DRIVING INSTRUCTIONS











What you should check before each start

When you start off, the motorcycle must be in a perfect technical condition. For safety reasons, you should make it a habit to perform an overall check of your motorcycle before each start.

The following checks should be performed:

1 CHECK TRANSMISSION OIL LEVEL

Too little transmission oil leads to premature wear and will ultimately destroy gear wheels and parts of the shift mechanism.

2 FLIFE

Check that there is sufficient fuel in the tank; when closing the filler cap, check that the tank venting hose is free of kinks.

3 CHAIN

A loose chain was fall off the chain wheels; an extremely worn chain may tear, and insufficient lubrication may result in unnecessary wear of the chain and chain wheels.

4 TIRES

Check for damaged tires. Tires showing cuts or dents must be replaced. The tread depth must comply with the legal regulations. Also check the air pressure. Insufficient tread and incorrect air pressure deteriorate the driving performance.

5 BRAKES

Check correct functioning of the braking system. Verify that there is sufficient brake fluid in the reservoir. The reservoirs have been designed in such a way that brake fluid does not need to be refilled even when the brake pads are worn. If the level of brake fluid falls below the minimum value, this indicates a leak in the braking system or completely worn out brake pads. Arrange for the braking system to be checked by an authorized KTM dealer, as complete failure of the braking system can be expected.

Also check the state of the brake hose and the thickness of the brake linings.

Check free travel of the hand brake lever and foot brake lever.

\triangle WARNING \triangle

If the resistance in the hand brake lever or foot brake pedal feels "spongy" (too much give), this is an indication that something is wrong with the brake system. Don't ride your motorcycle anymore without first having the brake system looked over by a KTM dealer.

6 CABLES

Check correct adjustment and easy running of all control cables.

7 COOLING FLUID

Check the level of cooling fluid when the engine is cold.

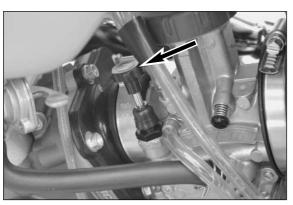
8 ELECTRICAL SYSTEM

Check correct functioning of headlamps, tail-lights, brake lights, turn indicators, indicator lamps and horn while the engine is running.

9 LUGGAGE

If you are taking luggage with you, check that it is securely fastened.











Starting when the engine is cold

- 1 Open fuel tap
- 2 Turn on ignition or emergency OFF switch
- 3 Put the gear in neutral
- 4 Activate cold-starting aid (choke)
- 5 Leave throttle closed or open it no more than ¹/₃ and kick down kickstarter vigorously all the way.

WARNING

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- FOR STARTING ALWAYS PUT ON YOUR MOTORCYCLE BOOTS TO AVOID INJURIES.
 YOU COULD SLIP OFF THE KICKSTARTER OR THE MOTOR COULD KICK BACK AND FLING YOUR FOOT UPWARDS.
- FORCEFULLY KICK THE KICKSTARTER DOWN THE WHOLE WAY AND DO NOT OPEN THE
 THROTTLE. A KICKSTART WITH TOO LITTLE MOMENTUM AND AN OPENED THROTTLE
 INCREASES THE KICKING BACK RISK.
- DO NOT START THE ENGINE AND ALLOW IT TO IDLE IN A CLOSED AREA. EXHAUST FUMES ARE POISONOUS AND CAN CAUSE LOSS OF CONSCIOUSNESS AND DEATH. ALWAYS PROVIDE ADEQUATE VENTILATION WHILE THE ENGINE IS RUNNING.

CAUTION

DO NOT RIDE YOUR MOTORCYCLE WITH FULL LOAD AND DO NOT REV UP THE ENGINE WHEN COLD. SINCE THE PISTON WARMS UP AND EXPANDS FASTER THAN THE WATER COOLED CYLINDER, THIS MIGHT CAUSE ENGINE DAMAGE. ALWAYS LET ENGINE IDLE UNTIL WARM OR DRIVE IT WARM AT LOW R.P.M. SPEEDS.

Starting when the engine is warm

- 1 Open fuel tap
- 2 Turn on ignition or emergency OFF switch
- 3 Put the gear in neutral
- 4 Open throttle to ½ and kick down kickstarter vigorously

What to do when the engine is "flooded"

- 1 Close fuel tap
- 2 Start engine with full throttle. If necessary, unscrew spark plug and dry it.
- 3 Once the engine is running, open fuel tap again.

Starting off

Pull the clutch lever. Put the engine into first gear, slowly release the clutch lever and accelerate at the same time.

∆ WARNING

- BEFORE YOU START OFF, CHECK THAT THE MAIN OR SIDE STAND HAS BEEN SWUNG RIGHT UP TO THE TOP. IF THE STAND DRAGS ON THE FLOOR, YOU MAY LOSE CON-TROL OF YOUR MOTORCYCLE.
- BEFORE STARTING FOR AN OFF-ROAD TOUR, IT IS RECOMMENDED TO ADDITIONALLY SECURE THE SIDE STAND WITH THE RUBBER BAND ON THE AIR FILTER BOX.

Shifting/Riding

You are now in first gear, referred to as the drive or uphill gear. Depending on the conditions (traffic, hill size, etc.), you can shift to a higher gear. Turn down the throttle, at the same time pull the clutch lever in and shift to the next higher gear. Let the clutch lever go again and open the throttle. If you turned on the choke, make sure you turn it off again as soon as engine is warm.

When you reach full speed through opening the throttle all the way, turn throttle back to ³/₄; the speed hardly decreases although the engine will use less gas. Only give as much gas as the engine can handle. Through quick and high revving of throttle, the gas consumption will increase. When shifting down, use the brakes if necessary and turn down at the same time. Pull the clutch lever and shift down to the next lower gear. Let the clutch lever go slowly and open the throttle or shift down again.

\triangle WARNING \triangle

- AFTER FALLING WITH THE MOTORCYCLE, CHECK ALL ITS FUNCTIONS THOROUGHLY BEFORE USING IT AGAIN.
- A TWISTED HANDLEBAR MUST ALWAYS BE REPLACED. DO NOT ADJUST THE HAND-LEBAR. IT WILL LOSE STABILITY.

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CAUTION

- HIGH RPM RATES WHEN THE ENGINE IS COLD HAVE AN ADVERSE EFFECT ON THE LIFE OF YOUR ENGINE. WE RECOMMEND YOU RUN THE ENGINE IN A MODERATE RPM RANGE FOR A FEW MILES GIVING IT A CHANCE TO WARM UP. AFTER THAT NO FURTHER PRECAUTIONS IN THIS RESPECT NEED TO BE TAKEN.
- NEVER HAVE THE THROTTLE WIDE OPEN WHEN CHANGING DOWN TO
 A LOWER GEAR. THE ENGINE WILL OVERREV, DAMAGING THE VALVES.
 IN ADDITION, THE REAR WHEEL WILL BLOCK SO THAT THE MOTORCYCLE CAN EASILY GET OUT OF CONTROL.
- IF THE ENGINE RUNS WITHOUT THROTTLE DURING LONGER DOWNHILL TRAVEL, THE ENGINE SHOULD BE ACCELERATED OCCASIONALLY TO ENSURE THAT IT IS SUPPLIED WITH SUFFICIENT LUBRICANT WHICH IS MIXED IN THE FUEL.
- IN THE EVENT THAT, WHILE RIDING ON YOUR MOTORCYCLE, YOU NOTICE ANY UNUSUAL OPERATION-RELATED NOISE, STOP IMMEDIA-TELY, TURN THE ENGINE OFF, AND CONTACT AN AUTHORIZED KTM DEALER

Braking

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Turn off the gas and apply the hand and foot brakes at the same time. When driving on sandy, wet or slippery ground, use mainly the rear wheel brake. Always brake with feeling, blocking wheels can cause you to skid or fall. Also change down to lower gears depending on your speed.-

- In case of rain, after washing the motorcycle, after rides through water and in case of rides on wet off-road tracks, humid or dirty brake discs can delay the braking effect. The brakes must be pulled until they are dry or clean.
- RIDES ON SALT-STREWED OR DIRTY ROADS CAN ALSO DELAY THE BRAKING EFFECT. THE BRAKES MUST BE PULLED UNTIL THEY ARE CLEAN.
- DIRTY BRAKE DISCS CAUSE INCREASED TEAR OF BRAKE PADS AND BRAKE DISCS.
- WHEN YOU BRAKE, THE BRAKE DISCS, BRAKE PADS, BRAKE CALIPER
 AND BRAKE FLUID HEAT UP. THE HOTTER THESE PARTS GET, THE WEAKER THE BREAKING EFFECT. IN EXTREME CASES, THE ENTIRE BRAKING
 SYSTEM CAN FAIL.
- IF THE RESISTANCE IN THE HAND BRAKE LEVER OR FOOT BRAKE PEDAL FEELS "SPONGY" (TOO MUCH GIVE), THIS IS AN INDICATION THAT SOMETHING IS WRONG WITH THE BRAKE SYSTEM. DON'T RIDE YOUR MOTORCYCLE ANYMORE WITHOUT FIRST HAVING THE BRAKE SYSTEM LOOKED OVER BY A KTM DEALER.

Stopping and parking

Brake motorcycle and shift gears to idling. To switch off the engine, depress short circuit switch until the engine stops or switch off ignition. Close fuel tap.

WARNING

MOTORCYCLE ENGINES PRODUCE A GREAT AMOUNT OF HEAT WHILE RUNNING. THE ENGINE, EXHAUST PIPE, MUFFLER, BRAKE ROTORS, AND SHOCK ABSORBERS CAN BECOME VERY HOT. DO NOT TOUCH ANY OF THESE PARTS AFTER STARTING THE MOTORCYCLE, AND TAKE CARE TO PARK IT WHERE PEDESTRIANS ARE NOT LIKELY TO TOUCH IT AND GET BURNED.

CAUTION

- CLOSE THE FUEL TAP WHEN LEAVING YOUR VEHICLE. OTHERWISE THE CARBURETOR MAY GET FLOODED AND FUEL WILL ENTER THE ENGINE.
- NEVER PARK YOUR MOTORCYCLE IN PLACES WHERE THERE EXIST FIRE HAZARDS DUE TO DRY GRASS OR OTHER EASILY FLAMMABLE MATERIALS.
- The side stand is only designed for the weight of the motorcycle. If you get on your motorcycle and thus put additional weight on the motorcycle, the side stand or the frame can be damaged or the motorcycle may fall on the side.

Refueling, fuel

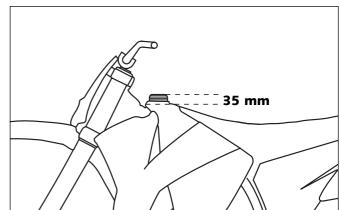
125-300: Unleaded premium gasoline **RON 95** mixed with high grade two stroke oil. Mixture ratio **1:40 - 1:60** Fuel and engine oil should only be mixed immediately before use. KTM recommends Motorex Cross Power 2T.

∆ WARNING

GASOLINE IS HIGHLY FLAMMABLE AND POISONOUS. EXTREME CAUTION SHOULD BE USED WHEN HANDLING GASOLINE. DO NOT REFUEL THE MOTORCYCLE NEAR OPEN FLAMES OR BURNING CIGARETTES. ALWAYS SWITCH OFF THE ENGINE BEFORE REFUELING. BE CAREFUL NOT TO SPILL GASOLINE ON THE ENGINE OR EXHAUST PIPE WHILE THE ENGINE IS HOT. WIPE UP SPILLS PROMPTLY. IF GASOLINE IS SWALLOWED OR SPLASHED IN THE EYES, SEEK A DOCTOR'S ADVICE IMMEDIATELY.

CAUTION

- ONLY USE PREMIUM-GRADE GASOLINE ROZ 98 RESPECTIVELY 95
 MIXED WITH HIGH-GRADE TWO-STROKE ENGINE OIL. OTHER TYPES OF
 GASOLINE CAN CAUSE ENGINE FAILURE.
- DO NOT USE PREMIXED TWO-STROKE OILS, OILS FOR OUTBOARD ENGINES OR NORMAL ENGINE OIL TO PREPARE THE MIXTURE.
- DO NOT USE GASOLINE AND OIL MIXTURES THAT ARE OLDER THAN ONE WEEK. THE LUBRICATION PROPERTIES OF SOME TWO-STROKE OILS CAN DETERIORATE VERY RAPIDLY.
- ONLY USE KNOWN BRANDS OF HIGH-GRADE 2-STROKE ENGINE OIL (i.e. MOTOREX CROSS POWER 2T).
- NEVER MIX SYNTHETIC OILS AND MINERAL OILS.
- NOT ENOUGH OIL OR LOW-GRADE OIL CAN CAUSE EROSION OF THE PISTON. WHEN USING TOO MUCH OIL, THE ENGINE MAY START SMO-KING AND FOUL THE SPARK PLUG.
- IF YOUR MOTORCYCLE IS EQUIPPED WITH A CATALYTIC CONVERTER, ALWAYS KEEP IN MIND THAT LEADED FUEL WILL DESTROY THE CATALY-TIC CONVERTER.
- FUEL EXPANDS WHEN ITS TEMPERATURE RISES. THEREFORE DO NOT FILL THE TANK TO THE TOP. (SEE FIG.)



7	PERIODIC MAINTENANCE SCHED	ULE		5/200 SX/EXC SX/MXC/EXC
	A clean motorcycle can be checked more quickly which saves money!	1st service after 10 hours or 1000 kilometers	after 20 hours or 2000 kilometers	after 4000 kilometer or once a year
	Check gear box oil level		•	
Z	Change gear box oil	•		•
ENGINE	Check spark plugs, adjust distance between electrodes	•	•	
ш	Renew spark plugs			•
ř	Check the carburetor connection boot for cracks and leaks			•
CARBURETOR	Check idle speed setting	•		•
SE	Check that vent hoses are not damaged or bent	•		•
	Check cooling system for leaks, check quantity of antifreeze	•		•
,,	Check exhaust system for leaks and fitment			•
RT	Check cables for damage, smooth operation, bends; adjust and lubricate	•		•
PA	Check oil level of the clutch master cylinder	•	•	•
ż	Clean air filter and filter box			•
Ö	Check electric wires for damage and bends			•
ADD-ON-PARTS	Check headlamp setting			•
⋖	Check function of electric systems (low beam, high beam, break light, indicator,	•		•
	indicator lamps, speedometer illumination, horn, emergency OFF switch or button			
S	Check brake fluid level, lining thickness, brake lining	•		•
BRAKES	Check brake lines for damage and leaks	•		•
RA	Check/adjust smooth operation and free travel of handbrake/foot brake lever	•		•
B	Check tightness of brake system screws	•		•
	Check shock absorber and fork for leaks and function	•		•
	Clean dust bellows			•
CHASSIS	Bleed fork legs			•
AS	Check swing arm bearings			•
I	Check/adjust steering head bearings	•		•
	Check tightness of all chassis screws (triple clamps, fork leg axle passage	•		•
	axle nuts and screws, swing arm bearings, shock absorber)			
	Check spoke tension and rim joint			•
:IS	Check tires and air pressure	•		•
WHEELS	Check chain, rear sprockets and chain guides for wear, fitment and tension	•		•
⋛	Lubricate chain	•		•
	Check clearance of wheel bearings	•		•

IMPORTANT RECOMMENDED MAINTENANCE WORK THAT CAN BE CARRIED OUT BY EXTRA ORDER			
	at least once a year	every 2 years or 20000 km	
Check function of exhaust control	•		
Complete maintenance of shock absorber	•		
Complete maintenance of fork		•	
Clean and grease steering head bearings and gasket elements	•		
Clean and adjust carburetor	•		
Replace glass fibre- yarn filling of the exhaust main silencer	•		
Treat electric contacts and switches with contact grease	•		
Change hydraulic clutch fluid	•		
Change break fluid	•		

IF MOTORCYCLE IS USED FOR COMPETITION 4000KM SERVICE SHOULD BE CARRIED OUT AFTER EVERY RACE! SERVICE INTERVALS SHOULD NEVER BE EXCEEDED BY MORE THAN 5 HOURS OR 500 KM! MAINTENANCE WORK DONE BY KTM AUTHORISED WORKSHOPS IS NOT A SUBSTITUTE FOR CARE AND CHECKS DONE BY THE RIDER!

IMPORTANT CHECKS AND MAINTENANCE TO BE CARRIED OUT BY THE RIDER					
	Before each start	After every cleaning	For cross- country use	Once a year	
Check gear box oil level	•				
Check brake fluid level	•				
Check brake pads for wear	•				
Check lights for function	•				
Check horn for function	•				
Lubricate and adjust cables and nipples		•			
Bleed fork legs regulary			•		
Remove and clean dust bellows regularly			•		
Clean and lubricate chain, check tension and adjust if necessary		•	•		
Clean air filter and filter box			•		
Check tires for pressure and wear	•				
Check cooling liquid level	•				
Check fuel lines for leaks	•				
Empty and clean float chamber		•			
Check all control elements for smooth operation	•				
Check brake performance	•	•			
Treat blank metal parts (with the exception of brake and exhaust systems)		•			
with wax-based anti corrosion agent					
Treat ignition and steering locks and light switches with contact spray		•			
Check tightness of screws, nuts and hose clamps regularly				•	

RECOMMENDED INSPECTION OF THE 125/200/250/300 SX AND EXC ENGINE USED FOR ENDURO COMPETITIONS BY YOUR KTM WORKSHOP						
(ADDITIONAL ORDER FOR	THE KTN	1 WORKSH	HOP)			
	30 hours	45 hours	60 hours	90 hours	120 hours	135 hours
Check the reed-type intake valve for wear	•	•	•	•	•	•
Check the clutch shoes for wear	•	•	•	•	•	•
Check the length of the clutch springs	•	•	•	•	•	•
Check the cylinder and piston for wear	•	•	•	•	•	•
Check the exhaust control for proper functioning and smooth running	•	•	•	•	•	•
Check the eccentricity of the crankshaft journal	•	•	•	•	•	•
Check the radial clearance of the conrod bearings	•		•		•	
Check the radial clearance of the piston pin main bearing	•		•		•	
Check the crankshaft main bearing for wear	•		•		•	
Replace the crankshaft bearings and conrod bearings		•		•		•
Check the entire transmission including roller and bearings for wear		•		•		•

RECOMMENDED INSPECTION OF THE 125/200/250/300 EXC ENGINE USED FOR HOBBY- ENDURO BY YOUR KTM WORKSHOP (ADDITIONAL ORDER FOR THE KTM WORKSHOP)						
	60 hours	90 hours	120 hours	180 hours	240 hours	270 hours
Check the reed-type intake valve for wear	•	•	•	•	•	•
Check the clutch shoes for wear	•	•	•	•	•	•
Check the length of the clutch springs	•	•	•	•	•	•
Check the cylinder and piston for wear	•	•	•	•	•	•
Check the exhaust control for proper functioning and smooth running	•	•	•	•	•	•
Check the eccentricity of the crankshaft journal	•	•	•	•	•	•
Check the radial clearance of the conrod bearings	•		•		•	
Check the radial clearance of the piston pin main bearing	•		•		•	
Check the crankshaft main bearing for wear	•		•		•	
Replace the crankshaft bearings and conrod bearings		•		•		•
Check the entire transmission including roller and bearings for wear		•		•		•

NOTE: IF THE INSPECTION ESTABLISHES THAT PERMISSIBLE TOLERANCES ARE EXCEEDED, THE RESPECTIVE COMPONENTS MUST BE REPLACED.

