BEDIENUNGSANLEITUNG

OWNERS HANDBOOK MANUALE D'USO MANUEL D'UTILISATION MANUAL DE INSTRUCCIONES

2002

SPORTMOTORCYCLES



IMPORTANT

WE STRONGLY SUGGEST THAT YOU 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:

⊿		WARNIN	≙			
		INSTRUCTIONS,	CAN	ENDANGER	YOUR	
BODY AND YOUR LIFE.						

!CAUTION!IGNORING THESE INSTRUCTIONS COULD CAUSE DAMAGE TOPARTS OF YOUR MOTORCYCLE OR THAT THE MOTORCYCLEIS NOT ROAD-SAFE ANYMORE.

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

Chassis number

Engine number

Stamp of dealer

CONSUMER 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 previous announcement. In the event of such modifications, please ask your local KTM dealer for information. We shall not be held liable for any printing errors.

Introduction

We would like to congratulate you on your purchase of a KTM motorcycle. Let us also take this opportunity to thank you for putting your trust in us; we will not let you down.

You are now owner of a sporty and modern motorcycle which you are bound to have a great time with provided you care for it properly. Before going for a first ride on your motorbike, you should read this Owner's Handbook carefully, even if this takes some of your precious time, so as to familiarize yourself with how your motorbike is to be operated and which features it offers you. Only by doing that you will learn how you can best tune your motorcycle to your needs and how you can avoid bodily injuries. In addition, this Owner's Handbook contains invaluable information about motorcycle maintenance. At the time of printing, this User's Guide corresponded to the latest state of this model family. It is, however, possible that we may have made slight modifications in the meantime due to development in our motorcycle design.

The Owner's Handbook is an essential part of the motorbike and should - when the bike is sold - be handed over to the new owner.

Many motorcyclists have a good technical knowledge of motorcycle mechanics; if this is true in your case, you will be able to use this Owner's Handbook to carry out most of the maintenance steps yourself. If, on the other hand, you are not very familiar with motorcycles, it might be better to have a professional KTM dealer perform those steps marked by * found in the chapter entitled "Maintenance Work on Chassis and Engine" of this manual.

For your own safety use only KTM-approved parts and accessories. 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. Be sure to have any maintenance jobs performed by an authorized KTM dealer.

Address your special requests to an authorized KTM dealer who, should the need arise, will be supported by the KTM importer.

Please do not forget to wear your helmet, eye protection, and protective clothing when going for a ride. KTM riders are responsible riders! We wish you a lot of fun when driving !



REG.NO. 12 100 6061

KTM Austria's certificate of achievement for its Quality System ISO 9001 is the beginning of an on-going total re-engineering quality plan for a brighter tomorrow.

Attachments: 1 spare parts manual chassis 1 spare parts manual engine

KTM SPORTMOTORCYCLE AG 5230 MATTIGHOFEN, AUSTRIA

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Index

Page

	4
Chassis number	4
Engine number, engine type	4
OPERATION INSTRUMENTS	4
Clutch lever	4
Hand decompression lever	4
Hand brake lever	4
Indicator lamps	5
Electronic speedometer	5
Combination switch	5
Flasher switch	6
Filler cap	6
Fuel tap	6
Choke	6
Shift lever	6
Kickstarter	7
Foot brake pedal	7
Handlebar lock	7
Compression damping of fork	7
Rebound damping of fork	7
Compression damping of shock absorber	8
Rebound damping of shock absorber	8
GENERAL TIPS AND WARNINGS FOR STARTING THE MOTORCYCLE	9
MOTORCYCLE	10
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE	10 13
MOTORCYCLE	10 13 15
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE	10 13 15 15
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat	10 13 15 15 15
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set	10 13 15 15 16
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork	10 13 15 15 16 16
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork	10 13 15 15 16 16 16
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position	10 13 15 15 16 16 17
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor	10 13 15 15 16 16 17 17
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor Changing the spring preloading of the shock absorber .	10 13 15 15 16 16 17 17 17
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor Changing the spring preloading of the shock absorber	10 13 15 16 16 17 17 17 18
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor Changing the spring preloading of the shock absorber Checking rubber ring on the WP rear shock absorber Lubricate rear suspension linkage	10 15 15 16 16 17 17 17 17 18
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor Changing the spring preloading of the shock absorber Checking rubber ring on the WP rear shock absorber Lubricate rear suspension linkage Checking chain tension	10 13 15 16 16 17 17 17 18 18
MOTORCYCLE DRIVING INSTRUCTIONS PERIODIC MAINTENANCE-SCHEDULE MAINTENANCE WORK ON CHASSIS AND ENGINE Removal of seat Tool set Breather plugs front fork Cleaning the dust sleeves of the telescopic fork Check and adjust steering head bearing How to change the handlebar position Check/set distance of the magnetic sensor Changing the spring preloading of the shock absorber Checking rubber ring on the WP rear shock absorber Lubricate rear suspension linkage	10 13 15 16 16 17 17 17 18 18 18

Chain wear19
General informations about KTM disc brakes
Adjusting of free travel at the hand brake lever20
Checking brake fluid level - front brake
Refilling the front brake fluid reservoir
Check the front brake pads21
Replacing front brake pads21
Changing the basic position of the brake pedal22
Checking the rear brake fluid level
Refilling the rear brake fluid reservoir22
Checking the rear brake pads22
Replacing the rear brake pads23
Dismounting and mounting the front wheel
Dismounting and mounting the rear wheel
Checking the shock absorption rubbers in the rear hub25
Tires, air pressure25
Checking spoke tension25
Cooling system
Checking the coolant level
Cleaning air filter27
Exhaust system27
Draining the float chamber of the carburetor27
Carburetor – Adjust idling28
Adjusting the mixture control screw28
Check float level
Adjusting the throttle cable29
Adjusting the clutch cable29
Checking the adjustment of the hand decompression cable29
Engine oil
Checking the engine oil level
Oil circuit
Changing the engine oil30
Changing and bleeding the microfilter31
Changing oil filter31
TROUBLE SHOOTING
CLEANING
CONSERVATION FOR WINTER OPERATION
STORAGE
Re-initation after time of storage
TECHNICAL SPECIFICATIONS - ENGINE
TECHNICAL SPECIFICATIONS - CHASSIS
WIRING DIAGRAMMEAPPENDIX

HSIJDN3

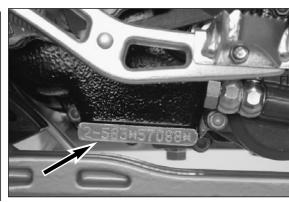
Page



SERIAL NUMBER LOCATIONS

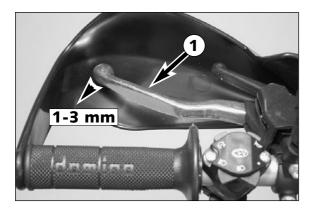
Chassis number

The chassis number is stamped on the right side of the steering head tube. Write this number into the relevant area on page 1.