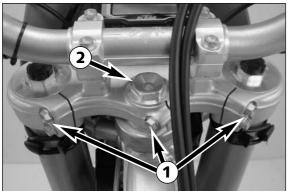
MAINTENANCE WORK ON CHASSIS AND ENGINE

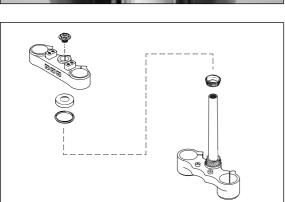
∆ WARNING ∆

MAINTENANCE AND ADJUSTING WORK MARKED WITH AN ASTERISK (*) REQUIRES EXPERT SKILLS AND TECHNICAL KNOW-HOW. FOR YOUR OWN SAFETY, ALWAYS HAVE SUCH WORK PERFORMED BY A SPECIALIZED KTM DEALER WHERE YOUR MOTORCYCLE WILL BE OPTIMALLY SERVICED BY APPROPRIATELY QUALIFIED, SKILLED STAFF.

! CAUTION

- WHEN CLEANING THE MOTORCYCLE, DO NOT USE A HIGH PRESSURE CLEANING UNIT IF POSSIBLE, OTHERWISE WATER WILL PENETRATE THE BEARINGS, CAR-BURETOR, ELECTRIC CONNECTORS, ETC.
- When transporting your KTM, ensure that it is held upright with restraining straps or other mechanical fastening devices and that the fuel tap is in the OFF position if the motorcycle should fall over, no fuel can leak from the Carburetor or fuel tank
- Only use special screws with an appropriate thread length supplied by KTM to fix the spoilers on the tank. Using other screws or longer screws can cause leaks in the tank through which fuel can flow out.
- Do not use toothed washers or spring rings with the engine fastening screws, as these work into the frame parts and keep working loose. Instead, use self-locking nuts.
- LET YOUR MOTORCYCLE COOL DOWN BEFORE BEGINNING ANY MAINTENANCE WORK IN ORDER TO AVOID GETTING BURNED.
- DISPOSE OF OILS, FATTY MATTERS, FILTERS, FUELS, WASHING DETERGENTS, ETC. PROPERLY.
- Under no circumstances may used oil be disposed of in the sewage system or in the open countryside. 1 liter of used oil contaminates 1,000,000 liters of water.





Checking and adjusting the steering head bearing *

Check steering head bearing for play periodically. To check, put the motorcycle on a stand so that the front wheel is off the ground. Now try to move the fork forward and backward. For readjusting, loosen the five pinch bolts • of the top triple clamp and turn steering stem bolt clockwise • until there is no more play. Don't tighten the steering stem bolt all the way, otherwise the bearings will be damaged. With a plastic hammer, lightly tap on the triple clamp to release tension. Retighten the five pinch bolts to 20 Nm (15 ft.lb).

 \triangle **WARNING** \triangle

If the steering head bearing is not adjusted to be free of play, the motorcycle will exhibit unsteady driving characteristics and can get out of control.

! CAUTION !

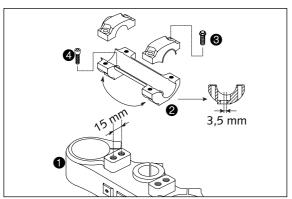
If you drive with play in the steering head bearing for longer periods, the bearings and subsequently the bearing seats in the frame will be destroyed.

The steering head bearings should be regreased at least once a year (e.g. Motorex Long Therm 2000).



How to change the handlebar position

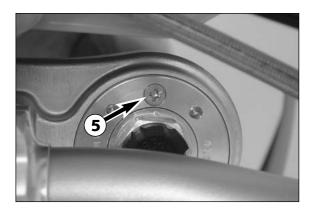
The handlebar position can be readjusted by 22 mm. Thus, you can put the handlebar in the position that is the most convenient for you. The upper triple clamp ● includes 2 bores arranged at a distance of 15 mm (0.6 in) from one another. The bores at the handlebar support ② are offset from the center by 3.5 mm (0.13 in). Accordingly, you can mount the handlebar in 4 different positions.



For this purpose, remove screws ③ of the handlebar clamps and screws ④ of the handlebar support. Position the handlebar support, and tighten screws ④ to 40 Nm (30 ft.lbs). Mount the handlebar and handlebar clamps, and tighten screws ⑤ to 20 Nm (15 ft.lbs). The gap between the handlebar support and the handlebar clamps should be the same size in the front and in the rear.

∆ WARNING

THE SCREWS 4 MUST BE SECURED WITH LOCTITE 243.

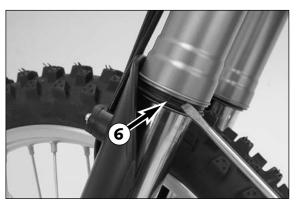


Breather plug front fork

After every 5 hours of use for competitive racing, slacken the breather plugs **9** a few turns in order to relieve excess pressure from the inside of the fork. To do this, place the motorcycle on a stand with the front wheel lifted off the ground. When riding the motorcycle mainly on the road, it will suffice to have this job performed in the course of the periodical maintenance service.

! CAUTION

EXCESSIVE PRESSURE IN THE INTERIOR OF THE FORK CAN CAUSE LEAKS IN THE FORK. IF YOUR FORK IS LEAKING, IT IS RECOMMENDED TO OPEN THE BREATHER PLUGS BEFORE HAVING THE SEALS REPLACED.



Cleaning the dust sleeves of the telescopic fork

The dust-protection bellows **3** are to remove dust and coarse dirt particles from the fork tube. However, after some time, dirt may also get in behind the dust-protection bellows. If this dirt is not removed, the oil sealing rings located behind it may start to leak.

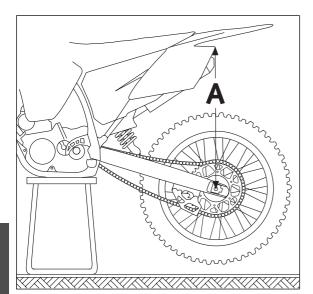
Use a screwdriver to lift the dust-protection bellows out of the outer tubes and slide them downward.



Clean the dust-protection bellows, outer tubes, and fork tubes thoroughly, and oil them thoroughly with silicone spray or engine oil. Then, push the dust-protection bellows into the outer tubes by hand.

△ WARNING △

No silicone oil may reach the front tire or the brake disks since this would considerably reduce the tire's road grip and the braking effect of the front brake.

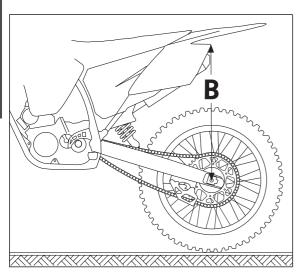


Basic suspension setup for the weight of the driver

To achieve maximum handling performance and to prevent the fork, shock absorber, swing arm and frame from being damaged, the basic setup of the suspension components must be suitable for your weight. At delivery, KTM's offroad motorcycles are set to accommodate a driver weighing 70 - 80 kg (wearing full protective clothing). If your weight exceeds or falls short of this range, you will need to adjust the basic setup for the suspension components accordingly. Minor deviations in weight can be compensated by adjusting the spring preload. Different springs must be installed for larger deviations.

Checking the shock absorber and spring

You can establish whether or not the shock absorber spring is suitable for your weight by checking the riding sag. The static slag must be correctly adjusted before the riding sag can be determined.



Determining the static sag of the shock absorber

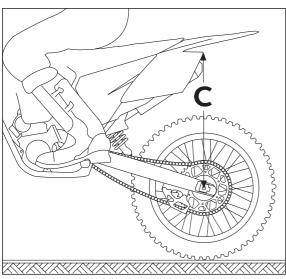
The static sag should be as close as possible to 35 mm. Deviations of more than 2 mm can strongly influence the motorcycle's performance.

Procedure:

- Jack up the motorcycle until the rear wheel no longer touches the ground.
- Measure the vertical distance between the rear wheel axle and a fixed point (e.g. a mark on the side cover) and write it down as dimension A.
- Place the motorcycle on the ground again.
- Ask a helper to hold the motorcycle in vertical position.
- Measure the distance between the rear axle and the fixed point again to establish dimension B.
- The static sag is the difference between dimensions A and B.

EXAMPLE:

Motorcycle jacked up (dimension A)	
Motorcycle on ground, unloaded (dimension B)	– 565 mm
Static sag	



If the static sag is lower, the spring preload of the shock absorber must be increased, if the static sag is reduced, the spring preload must be higher. See chapter "Changing the spring preload of the shock absorber."

Determining the riding sag of the shock absorber

- Have a helper hold the motorcycle while you sit on the bike in a normal seating position (feet on the footrests) wearing full protective clothing and bounce up and down a few times to allow the rear wheel suspension to become level.
- Stay on the bike and have another person measure the distance between the same two points and write it down as dimension C.
- The riding sag is the difference between dimensions A and C.

EXAMPLE:

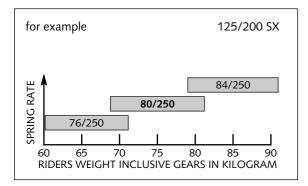
Motorcycle jacked up (dimension A)60	00 mm
Motorcycle on ground, loaded (dimension C)51	10 mm
Riding sag	

The riding sag should lie between 90 and 105 mm.

If the riding sag is less than 90 mm, the spring is too hard (the spring rate is too high). If the riding sag is more than 105 mm, the spring is too soft (the spring rate is too low).

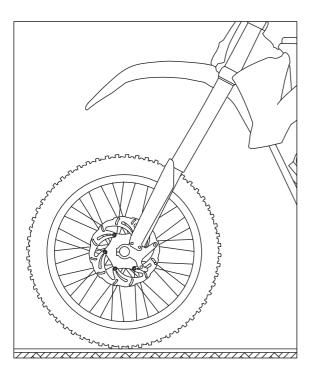
The spring rate is written on the outside of the spring (e.g. 80/250). The type number of the shock absorber is embossed on the bottom of the tank. The illustrations show which spring should be installed. The standard spring is shown in bold print (e.g. 1218Y767).

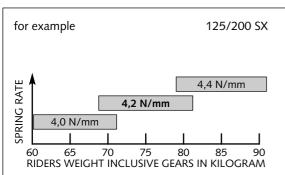
After installing a different spring, readjust the static sag to 35 mm (± 2 mm).



Modell	SOFTER	STANDARD	HARDER	
1218Y767	76/250	80/250	84/250	
125/200 SX	707230	00/250		
1218Y768				
125/200 EXC	80/250	84/250	88/250	
1218Y769	60/230	04/250	00/200	
250 SX				
1218Y770	84/250	88/250	92/250	
250/300 MXC, EXC				

According to our experience, the damping rate of the compression stage can remain unchanged. The damping rate of the rebound stage can be reduced by a few clicks for a softer spring or increased by a few clicks for a harder spring.





MODELL	SOFTER	STANDARD	HARDER
1418Y743	4.0 N/mama	4.2 N/	4 4 NI/mama
125/200 SX	4,0 N/mm	4,2 N/mm	4,4 N/mm
1418Y744			
125/200 EXC	3,6 N/mm	3,8 N/mm	4,0 N/mm
1418Y745	40.117		4 6 11 /
250 SX	4,2 N/mm	4,4 N/mm	4,6 N/mm
1418Y746	2 2 11 /	4.0.117	4.0.117
250/300 MXC, EXC	3,8 N/mm	4,0 N/mm	4,2 N/mm

Checking the basic setup of the telescopic fork

The precise riding sag of the telescopic fork cannot be determined for various reasons. Similar to the shock absorber, smaller deviations in your weight can be compensated by adjusting the spring preload. However, if your telescopic fork bumps frequently (hard end stop during compression), you should install harder fork springs to avoid damaging the telescopic fork and frame.

Changing the spring preload on the telescopic fork (SX models)

The telescopic forks of the SX models come with a preload adjuster for easy adjustment of the spring preload. You can adjust the spring preload \pm 9 mm by turning the adjusting screws (basic position = middle position).

NOTE:

Always turn the adjusting screws the same distance on both fork legs. Different spring preloads on the fork legs will reduce the telescopic fork's response.

Changing the spring preload on the telescopic fork (MXC/EXC models)

The telescopic forks for these models must be partly disassembled to adjust the spring preload (see WP manual). Pretension spacers are available in heights of 1.5, 2.5 and 5 mm (see spare parts catalog). The fork springs may not be pretensioned by more than 20 mm.

The preload adjuster used in the SX models can easily be retrofitted for the telescopic forks of the MXC/EXC models.

NOTE:

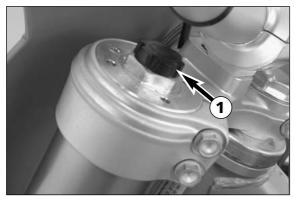
WP precisely adjusts the spring pressure by inserting pretension spacers. Fluctuations in production are compensated with pretension spacers in various heights. This can cause the fork springs in the fork legs to have different degrees of pretension. Fork springs and pretension spacers should always stay together.

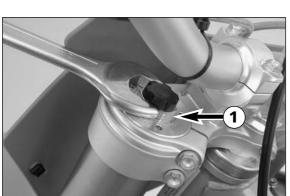
Replacing fork springs

If you weigh less than 70 kg or more than 80 kg, you should install the respective fork springs. The correct spring rate is shown in the illustrations. The standard spring is shown in bold print. The type number of the telescopic fork is embossed on the caps on the top of the telescopic fork.

If you are uncertain which spring to use, contact your KTM workshop.

According to our experience, the damping rate of the compression stage can remain unchanged. The damping rate of the rebound stage can be reduced by a few clicks for a softer spring or increased by a few clicks for a harder spring.





Adjusting the spring preload on the fork (SX)

The spring preload on the SX models can be adjusted (changed) by 10 mm by turning adjusting screw **①**.

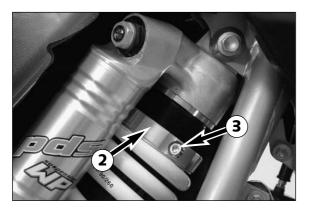
Turning in a clockwise direction will increase the prestress, turning in a counterclockwise direction will decrease the prestress.

Changing the spring preload will not affect the rebound damping adjustment.

Génerally, if the spring preload is higher, the rebound damping should also be set higher.

STANDARD SETTING:

Unscrew the adjusting screw to the limit and then back 2 turns.



Changing the spring preloading of the shock absorber

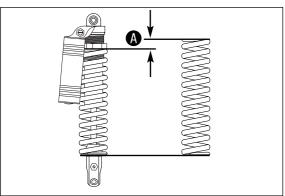
The spring preload can be changed by turning the adjusting ring ②. For this purpose, you should dismount the shock absorber and clean it thoroughly.

NOTE:

- Before changing the spring preload note down the basic setting, e.g. how many threads are visible above the adjusting ring.
- One rotation of the adjusting ring 2 changes the spring pretension by approximately 1.75 mm (0.07 in).

Loosen the clamping screw **3** and use the hook wrench contained in the vehicle tool set to turn the adjusting ring as desired. Turning it counterclockwise will reduce the preload, turning it clockwise will increase the preload.

After readjusting the clamping screw 3, tighten it to 8 Nm (6 ft.lb)



ADJUSTMENT VALUES - SPRING PRELOAD
minimum preload..... 4 mm (0.15 in)

STANDARD PRELOAD. . . 4 mm (0.16 in) (125, 200), 5 mm (0.20 in) (250, 300)

maximum preload 10 mm (0.4 in)

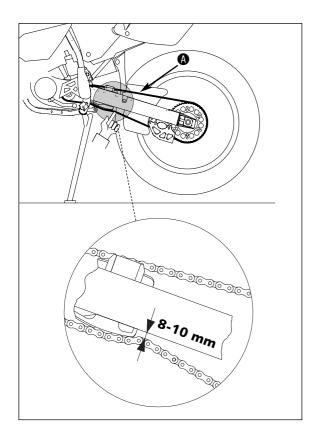




Pivot bearing

The pivot bearing • for PDS suspension struts at the swinging fork is Teflon-coated and must not be lubricated with either grease or other lubricants. Grease and other lubricants cause the Teflon coat to dissolve, whereby the bearing's lifecycle will be reduced dramatically.

When cleaning your bike with a high-pressure cleaner, do not aim the high-pressure spray directly at the pivot bearing.



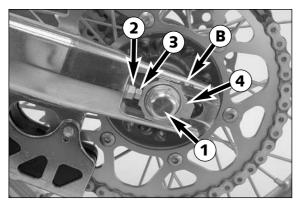
Check chain tension

Jack the motorcycle up on its frame so that the rear wheel no longer touches the ground.

Press the chain upward at the end of the chain sliding component. The distance between the chain and the swing arm should be approx. 8 - 10 mm (0.31 - 0.39 in). In the course of this procedure, the upper chain portion must be taut (see drawing). If necessary, correct the chain tension.

∆ WARNING

- If the Chain tension is too great, parts within the secondary transmission (Chain, Chain wheels and rear wheel bearings) will be subjected to unnecessary stress, resulting in premature wear and even chain breakage.
- TOO MUCH SLACK IN THE CHAIN, ON THE OTHER HAND, CAN RESULT IN THE CHAIN
 JUMPING OFF THE CHAIN WHEELS. IF THIS HAPPENS, THE CHAIN COULD ALSO BLOCK
 THE REAR WHEEL OR DAMAGE THE ENGINE.
- IN EITHER CASE THE OPERATOR IS LIKELY TO LOSE CONTROL OF THE MOTORCYCLE.



Correct chain tension

Loosen collar nut **1**, loosen lock nuts **2**, and turn right and left adjusting screws **3** equally far. Tighten lock nuts.

Before tightening the collar nut, verify that the chain adjusters **4** are sitting close to the adjusting screws and that the rear wheel has been aligned with the front wheel.

Tighten collar nut 1 to 80 Nm (60 ft.lb).



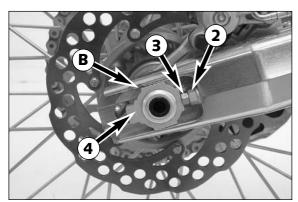
- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU
 HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS
 POSSIBLE. A LOOSE AXLE MAY LEAD TO AN UNSTABLE DRIVING BEHAVIOR OF
 YOUR MOTORCYCLE.
- TIGHTEN THE COLLAR NUT WITH THE REQUIRED TORQUE. A LOOSE WHEEL SPINDLE MAY LEAD TO AN UNSTABLE BEHAVIOR OF YOUR MOTORCYCLE.

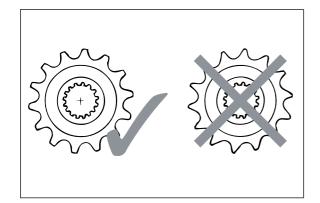


The large adjusting range of the chain adjusters (32mm) allows you to use different secondary ratios in combination with the same chain length. The chain adjusters **4** can be rotated by 180°.



 ${\sf A}{\sf LWAYS}$ mount the chain tensioner equally aligned.





Chain maintenance

For long chain life, good maintenance is very important. X-ring chains require only modest maintenance. The best way is to use lots of water, but never use brushes or solvents. After letting the chain dry, you can use a special X-ring chain spray (Motorex Chainlube 622).

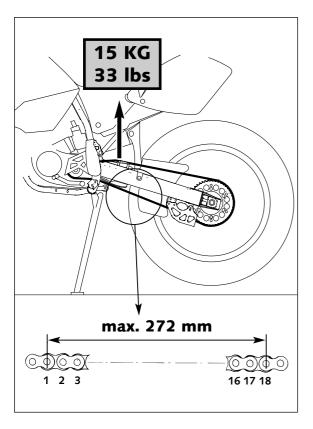
△ WARNING △

NO LUBRICATION IS ALLOWED TO REACH THE REAR TIRE OR THE BRAKE DISK, EITHERWISE THE ROAD ADHERENCE AND THE REAR WHEEL BRAKING EFFECTS WOULD BE STRONGLY REDUCED AND THE MOTORCYCLE COULD EASILY GET OUT OF CONTROL.

CAUTION

When mounting the chain joint, the closed side of the safety device must point in running direction.

Also check sprockets and chain guides for wear, and replace if necessary.



Chain wear

To check the chain wear, observe the following indications:

Shift the gear into idling and pull the upper chain strand with approx. 10-15 kilograms (33 lb) upwards (see figure). Now one can measure a space of 18 chain reels at the lower chain strand. The chain should be replaced at the latest when a space of 272 mm (10.70 in) is measured. Chains do not always wear off evenly, therefore repeat the measurement at different places on the chain.

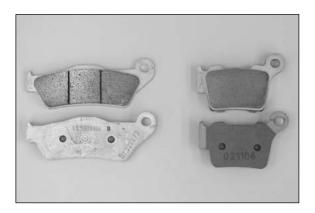
NOTE:

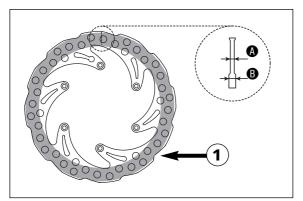
If you mount a new chain, the sprockets should also be replaced. New chains wear faster if used on old used sprockets.

! CAUTION

When you assemble a rear sprocket with 14T, the collar must be on the inside Secure the screws of the chain wheel by applying Loctite and fasten them in a crosswise order.

TIGHTENING TORQUE FOR NUTS: 35 NM TIGHTENING TORQUE FOR SCREWS: 50 NM







BRAKE CALIPERS:

The brake calipers of this series use a "floating" mount. This means that the brake calipers are not solidly attached to the caliper support, which enables them to "float" for maximum braking contact. Secure the screws of the caliper support with Loctite 243 and tighten to 25 Nm (19 ft.lb).

BRAKE PADS:

The brake pads are fitted with TOSHIBA TT 2701 sintered lining at the front and TOSHIBA H 38 sintered lining at the back. These linings provide an optimal combination of dosing, brake performance and life cycle. The lining type is stated on the back of the brake pad and also recorded in the homologation papers.

Other brake pads are available for competition sports.

FRONT: TOSHIBA H 38 (SINTERED) – harder to dose, good brake performance, long life, for wet slippery terrain.

FERODO ID 450 (ORGANIC) – easy to dose, good brake performance short life for dry torrain law price

mance, short life, for dry terrain, low price.

REAR: FERODO 4424 (organic) – better controllability, shorter service life, for dry terrain.

TOSHIBA H38 (Sinter) - longer service life than FERODO 4424,

higher braking performance.

BRAKE DISCS:

Due to wear, the thickness of the brake disc in the area of the contact face • of the brake pads decreases. At their thinnest point • , the brake discs must not be more than 0.40 mm (0.016 in) thinner than the pad's nominal thickness. Measure the nominal thickness in a location • outside the contact face. Check wear at several locations.



- Brake discs suffering from Wear Greater than 0.4 mm (0.016 in) constitute a safety risk. Have the brake discs replaced immediately as soon as they reach the Wear Limit.
- HAVE ANY REPAIRS ON THE BRAKE SYSTEM BE PERFORMED BY A KTM DEALER

BRAKE FLUID RESERVOIRS:

The brake fluid reservoirs on the front and rear wheel brakes have been designed in such a way that even if the brake pads are worn it is not necessary to top up the brake fluid. If the brake fluid level drops below the minimum level either the brake system has a leak or the brake pads are completely worn.

In this case, consult an authorized KTM dealer immediately.

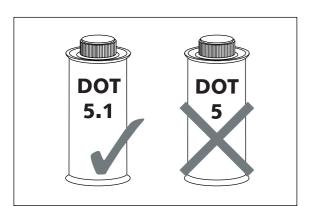
BRAKE FLUID:

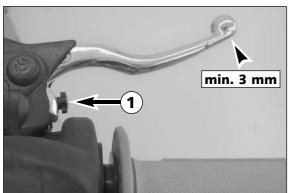
KTM fills the brake systems with Motorex Brake Fluid DOT 5.1 brake fluid, one of the best brake fluids is currently available. We recommend that you continue to use it. DOT 5.1 brake fluid is based on glycol ether and of an amber color. If you do not have any DOT 5.1 for refilling, you may use DOT 4 brake fluid. However, you should replace it as soon as possible with DOT 5.1.

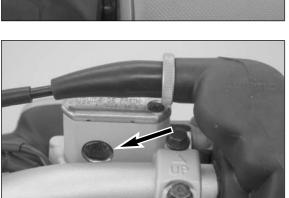
Never use brake fluid DOT 5. The color of this silicon oil-based product is purple red. The gaskets and brake hoses of KTM motorcycles are not designed for DOT 5 brake fluid.



HAVE THE BRAKE FLUID CHANGED AT LEAST ONCE ANNUALLY. IF YOU WASH YOUR MOTORCYCLE OFTEN, THE BRAKE FLUID SHOULD BE CHANGED EVEN MORE FREQUENTLY. BRAKE FLUID TENDS TO ABSORB WATER. THEREFORE, VAPOR POCKETS MAY FORM IN "OLD" BRAKE FLUIDS EVEN AT LOW TEMPERATURES, CAUSING THE BRAKE SYSTEM TO FAIL.







Adjusting the free travel at the hand brake lever

Free travel at the hand brake lever may be readjusted by using adjustment screw ①. In this way, the position of the point of pressure (i.e. the resistance you feel on the hand brake lever when the brake pads are pressed against the brake disc) can be adjusted for any hand size.

When you press the hand brake lever forwards, you should have at least 3 mm free travel. Turn the adjusting screw **1** if necessary.

CAUTION

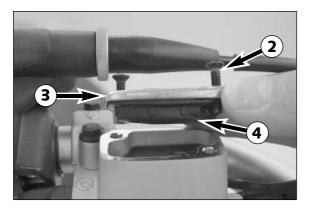
At the hand brake lever, free travel must at least be 3 mm (0.1 in). Only then may the piston in the hand brake cylinder be moved (to be recognized by the greater resistance of the hand brake lever). If this free travel is not provided, pressure will build up in the braking system, and the front-wheel brake may fail due to overheating.

Checking the brake fluid level - front brake

The brake fluid reservoir is linked with the hand brake cylinder at the handlebar and the reservoir is provided with an inspection glass. With the reservoir in a horizontal position, the brake fluid level should not drop below the middle of the glass.



If the brake fluid level drops below the minimum either the brake system has a leak or the brake pads are completely worn. In this case, consult an authorized KTM dealer immediately.



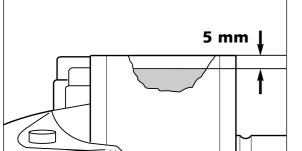
Refilling the front brake fluid reservoir *

Loosen screws 2 and remove lid 3 and membrane 4.

Place hand brake cylinder in a horizontal position and fill the brake fluid reservoir to 5 mm (0.2 in) below the rim with clean brake fluid DOT 5.1 (e.g. Motorex Brake Fluid DOT 5.1). Replace membrane and lid, tighten screws. Rinse off spilled or overflowing brake fluid with water.

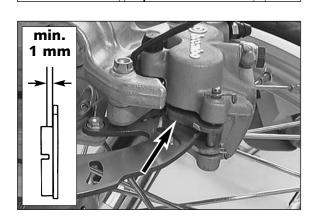
MEVER USE DOT5 BRAKE FLUID! IT IS BASED ON SILICONE OIL AND OF A PURPLE

- NEVER USE DOTS BRAKE FLUID! IT IS BASED ON SILICONE OIL AND OF A PURPLE COLOR. SEALS AND BRAKE HOSES MUST BE ESPECIALLY ADAPTED TO IT.
- STORE BRAKE FLUID OUT OF REACH OF CHILDREN.
- Brake fluid can cause skin irritation. Avoid contact with skin and eyes. If you get brake fluid in your eyes, rinse with plenty of water and consult a doctor



CAUTION

- DON'T LET BRAKE FLUID GET IN CONTACT WITH PAINT, IT IS AN EFFECTIVE PAINT REMOVER.
- Use only clean brake fluid taken from a tightly sealed container.



Checking the front brake pads

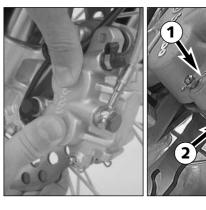
The brake pads can be inspected from below. The linings must be at least 1 mm (0.04 in) thick.

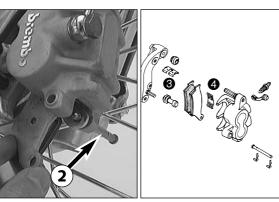
∆ WARNING

AT THEIR MOST WORN POINT BRAKE PAD LININGS SHOULD NOT BE THINNER THAN 1 MM, OTHERWISE THEY COULD LEAD TO BRAKE FAILURE. FOR YOUR OWN SAFETY DON'T PUT OFF HAVING YOUR BRAKE PADS CHANGED.

! CAUTION !

IF THE BRAKE PADS ARE REPLACED TOO LATE SO THAT THE LINING IS PARTLY OR ENTIRELY WORN, THE STEEL COMPONENTS OF THE BRAKE PAD WILL RUB AGAINST THE BRAKE DISC, THEREBY IMPARING THE BRAKING EFFECT AND DESTROYING THE BRAKE DISC.







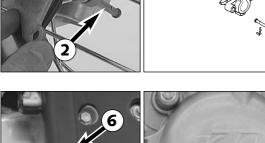
Press the brake caliper toward the brake disk, to put the brake piston in its basic position. Remove clips 1 and pull out bolt 2. Remove brake pads from the brake caliper. Clean the brake caliper and the brake caliper support with compressed air. Check the sleeves of the guide bolts for damage, and grease guide bolts if necessary.

Mount the right brake pad and fix it with the bolt. Mount the left brake pad and insert the bolt until it stops. Mount the clips.

When mounting the brake pads, be sure to check for correct fit of the sliding metal-sheet 3 in the caliper support and of the leaf spring 4

WARNING

- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND FATTY MATTERS. OTHERWISE, THE BRAKING EFFECT WOULD BE STRONGLY REDUCED.
- AFTER ASSEMBLY, CHECK IF CIRCLIPS HAVE BEEN FITTED CORRECTLY.
- 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.



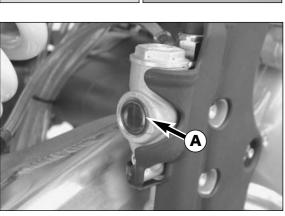
Changing the basic position of the foot brake pedal *

The basic position of the foot brake pedal can be altered by turning the stop screw 6. The free play at the foot brake pedal must then be adjusted by means of the piston rod 6.

Measured on the outside, the foot brake pedal must have 3-5 mm (0.12-0.20 in) of free play before the piston rod can move the piston in the brake cylinder (to be recognised from the resistance on the foot brake pedal).



IF THIS FREE PLAY IS NOT PRESENT, THEN PRESSURE CAN BUILD UP IN THE BRAKE SYSTEM WHEN DRIVING, CAUSING THE REAR WHEEL TO BRAKE. THE BRAKING SYSTEM OVERHEATS AND MAY EVEN FAIL COMPLETELY IN EXTREME CASES.



3-5mm

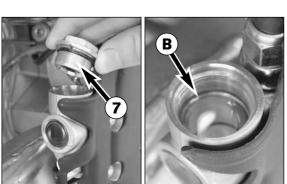
Checking the rear brake fluid level

The reservoir for the rear brake disk is located on the right side of the motorcycle on the rear brake cylinder.

No air bubble should be visible in inspection glass • when the vehicle is parked in a vertical position.

WARNING

If the brake fluid level drops below the minimum either the brake system has a LEAK OR THE BRAKE PADS ARE COMPLETELY WORN. IN THIS CASE, CONSULT AN AUTHO-RIZED KTM DEALER IMMEDIATELY.



Refilling the rear brake fluid reservoir *

Add brake fluid as soon as a bubble is visible in inspection glass .

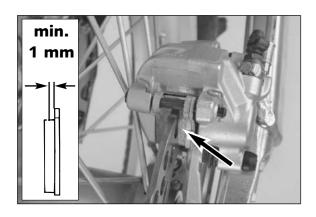
To top up, remove screw **1**. Fill DOT5.1 brake fluid (e.g. Motorex Brake Fluid 5.1) up to the mark **3** on the inside of the reservoir and remount the screw. Spilled brake fluid must be rinsed off with water.

WARNING

- Never use DOT5 brake fluid! It is based on silicone oil and of a purple COLOR. SEALS AND BRAKE HOSES MUST BE ESPECIALLY ADAPTED TO IT.
- STORE BRAKE FLUID OUT OF REACH OF CHILDREN.
- Brake fluid can cause skin irritation. Avoid contact with skin and eyes. If YOU GET BRAKE FLUID IN YOUR EYES, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR.

CAUTION

- DON'T LET BRAKE FLUID GET IN CONTACT WITH PAINT, IT IS AN EFFECTIVE PAINT REMOVER.
- USE ONLY CLEAN BRAKE FLUID TAKEN FROM A TIGHTLY SEALED CONTAINER.



Checking the rear brake pads

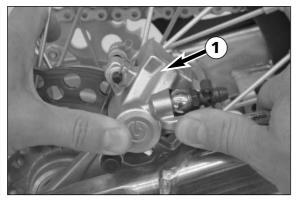
The brake pads can be inspected from the rear. The thickness of the linings may not be less than 1 mm (0.04 in).



AT THEIR MOST WORN POINT BRAKE PAD LININGS SHOULD NOT BE THINNER THAN 1 MM, OTHERWISE THEY COULD LEAD TO BRAKE FAILURE. FOR YOUR OWN SAFETY DON'T PUT OFF HAVING YOUR BRAKE PADS CHANGED.

CAUTION

IF THE BRAKE PADS ARE REPLACED TOO LATE SO THAT THE LINING IS PARTLY OR ENTIRELY WORN, THE STEEL COMPONENTS OF THE BRAKE PAD WILL RUB AGAINST THE BRAKE DISC, THEREBY IMPARING THE BRAKING EFFECT AND DESTROYING THE BRAKE DISC.



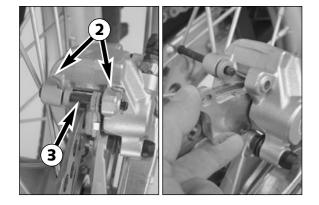
Replacing the rear brake pads *

Press the brake caliper • in the direction of the chain wheel for the brake piston to reach its basic position. Remove the safety device 2, knock out the guide pin 6 from the brake caliper with a drift towards the chain wheel and remove the brake pads. Carefully clean the brake caliper with compressed air and check the sleeves of the guide pins for damage.

Slide the left brake pad into the brake caliper and fix it with the pin. Slide in the right brake pad and knock the bolt 3 in as far as it will go. Mount the safety device 2.



- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND FATTY MATTERS. OTHERWISE, THE BRAKING EFFECT WOULD BE STRONGLY REDUCED.
- AFTER ASSEMBLY, CHECK IF CIRCLIPS HAVE BEEN FITTED CORRECTLY.
- After working on the braking system, one must always actuate the hand BRAKE LEVER OR FOOT BRAKE LEVER, RESPECTIVELY SO AS TO ENSURE THAT THE BRAKE PADS WILL LIE AGAINST THE BRAKE DISK AND THE PRESSURE POINT IS ESTABLISHED.



Dismounting and mounting the front wheel

To remove the front wheel, jack the motorcycle up on its frame so that the front wheel no longer touches the ground.

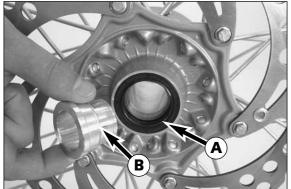
Loosen the 2 clamping screws **4** on the left side of the fork fists.

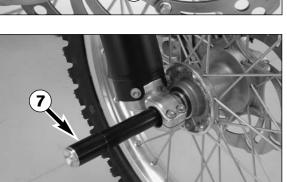
Loosen and remove the collar nut 6, loosen the clamping screews 6 on the right side of the fork fist.

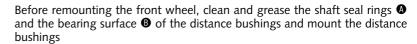
Hold the front wheel, pull out the wheel spindle **1** Carefully remove the front wheel from the fork.

CAUTION

- DO NOT OPERATE THE HAND BRAKE WHEN THE FRONT WHEEL HAS BEEN DISMOUNTED.
- MAKE SURE THE BRAKE DISC IS ALWAYS ON TOP WHEN YOU LAY DOWN THE WHEEL, OTHERWISE THE BRAKE DISC CAN BE DAMAGED.







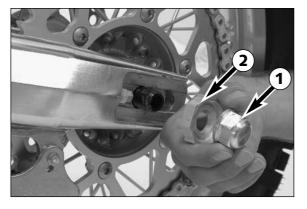
To install the front wheel, lift it into the fork, position and mount the axle shaft. Mount the collar nut **⑤**, tighten the clamping screws **⑥** on the right fork leg axle passage to prevent the axle shaft from turning and tighten the collar nut to 40 Nm (30ft.lb).

Loosen the clamp screws on the right fork leg. Take the motorcycle down from its stand. Press the front wheel brakes and push down on the fork a few times vigorously so that the fork legs come into alignment.

Only after this has been accomplished, tighten the clamp screws on both fork legs with 10 Nm(7 ft. lbs).

∆ WARNING

- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE. A LOOSE AXLE MAY LEAD TO AN UNSTABLE DRIVING BEHAVIOR OF YOUR MOTORCYCLE.
- AFTER MOUNTING THE FRONT WHEEL, KEEP OPERATING THE HAND BRAKE UNTIL THE PRESSURE POINT RETURNS.
- It is very important to keep the brake disk free from oil and fatty matters, otherwise the braking effect would be strongly reduced.



Dismounting and mounting the rear wheel

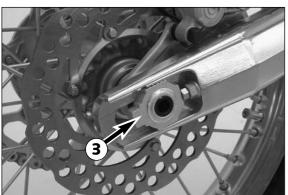
Jack the motorcycle up on its frame so that the rear wheel no longer touches the ground.