Engine number, engine type

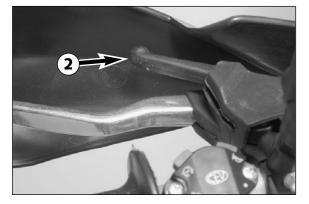
The engine number and engine type are stamped on the right hand side of the engine below the chain sprocket. Write this number into the relevant area on page 1.



OPERATION INSTRUMENTS

Clutch lever

The clutch lever ① is fitted on the left hand side of the handlebar. When engine is cold, there should always be a play of 1–3 mm (0,04–0,1 in) at this lever (measured at outer edge).

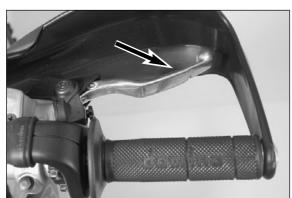


Hand decompression lever

The hand decompression lever **2** is only used in two special cases:

- a) When the engine stalled.
 - When you then start the engine, you may feel a hard resistance on the kickstarter, because the automatic decompressor cannot lock into place. If this happens, pull the hand decompression lever and use the kickstarter. Afterwards you can start the engine normally again.
- b) When you want to push-start the motorcycle.

While pushing, pull the decompression lever to make it easier to get the engine going.



Hand brake lever

The hand brake lever is mounted on the right side of the handle bar and actuates the front wheel brake.



Indicator lamp

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

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

SPEED TRP2 LAP TRP12 AVS12 STP12 ODO MAX LAP CLK H

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. The display is not activated until the front wheel has made 1 revolution (impulse for speedometer).

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. Then it automatically switches to the ODO mode.



The ODO mode shows the speed and the total kilometers traveled. The information will disappear in the display when the front wheel stops turning for 1 minute.

NOTE:

ODO

A Tripmaster switch (part no 583.14.069.244) 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
- Service hours Clock

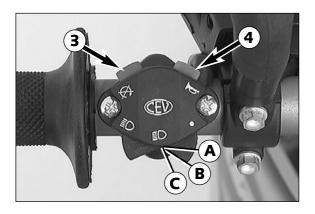
Display in miles

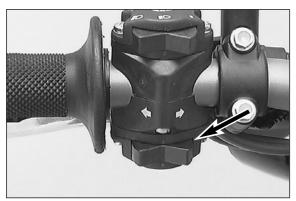
Combination switch

The light switch has 3 switch positions.

- $\bullet = \text{Light off}$
- **B** = Low beam light
- Θ = High beam light

The red short circuit button 3 serves to switch off the engine. Leave the switch pressed, until the engine stops. With the button 3 the horn will sound.





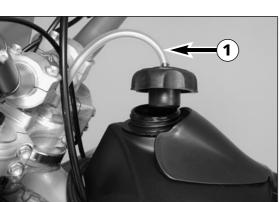
Flasher switch

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.

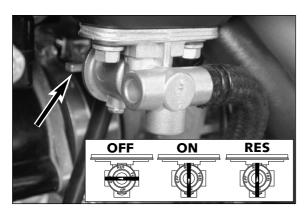
Flasher left

right Flasher right



Filler cap

To open filler cap: Turn the filler cap counter-clockwise. To close filler cap: Screw on the filler cap clockwise. Install tank breather hose **①** without kinks.

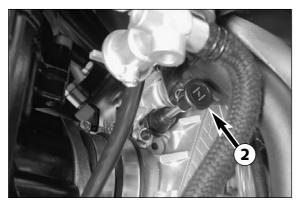


Fuel tap

- OFF In this position the fuel tap is closed. No fuel may flow to the carburetor.ON When using the motorcycle, the rotating handle must be set to the ON position. Now fuel may flow to carburetor. In this position the tank empties down to the fuel reserve of approx. 1,5 liters.
- **RES** The reserve tank, approximately 1,5 liters, 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.

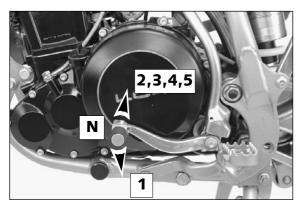
		,		•	-		
	!		CAUTI	ON		i.	
IEI						DADKED	Ις τως ταρ

The fuel tap should be locked whenever the motorcycle is parked. If the tap is not closed the carburetor may overflow and fuel get into the engine.



Choke

If you pull the choke button ② out as far as possible, a bore in the carburetor will be unblocked through which the engine may take in additional fuel. The result is a "fat" fuel-air mixture of the type needed for cold starts. To deactivate the choke, push the choke button back into its basic position.



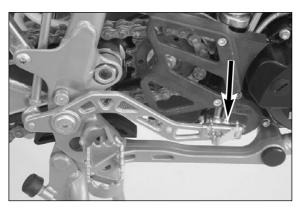
Shift lever

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

Kickstarter

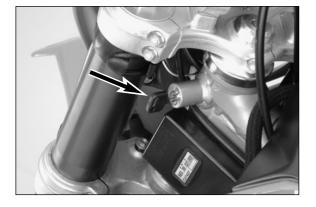
The kickstarter is mounted on the left side of the engine. Its upper part can be swivelled.





Foot brake pedal

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

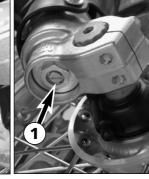


Handlebar lock

The handlebar can be locked by means of the lock located on the control head. Fully turn handlebar to right to lock, insert key, turn to left, press in, turn to right and withdraw.

	!		CAUT	ION			!		
.EAVE	THE	KEY INSERTED	IN THE LOCK.	IF YOU	TURN	THE	STEERING	TO THE L	EFT

NEVER LE THE KEY COULD GET DAMAGED.

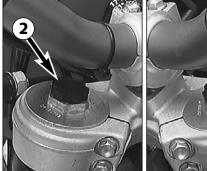


Compression damping of fork

The compression damping is to be set at the lower end of the fork tubes. It only regulates the degree of damping during compression. Remove closing cap **()**. By using the knob **()** (COM), the degree of damping of the compression can be adjusted. Turn the knob 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 WP 0518W712 20 clicks (625 SC) WP 0518W722 14 clicks (625 SC SUPERMOTO)

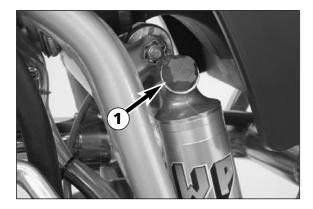


Rebound damping of fork

Hydraulic rebound damping determines the reaction when the fork is rebound. By turning the knob **2**, 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 _ (625 SC) WP 0518W712 12 clicks
 - (625 SC SUPERMOTO) WP 0518W722 14 clicks



Compression damping of shock absorber

With the knob \bullet the degree of damping of the compression can be adjusted. Turn the knob counterclockwise to increase damping, turn it clockwise to reduce damping during rebounding.