Loosen the collar nut **①**, remove chain tensioner **②**, hold the rear wheel and pull out the wheel spindle **③** until the rear wheel is free but the brake caliper support is still held.

Push the rear wheel as far forward as possible, take the chain from the chain wheel and carefully take the rear wheel out of the swingarm.

CAUTION

- DO NOT OPERATE THE REAR BRAKE WHEN THE REAR WHEEL HAS BEEN DISMOUNTED.
- MAKE SURE THE BRAKE DISC IS ALWAYS ON TOP WHEN YOU LAY DOWN THE WHEEL,
 OTHERWISE THE BRAKE DISC CAN BE DAMAGED.
- IF THE AXLE IS DISMOUNTED, CLEAN THE THREAD OF THE WHEEL SPINDLE AND COLLAR NUT THOROUGHLY AND APPLY A NEW COAT OF GREASE TO PREVENT THE THREAD FROM JAMMING.

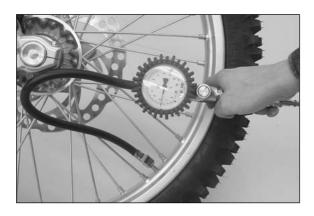




The rear wheel is remounted in the reverse order. Before tightening the collar nut to 80 Nm (60 ft.lb), push the rear wheel forwards so that the chain tensioners lie on the tension screws.

∆ WARNING

- If you don't happen to have a torque wrench at hand, make sure you
 have the tightening torque corrected by a KTM dealer as soon as possible. A loose axle may lead to an unstable driving behavior of your
 motorcycle.
- AFTER MOUNTING THE REAR WHEEL, KEEP OPERATING THE REAR BRAKE UNTIL THE PRESSURE POINT RETURNS.
- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND FATTY MATTERS,
 OTHERWISE THE BRAKING EFFECTS WOULD BE STRONGLY REDUCED.
- TIGHTEN THE COLLAR NUT WITH THE REQUIRED TORQUE. A LOOSE WHEEL SPINDLE MAY LEAD TO AN UNSTABLE BEHAVIOR OF YOUR MOTORCYCLE.



TIRES-AIR PRESSURE					
	front	rear			
Off road	1,0 bar	1,0 bar			
Road	1,5 bar	2,0 bar			

Tires, air pressure

Tire type, tire condition, and air pressure level affect the way your motorcycle rides and must therefore be checked whenever you are getting ready to go anywhere on your motorcycle.

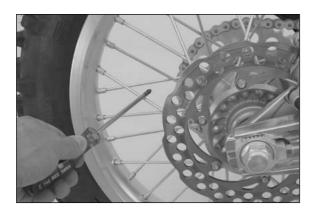
- Tire size can be found in the technical specifications and in the homologation certificate
- Tire condition has to be checked every time you want to ride your motorcycle. Before leaving, check tires for punctures and nails or other sharp objects that might have become embedded in them. Refer to the specific regulations in your country for minimum tire tread requirements. We recommend you replace the tires at the latest when
- Tire pressure should be checked regularly on a "cold" tire. Proper pressure ensures optimum driving comfort and extends the life of your tires.

	\triangle	WA	RNING		\triangle		
_	Do иот моинт	TIRES WHICH HAVE	NOT BEEN A	PPROVED BY	KTM.	OTHER :	TIRES
	COULD HAVE ADVE	RSE EFFECTS ON TH	E WAY YOUR	MOTORCYCLE	BEHAV	ES.	
_	EDONT AND DEAD A	AUTEL C MANY ONLY	DE FITTED W/I	THE TIDES HAVE	NC THE	CAMET	

- FRONT AND REAR WHEELS MAY ONLY BE FITTED WITH TIRES HAVING THE SAME TREAD LAYOUT. USE HOMOLOGATED TIRES
- FOR YOUR OWN SAFETY REPLACE DAMAGED TIRES IMMEDIATELY.

the tread is down to 2 mm (0.08 in).

- Worn tires can have a negative effect on how your motorcycle per-FORMS, ESPECIALLY ON WET SURFACES
- If air pressure is too low, abnormal wear and overheating of the tire can

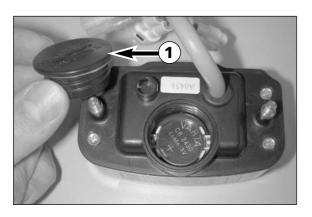


Checking spoke tension

The correct spoke tension is very important for the stability of the wheels and thus for riding safety. A loose spoke causes the wheel to become unbalanced and before long other spokes will have come loose. Check spoke tension, especially on a new motorcycle, at regular intervals. For checking, tap on each spoke with the blade of a screwdriver (see photo). A clear tone must be the result. Dull tones are indicators of loose spokes. If necessary, have the spokes retightened and the wheel centered by a KTM dealer.



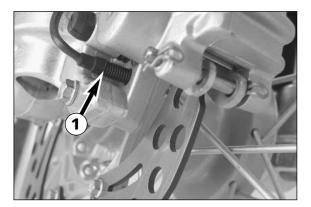
- SPOKES CAN TEAR IF YOU CONTINUE TO RIDE WITH THEM LOOSE. THIS MAY LEAD TO AN UNSTABLE HANDLING OF YOUR MOTORCYCLE.
- EXCESSIVELY TENSIONED SPOKES MAY RUPTURE DUE TO LOCAL OVERLOADING. THE SPOKES MUST BE TENSIONED TO 6 Nm.



Replacing the battery of the digital speedometer

Remove the headlight mask and disassemble the electronic speedometer. Remove the screw connection **1**, insert the battery (type Duracell CR 2430) with the writing facing up and reinstall the screw connection.

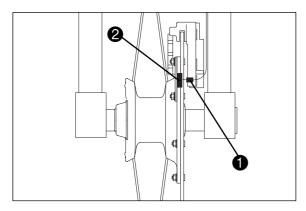




Check/set distance of the magnetic sensor

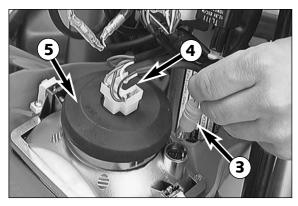
The distance between the magnet 2 and the sensor 1 must be 2-4 mm, otherwise malfunctions on the speedometer might occur.

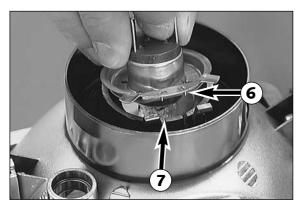
This distance can be corrected by screwing the sensor **1** in or off.



Replacing the headlight lamp/parking light lamp

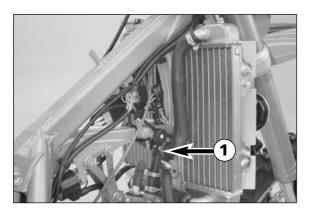
Loosen both rubber bands and tilt the headlight mask to the front. Pull the parking light lamp with holder 3 carefully out of the reflector. Pull connector of the headlamp and remove rubber cap . Disengage retaining clip and take the bulb out of the reflector. When changing the parking-light lamp, simply pull it out of the holder.

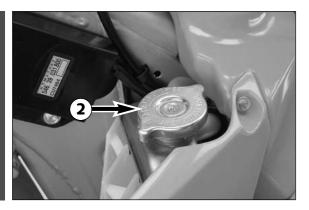




Insert a new lamp such that the noses 6 engage in the recesses 6. When doing so, do not touch the glass body of the lamp so that it remains free from fat. Engage retaining clip, mount rubber cap and connector. If the parking-light lamp is to be replaced, simply insert it in the holder. Reinsert parking-light lamp together with the holder.

Engage the bottom end of the headlamp mask at the retaining pins and fix the mask by means of the rubber bands.





Cooling system

The water pump in the engine circulates the cooling liquid. However, the cooling liquid can only circulate properly if the cooling circuit contains no air bubbles.

Bleeding of the cooling system is therefore required a) after adding more than 0.25 I cooling liquid and b) after refilling the entire cooling system. (see Bleeding the cooling system).

Some models are equipped with a thermostat ① so that the engine reaches its operating temperature more quickly. When the engine is cold, the liquid coolant circulates in the cylinder and the cylinder head. As soon as the cooling liquid has reached a temperature of approximately 55°C, the thermostat opens and the cooling liquid is also pumped through the two aluminum radiators.

The cooling liquid is cooled by the air stream. This means that the cooling effect decreases with the traveling speed. Dirty radiators additionally reduce the cooling effect.

∆ WARNING

- IF POSSIBLE, ALWAYS CHECK LEVEL OF COOLING LIQUID WHEN ENGINE IS COLD. IF YOU
 HAVE TO OPEN THE RADIATOR CAP WHEN THE ENGINE IS HOT, USE A RAG TO COVER
 THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE. CAUTION SCALDING HAZARD.
- DO NOT DETACH ANY RADIATOR HOSES WHILE THE ENGINE IS HOT. THE ESCAPING HOT COOLANT AND THE STEAM MAY CAUSE SERIOUS BURNS.
- IN CASE YOU GET BURNT, HOLD THE AFFECTED PART OF YOUR BODY UNDER RUNNING COLD WATER RIGHT AWAY.
- COOLANT IS TOXIC. KEEP THE COOLANT OUT OF THE REACH OF CHILDREN.
- In case coolant is ingested, consult a doctor immediately.
- If coolant gets into your eyes, rinse them out with water immediately and go see a doctor.

A mixture of 40% antifreeze liquid and 60% water is used as coolant. However, the antifreeze protection must be at least -25° C (-13° F). This mixture offers antifreeze protection but also good corrosion protection and should therefore not be replaced by pure water.

! CAUTION

For the cooling system, use only with high-grade antifreeze (e.g. Motorex Anti- Freeze). Using lower-grade antifreeze agents can cause corrosion and coolant foaming.

Pressure induced by heating of the coolant in the system is controlled by a valve in the radiator cap ②; a water temperature of up to 120° C (248° F) is admissible without, having to expect any trouble.

Radiator cover for the cold season

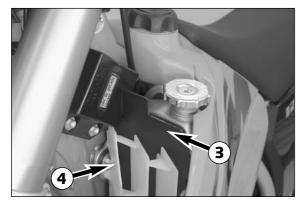
To ensure that the engine reaches its operative temperature also at low temperatures, the radiator cover **③** must be mounted.

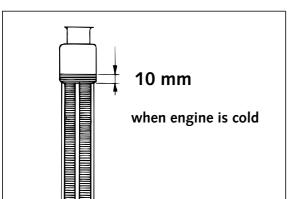
For this purpose, detach the left radiator protection 4 and mount the cover

in front of the left radiator as illustrated.

Remount the radiator protection.

NOTE: The radiator shutter can be obtained from your KTM dealer





Checking the coolant level

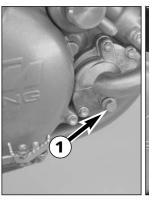
The coolant should be 10 mm (0.4 in) above the radiator fins when the engine is cold (see diagram). In the event of the coolant being drained, always fill and bleed the system.

△ WARNING △

IF POSSIBLE, ALWAYS CHECK THE LEVEL OF COOLING LIQUID WHEN THE ENGINE IS COLD. IF YOU HAVE TO OPEN THE RADIATOR CAP WHEN THE ENGINE IS HOT, USE A RAG TO COVER THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE.

! CAUTION !

The cooling system must be bled after draining the cooling liquid or after adding more than $0.25\ \text{L}$ ($0.06\ \text{US}$ gallons) cooling liquid.



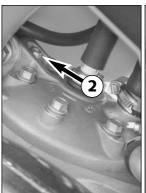


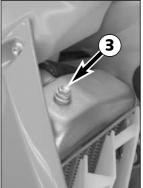
Refilling/Bleeding the cooling system

The cooling system must be bled as described below after draining the cooling liquid or after adding more than $0.25\ I$ ($0.06\ US$ gallons) cooling liquid.

Make sure that the drain screw **1** is fastened.

Pour approx. 0.5 litres (0.13 US gallons) coolant into the system.





Remove screw ② at the cylinder head. Reinstall it as soon as the cooling liquid emerges free of air bubbles (only for 125/200 engines).

Remove the screw **3** on the right radiator.

Now add cooling liquid until it emerges free of bubbles at the right radiator. Then immediately mount the screw so that no more air can enter the right radiator.

Top up the left radiator until the coolant can be seen approx. 10 mm (0.4 in) above the radiator fins.

Check the coolant level again after a short ride.





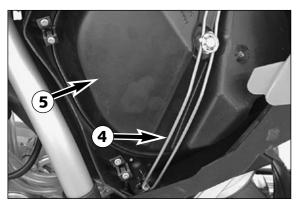
The air filter must be cleaned prior to each race or whenever dust has accumulated. To clean, lift the filter box cover

(see illustration) and pull off towards the front.

Detach the bottom of the filter retaining bracket 4, tilt aside and remove the throttle cap 5 and the air filter 6 and filter support 7 from the filter box. The SX models do not have a throttle cap.

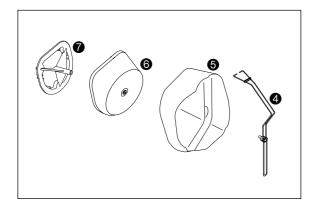


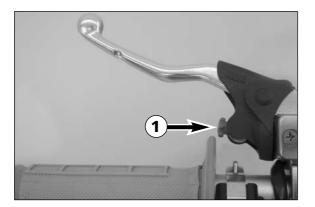
Do not clean the air filter with fuel or petroleum since these will damage the foam. KTM recommends the products made by Motorex for air filter maintenance. For cleaning purposes and to oil the air filter.



Thoroughly wash the air filter in special cleaning fluid (Motorex Bio Dirt Remover) and allow it to dry well. Only press out the filter, do not wring it out under any circumstances. Oil the dry air filter with a high-grade filter oil (Motorex liquid Bio Power). Also clean the air filter box. Check the carburetor collar for damage and that it is filled correctly.

Mount the air filter on the filter support. Insert the air filter and filter support in the throttle cap and mount them in the filter box, aligning in a central position, and fix with the filter retaining bracket.





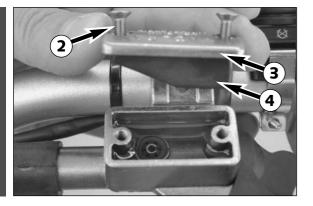
Changing the original position of the clutch lever

The adjusting screw **1** can be used for individual adjustment of the original position of the clutch lever, thus allowing adjustment to an optimal position for every hand size.

Turning the adjusting screw clockwise reduces the distance between the clutch lever and the handlebar. Turning the adjusting screw counterclockwise increases the distance between the clutch lever and the handlebar.

CAUTION

ADJUSTMENT OF THE CLUTCH LEVER POSITION IS ONLY POSSIBLE WITHIN CERTAIN LIMITS. ONLY TURN THE ADJUSTING SCREW MANUALLY AND NEVER APPLY EXCESSIVE FORCE.



Checking the oil level of the hydraulic clutch

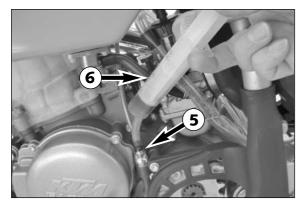
To check the oil level in the master cylinder of the clutch remove the cover. For this purpose, remove screws 2 and cover 3 together with the rubber boot 4. The oil level in the horizontaly positioned master cylinder should be 4 mm below the upper edge.

If necessary, fill up with biodegradable hydraulic oil SAE 10 (e.g. Motorex Kupplungs- Fluid 75). Biodegradable hydraulic oil is available from your KTM dealer (50ml).



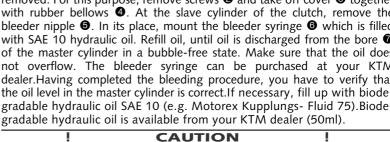
KTM USES BIODEGRADABLE HYDRAULIC OIL FOR THE HYDRAULIC CLUTCH CONTROL. NEVER MIX BIODEGRADABLE HYDRAULIC OILS WITH MINERAL OILS.

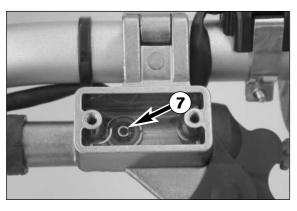
ALWAYS USE BIODEGRADABLE HYDRAULIC OIL SAE 10 TO FILL UP THE MASTER CYLINder. Never refill with mineral hydraulic oil or brake fluid.



Bleeding of the hydraulic clutch

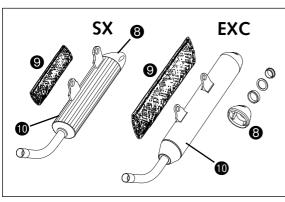
To bleed, the cover of the master cylinder of the clutch needs to be removed. For this purpose, remove screws 2 and take off cover 3 together with rubber bellows 4. At the slave cylinder of the clutch, remove the bleeder nipple 3. In its place, mount the bleeder syringe 3 which is filled with SAE 10 hydraulic oil. Refill oil, until oil is discharged from the bore • of the master cylinder in a bubble-free state. Make sure that the oil does not overflow. The bleeder syringe can be purchased at your KTM dealer. Having completed the bleeding procedure, you have to verify that the oil level in the master cylinder is correct. If necessary, fill up with biodegradable hydraulic oil SAE 10 (e.g. Motorex Kupplungs- Fluid 75). Biode-





KTM USES BIODEGRADABLE HYDRAULIC OIL FOR THE HYDRAULIC CLUTCH CONTROL. NEVER MIX BIODEGRADABLE HYDRAULIC OILS WITH MINERAL OILS.

ALWAYS USE BIODEGRADABLE HYDRAULIC OIL SAE 10 TO FILL UP THE MASTER CYLINder. Never refill with mineral hydraulic oil or brake fluid.



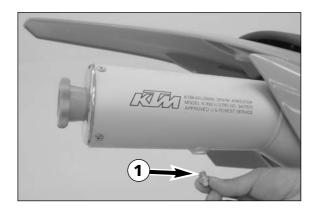
Exhaust system *

Silencers whose cap 3 is detachable are filled with glass-fiber yarn. Let this package be ckecked at least after 4000 km or at once a year. Glass-fiber yarn that is too loose may cause a drop in performance and curtail the silencer's silencing effect.

To replace the glass-fiber yarn packing 9, remove the silencer cap and pull off the outer tube **1** Use adhesive tape to attach the new glass-fiber yarn packing to the inner tube, and slide on outer tube. Mount silencer cap. Glass-fiber yarn packings are available at your authorized KTM dealer.

WARNING

THE EXHAUST SYSTEM BECOMES VERY HOT WHILE THE MOTORCYCLE IS RUNNING. DO NOT START WORK ON THE EXHAUST SYSTEM UNTIL IT HAS PROPERLY COOLED DOWN, TO AVOID BURNS.



Cleaning the spark arrestor (EXC USA) *

With these models, the spark arrestor is part of the exhaust silencer. Clean it every 4000 km (2500 miles) to guarantee proper functioning. Also clean the spark arrestor when replacing the glassfiber yarn filling.

After assembling the silencer, remove the plug • and start the motorcycle. Close the opening of the muffler with a rag and press the accelerator approximately 20 times. The carbon deposits will be blown out through the opening. Then turn off the engine and let the exhaust system cool down. Grease the plug with molycote grease and mount the plug.

Carburetor adjustment *

Basic information on the original carburetor setting

The original carburetor setting was adapted for an altitude of approx. 500 meters (1600 ft.) above sea level, and the ambient temperature of approx. 20° C (68° F), mainly for off-road use and central European premium-grade fuel (95 ROZ). Mixing ratio (2-stroke motor oil : super fuel)

1:40 – 1:60 (depends on oil quality)

Basic information on changing the carburetor setting

Always start with the original carburetor setting (the provided factory setting is meant for break-in operation; after the break-in period, the carburetor needs to be adjusted according to the carburetor datasheet - see appendix). Essential requirements are a clean air filter system, air-tight exhaust system and an intact carburetor. Experience has shown that adjusting the main jet, the idling jet and the jet needle is sufficient and that changes of other parts of the carburetor will not greatly affect engine performance.

RULE OF THUMB: high altitude or high temperatures low altitude or low temperatures

- choose leaner carburetor adjustment
- → choose richer carburetor adjustment

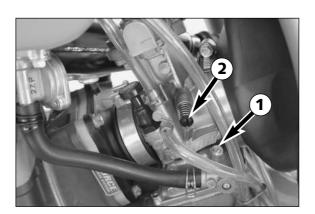
∆ WARNING ∆

- ONLY USE PREMIUM-GRADE GASOLINE ROZ 95 (USA = Premium RON 91) MIXED WITH HIGH-GRADE TWO-STROKE ENGINE OIL. OTHER TYPES OF
 GASOLINE CAN CAUSE ENGINE FAILURE, AND WILL VOID YOUR WARRANTY.
- Only use high-grade 2-stroke engine oil of known brands (e. g. Motorex Cross Power 2T).
- NOT ENOUGH OIL OR LOW-GRADE OIL CAN CAUSE EROSION OF THE PISTON. IF YOU USE TOO MUCH OIL THE ENGINE CAN START SMOKING AND FOUL
 THE SPARK PLUG AND THE EXHAUST CONTROL SYSTEM.
- In the case of a leaner adjustment of the carburetor, proceed cautiously. Always reduce the jet size in steps of one number to avoid
 overheating and piston seizure.

NOTE: If the engine does not run properly despite a changed adjustment, look for mechanical faults and check the ignition system.

Basic information on carburetor wear

As a result of engine vibrations, throttle valve, jet needle, and needle jet are subjected to increased wear. This wear may cause carburetor malfunction (e.g. overly rich mixture). Therefore, these parts should be replaced after 10000 kilometers (6000 miles).



Definitions

Mixture too rich:

Too much fuel in proportion to air.

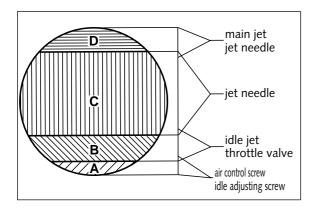
Mixture too lean:

Not enough fuel in proportion to air.

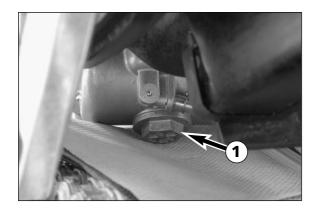
Idling range A

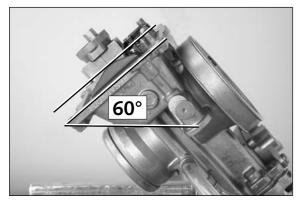
Operation with closed throttle valve. This range is influenced by the position of the air control screw ② and the air control screw ③. Only make adjustments when the engine is hot.

To this end, slightly increase the idling speed of the engine by means of the air control screw. Turning it clockwise produces a higher idling speed and turning the screw counterclockwise produces a lower idling speed. Create a round and stable engine speed using the air control screw (basic position of the air control screw = open by 1.5 turns). Then adjust to the normal idling speed by means of the air control screw.



JET NEEDLE TYPE	RANGE OF ACTION RICHER LEANER
NOZD	←
NOZE	←
NOZF	←
NOZG	←
NOZH	←





Opening up **B**

Engine behavior when the throttle opens. The idle jet and the shape of the throttle valve influences this range. If, despite good idling-speed and part-throttle setting, the engine sputters and smokes when the throttle is fully opened and develops its full power not smoothly but suddenly at high engine speeds, the mixture to the carburetor will be too rich, the fuel level too high or the float needle is leaking.

Part-throttle range **C**

Operation with partly open throttle valve. This range is only influenced by the jet needle (shape and position). The optimum part-throttle setting is controlled by the idling setting in the lower range and by the main jet in the upper range. If the engine runs on a four-stroke cycle or with reduced power when it is accelerated with the throttle partly open, the jet needle must be lowered by one notch. If then the engine pings, especially when accelerating under full power at maximum engine revs, the jet needle should be raised.

If these faults should occur at the lower end of the part throttle range at a four-stroke running, make the idling range leaner; if the engine pings, adjust the idling range richer.

Full throttle range **D**

Operation with the throttle fully open (flat out). This range is influenced by the main jet and the jet needle. If the porcelain of the new spark plug is found to have a very bright or white coating or if the engine rings, after a short distance of riding flat out, a larger main jet is required. If the porcelain is dark brown or black with soot the main jet must be replaced by a smaller one.

Draining the float chamber of the carburetor

Following every wet-cleaning procedure, the float chamber of the carburetor should be drained in order to remove any water that may have penetrated into it. Water in the float chamber leads to engine malfunction.

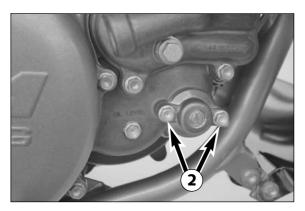
Make sure you do this while the engine is cold. Close the fuel tap, and place a cloth under the carburetor, which is capable of absorbing the leaking fuel. Unscrew the plug ① and clean it with compressed air. Then, mount the plug together with the gasket, open the fuel tap, and check the float chamber for leaks.

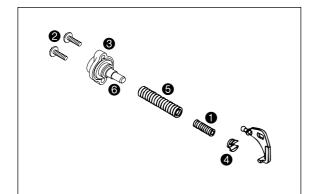
△ WARNING

Fuel is easily flammable and toxic. When handling fuel, be sure to exercise the utmost caution. Never perform any work on the fuel system near open flames or burning cigarettes. Always allow the engine to cool off first. Immediately clean up any fuel which may have been spilled. Materials saturated with fuel are also easily flammable. In case you ingested fuel or fuel splashed into your eyes, consult a doctor immediately. Dispose of the fuel properly.

Checking the float level *

Arrange the carburetor diagonally at about 60° so that the spring in the float needle valve is not pressed together. In this position, the edge of the float should be parallel with the float chamber sealing surface (see illustration).





Engine characteristic 250/300 SX/MXC/EXC*

The engine characteristic can be modified through various thicknesses of the auxiliary spring ①. An auxiliary spring designed for "good driveability" (smooth power application) is mounted in the condition at delivery. Mount the auxiliary spring included in the scope of delivery (more power in the medium speed range) if you prefer an "aggressive engine characteristic."

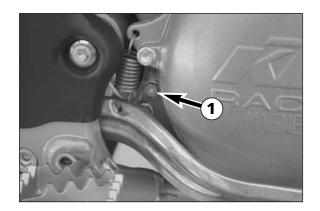
Auxiliary spring for good driveability (mounted in condition at delivery) Spare part number 546.37.072.300, YELLOW color mark

Auxiliary spring for aggressive engine characteristic (included in scope of supply). Spare part number 548.37.072.000, RED color mark

To mount, tilt the motorcycle approx. 45° to the left, remove both screws ②, lift off the closing cover ③ and remove the springs including the spring insert ④ from the clutch cover. Pull both springs off the spring insert, mount the red auxiliary spring and the control spring ⑤ and slide both into the clutch cover until the recess in the spring insert ④ engages in the rocker arm. Check the O-ring in the closing cover mount the closing cover, ensuring that the dolly screw ⑥ engages in the auxiliary spring. Make sure you do not turn the dolly screw since this will impair the engine

characteristic.

If you prefer a smoother engine power application, you can mount a different ignition rotor and a different exhaust. Ask your KTM dealer for more information.

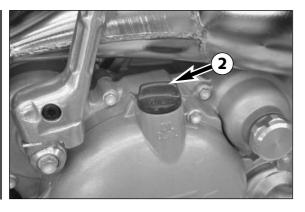


Check transmission oil level (125/200)

In order to check the transmission oil level the control screw **1** on the clutch cover is to be removed. Oil should just barely escape from the inspection opening when the motorcycle is in an upright position. If necessary, remove the plug **2** and top up with oil (see technical data engine).

! CAUTION

Transmission and clutch will be subjected to excessive wear and tear if you use too little or low grade oil. Use only high-grade oil.

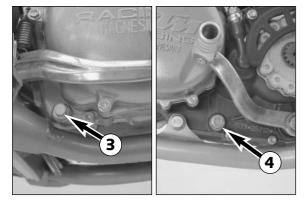


Changing the transmission oil (125/200) *

To change the gear oil warm up the engine and park the motorcycle on a horizontal surface. Remove oil drain plugs ③ and ④ and drain the used oil into an appropriate container. Clean the magnets of the oil drain plugs and mount them together with the appropriate gaskets. Fill in 0.7 I oil (see technical data- engine), mount the plug ② and check the engine for leaks.

CAUTION

Transmission and clutch will be subjected to excessive wear and tear if you use too little or low grade oil. Use only high-grade oil.

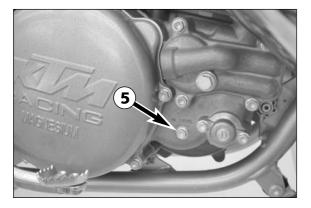


Check transmission oil level (250/300)

In order to check the transmission oil level the control screw **⑤** on the clutch cover is to be removed. Oil should just barely escape from the inspection opening when the motorcycle is in an upright position. If necessary, remove the plug **⑥** and top up with oil (see technical data- engine).

CAUTION

Transmission and clutch will be subjected to excessive wear and tear if you use too little or low grade oil. Use only high-grade oil.

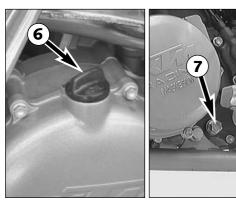


Changing the transmission oil (250/300) *

To change the transmission oil run the engine warm and set up the motorcycle on a horizontal surface. Remove the oil drain screw and drain used oil into a container. Clean the magnet of the oil drain screw and reinstall oil drain screw with seal. Pour in 0.7 litres engine oil (see technical data engine), replace plug and check engine for leaks.

! CAUTION

Transmission and clutch will be subject to excessive wear and tear, if you use too little or low grade oil. Use only high-grade oil.



CLEANING

Clean your motorcycle regularly in order to maintain the beauty of its plastic surfaces.

The best manner would be to use warm water that has been mixed with a normal brand-name washing detergent and a sponge. The hard dirt can be removed before washing with the help of a soft water jet.

! CAUTION

Never clean your motorcycle with a high-pressured cleaner or a high-pressured water jet. The water could otherwise run into the electrical components, connectors, sheathed cables, bearings, carburetor, etc. and cause disturbances or lead to a premature destruction of these parts.

- Before cleaning with water, plug the exhaust pipe to prevent water ingress.
- You should use normal brand-name detergents to clean the motorcycle. Especially dirty parts should also be cleaned with the help of a paint brush.
- After the motorcycle has been rinsed with a soft water jet, it should be dried by air pressure and a cloth. Then take a short drive until the engine has reached the working temperature and also use the brakes. By warming these components, the residual water can evaporate from inaccessable parts of the engine and the brakes.
- Slide back the protective covers on the handlebar-mounted instruments so that any water that may have seeped into this part of the motorcycle is allowed to evaporate.
- After the motorcycle has cooled down, oil and grease all the gliding bearing parts. Treat the chain with a chain spray.
- To prevent failures in the electric system, you should treat the ignition lock, the emergency OFF switch, the short circuit button, the light switch and the socket connectors with contact spray.

CONSERVATION FOR WINTER OPERATION

In the event that the motorcycle is also used in winter and on roads where one has to expect salt spraying, you will have to take precautions against the aggressive road salt.

- clean the motorcycle thoroughly and let it dry after each ride
- treat the engine, carburetor, swing arm, and all other bare or galvanized parts (except for brake discs) with a wax-based anti-corrosion agent.

 \triangle WARNING \triangle

KEEP THE ANTI-CORROSION AGENT FROM GETTING INTO CONTACT WITH THE BRAKE DISCS, OTHERWISE THIS WILL SIGNIFICANTLY REDUCE THE BRAKING POWER.

! CAUTION

AFTER RIDES ON SALTED ROADS, CLEAN MOTORCYCLE THOROUGHLY WITH COLD WATER AND LET IT DRY WELL.

STORAGE

Should you wish to make a pause over a longer space of time, please observe the following instructions:

- Clean motorcycle thoroughly (see chapter: CLEANING)
- Change engine oil (old engine oil contains aggressive contaminants).
- Check antifreeze and amount of cooling liquid.
- Let the engine warm up again, close fuel cock and wait until the engine dies off by itself. In this way the carburetor jets are prevented from becoming resin- clogged by the old fuel.
- Remove spark plug and fill in approx. 5 ccm of engine oil into the cylinder through the opening. Actuate kick-starter 10 times in order to distribute the oil onto the cylinder walls and mount the spark plug.
- Let fuel flow out of tank into an appropriate container.
- Correct tire pressure.
- Lubricate bearing points of the control levers, footrests, etc. as well as the chain.
- The storage place should be dry and not be subjected to too big temperature fluctuations.
- Cover the motorcycle with an air permeated tarp or blanket. Do not use non airtight materials as a possible humidity might not be
 able to escape and thereby cause corrosion.

! CAUTION

IT WOULD BE VERY BAD TO LET THE ENGINE RUN FOR A SHORT TIME DURING THE STORAGE PERIOD. THE ENGINE WOULD NOT GET WARMED UP ENOUGH AND THE THUS DEVELOPED STEAM WOULD CONDENSE DURING THE COMBUSTION PROCESS AND CAUSE THE VALVES AND EXHAUST TO RUST.

USE AFTER A PERIOD OF STORAGE

- Fill up the tank with fresh fuel.
- Check the motorcycle as before each start (see driving instructions)
- Take a short, careful test ride first.

NOTE: Before you put your motorcycle away for the winter, you should check all parts for their function and wear. Should any service jobs, repairs, or any refitting be necessary, you should have them carried out during the off-season (lower workload at mechanics' shops). This way, you can avoid the long waiting times at your shop at the beginning of the next biking season.

TECHNICAL SPECIFICATIONS – CHASSIS 125 / 200 SX, EXC 2004

	125 SX	125 EXC	200 SX	200 EXC
Frame		Central chr	Central chrome-moly-steel frame	
Fork		White Power	White Power – Upside down 48 MA	
Wheel travel front/rear		300/335	300/335 mm (11.8/13.2 in)	
Rear suspension		WP PDS 5018 (P rogressive D ampin ₈	WP PDS 5018 (Progressive Damping System) shock absorber, aluminium swingarm	
Front brake		Disc brake with carbon-steel brake	Disc brake with carbon-steel brake disc Ø 260 mm (10.2 in), brake caliper floated	
Rear brake		Disc brake with carbon-steel brake	Disc brake with carbon-steel brake disc Ø 220 mm (8.7 in), brake caliper floated	
Brake discs		Wear limit n	Wear limit max. 0.4 mm (0.016 in)	
Front tires	80/100 - 21"51M, M59	90/90 - 21" MT83	80/100 - 21"51M, M59	90/90 - 21" MT83
Front tires USA	80/100 - 21"51M, M59	I	80/100 - 21"51M, M59	80/100 - 21"51M, 59
Air pressure offroad	1.0 bar (14psi)	1.0 bar (14psi)	1.0 bar (14psi)	1.0 bar (14psi)
Air pressure road driver only	I	1.5 bar (21psi)	ı	1.5 bar (21psi)
Rear tires	100/90 - 19" 57M, M70	120/90 - 18" MT 83	100/90 - 19" 57M, M70	120/90 - 18" MT83
Rear tires USA	100/90 - 19" 57M, M70	I	100/90 - 19" 57M, M70	100/100 - 18" 59M, M402
Air pressure offroad	1.0 bar (14psi)	1.0 bar (14psi)	1.0 bar (14psi)	1.0 bar (14psi)
Air pressure road driver only	I	2.0 bar (28psi)	ı	2.0 bar (28psi)
Fuel tank capacity	7.5 liters (2 US Gallons)	9 liters (2.3 US Gallons)	7.5 liters (2 US Gallons)	9/11 liter (2.3/2.9 US gallons)
Final drive ratio	13:50t	14:38t	14:48t	14:45t / 14:48t
Final drive ratio USA	13:50t	13:50t	14:48t	14:48t
Chain			5/8 x 1/4 "	
Available final sprockets		38t, 40t, 4	38t, 40t, 42t, 45t, 48t, 50t, 52t	
Bulbs		headlight narking light	HS1 12V 35/35W 12V 5W (hase W2 1x9 5d)	
		ramment light	12V 1,2W (base W2, 1x4,6d)	
		brake- rear light	12V 21/5W (base BaY15d)	
		flasher light	12V 10W (base Ba15s)	
		license plate illumination	12V 1,2W (base 1x4,6d)	
Steering head angle			63°	
Wheel base		1461 ± 10	1461 ± 10 mm (57,3 ± 0,4 in)	
Seat height, unloaded		929	925 mm (36,5 in)	
Ground clearance unleaded		368	390 mm (15 3 in)	

STANDARD ADJUSTMENT - FORK					
	125/200 SX	125/200 EXC			
	WP 4860 MXMA	WP 4860 MXMA			
	1418Y743	1418Y744			
Compression adjuster	18	20			
Rebound adjuster	18	20			
Spring	4,2 N/mm	3,8 N/mm			
Spring preload	6 mm	5 mm			
Air chamber length	90 mm	120 mm			
Fork oil	SAE 5	SAE 5			

STANDARD ADJUSTA	STANDARD ADJUSTMENT - SHOCK ABSORBER					
	125/200 SX	125/200 EXC				
	WP 5018 PDS-DCC	WP 5018 PDS-MCC				
	1218Y767	1218Y768				
Compression adjuster	17 LS (low speed)	19				
	2 HS (high speed)					
Rebound adjuster	22	24				
Spring	80/250	84/250				
Spring preload	4 mm	4 mm				