STANDARD ADJUSTMENT: WP 0118W714..... position 3 WP 0118W721..... position 5

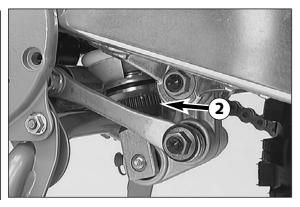
(625 SC) (625 SC SUPERMOTO)

Rebound damping of shock absorber

With the setting wheel O the degree of damping of the rebound can be adjusted. Turn the knob to the left side to increase damping, turn it to the right side to reduce damping during rebounding.

STANDARD ADJUSTMENT: WP 0118W714..... position 5 WP 0118W721..... position 7

(625 SC) (625 SC SUPERMOTO)



Instructions for initial operation

- Verify that your KTM dealer performed the PREPARATION OF VEHICLE jobs (see Customer Service Manual).
- Read these operating instructions carefully before your first ride.
- Familiarize yourself with the operating elements.
- Adjust the hand brake lever and foot brake lever to your most comfortable position.
- Get used to handling the motorcycle on an empty parking lot or open space, before starting on a longer drive. Also try to drive as slowly as possible and in standing position, to improve your feeling for the vehicle.
- Do not drive along off-road tracks which go beyond your abitily and experience.
- Hold the handlebars 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.
- 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, this should be secured as close as possible to the middle of the vehicle; distribute the weight evenly between the front and 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 with protective clothing and helmet.
- Pay attention to running-in procedure.

Running in the LC4 models

Even very precisely machined sections of engine components have rougher surfaces than components which have been sliding against one another for quite some time. Therefore, every engine needs to be broken in. For this reason, during its first 1000 kilometers (620 miles) the engine must not be revved up to its performance limits. The engine speed of 4800 r.p.m. must not be exceeded during the first 1000 kilometers (620 miles). During this break-in time, you should ride your motorcycle in different conditions (roads, easy off-road terrain). The following table shows you the maximum velocity values in the different gears at 4800 r.p.m. as based on the rear wheel transmission ratio of your motorcycle.

ratio gear	625 SC 16:40 Z	625 SC SUPERMOTO 17:38 Z	
1. G	35 kmh	35 km/h	
2. G	50 kmh	55 km/h	
3. G	70 kmh	75 km/h	
4. G	90 kmh	90 km/h	
5. G	100 kmh	105 km/h	

NOTE:

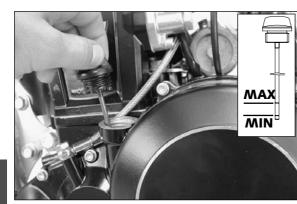
DURING THE STAGE OF RUNNING THE ENGINE IN, THAT IS THE FIRST 1000 KM (620 miles), the engine oil used should be of a MINERAL OIL FORMULA. THIS ALSO APPLIES IF THE ENGINE HAS BEEN REPAIRED.

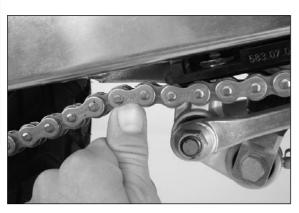
- WARNING ⚠ ⚠
- WEAR SUITABLE CLOTHING WHEN DRIVING A MOTORCYCLE. CLEVER KTM drivers always wear a helmet, boots, gloves and a JACKET, REGARDLESS OF WHETHER DRIVING ALL DAY OR JUST FOR A SHORT TRIP. THE PROTECTIVE CLOTHING SHOULD BE BRIGHTLY COLORED SO THAT OTHER VEHICLE CAN SEE YOU AS EARLY AS POSSI-BLE. YOUR PASSENGER WILL ALSO NEED SUITABLE PROTECTIVE CLOTHING.
- DO NOT DRIVE AFTER HAVING CONSUMED ALCOHOL.
- Always turn on the light to make sure that other drivers BECOME AWARE OF YOU AS EARLY AS POSSIBLE.
- ONLY USE ACCESSORIES THAT HAVE BEEN RELEASED BY KTM. FOR EXAMPLE, FRONT PANELLING CAN IMPAIR THE DRIVING PROPERTIES OF THE MOTORCYCLE. CASES, EXTRA TANKS ETC. CAN ALTER THE WEIGHT DISTRIBUTION AND THUS ALSO IMPAIR THE VEHICLES DRIVING PROPERTIES.
- The front and rear wheel are allowed to be fitted only WITH TIRES THAT HAVE THE SAME PROFILE TYPE.
- OBSERVE THE TRAFFIC REGULATIONS, DRIVE DEFENSIVELY AND TRYING TO LOOK AHEAD AS FAR AS POSSIBLE SO THAT ANY HAZARDS CAN BE RECOGNIZED AS EARLY AS POSSIBLE.
- Choose your driving speed according to the conditions and YOUR DRIVING SKILLS.
- DRIVE CAREFULLY ON UNKNOWN ROADS OR ON UNFAMILIAR TRIALS.
- RENEW THE VIZOR ON YOUR HELMET OR THE GLASS OF YOUR GOGG-LES ON TIME SO AS TO ENSURE OPTIMUM VISION IN ANY SITUATION. When light shines directly on scratched visor or goggles, THE OPERATOR WILL BE BLINDED.
- NEVER LEAVE YOUR MOTORCYCLE WITHOUT SUPERVISION IF THE ENGINE IS RUNNING.

♪	WARNING		≙	
IMPORTANT	INSTRUCTIONS	FOR	SUPER	COMPETITION
MODELS:				

- THESE MODELS WERE DESIGNED AND BUILT FOR ONE PERSON ONLY -NO ADDITIONAL PASSENGER ALLOWED!
- When riding your motorcycle, please bear in mind that OTHER PEOPLE MAY FEEL MOLESTED BY EXCESSIVE NOISE.

DRIVING INSTRUCTIONS









Check the following before each start

When you start, the motorcycle must be in perfect mechanical condition. For safety reasons, you should make a habit of performing an overall check of your motorcycle before each start. The following checks should be performed:

1 CHECK OIL LEVEL

Insufficient oil results in premature wear and consequently to engine damage.

2 FUEL

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 can fall from the chain wheels; an extremely worn chain can tear, and insufficient lubrication can result in unnecessary wear of 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. Check for 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 a KTM specialist, as complete failure of the braking system can be avoided.