TIGHTENING TORQUES - CHASSIS					
Collar screw, front wheel spindle	M 24x1,5	40 Nm			
Brake caliper, front	M 8	Loctite 243 + 25 Nm			
Brake disk, front	M 6 10.9	Loctite 243 + 15 Nm			
Brake disk, rear	M 6	Loctite 243 + 15 Nm			
Clamping screws, upper fork bridge	M 8	20 Nm			
Clamping screws, lower fork bridge	M 8	15 Nm			
Clamping screws, fork stubs	M 8	10 Nm			
Collar nut, rear wheel spindle	M 20x1,5	80 Nm			
Hexagon nut, swing arm bolt	M 16x1,5	100 Nm			
Hexagon collar screw, handlebar clamp	M 8	20 Nm			
Allan head screw, handlebar support	M 10	Loctite 243 + 40 Nm			
Shock absorber, top	M 12	60 Nm			
Shock absorber, bottom	M 12	60 Nm			
Sprocket screws	M 8	Loctite 243 + 35 Nm			
Ball joint for push rod	M 6	Loctite 243 + 10 Nm			
Engine mounting bolt	M 10	45 Nm			
Engine brace	M 8	33 Nm			
Screw adjusting ring spring preload shock abs.	M6	8 Nm			
Spoke nipple	M4,5 /M5	6 Nm			
Other screws on chassis	M 6	10 Nm			
	M 8	25 Nm			
	M 10	45 Nm			
Other collar nuts on chassis	M 6 M 8	15 Nm 30 Nm			
	M 10	50 Nm			

TECHNICAL DATA – ENGINE 125 / 200 SX, EXC 2004

Engine	125 SX	125 EXC	200 SX	200 EXC
Design		Liquid-cooled, single-cylinder, two-stroke engine with intake and exhaust control	engine with intake and exhaust control	
Piston displacement	124.	124.8 ccm	193 ccm	ma
Bore / stroke	54 / 54.5 mm (54.5 mm (2.126 / 2.145 in)	64 / 60 mm (2.52 .	i2 / 2.362 in)
Fuel	unleade	unleaded fuel with at least RON 95 (USA = Premium RON 91), mixed with high grade two stroke oil	n RON 91), mixed with high grade two stro	ke oil
Oil / gasoline ratio	1:40-1:60 when u	1:40-1:60 when using high grade, two- stroke oil (Motorex Cross Power 2T). When in doupt, please contact your importer	oss Power 2T). When in doupt, please cont	ıct your importer
Crankshaft bearing		1 deep-groove ball bearing / 1 cylinder roller bearing	/ 1 cylinder roller bearing	
Connecting rod bearing		needle bearing	earing	
Piston pin bearing		needle bearing	earing	
Piston		cast piston	ston	
Piston ring	one plain compression ring	two plain compression rings	one plain compression ring	two plain compression rings
Dimension "X "(upper edge piston- upper edge cylinder)		mm 0'0	mr.	
Ignition timing	1.4 mm (0.055 in) (16.5°) BT	in) (16.5°) BTDC	1.6 mm (0.063 in) (17°) BTDC	(17°) BTDC
Spark plug		NGK BR9 EVX		NGK BR 8 EG
Electrode gap		mm 09'0	, um	
Dimension "Z" (height of the control flap)	43 mm	43 mm (1.67 in)	46 mm (1,81 in)	47 mm (1.85 in)
Primary drive		straight cut spur gears, primary ratio 23:73	, primary ratio 23:73	
Clutch		multiple disc clutch in oil bath, hydraulically operated (Motorex Kupplungs-Fluid 75)	operated (Motorex Kupplungs-Fluid 75)	
Transmission	5 speed, claw actuated		6 speed, claw actuated	
Gear ratio				
1st gear	13:32 "1532"	12:33 "1G33"	13:32 "1532"	13 : 33 "1G33"
2nd gear	,,2815" 15 : 30 ,,2830"	"2S15" 15 : 31 "2G31"	,,2S15" 15 : 30 ,,2S30"	"2S15" 15 : 31 "2G31"
3rd gear	,,3817" 17 : 28 ,,3828"	,,3817" 17 : 28 ,,3828"	,,3517" 17 : 28 ,,3528"	,,3817" 17 : 28 ,,3828"
4th gear	,,4S19" 19 : 26 ,,4S26"	,,4819" 19 : 26 ,,4826"	,,4819" 19 : 26 ,,4826"	,,4S19" 19 : 26 ,,4S26"
5th gear	"5S21" 21 : 25 "5S25"	,,5S21" 21 : 25 ,,5S25	,,5S21" 21 : 25 ,,5S25	"5G17" 21 : 25 "5G19"
6th gear		"6G20" 20 : 20 "6G20"	,,6S22" 20 : 23 ,,6S23"	"6G22" 20 : 20 "6G20"
Gear lubrication		0.7 Lengine oil (Motorex Top Speed 4T 15W50)	Top Speed 4T 15W50)	
Available chain sprockets		132 / 142 / 152	for chain 5/8 x 1/4"	
Coolant		1.2 litres, 40% anti freeze, 60% water, at least -25 °C (-13 °F)	water, at least -25 °C (-13 °F)	
Ignition system	KOKUSAN 2K-1	KOKUSAN 2K-3	KOKUSAN 2K-3	KOKUSAN 2K-3
Generator output	no genaerator	12V / 110 W	12V / 110 W	12V 110 W
Ignition system USA	KOKUSAN 2K-1	KOKUSAN 2K-2	KOKUSAN 2K-3	KOKUSAN 2K-2
Generator output	no genaerator	12V 40 W	12V / 110 W	12V 40 W
Carburetor		flat-slide carburetor, carburetor setting see table	uretor setting see table	
Air-filter		wet foam type air filter insert	air filter insert	

TIGHTENING TORQUES - ENGINE		
Flange bolts - cylinder-head	M 7	18 Nm
Nuts-cylinder base	M 8	30 Nm
Flywheel collar nut	M 12x1	60 Nm
Nut for primary sprocket (LH thread)	M 16x1.5	180 Nm
Nut for inner clutch hub	M 18x1.5	120 Nm
Crankcase and clutch cover bolts	M 6	8 Nm
Spark plug	M 14x1.25	20 Nm
Swingarm pivot	M 16x1.5	100 Nm
Other screws	M 6	10 Nm
	M 8	25 Nm
	M 10	45 Nm

BASIC CARBURETOR	SETTING				
	125 SX	200 EXC USA	200 SX	200 EXC AUS 200 EXC EU	125 EXC EU 125 EXC AUS
Carburetor	Keihin PWK 39	Keihin PWK 38 AG	Keihin PWK 39	Keihin PWK 38 AG	Keihin PWK 38 AG
Carburetor setting number	141102	080202	151102	100202	070202
Main jet	188 (185/190)	178(180/185)	188 (185/190)	180 (178)	148 (180/185)
Idling jet	45 (48)	45 (48)	45 (48)	35 (45/48)	35 (45/48)
Starting jet	85	85	85	85	85
Jet needle	R 1469 D (R 1468 D)	NOZ E (NOZ F)	R 1468G (R1469G)	R 1475J (NOZ E/NOZ F)	R 1472 N (NOZ E/NOZ F)
Needle position from top	II	III	III	III	V
Throttle valve	5.5	6.5	5.5	6.5	6.5
Air adjustment screw open	1,5	1,5	1,5	1,5	1,5
Performance restrictor	_	-	_	slide stop36mm	_

	250 SX	300 MXC	250/300 EXC		
Frame	Central chrome-moly-steel frame				
Fork		White Power – Up Side Down 48 MA	1		
Wheel travel front/rear		300/335 mm (11.8/13.2 in)			
Rear suspension	WP PDS 5018 (P ro	gressive D amping S ystem) shock absorb	er, aluminium swingarm		
Front brake	Disc brake with car	bon-steel brake disc Ø 260 mm (10.2 in), brake caliper floated		
Rear brake	Disc brake with ca	rbon-steel brake disc Ø 220 mm (8.7 in)	, brake caliper floated		
Brake discs		Wear limit max. 0,4 mm (0,016 in)			
Front tires	80/100 - 21" M59, M59	_	90/90 - 21" MT83		
Front tires USA	_	80/100 - 21"51M, M59	80/100 - 21"51M, M59		
Air pressure offroad	1,0 bar	1,0 bar (14psi)	1,0 bar (14psi)		
Air pressure road driver only	1,5 bar	1,5 bar (21psi)	1,5 bar (21psi)		
Rear tires	110/90 - 19" M62, M70	_	140/80 - 18" MT 83		
Rear tires USA	_	100/100 - 18" 64M, M402	100/100 - 18" 64M, M402		
Air pressure offroad	1,0 bar	1,0 bar (14psi)	1,0 bar (14psi)		
Air pressure road driver only	2,0 bar	2,0 bar (28psi)	2,0 bar (28psi)		
Fuel tank capacity	7,5 liter (1,98 US Gallons)	11 liter (2,9 US Gallons)	9/11 liter (2,3/2,9 US Gallons)		
Final drive ratio	13:50t	_	13:42t / 13:50t		
Final drive ratio USA		13:50t 13:50t			
Chain		5/8 x 1/4 "			
Available final sprockets		38t, 40t, 42t, 45t, 48t, 50t, 52t			
Bulbs	headligh	t HS1 12V	35/35W		
	parking	light 12V 5W (l	pase W2, 1x9,5d)		
	instrume	ent light 12V 1,2W	(base W2, 1x4,6d)		
	brake- re	ear light 12V 21/5\	V (base BaY15d)		
	flasher li	ght 12V 10W	(basel Ba15s)		
	license p	plate illumination 12V 1,2W	(base 1x4,6d)		
Steering head angle		63°			
Wheel base		1475 ± 10 mm (58,1 ± 0,4 in)			
Seat height, unloaded		925 mm (36,5 in)			
Ground clearance, unloaded		385 mm (15,2 in)			

STANDARD ADJUSTMENT-FORK					
	250 SX	250/300 MXC,EXC			
	WP 4860 MXMA	WP 4860 MXMA			
	1418Y745	1418Y746			
Compression adjuster	18	20			
Rebound adjuster	18	20			
Spring	4,4 N/mm	4,0 N/mm			
Spring preload	6	5			
Air chamber length	90	120			
Fork oil	SAE 5	SAE 5			

STANDARD ADJUST	MENT - SHOCK ABSO	RBER
	250 SX	250/300 MXC, EXC
	WP 5018 PDS-DCC	WP 5018 PDS-MCC
	1218Y769	1218Y770
Compression adjuster	12 LS (low speed)	19
	2 HS (high speed)	
Rebound adjuster	26	24
Spring	84/250	88/250
Spring preload	5 mm	5 mm

TIGHTENING TORQUES - CHASSIS		
Collar screw, front wheel spindle	M 24x1,5	40 Nm
Brake caliper, front	M 8	Loctite 243 + 25 Nm
Brake disk, front	M 6 10.9	Loctite 243 + 15 Nm
Brake disk, rear	M 6	Loctite 243 + 15 Nm
Clamping screws, upper fork bridge	M 8	20 Nm
Clamping screws, lower fork bridge	M 8	15 Nm
Clamping screws, fork stubs	M 8	10 Nm
Collar nut, rear wheel spindle	M 20x1,5	80 Nm
Hexagon nut, swing arm bolt	M 16x1,5	100 Nm
Hexagon collar screw, handlebar clamp	M 8	Loctite 243 + 20 Nm
Allan head screw, handlebar support	M 10	Loctite 243 + 40 Nm
Shock absorber, top	M 12	60 Nm
Shock absorber, bottom	M 12	60 Nm
Sprocket screws	M 8	Loctite 243 + 35 Nm
Ball joint for push rod	M 6	Loctite 243 + 10 Nm
Engine mounting bolt	M 10	45 Nm
Engine brace	M 8	33 Nm
Screw adjusting ring spring preload shock abs.	M6	8 Nm
Spoke nipple	M4,5 /M5	6 Nm
Other screws on chassis	M 6	10 Nm
	M 8	25 Nm
	M 10	45 Nm
Other collar nuts on chassis	M 6	15 Nm
	M 8	30 Nm
	M 10	50 Nm

TECHNICAL DATA – ENGINE 250/300 SX, MXC, EXC 2004

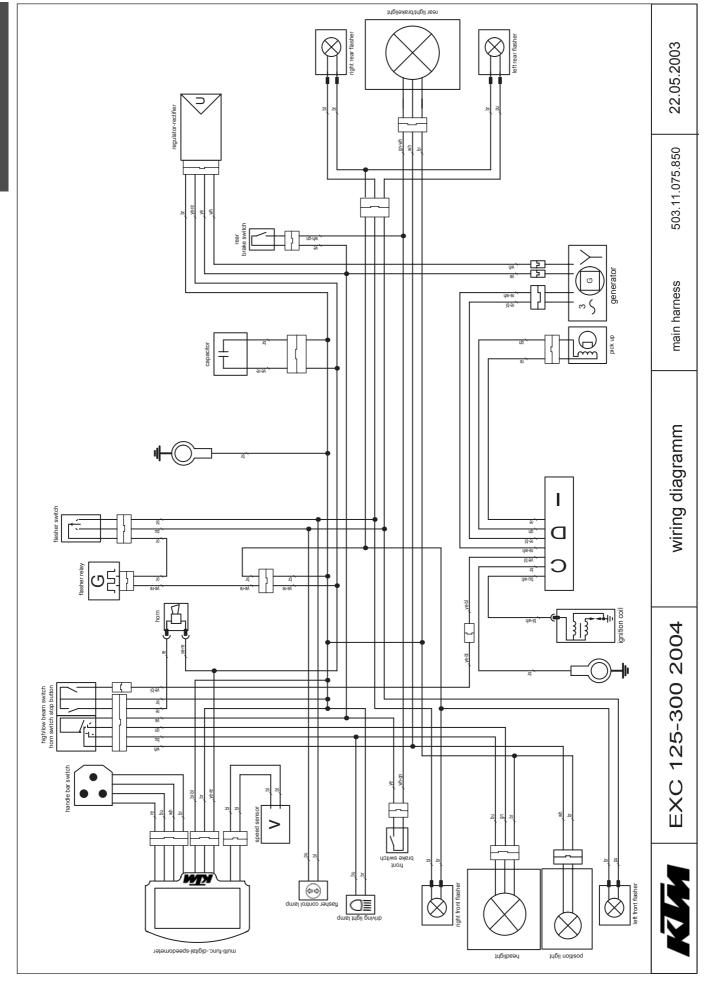
Design Liquid-cooled single-cylinder to control engine with KTM You'n Valve Control exhaust system and KTM Torque Channel Design Liquid-cooled single-cylinder of single-cylinder of spekerent 229.3 cm Ener / stock Annual Call of Stock Annual Call of Stock Find Total Call of Stock Annual Call of Stock Find Total Call of Stock Annual Call of Stock Candidath Call of Stock Annual Call of Stock Annual Call of Stock Poston into the same plan compression rings Total call of Stock Annual Call of Stock Poston into the same plan compression rings Total Call of Stock Annual Call of Stock Poston ring the same plan compression rings Total plan of Call of Stock Annual Call of Stock Stock plug Rectored general call of Stock Annual Call of Stock Annual Call of Stock Stock plug Total stock Annual Call of Ca	Engine	250 SX	250 EXC	300 MXC/EXC
249 ccm	Desgin	Liquid-cooled single-cylinder tw	o-stroke engine with KTM Twin Valve Control exhaust sys	stem and KTM Torque Chamber
1400	Piston displacement	249	ccm	293,15 ccm
unleaded fuel with at least RON 99 olino ratio aft bearing ing rod bearing n compression rings NCK BR 8 ECM RUCK BR 8 ECM NCK BR 8 ECM 14:28 16:26 18:24 21:24 21:24 21:24 21:24 21:24 21:24 22:21 NCK BR 8 ECM NOOR BR	Bore / stroke		(2.62 / 2.84 in)	72 / 72 mm (2.84 / 2.84 in)
olino ratio aft bearing ing rod bearing n bearing n bearing n bearing n women using high grade, two aft bearing n bearing n "X" upper eight plates." By one plain compression rings n "X" upper eight plates. By one plain compression rings n "X" upper eight plates. By one plain compression rings n "X" upper eight plates. By one plain compression rings n NGK BR 8 ECM NGK BR 8 ECM NGK BR 8 ECM Topen NGK BR 8 ECM NGK BR 8 ECM Topen NGK BR 8 ECM Topen NGK BR 8 ECM NGK BR 8 ECM Topen NGK BR 8 ECM	Fuel	unleaded fuel with at least RON 95	5 (USA = Premium RON 91), mixed with high grade two st	troke oil (Motorex Cross Power 2T)
1 deep groove ball bearing 1 deep groove ball bearing 1 cylinder roller bearing 1	Oil / gasolino ratio	1:40 – 1:60 when using high grade, two	- stroke oil. When in dout, please contact your importer or	use 1:40 mix ratio to be on the safe side
Decaring Decaring Decaring Decaring Decaring	Crankshaft bearing		1 deep-groove ball bearing / 1 cylinder roller bearing	
n bearing cast biston cast piston cast piston compression rings (as piston cast piston compression rings) graph cast biston (0 + 0,1 mm (0 + 0,004 in) 1,9 mm vor OT in) 1,0 mm vor in) 1,0 mm	Connecting rod bearing		needle bearing	
Cast piston	Piston pin bearing		needle bearing	
Pace	Piston		cast piston	
1,9 mm vor OT 1,9 mm vor	Piston ring	one plain compression rings	two plain com	pression rings
1,9 mm vor OT NGK BR 8 ECM 1,9 mm vor OT NGK BR 7 ES	Dimension "X" (upper edge piston - upper edge cylinder)		+	
Agg NGK BR 8 ECM NGK BR 7 ES 8 gap 0,60 mm 0,60 mm n 12*** "Combos lang" not 1 open 48,5 mm (19 in) - 0.2 mm (0,008 in) 1 open 2500/min 2500/min 4 open straight cut spur gears, primary ratio 26:72 drive multiple disc clutch in oil bath, hydraulically operated (Motorex Kupplungs- Fluid 75) sion 141:28 5 speed, claw actuated o 16:26 19:23 18:24 20:30 EXC 18:24 20:20 18:24 20:23 1 aii sprockets 1:32.7 42.7 15Z for chain %x %r nain sprockets 1:31 Hers, 40% antifreeze, 60% water, at least -25 °C (-13 °F) system KOKUSAN 2K-3 or output 1.2V 40W An output 4 flat-slide carburetor, carburetor setting see table An output 4 flat-slide carburetor, acting see table	Ingition timing		1,9 mm vor OT	
2. gap 11 - 2. v	Spark plug	NGK BR 8 ECM	NGK B	_
1 copen 1 copen 1 copen 2 cool/min (red additional spring). 7500/min (red additional spring). 7500/min (red additional spring). 7500/min (red additional spring). 7500/min (yellow additional sprin	Electrode gap		0,60 mm	
topen yopen yopen drive topen drive yopen topen topen yopen topen t	Dimension "Z" (height of the control flap)		48,5 mm (1.9 in) - 0,2 mm (0,008 in)	
y open 7000/min (red additional spring), 7500/min (yellow additional spring) drive straight cut spur gears, primary ratio 26:72 drive multiple disc clutch in oil bath, hydraulically operated (Motorex Kupplungs- Fluid 75) sion 14:28 Leg-300 EXC 16:26 18:24 25:030 EXC 17:26 17:26 17:26 17:26 17:26 17:28 19:23 20:20 20:20 20:22 20:20 20:20 20:22 20:20 20:22 20:22 20:20 20:22 20:20 20:20 20:20 20:22 20:20 20	TVC start open		5200/min	
Straight cut spur gears, primary ratio 26:72 multiple disc clutch in oil bath, hydraulically operated (Motorex Kupplungs- Fluid 75)	TVC fully open	0002	/min (red additional spring), 7500/min (yellow additional	spring)
Speed Montonex Kupplungs	Primary drive		straight cut spur gears, primary ratio 26:72	
sion 5 speed, claw actuated o 14:28 14:30 16:26 16:26 17:26 18:24 20:20 20:23 21:24 20:20 20:23 21:24 20:20 20:20 22:21 0,7 Lengine oil (Motorex Topspeed 4T 15W50) nain sprockets 13Z / 14Z / 15Z for chain % x/n = 13Z / 14Z / 15Z for chain % x/n = 13Z / 14Z / 15Z for chain % x/n = 12X / 110W system KOKUSAN 2K-3 12V 110W routput - 12V 40W routput 12V 40W ror 12V 40W ror 12V 40W ror wet foam type air filter insert	Clutch		clutch in oil bath, hydraulically operated (Motorex Kupplu	ngs- Fluid 75)
14:28	Transmission		5 speed, claw actuated	
14:28	Gear ratio		250,300 EXC	300 MXC
16:26	1st gear	14:28	14:30	14:28
19.23 20.2	2nd gear	16:26 18:34	17:26	16:26
rication 29:23 rication 0,7 I engine oil (Motorex Topspeed 4T 15W50) nain sprockets 13Z / 14Z / 15Z for chain % x ¼ " system 1.3 liters, 40% antifreeze, 60% water, at least -25 °C (-13 °F) system USA (MXC) KOKUSAN 2K-3 KOKUSAN 2K-3 or output ROKUSAN 2K-2 12V 40W routput flat-slide carburetor, carburetor setting see table cor flat-slide carburetor, carburetor restring see table	S geal 4th gear	10.24	20:20	10.24
ication 0,7 lengine oil (Motorex Topspeed 4T 15W 13D / 14Z / 15Z for chain % x ¼" 13Z / 14Z / 15Z for chain % x ¼" 13 liters, 40% antifreeze, 60% water, at least -25 x x x x x x x x x x x x x x x x x x x	5th gear	22:21	29:23	22:21
routput KOKUSAN 2K-2 flat-slide carburetor, carburetor setting see transition sprockets 1.3 liters, 40% antifreeze, 60% water, at least -25 flat-slide carburetor setting see transition specified insert specified insert.	Gear lubrication		0,7 I engine oil (Motorex Topspeed 4T 15W50)	
ystem r output rystem USA (MXC) r output r output routput rout	ailable chain sprockets		13Z / 14Z / 15Z for chain 5/8 x 1/4"	
r output	Coolant		3 liters, 40% antifreeze, 60% water, at least -25 °C (-13 °	PF)
rr output ystem USA (MXC) rr output or routput or	Ignition system	KOKUSAN 2K-3	KOKUS	4N 2K-3
ystem USA (MXC) rr output or	Generator output	1	12V 1	110W
rr output or	Ignition system USA (MXC)		KOKUSAN 2K-2	
or	Generator output		12V 40W	
	Carburetor		flat-slide carburetor, carburetor setting see table	
	Air- filter		wet foam type air filter insert	