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

Check free travel at hand brake lever and foot brake lever.

6 CABLES

Check correct setting and smooth operation of all control cables.

7 COOLING FLUID

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

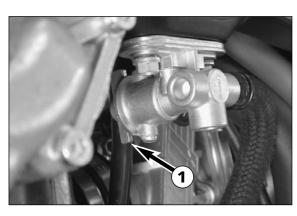
8 ELECTRICAL SYSTEM

Check correct operation of headlamps, tail-lights, brake lights, indicators, control lamps and horn while the engine is running.

9 LUGGAGE

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









Starting when the engine is cold

- 1 Open the fuel tap **1**
 - 2 Swing up the side stand or center stand.
 - 3 Put the gear in neutral

≙

- 4 Operate the choke 2
- 5 Go to the left of your motorbike. DO NOT open the throttle, and briskly kick the kickstarter ALL THE WAY.

WARNING	Δ
TO START THE ENGINE. MAKE SURE THAT YO	U ALWAYS PUT ON STURDY

- IF YOU WANT TO START THE ENGINE, MAKE SURE THAT YOU ALWAYS PUT ON STURDY MOTORCYCLE BOOTS IN ORDER TO AVOID INJURIES. YOU MIGHT SLIP OFF THE KICK-STARTER, OR THE ENGINE MAY KICK BACK AND PUSH YOUR FOOT UPWARD WITH GREAT VEHEMENCE.
- Always kick kickstarter briskly all the way without opening the throttle. Kicking the kickstarter with less enough force and an opened throttle increase the kick-back hazard.
- 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.

ļ	CAUTION	!

DON'T RIDE YOUR MOTORCYCLE WITH FULL LOAD AND HIGH REVS WHEN ENGINE IS COLD. BECAUSE THE PISTON IS WARMING UP FASTER THAN THE WATER COOLED CYLINDER, IT CAN CAUSE ENGINE DAMAGE.

Starting when the engine is warm

- 1 Open the fuel tap **1**
- 2 Swing up the side stand or center stand.
- 3 Put the gear in neutral
- 4 Leave the throttle closed and push the kickstarter hard ALL THE WAY

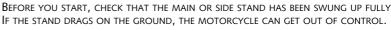
What to do when the engine is "flooded"

Pull in the hand decompression lever, open the throttle fully, kick the kick starter through the stroke 5 to 10 times and start the motor as described above.

Starting off

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

<u>.</u>	WARNING	⚠
e you start.	CHECK THAT THE MAIN OR SIDE STAND	HAS BEEN SWUNG UP FULLY.





Shifting/Riding

You are now in first gear, refered to as the drive or uphill gear. Depending on the conditions (traffic, hill size, etc.), you can shift to a higher gear. Close throttle, at the same time pull clutch lever in and shift to the next higher gear. Let clutch lever go again and open 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 will not decreases but the engine will use less fuel.

Only give as much throttle as the engine can handle. Through quick and high reving of throttle, the fuel consumption increases. When shifting down, use the brakes if necessary and close throttle at the same time. Pull clutch lever and shift down to the next gear. Let clutch lever go slowely and open throttle or shift down again.

- AVOID ABRUPT LOAD CHANGES WHILE RIDING AROUND BENDS AND ON WET OR SLIPPERY GROUND. OTHERWISE YOU MIGHT EASILY LOSE CONTROL OF YOUR MOTORCYCLE.
- 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.
- AFTER FALLING WITH THE MOTORCYCLE, CHECK ALL FUNCTIONS THOROUGHLY BEFORE STARTING UP OPERATIONS AGAIN.
- A BENT HANDLEBAR MUST ALWAYS BE REPLACED. NEVER TRY TO STRAIGHTEN THE HANDLEBAR BECAUSE THIS WILL CAUSE IT TO LOSE ITS STABILITY.

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 to warm up. After that no further precautions in this respect need be taken. The engine has reached its operating temperature as soon as the radiators become warm.
- NEVER HAVE THE THROTTLE WIDE OPEN WHEN CHANGING DOWN TO A LOWER GEAR. THE ENGINE WILL OVER-REV, DAMAGING THE VALVES. IN ADDITION, THE REAR WHEEL LOCKS SO THAT THE MOTORCYCLE CAN EASILY GET OUT OF CONTROL.
- LONG WHEELIES LEAD TO A DROP IN THE OIL PRESSURE WHICH CAN LEAD TO MOTOR DAMAGE.
- IF ANY ABNORMAL VIBRATIONS OCCUR WHILE DRIVING, CHECK THAT THE ENGINE FASTENING BOLTS ARE TIGHT.
- 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

Close throttle 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 care, blocking wheels can cause you to skid or fall. Also change down to lower gears depending on your speed.

When driving down hill, use the braking effect of the engine. Change down one or two gears but do not overspeed the engine. In this way, you will not need to brake so much and the brakes will not overheat.

⚠	WARNING	⚠

- 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.

Stopping and parking

Apply the brakes fully and put the engine into neutral. To stop the engine, switch off the ignition or pull the short circuit button when the engine is idling, until the engine stops. Turn the fuel tap to the OFF position, park on an area with firm ground, and lock the motorcycle.



- ALWAYS PARK YOUR MOTORBIKE ON A SOLID AND HORIZONTAL SURFACE.
- 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 OPERATING 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 CARBURETTOR CAN FLOOD AND FUEL WILL ENTER THE ENGINE.
- NEVER PARK YOUR MOTORCYCLE IN FIRE HAZARDOUS PLACES DUE TO DRY GRASS OR OTHER EASILY FLAMMABLE MATERIALS.



NOTE REGARDING THE MAIN STAND:

We advise the following procedure to place the motorcycle on the main stand as effortlessly as possible:

- a) press main stand to ground using foot.
- b) swing out kickstarter and pull at an angle toward the rear of motorcycle (see illustration).

Fuel

The LC4 engine needs premium gasoline with an octane number of 95 or higher.

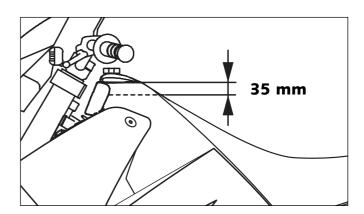
i	CAUTION	!
		(95 OCTANIS)

Use leaded or unleaded premium grade gasoline (95 octanes). Never use any gasoline having less than 95 octanes because it may damage the engine.

\triangle	WARNING	\mathbb{A}

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 refuelling. 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.

Fuel expands when its temperature rises. Therefore do not fill the tank to the top (see fig.).