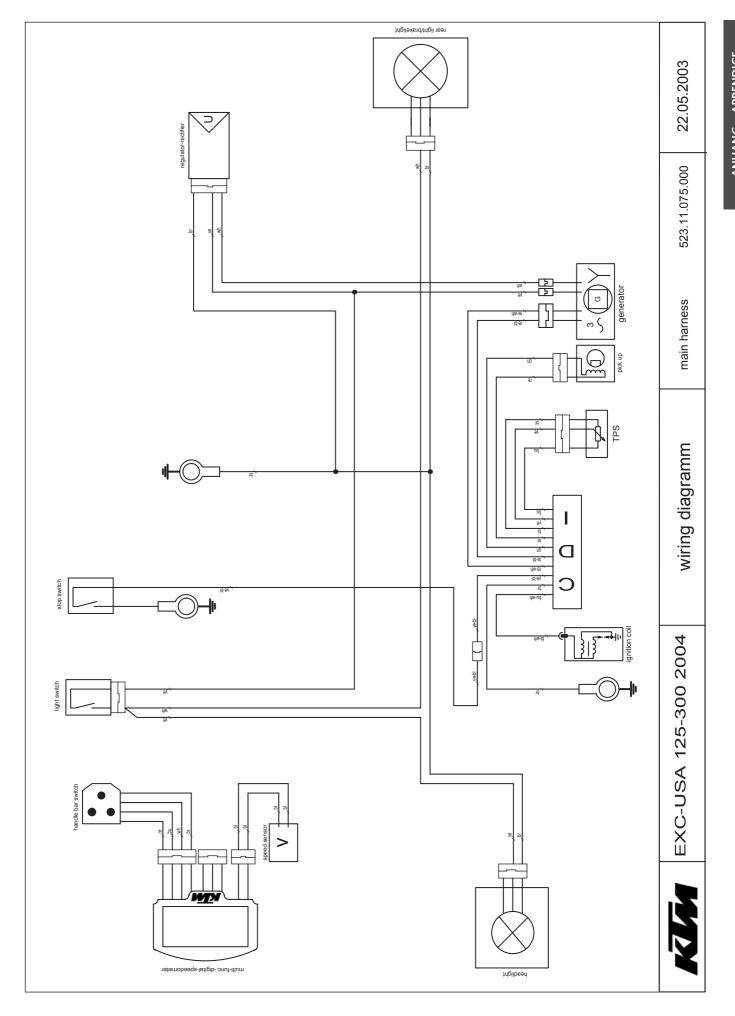
TIGHTENING TORQUES		
Flange bolts - cylinder-head	M 8	35 Nm
Nuts-cylinder base	M 10	35 Nm
Flywheel collar nut	M 12x1	60 Nm
Nut for primary sprocket (LH thread)	M 18x1.5	Loctite 243 + 150 Nm
Nut for inner clutch hub	M 18x1.5	Loctite 243 + 100 Nm
Crankcase and cover bolts	M 6	8 Nm
Swingarm pivot	M 16x1.5	100 Nm
Flat head screw release plate kickstarter	M 6x16	Loctite 648 + 19 Nm
Other screws	M 6 M 8 M 10	10 Nm 25 Nm 45 Nm

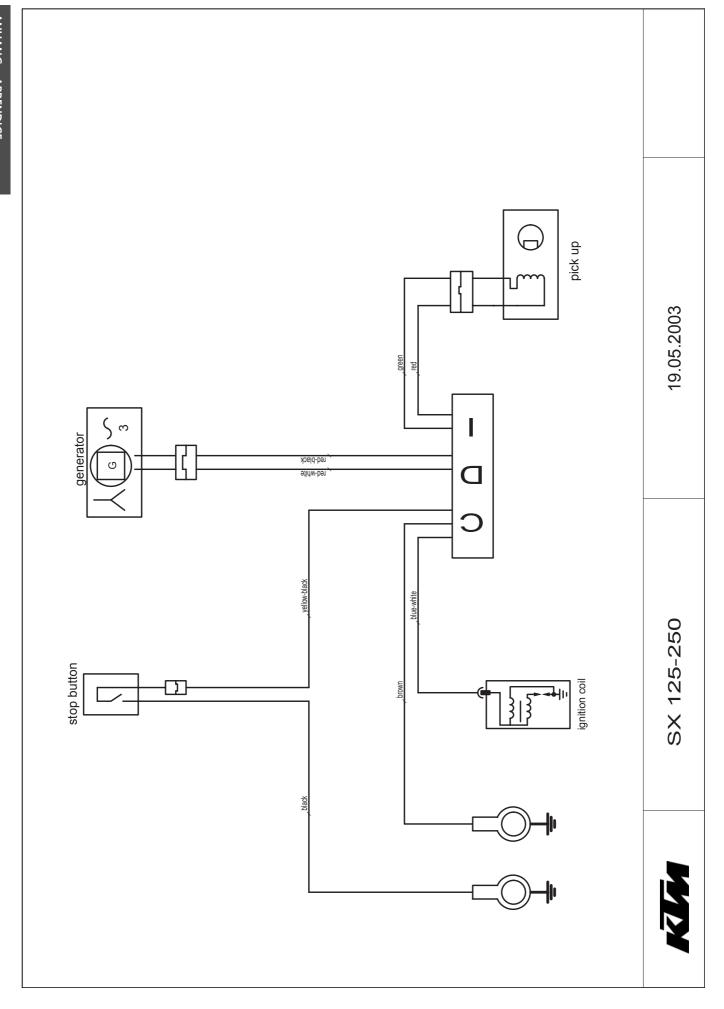
BASIC CARBURETO	OR SETTING		
	250SX	250 EXC USA 300 MXC, EXC USA	250/300 EXC-EU 250/300 EXC-AUS
Carburetor	Keihin PWK 38 S AG	Keihin PWK 36 S AG	Keihin PWK 36 S AG
Carburetor setting number	180303	191102	171102
Main jet	165 (162,168)	160 (162)	160 (162)
Idling jet	40 (38)	35	35
Starting jet	85	85	85
Jet needle	NOZG (NOZH/NOZF)	N3EH (N3EW)	N3CJ (N3EW/N3EH)
Needle position from top	IV	III	1
Slide	6,5	7	7
Air adjustment screw open	1	1	3,5
Performance restrictor	-	-	slide stop 38 mm
Power jet nozzle	-	-	_

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ENGLISCH	DEUTSCH	ITALIENISCH
Capacitor	Kondensator	Condensatore
CDI	CDI	CDI
Driving light lamp	Fernlichtkontrolle	Spia abbagliante
Flasher relay	Blinkerrelais	Relè indicatori
Flasher switch	Blinkerschalter	Deviatore indicatori di direzione
Front brake switch	vorderer Bremslichtschalter	Interruttore luce ant. di stop
Flasher control lamp	Blinkerkontrolle	spia lampeggiatori
Generator	Generator	Generatore
Handle bar switch for -multi-funcdigital-speedometer	Lenkerschalter für Kombiinstrument	Interruttore sul manubrio per tachimetro multifunzione
Headlight	Scheinwerfer	Faro anteriore
High / low beam switch	Auf-Abblendschalter	Commutatore abbagliante/anabbagliante
Horn	Hupe	Avvisatore acustico
Horn switch	Hornschalter	Interruttore avvisatore acustico
Ignition coil	Zündspule	Bobina d'accensione
Left front flasher	linker vorderer Blinker	Indicatore ant. sx
Left rear flasher	linker hinterer Blinker	Indicatore post. sx
Multi-funcdigital-speedometer	Multifunktionsdigitaltacho	Tachimetro digitale multifunzione
Pick up	Impulsgeber	Pick up
Position light	Standlicht	luce di posizione
Rear brake switch	hinterer Bremslichtschalter	Interruttore luce post. di stop
Rear light / brakelight	hinteres Begrenzungslicht / Bremslicht	Luce post. di posizione/stop
Regulator-rectifier	Regelgleichrichter	Regolatore-raddrizzatore
Right front flasher	rechter vorderer Blinker	Indicatore ant. dx
Right rear flasher	Rechter hinterer Blinker	Indicatore post. dx
Speed sensor	Geschwindigkeitssensor	Sensore velocità
Stop switch	Stop schalter	Interruttore d'emergenza
CABLE COLOURS	KABELFARBEN	CAVO COLORATO
bl: black	bl: blau	bl: nero
ye: yellow	ye: gelb	ye: giallo
bu: blue	bu: blau	bu: blu
gr: green	gr: grün	gr: verde
re: red	re: rot	re: rosso
wh: white	wh: weiß	wh: bianco
br: brown	br: braun	br: marrone
or: orange	or: orange	or: arancione
pi: pink	pi: rosa	pi: rosa
gr: grey	gr: grau	gr: grigio
pu: purple	pu: violett	pu: violetto

ENGLISCH	FRANZÖSISCH	SPANISCH
Capacitor	Condensateur	Condensador
CDI	CDI	CDI
Driving light lamp	Temion feu route	Lampara aviso luces largas
Flasher relay	Relais de clignotants	Relé de la luz intermitente
Flasher switch	Bouton de clignotants	Interruptor de la luz intermitente
Front brake switch	Contacteur de frein avant	Interruptor de luz del freno delantero
Flasher control lamp	Temion de clignoteur	Lampara aviso intermitentes
Generator	Genrateur	Generador
Handle bar switch for multi-funcdigital-speedometer	Contacteur au guidon pour ordinateur de bord	Interruptor de manillar para instrumento combinado
Headlight	Phare	Faro
High / low beam switch	Contacteur code/phare	Interruptor de encender/apagar la luz larga
Horn	Avertisseur sonore	Cláxon
Horn switch	Bouton d'avertisseur sonore	Interruptor del cláxon
Ignition coil	Bobine d'allumage	Bobina de encendido
Left front flasher	Clignotant avant gauche	Luz intermitente izquierda delantera
Left rear flasher	Clignotant arrière gauche	Luz intermitente izquierda trasera
Multi-funcdigital-speedometer	Ordinateur de bord	Velocímetro digital multifuncional
Pick up	Capteur d'allumage	Generador de impulsos
Position light	Feu de position	Luz de posicion
Rear brake switch	Contacteur de frein arrière	Interruptor de luz del freno trasero
Rear light / brakelight	Feu rouge/stop	Luces de parqueo traseras /luces de freno
Regulator-rectifier	Régulateur/redresseur	Regulador rectificador
Right front flasher	Clignotant avant droit	Luz intermitente derecha delantera
Right rear flasher	Clignotant arrière droit	Luz intermitente derecha trasera
Speed sensor	Capteur de vitesse	Sensor de velocidad
Stop switch	Contacteur stop	Interruptor parada
CABLE COLOURS	COULEUR DE CABLE	COLOR DE CABLE
bl: black	bl: noir	bl: negro
ye: yellow	ye: jaune	ye: amarillo
bu: blue	bu: bleu	bu: azul
gr: green	gr: vert	gr: verde
re: red	re: rouge	re: rojo
wh: white	wh: blanc	wh: blanco
br: brown	br: brun	br: marron
or: orange	or: orange	or: naranja
pi: pink	pi: rose	pi: rosado
gr: grey	gr: gris	gr: gris
pu: purple	pu: violet	pu: violeta

LIERUNG	SETTING
ERREGUI	RETOR 9
VERGASE	CARBUI

KTM 125 SX EUROPA / USA 2004 KEIHIN PWK 39

MEERESHÖHE	TEMPERATUR	ATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
ALTIDUDE		†	-2°F to 20°F	19°F to 41°F	42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
3000 m	LSCHR	AS	1 1/2	13/4	2	2 1/4	2 1/2	
•		NFFDIF	45 R1469D	42 R1470D	40 R1470D	30 R1470D	30 R1471D	
3 01 m		POS	2	: m	2	2 2	: -	
7501 ft		M	185	182	180	178	175	
2300 m	LSCHR	AS	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2
7500 ft		ll	48	45	42	40	38	38
~		NEEDLE	R1469D	R1469D	R1470D	R1470D	R1470D	R1471D
1501 m		POS	æ	2	3	2	2	_
5001 ft		M	188	185	182	180	178	175
1500 m	LSCHR	AS	_	1 1/4	1 1/2	1 3/4	2	2 1/4
5000 ft		ll	50	48	45	42	40	38
~ -		NEEDLE	R1468D	R1469D	R1469D	R1470D	R1470D	R1470D
751 m		POS	3	m	2	2	2	2
2501 ft		M	190	188	185	182	180	178
750 m	LSCHR	AS	3/4	_	1 1/4	1 1/2	1 3/4	2
2500 ft		ll l	52	90	48	45	42	40
~		NEEDLE	R1468D	R1468D	R1469D	R1469D	R1470D	R1470D
301 m		POS	4	ĸ	3	3	2	2
1001 ft		M	192	190	188	185	182	180
300 m	LSCHR	AS	1/2	3/4	1	1 1/4	1 1/2	1 3/4
1000 ft		ll l	55	52	50	48	45	42
←		NEEDLE	R1468D	R1468D	R1469D	R1469D	R141469D	R1470D
Meeresniveau		POS	5	4	3	3	2	2
Sea level		M	195	192	190	188	185	182
37 - 4 4		777		VACATORIA - OV	A in cross of a contract of the costs of		A SERVICE TO SERVICE T	

LSCHR = Luftregulierschraube offen LD = Leerlaufdüse POS = Clip Position von oben