				625 SC
S P O	RTHOTOGREYCLES PERIODIC MAINTENANCE SCHEDU			C SUPERMOTO
		1. Service after	after / every	after / every
	A washed motorcycle can be checked more quickly which saves money!	1000 km or	2500 km or	5000 km or
		10 hours	25 hours	once a year
	Change engine oil, oil filter, and micro-filter	•	•	•
	Clean oil screens and magnet of drain plug	•		•
ENGINE	Check oil lines for damage and kink-less arrangement	•		•
5	Check and adjust spark plug, replace every 10,000 km			
Ξ	Check and adjust valve clearance	•		
	Check engine fastening screws for tight fit	•		•
IOR	Check carburetor connection boots for cracks and leaks			•
CARBURATOR	Check idle setting	•		•
CARB	Check bleeder hoses for damage and kink-free arrangement	•		•
	Check cooling system for leaks, antifreeze protection	•		•
	Check exhaust system for leaks and suspension	•		•
S	Check actuating cables for damage, smooth operation, and kink-less	•		•
AR'	arrangement, adjust and lubricate			
ADD-ON-PARTS	Clean air filter and air filter box			•
20	Check cables for damage and kink-less arrangement			
à	Check headlamp adjustment			•
AD	Check electrical system for function; (low/high beams, stop light, turn indicators,	•		•
	tell-tale lamps, horn)			
	Make sure all screws and nuts are tight.	•		•
6	Check brake fluid level, lining thickness, and brake discs	•		•
Ч	Check brake lines for damage and leaks	•		•
BRAKES	Check/adjust smooth operation, free travel of handbrake/footbrake levers	•		•
В	Check screws of brake system for tight fit	•		•
	Check suspension strut and fork for leaks and proper function	•		•
	Check O-ring of suspension strut for wear			•
	Clean dust sleeves			
ASSIS	Bleed fork legs	•		
AS	Check swinging-fork pivot			•
£	Check/adjust steering-head bearing			
	Lubricate reversing lever			•
	Check all chassis screws for tight fit (fork plates, fork leg, axle nuts/screws,	•		•
	swinging-fork pivot, reversing lever, suspension strut)			
	Check spoke tension and rim join	•		•
S	Check tire condition and inflation pressure	•		•
	Check chain and chain guides for wear, force fit and tension.	•		•
WHEEL	Check screws on pinion and chain sprocket for locking devices and a tight fit.	•		•
>	Lubricate chain	•		•
	Check wheel bearings and jerk damper for play			•
	MPORTANT RECOMMENDED MAINTENANCE PROCEDURES TO BE PERFORMED BA		at least	
		every 2500 km or 25 hours	at least once a year	every 2 years or 20000 km
Pe	rform complete fork maintenance		•	
Pe	rform complete suspension strut maintenance			
Pe	rform complete reversing lever maintenance			
	place glass-fiber yarn packing of main silencer	•		
	ean and lubricate steering-head bearing and sealing elements		•	
	ean and adjust the carburetor		•	
	eat the electrical contacts and switches with contact spray		•	
	ange brake fluid		•	
		1		1

IF MOTORCYCLE IS USED FOR COMPETITION 5000 KM SERVICE SHOULD BE CARRIED OUT AFTER EVERY RACE! Service intervalls should never be exceed by moor than 5 hours or 500 km. Maintenance work done by KTM authorised workshops is not a substitute of care and checks done by the rider!

VITAL CHECKS AND CARE PROCEDURES TO BE COND	JCTED BY T	HE OWNER	R OR THE N	IECHANIC
	before each start	after every cleaning	for cross country use	once a year
Check oil level	•			
Check brake fluid level	•			
Check brake pads for wear				
Check lighting system for proper operation	•			
Check horn for proper operation	•			
Lubricate and adjust actuating cables and nipples		•		
Bleed fork legs in regular intervals			•	
Remove and clean dust sleeves in regular intervals			•	
Clean and lubricate chain as necessary		•	•	
Check chain tension	•	•	•	
Clean air filter and filter box			•	
Check tire pressure and wear	•			
Check coolant level	•			
Check fuel lines for leaks	•			
Drain float chamber		•		
Verify smooth operation of all controls	•			
Check brake performance		•		
Treat exposed metal components (except for the braking and exhaust		•		
systems) with wax-based anti-corrosion agents				
Treat steering lock and light switch with contact spray		•		
Check all screws, nuts, and hose clamps for tight fit				•

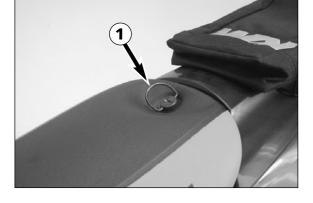
MAINTENANCE WORK ON CHASSIS AND ENGINE

≙

WARNING

ALL MAINTENANCE AND ADJUSTEMENT OPERATIONS THAT ARE MARKED WITH A * REQUIRE SPECIALIST KNOWLEDGE. FOR YOUR OWN SECURITY, LET THESE TASKS BE CARRIED OUT BY A KTM-DEALER. AT KTM YOUR MOTORCYCLE WILL RECIEVE OPTIMAL SERVICING BY SPECIALLY TRAINED MECHANICS.

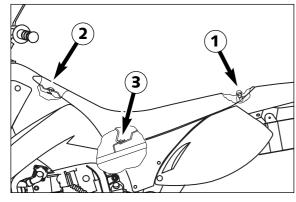
- I. CAUTION I. When cleaning the motorcycle, do not use a high pressure cleaning unit if possible, otherwise water will penetrate the bearings, CARBURETOR, ELECTRIC CONNECTORS ETC.
- When transporting your KTM, ensure that it is held upright with restraining straps or other mechanical fastening devices and that THE FUEL TAP IS IN THE OFF POSITION - IF THE MOTORCYCLE SHOULD FALL DOWN, BE AWARE OF ANY LEAKING FUEL FROM THE CARBURETOR OR FUEL TANK
- 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.
- REMOVE OILS, FATTY MATTERS, FILTERS, FUELS, WASHING DETERGENTS ETC. ORDERLY.
- Under no circumstances may used oil be disposed of in the sewage system or in the open countryside. 1 liter used oil contaminates 1.000.000 LITERS WATER.
- IF YOU UNFASTEN SELF-LOCKING NUTS, YOU HAVE TO REPLACE THEM BY NEW ONES.
- IF YOU UNFASTEN SCREWS AND NUTS SECURED BY LOCTITE, YOU HAVE TO REATTACH AND SECURE THEM IN THE SAME WAY. SEE TECHNICAL SPECIFICATI-ONS - FASTENING TORQUES ON PAGE 36/37.



Removal of seat

By using the quick-release fastener **1**, the seat can be removed without using tools. Turn the quick-release fastener about 180° counter clockwise and lift up the rear of the seat. Pull the seat backwards and unhook it from the front fastener screw 2.

Λ



When installing the seat, be sure to insert the rear portion of the seat into the metal clasp **3**.