Schieber= 5,5 Zerstäuber= 6 mm

= Hauptdüse

무

AS = Air screw open from fully-seated -2. IJ = Idling jet

POS = Clip position from top

MJ = Main jet Slide = 5,5Atomizer = 6 mm

NICHT FÜR STRASSENBETRIEB

VERGASERREGULIERUNG KTM 125 EXC EUR 2004 KEIHIN PWK 38 AG

HR AS 111/2 13/4 40 60°F 61°F to 78°F 11/4 40 21/4 40 318 818 818 818 818 818 818 818 818 818	MEERESHÖHE	TEMPERATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
LSCHR AS 11/2 13/4 2 LD JJ 45 42 40 NADEL NEDLE NOZE NOZE 40 POS POS 3 2 2 HD MJ 180 178 175 LSCHR AS 1 1/4 1 1/2 42 LD JJ 48 45 42 LD JJ 48 45 42 NADEL NOZD NOZE NOZE NOZE NADEL NEDLE NOZD NOZE 48 HD MJ 185 180 178 NADEL NOZD NOZD NOZE 48 POS POS 4 4 3 HD MJ 185 182 180 NADEL NOZD NOZD NOZD A8 POS POS 4 4 3 HD MJ 188	ALTIDUDE	†	-2°F to 20°F		42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
NADEL NOZE NOZE NOZE	3000 m 10000 ft			1 3/4	2	2 1/4	2 1/2	
POS 3 3 2 HD MJ 180 178 175 LSCHR AS 11/4 11/2 13/4 LD J 48 45 42 NADEL NEEDLE NOZD NOZE NOZE POS POS 4 3 3 HD MJ 182 180 178 LSCHR AS 1 11/4 11/2 NADEL NOZD NOZD NOZE POS POS 4 4 48 HD MJ 185 182 180 LSCHR AS 3/4 1 11/4 LD J 52 50 48 NADEL NOZD NOZD NOZE 48 NADEL NOZD NOZD 182 182 LD JJ 55 50 50 NADEL NOZD NOZD 10	•			42 NOZE	40 NOZE	30 NOZF	SS NOZF	
HD MJ 180 178 175 LSCHR AS 11/4 11/2 13/4 LD IJ 48 45 42 NADEL NOZD NOZE NOZE NOZE POS POS 1 11/4 11/12 LSCHR AS 1 11/4 11/12 LD IJ 50 48 45 NOSD NOZD NOZE 180 180 HD MJ 185 182 180 LISCHR AS 3/4 1 11/4 LO IJ 52 50 48 NOZD NOZD NOZE 48 3 HD MJ 188 185 182 LISCHR AS 1/2 4 3 HD MJ 188 185 182 LISCHR AS 1/2 3/4 1 LISCHR AS 1/2	2301 m			3	2	_	_	
LSCHR AS 11/4 11/2 13/4 LD II A8 45 45 42 NADEL NEEDLE NOZED NOZE POS 4 3 3 3 3 HD MI 182 180 178 LSCHR AS 1 1 11/4 11/2 NADEL NEEDLE NOZED NOZE POS POS 4 4 4 3 HD MI 185 182 180 NADEL NOZED NOZED NOZE POS POS 4 4 4 3 HD MI 186 187 187 LSCHR AS 3/4 1 11/4 LSCHR AS 11/2 52 50 48 NADEL NEEDLE NOZED NOZEP POS POS 4 4 3 3 HD MJ 188 185 182 LSCHR AS 11/2 3/4 1 NOZE POS 4 4 4 3 HD MJ 188 185 185 NOZE POS 5 50 NADEL NEEDLE NOZED NOZEP POS POS 4 4 4 3 HD MJ 188 185 185 LSCHR AS 11/2 3/4 1 NOZE POS POS 4 4 4 3 HD MJ 188 185 185 NOZE POS POS 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	7501 ft			178	175	172	170	
LD IJ 48 45 42 NADEL NEEDLE NOZD NOZE NOZE POS POS 4 3 3 HD MJ 182 180 178 LSCHR AS 1 11/4 11/2 LSCHR AS 4 4 3 HD MJ 185 182 180 LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 HD MJ 188 185 182 NOZD NOZD NOZD NOZE POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZD NOZD NOZD 50 NADEL NEEDLE NOZC 50 50 <td>2300 m</td> <td></td> <td></td> <td>1 1/2</td> <td>1 3/4</td> <td>2</td> <td>2 1/4</td> <td>2 1/2</td>	2300 m			1 1/2	1 3/4	2	2 1/4	2 1/2
NADEL NEDLE NOZD NOZE POS 4 3 3 HD MJ 182 178 LSCHR AS 1 11/2 LD JJ 50 48 45 NADEL NOZD NOZD NOZE 78 POS POS 4 4 3 HD MJ 185 182 180 LSCHR AS 3/4 1 11/4 LD JJ 52 50 48 NADEL NOZD NOZD NOZE POS POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LSCHR AS 1/2 3/4 1 LSCHR AS 1/2	7500 ft			45	42	40	38	35
POS POS 4 3 3 HD MJ 182 180 178 LSCHR AS 1 11/4 11/2 LSCHR AS 1 11/4 11/2 POS POS 4 4 3 HD MJ 185 182 180 LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 NADEL NOZD NOZD NOZE POS POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZD 100 100 <tr< td=""><td>∢</td><td></td><td></td><td>NOZE</td><td>NOZE</td><td>NOZF</td><td>NOZF</td><td>NOZF</td></tr<>	∢			NOZE	NOZE	NOZF	NOZF	NOZF
HD MJ 182 180 178 LSCHR AS 1 11/4 11/2 LD IJ 50 48 45 NADEL NEDLE NOZD NOZE NOZE POS POS 185 180 48 LD IJ 52 50 48 NADEL NEDLE NOZD NOZE 48 POS POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 HD MJ 188 185 182 LD IJ 55 50 50 NADEL NEDLE NOZC NOZD NOZD NADE POS 5 4 4 LD MJ 4 4 4 LOS POS 5 4 4 LD MA 4 4	1501 m			3	3	2	_	_
LSCHR AS 1 11/4 11/2 LD IJ 50 48 45 NADEL NEEDLE NOZD NOZE NOZE POS POS 185 182 180 LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 NADEL NVEDLE NOZD NOZE 182 POS POS 4 4 3 HD MJ 188 185 182 LD IJ 55 50 50 NADEL NEEDLE NOZC NOZD NOZD NADEL NEEDLE NOZC 4 4 NADEL NADEL 4 4 4 LD IJ 55 50 50 NADEL NADEL 4 4 4 LD AM 4 4 4 LD AM 4	5001 ft			180	178	175	172	170
LD IJ 50 48 45 NADEL NEDLE NOZD NOZE POS 4 3 HD MJ 185 180 LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 NADEL NEEDLE NOZD NOZE 48 POS POS 4 3 182 HD MJ 188 185 182 LISCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZD NOZD NOZD NADEL NEEDLE NOZC NOZD 105 POS POS 5 4 4 LD MJ 4 4 4 LD NOZD 100 100 100	1500 m			1 1/4	1 1/2	1 3/4	2	2 1/4
NADEL NEEDLE NOZD NOZE POS 4 4 3 HD MJ 185 180 180 LSCHR AS 3/4 1 1/4 48 LD IJ 52 50 48 3 NADEL NEEDLE NOZD NOZE NOZE 182 182 POS POS 4 4 3 182 182 182 LSCHR AS 1/2 3/4 1 5 50 8 LD IJ 55 52 50 8 6 6 4 <t< td=""><td>2000 #</td><td></td><td></td><td>48</td><td>45</td><td>42</td><td>40</td><td>38</td></t<>	2000 #			48	45	42	40	38
POS POS 4 4 3 HD MJ 185 182 180 LSCHR AS 3/4 1 1/1/4 LD IJ 52 50 48 NADEL NOZD NOZE NOZE POS POS 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD A NADEL NOSC A 4 4 LD IJ 55 50 50 POS FOS 5 4 4 LD AM 4 4 4 LD AM AM A 4 LD AM AM A A LD	•			NOZD	NOZE	NOZE	NOZE	NOZF
HD MJ 185 182 180 LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 NADEL NOZD NOZE 48 3 POS POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD POS POS 5 4 4 LD AI 4 4 4 LD AI AI 4 4 LD AI AI 4 4 LD AI AI AI AI LD AI AI AI AI LD AI AI AI AI LD AI AI AI AI <td< td=""><td>751 m</td><td></td><td></td><td>4</td><td>3</td><td>2</td><td>2</td><td>_</td></td<>	751 m			4	3	2	2	_
LSCHR AS 3/4 1 11/4 LD IJ 52 50 48 NADEL NEEDLE NOZD NOZE NOZE POS POS 4 3 182 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD 105 POS POS 5 4 4 LD AM 100 100 100	2501 ft			182	180	178	175	172
LD IJ 52 50 48 NADEL NOZD NOZE NOZE POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD POS FOS 5 4 4 LD AI 4 4 4 LD AI 100 100 100 100	750 m			1	1 1/4	1 1/2	1 3/4	7
NADEL NEDLE NOZD NOZE POS 4 3 POS 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 1 LSCHR AS 1/2 3/4 1 1 LD IJ 55 50 50 50 NADEL NOZC NOZD NOZD 4 4 4 NOS AM 100 <td< td=""><td>2500 ft</td><td></td><td></td><td>50</td><td>48</td><td>45</td><td>42</td><td>40</td></td<>	2500 ft			50	48	45	42	40
POS POS 4 4 3 HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD NOZD POS FOS 5 4 4 LD AI 4 4 4	•			NOZD	NOZE	NOZE	NOZE	NOZF
HD MJ 188 185 182 LSCHR AS 1/2 3/4 1 LD IJ 55 50 50 NADEL NOZC NOZD NOZD POS FOS 5 4 4 LD AI 100 100 100	30 <mark>1</mark> m			4	3	3	2	2
LSCHR AS 1/2 3/4 1 LD IJ 55 50 NADEL NEEDLE NOZC NOZD POS FOS 5 4 4 LD AI 190 196 196	1001 ft			185	182	180	178	175
LD IJ 55 52 50 NADEL NEDLE NOZC NOZD NOZD POS POS 5 4 4 LD AI 180 186 186	300 m			3/4	_	1 1/4	1 1/2	13/4
NADEL NEEDLE NOZC NOZD POS FOS FOS 4 4 LD A4 186 186	1000 H			52	90	48	45	42
POS POS 5 4 4 4	4		_	NOZD	NOZD	NOZE	NOZE	NOZF
190 190	Meeresniveau			4	4	3	c	2
CO	Sea level	HD WJ	190	188	185	182	180	178

Slide = 6.5Atomizer= 5 mm 5. LSCHR = Luftregulierschraube offen

= Clip Position von oben

POS

= Hauptdüse

Schieber= 6,5 Zerstäuber= 5 mm

= Leerlaufdüse

= Air screw open from fully-seated = Idling jet

POS = Clip position from top MJ = Main jet

NICHT FÜR STRASSENBETRIEB

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MEERESHÖHE	знöне	TEMPE	TEMPERATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
ALTIC	ALTIDUDE		1	-2°F to 20°F	19°F to 41°F	42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
30C 100	3000 m 10000 ft	LSCHR LD	AS	1 1/2 48	13/4	2 42	2 1/4 40	2 1/2	
	←	NADEL	NEEDLE	R1468G	R1469G	R1469G	R1469G	R1470G	
230	230 1 m	POS	POS	2	3	2	2	_	
750	7501 ft	НД	MJ	190	188	185	182	180	
230	2300 m	LSCHR	AS	1 1/4	1 1/2	13/4	2	2 1/4	2 1/2
750)0 ft		IJ	20	48	45	42	40	38
•	←	NADEL	NEEDLE	R1468G	R1468G	R1469G	R1469G	R1469G	R1470G
150	7. E	POS	POS	3	2	3	2	2	_
200	5001 ft	무	M	192	190	188	185	182	180
150	m 0(LSCHR	AS	_	11/4	11/2	1 3/4	2	2 1/4
200)0 ft		l)	52	50	48	45	42	4
•	←	NADEL	NEEDLE	R1467G	R1468G	R1468G	R1469G	R1469G	1469G
.42	751 m	POS	POS	æ	٣	2	2	2	2
250	2501 ft	무	MJ	195	192	190	188	185	182
750	0 m	LSCHR	AS	3/4	1	1 1/4	1 1/2	1 3/4	2
250)0 ft		IJ	55	52	50	48	45	42
•	-	NADEL	NEEDLE	R1467G	R1467G	R1468G	R1468G	R1469G	R1469G
30.	_ E	POS	POS	4	3	3	3	2	2
100	1001 ft	무	M	198	195	192	190	188	185
300	0 m	LSCHR	AS	1/2	3/4	_	1 1/4	1 1/2	1 3/4
100	1000 ft		l)	58	55	52	20	48	45
	←	NADEL	NEEDLE	R1466G	R1467G	R1468G	R1468G	R1468G	R1469G
Meere	Meeresniveau	POS	POS	5	4	8	3	2	2
Sea	Sea level	Н	W	200	198	195	192	190	188
LSCHR = LD = POS = HD = Schieber= Zerstäube	SCHR = Luftregu D = Leerlauft OS = Clip Posi HD = Hauptdi Schieber= 5,5 Zerstäuber= 6 mm	LSCHR = Luftregulierschraube offen LD = Leerlaufdüse POS = Clip Position von oben HD = Hauptdüse Schieber= 5,5 Zerstäuber= 6 mm	ube offen oben	- E - C - C - C - C - C - C - C - C - C	AS = Air screw open from fully-seated IJ = Idling jet POS = Clip position from top MJ = Main jet Slide = 5,5 Atomizer= 6 mm	open from fully-se		NICHT FÜR STRASSENBETRIEB Kraftstoff: Euro-Super bleifrei ROZ 95 NOT FOR HIGHWAY USE Fuel: Euro-Super unleaded ROZ 95	ETRIEB rei ROZ 95 ROZ 95

NICHT FÜR STRASSENBETRIEB

VERGASERREGULIERUNG KTM 200 MXC/EXC EUR/USA 2004 KEIHIN PWK 38 AG

MEERESHÖHE	TEMPER	ATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
ALTIDUDE	1	↑	-2°F to 20°F	19°F to 41°F	42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
3000 m	LSCHR	AS	1 3/4	1 3/4	1 3/4	2	2	
		7	45	45	42	42	42	
	NADEL	NEEDLE	NOZE	NOZF	NOZG	DZON	NOZH	
2301 m	POS	POS	2	2	2	_	_	
7501 ft	HD	MJ	178	175	172	170	168	
2300 m	LSCHR	AS	1 1/4	1 3/4	1 3/4	1 3/4	2	2
7500 ft	ГР	l)	45	45	45	42	42	42
~	NADEL	NEEDLE	NOZE	NOZE	NOZF	DZON	NOZG	NOZH
1501 m	POS	POS	m	2	2	2	_	_
5001 ft	HD	M	180	178	175	172	170	168
1500 m	LSCHR	AS	1 1/2	1 1/4	1 1/2	1 3/4	1 3/4	2
2000 H	ГР	ll .	48	45	45	45	42	42
~	NADEL	NEEDLE	NOZD	NOZE	NOZE	NOZF	DZON	DZON
751 m	POS	POS	ĸ	3	2	2	2	~
2501 ft	HD	MJ	182	180	178	175	172	170
750 m	LSCHR	AS	1 1/4	_	1 1/4	1 1/2	13/4	1 3/4
2500 ft	ГР	ll .	48	48	45	45	45	42
←	NADEL	NEEDLE	NOZD	NOZD	NOZE	NOZE	NOZF	DZON
301 m	POS	POS	4	4	3	æ	2	2
1001 ft	HD	MJ	185	182	180	178	175	172
300 m	LSCHR	AS	~	1 1/4	1 1/2	1 1/4	1 1/2	1 3/4
1000 #	ГР	ll .	90	48	48	45	45	45
~	NADEL	NEEDLE	NOZC	NOZD	NOZD	NOZE	NOZE	NOZG
Meeresniveau	POS	POS	5	4	3	3	2	2
Sea level	HD	MJ	188	185	182	180	178	175
							;	

LSCHR = Luftregulierschraube offen = Clip Position von oben = Leerlaufdüse POS

Schieber= 6,5 Zerstäuber= 5 mm

= Hauptdüse

5.

= Air screw open from fully-seated = Idling jet

POS = Clip position from top MJ = Main jet

Slide = 6.5Atomizer= 5 mm

NICHT FÜR STRASSENBETRIEB

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MEERESHÖHE	TEMPE	TEMPERATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
ALTIDUDE		1	-2°F to 20°F	19°F to 41°F	42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
3000 m	LSCHR	AS	_	_	~	1,5	2	
10000 ft		IJ	35	35	35	35	35	
←	NADEL	NEEDLE	N3EH	N3EH	N3EW	N3EW	N3EW	
230 1 m	POS	POS	c	2	2	2	_	
7501 ft	무	M	160	160	158	155	155	
2300 m	LSCHR	AS	_	_	_	_	1,5	2
7500 ft		IJ	35	35	35	35	35	35
~	NADEL	NEEDLE	N3EH	N3EH	N3EH	N3EW	N3EW	N3EW
1501 m	POS	POS	c	ĸ	2	2	2	_
5001 ft	Н	M	162	160	160	158	155	155
1500 m	LSCHR	AS	_	_	_	_	_	1,5
5000 ft		IJ	35	35	35	35	35	35
-	NADEL	NEEDLE	N3EG	N3EH	N3EH	N3EH	N3EW	N3EW
751 m	POS	POS	4	ĸ	3	2	2	2
2501 ft	무	MJ	162	162	160	160	158	155
750 m	LSCHR	AS	_	_	_	_	_	-
2500 ft		IJ	38	35	35	35	35	35
-	NADEL	NEEDLE	N3EG	N3EG	N3EH	N3EH	N3EH	N3EW
301 m	POS	POS	5	4	8	æ	2	2
1001 ft	무	M	165	162	162	160	160	158
300 m	LSCHR	AS	1	_	_	_	_	
1000 ft		IJ	40	38	35	35	35	35
-	NADEL	NEEDLE	N3EG	N3EG	N3EG	N3EH	N3EH	N3EH
Meeresniveau	POS	POS	5	5	4	3	3	2
Sea level	Н	MJ	168	165	162	162	160	160
LSCHR = Luftregulierschraube offen	ulierschra	ube offen	(AS = Air screw	= Air screw open from fully-seated	eated	:	

3. 5. LD = Leerlaufdüse
POS = Clip Position von oben
HD = Hauptdüse
Schieber= 7 mit Ausschnitt
Zerstäuber= 7,45 mit Ausschnitt

IJ = Idling jet
POS = Clip position from top
MJ = Main jet
Slide = 7
Atomizer= 7,45

NICHT FÜR STRASSENBETRIEB

VERGASERREGULIERUNG KTM 250 SX EUR/USA 2004 KEIHIN PWK S38 AG

	MEERESHÖHE	TEMPI	TEMPERATUR	-20°C bis -7°C	-6°C bis 5°C	6°C bis 15°C	16°C bis 24°C	25°C bis 38°C	37°C bis 49°C
	ALTIDUDE		1	-2°F to 20°F	19°F to 41°F	42°F to 60°F	61°F to 78°F	79°F to 98°F	99°F to 120°F
	3000 m 10000 ft	LSCHR	AS	1 04	1 40	1 40	1,5	2 35	
	-	NADEL	NEEDLE	DZON	DZON	HZON	NOZH	NOZH	
	2 301 m	POS	POS	4	æ	ю	2	_	
	7501 ft	무	MJ	165	165	162	160	158	
•	2300 m	LSCHR	AS		_	_	_	1,5	2
	7500 ft		IJ	40	40	40	40	38	35
	←	NADEL	NEEDLE	NOZG	DZON	DZON	NOZH	HZON	NOZH
	1501 m	POS	POS	4	4	m	ĸ	2	_
	5001 ft	皇	MJ	168	165	165	162	160	158
	1500 m	LSCHR	AS	_	_	_	_	_	1,5
	5000 ft	ΓΡ	II	40	40	40	40	40	38
	←	NADEL	NEEDLE	NOZF	DZON	DZON	DZON	NOZH	NOZH
	751 m	POS	POS	4	4	4	m	3	2
	2501 ft	무	MJ	170	168	165	165	162	160
	750 m	LSCHR	AS	_	_	_	_	_	_
	2500 ft	9	II	42	40	40	40	40	40
	←	NADEL	NEEDLE	NOZF	NOZF	DZON	DZON	DZON	NOZH
	301 m	POS	POS	5	4	4	4	8	8
	1001 ft	모	MJ	172	170	168	165	165	162
	300 m	LSCHR	AS	1	l	1	L	1	1
	1000 ft	ΓΡ	l)	45	42	40	40	40	40
	←	NADEL	NEEDLE	NOZF	NOZF	NOZF	DZON	DZON	NOZG
	Meeresniveau	POS	POS	5	5	4	4	4	æ
	Sea level	웃	M	175	172	170	168	165	165
	LSCHR = Luftregulierschraube offen	ulierschra	ube offen	(AS = Air screw	open from fully-se			
	LD = Leerlaŭ	ífdüse		, -7.	П	Idling jet		NICHT FÜR STRASSENBETRIEB	ETRIEB
		7 CO. 401	2040	т —	1	tion from ton			

Kraftstoff: Euro-Super bleifrei ROZ 95 NOT FOR HIGHWAY USE Fuel: Euro-Super unleaded ROZ 95

POS = Clip position from top MJ = Main jet Slide = 6,5

5.

HD = Hauptdüse Schieber= 6,5 mit Ausschnitt Zerstäuber= 7,45 mit Ausschnitt

= Clip Position von oben

POS H

Atomizer= 7,45











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