The tool set **4** is accommodated in the tool compartment behind the seat.

After every 5 hours of use for competitive racing, slacken the breather plugs ① 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 street, it will be enough to have this job performed in the course of the periodical maintenance service.

i	CAUTION	!
VE PRESSURE I	N THE INTERIOR OF THE FORK CAN CAUSE I	leaks in the fork. If

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 **2** 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 lever the dust-protection bellows out of the outer tubes and slide them downward.

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

Check and adjust steering head bearing *

Check steering head bearing for play periodically. To check this put motorcycle on a stand so that the front wheel is off the ground. Now try to move the fork forward and backward. To adjust, loosen the five pinch bolts ③ of the top triple clamp and turn steering stem bolt ④ 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. Retight the five pinch bolts with 20 Nm (15 ft.lbs).

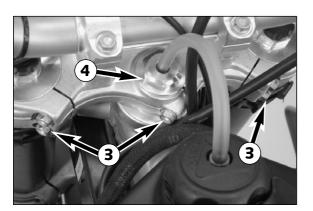
	RNING 🛆
IF THE STEERING HEAD BEARING IS NOT A	DJUSTED TO BE FREE OF PLAY, THE MOTORCY
CLE WILL SHOW AN UNSTEADY DRIVING PE	ERFORMANCE AND CAN GET OUT OF CONTROL.
! CA I	UTION !

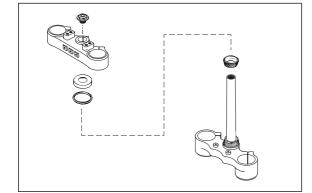
IF YOU DRIVE WITH PLAY OF STEERING HEAD BEARING FOR LONGER PERIODS, FIRST THE BEARINGS AND THEN THE BEARING SEATS IN THE FRAME WILL BE DESTROYED.

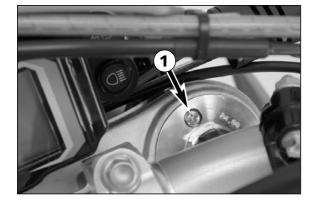
At least once a year, the steering head bearings should be smeared with waterproof grease (Shell Advance Grease).

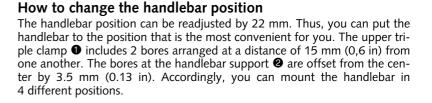
Breather plug front fork

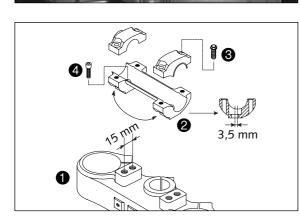




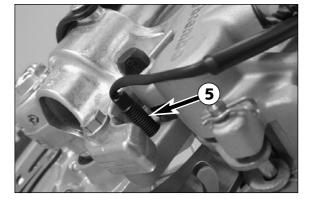








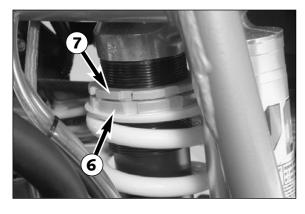
For this purpose, remove screws ③ of the handlebar clamps and screws ④ of the handlebar support. Position handlebar support, and tighten screws ④ to 40 Nm (30 ft.lbs). Mount handlebar and handlebar clamps, and tighten screws ④ to 20 Nm (15 ft.lbs). The gap between handlebar support and handlebar clamps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

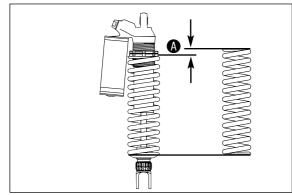


Check/set distance of the magnetic sensor

The distance between magnet and sensor **6** must be 2-4 mm, otherwise malfunctions on the speedometer might occur.

This distance can be corrected by screwing in or off the sensor **⑤**.





Changing the spring preloading of the shock absorber

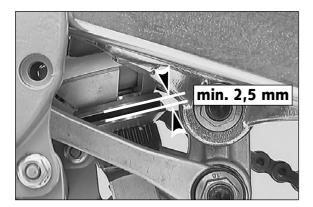
KTM sets the shock absorber for a driver with a weight of approximately 75 kg (165 lb). If the weight of the driver is more or less than 75 kg (165 lb), you should change the spring preloading @ accordingly. This is easily done. NOTE:

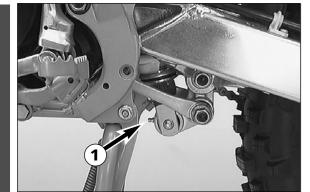
- Before changing the spring preload note the basic setting, e.g. how many threads are visible above the adjusting ring.
- One rotation of the adjusting ring **(6)** changes the spring pretension by approximately 1,75 mm (0,07 in).

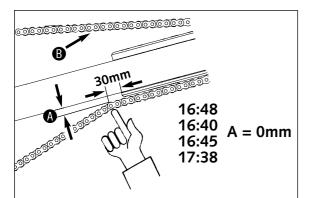
Loosen the locking ring \bullet with the hook spanner from the tool set. Change the spring preload with the adjusting ring \bullet and re-tighten the locking ring.

BASIC SETTING – SPRING PRELOAD:

WP 0118W714 A = 23 mm	(625 SC)
WP 0118W721 A = 15 mm	(625 SC SUPERMOTO)







Checking rubber ring on the WP rear shock absorber

A rubber ring mounted on the rear shock absorber serves as a vibration damper. This ring gets pressed together with time and loses its shock absorbing function.

Measure the distance between the two discs at various points around their circumferences. The space should be at least 2.5 mm (0,1 in) wide. Have the rubber ring replaced by an KTM dealer when compaction due to wear has exceeded this lower limit.

!	CAUTION	
NOT REPLACING THE RUBBER	RING IN TIME CAN RESULT IN	DAMAGE TO THE REAR SHOCK
ABSORBER.		

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

Lubricate rear suspension linkage

The bearings in the link lever must be greased in regular intervals. For this purpose, a lubricating nipple \bullet is mounted on the link lever.

i	CAUTIC	N	!	
				CDEACE

After each time the motorcycle is washed, it is especially important to grease the lubricating nipple to push any water out of the bearings.

Checking chain tension

For checking, put the motorcycle on its main stand or jack it up on its frame so that the rear wheel is relieved of any load.

Push the chain upwards appr. 30 mm(1,2 in) from the end of the chain sliding component until the upper part of the chain is tensioned (see illustration)

Now, the distance 0 between chain and swingarm should be 0 mm respectively 5 mm (0,2 in) (**depending on final drive ratio**). The upper part of the chain 0 must be tight (see illustration).

₼

Correct chain tension, if necessary!

₼

WARNING

- IF CHAIN TENSION IS TOO HIGH, PARTS WITHIN THE SECONDARY TRANSMISSION (CHAIN, SPROCKETS, DRIVE ASSEMBLY 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 sprockets. 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

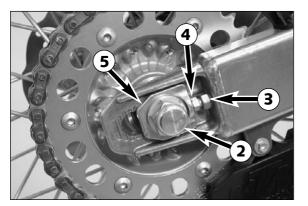
Loosen collar nut @, loosen lock nuts ③, and turn right and left adjusting screws ④ equally far. Tighten lock nuts ③.

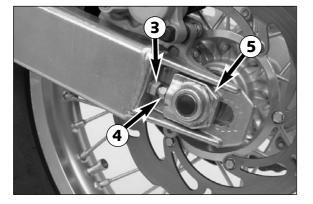
Before tightening the collar nut, verify that the chain adjusters **③** are sitting close to the adjusting screws and that the rear wheel has been aligned with the front wheel.

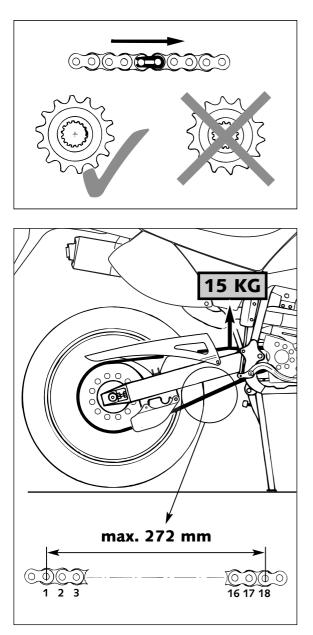
Tighten collar nut 2 with 80 Nm (59 ft.lb).

\triangle	WARNING	\triangle

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.







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 (Shell Advance Bio Chain).

≙	WARNING	Δ
NO LUBRICATION IS ALLOWED	to reach the rear tire	OR THE BRAKE DISK, EITHERWISE
THE ROAD ADHERENCE AND TH	HE REAR WHEEL BRAKING	FFFECTS WOULD BE STRONGLY
REDUCED AND THE MOTORCYCI	E COULD EASILY GET OU	T OF CONTROL.
!	CAUTION	!

When mounting the chain joint, the closed side of the safety device must POINT IN RUNNING DIRECTION.

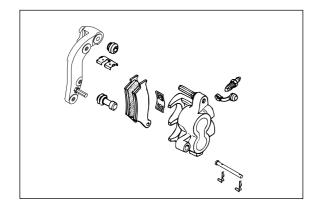
Also check sprockets and chain guides for wear, and replace if necessary.

Chain wear

In order to check the chain wear, regard the following indications:

Shift the gear into idling and pull the upper chain strand with approx. 10-15 kilogram (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.

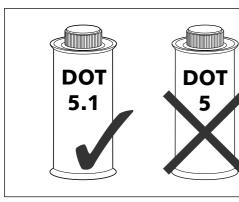


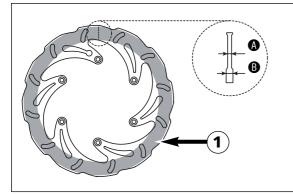
General information about KTM disc brakes

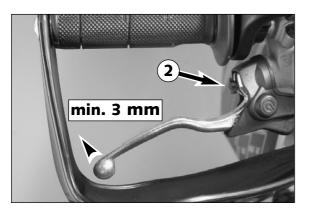
BRAKE CALIPERS:

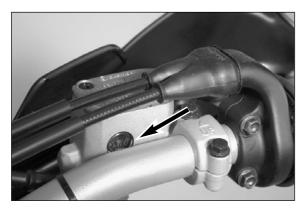
The brake calipers of this series "float". This means that the brake calipers are not solidly attached to the caliper support. Thus, the brake pads are always in optimum contact with the brake disc. Secure the screws of the caliper support with Loctite 243 and tighten to 25 Nm (19 ft.lb).











BRAKE PADS:

The motorcycles are delivered with organic brake pads and have also been type-coded with these pads. Said pads are suitable for almost the entire range of application of these motorcycles. It is only for competitive racing in extremely dirty conditions (e.g., water in combination with sand and mud) that we recommend brake pads that have sintered linings. However, take notice of the fact that brake pads with sintered linings have not been typecoded! Besides, they may cause greater wear on the brake discs.

♪	WARNING	♪

Brake shoes available in the accessory trade are often not authorized for operation of your KTM motorcycle in road traffic. The brake shoe's design and friction factor and therefore the braking power can deviate significantly from original KTM brake shoes. If you use different brake shoes than those provided with the original equipment, it cannot be warranted that they are authorized for use in road traffic. Your motorcycle will not longer comply with the regulations authorizing the use of vehicles for road traffic and the warranty will be void.

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 either the brake system has a leak or the brake pads are completely worn down. In this case, consult an authorized KTM dealer immediately.

BRAKE FLUID:

KTM fills the brake systems with Shell Advance Brake DOT 5.1 brake fluid, one of the best brake fluids that 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 by DOT 5.1.

Never use DOT 5 braking fluid. It is based on silicone oil and has a purple color. Gaskets and brake hoses are not compatible with it.

BRAKE DISCS:

Wear reduces the thickness of the brake disc in the area of contact ① with the brake pads. At its thinnest spot ③, the brake disc must not be more than 0.4mm thinner than its nominal dimension ③. The nominal dimension can be gaged in a location beyond the area of contact with the brake pads. Check wear in several spots.

\triangle	WARNING	\land

- BRAKE DISCS SUFFERING FROM WEAR GREATER THAN 0.4 MM CONSTITUTE A SAFETY HAZARD. HAVE THE BRAKE DISC REPLACED IMMEDIATELY AS SOON AS IT REACHES ITS WEAR LIMIT.
- As a matter of principle, have any repair of the brake system carried out by a licensed KTM mechanic.

Adjusting of free travel at the hand brake lever

Free travel at the hand brake lever may be readjusted by using adjustment screw O. 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.

!	CAUTION	i.	

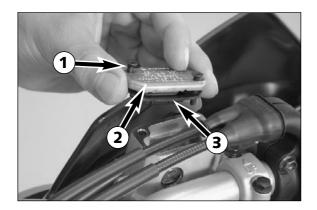
At the hand brake lever, free travel must at least be 3 mm. Only then may the piston in the hand brake cylinder be moved (to be recognized by the greater resistance of the hand brake lever). If this free travel is not provided, pressure will build up in the braking system, and the front-wheel brake may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

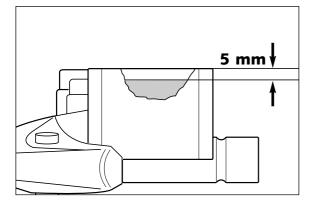
Checking of brake fluid level - front brake

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. The reservoir should be kept completely full at all times for best performance.

⚠	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 authorized KTM dealer immediately.





Refilling the front brake fluid reservoir *

When the brake fluid falls to the middle of the inspection glass, new brake fluid has to be added.

Loosen screws **1** and remove lid **2** and membrane **3**.

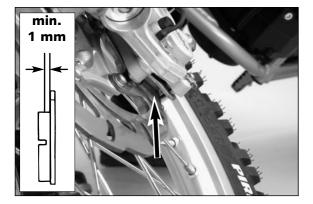
Place hand brake cylinder in a horizontal position and fill the brake fluid reservoir to 5 mm (0,2 in) below the rim with clean brake fluid DOT 5.1 (Shell Advance Brake DOT 5.1). Replace membrane and lid, tighten screws. Rinse off spilled or overflowing brake fluid with water.



- 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.

					C	:A	υτιοι	N			1		
_	D ΟΝ'Τ	LET	BRAKE	FLUID	GET	IN	CONTACT	WITH	PAINT,	IT	IS	AN	EFFECTIVE
	PAINT R	EMO	VER.										

- Use only clean brake fluid taken from a tightly sealed container.



Checking the front brake pads

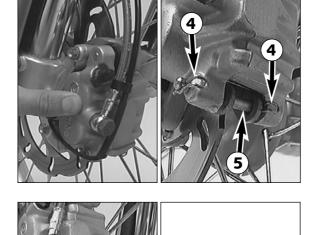
The brake pads can be inspected from below. The linings nust be at least 1 mm (0,04 in) thick.

≙	WARNING	♪
	OINT BRAKE PAD LININGS SHOU COULD LEAD TO BRAKE FAILUR PUR 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 front brake pads *

Press the brake caliper toward the brake disk, to put the brake piston in its basic position. Remove clips ④ and pull out bolt ⑤. 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.



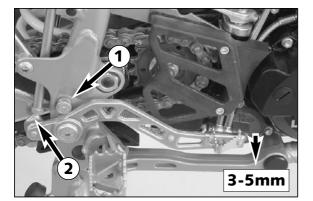
Mount the right brake pad and fix it with the bolt. Mount the left brake pad and insert the bolt until it stops. Mount the clips.

When mounting the brake pads, be sure to check for correct fit of the sliding metal-sheet 0 in the caliper support and of the leaf spring 0.

A

⚠	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.
- HAVING PERFORMED ANY WORK 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.



Changing the basic position of the brake pedal *

The basic setting of the foot brake pedal can be changed by turning the end stop roller ①. Using the push rod ②, the free play on the foot brake pedal must be set.

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

!	CAUTION		!	
CLEARANCE IS	MISSING, PRESSURE ACCUMULATES	IN THE	BRAKING	SYSTEM AND

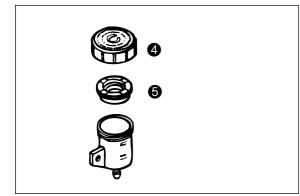
If this clearance is missing, pressure accumulates in the braking system and the brake pads begin to rub. The braking system overheats and can fail completely in extreme cases.

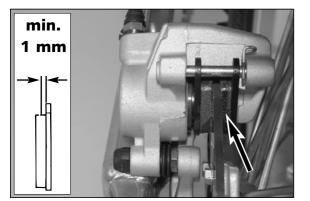
Check the rear brake fluid level

The reservoir for the rear disc brake is located above the main brake cylinder. The level of brake fluid may not fall below the "MIN" mark when the vehicle has been left standing upright

\land	WARNING	Δ

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 ${\sf KTM}$ dealer immediately.





Refilling the rear brake fluid reservoir *

When the brake fluid level has dropped to the MIN mark, you need to refill the brake fluid reservoir.

For easier access to the brake fluid reservoir it is recommended to remove the hexagon screw ③. Then move the container outwards as indicated in the illustration. Remove plug ④ with rubber boot ⑤ and add brake fluid DOT 5.1 (Shell Advance Brake DOT 5.1) up to the "MAX" mark. Replace rubber boot and plug. Overflown or spilled brake liquid must be rinsed off with water. Mount the screw and fix the brake fluid reservoir to the frame, always making sure to prevent kinks in the connecting hose.

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	\mathbb{A}	WARNING	Δ				
I EVER	USE DOT5	brake fluid! It is based on a	SILICONE OIL AND OF A PURPLE				

- 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
- 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 either the brake system has a leak or the brake pads are completely worn down.
 - IN THIS CASE, CONSULT AN AUTHORIZED KTM DEALER IMMEDIATELY.

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

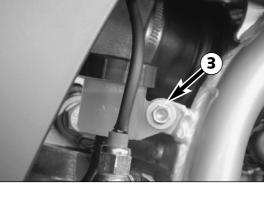
The brake pads can be inspected from the rear. The thickness of the linings may not be less than 1 mm (0.04 in).

⚠	∆ WARNING			WARNING				[Δ	
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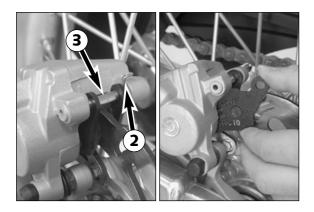
At their most worn point brake pad linings should not be thinner than 1 mm, otherwise they could lead to brake failure. For your own safety don't put off having your brake pads changed.

I		CAUTI	ON		!	
HE BRAKE PADS	ARE REPLACED	TOO LATE SC	THAT THE	LINING IS	PARTLY O	R ENTIRELY

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.



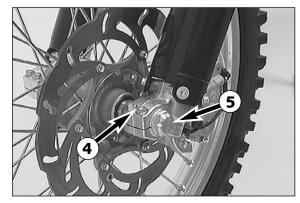
Replacing the rear brake pads * Press brake caliper **①** in direction of chain wheel for the brake piston to reach its basic position. Remove safety device **②**, knock out the guide pin **③** from the brake caliper with a drift towards the chain wheel and remove brake pads. Carefully clean the brake caliper with compressed air and check sleeves of the guide pins for damage.



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

	\triangle	WARNING	♪
_	It is very important to	KEEP THE BRAKE DISK FREE F	ROM OIL AND FATTY MATTERS.
	OTHERWISE, THE BRAKING	EFFECT WOULD BE STRONG	LY REDUCED.

- AFTER ASSEMBLY, CHECK IF CIRCLIPS HAVE BEEN FITTED CORRECTLY.
- HAVING PERFORMED ANY WORK 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 (625 SC)

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

Loosen both clamp screws ④ on the left fork leg. Then loosen the collar nuts ⑤ before loosening the clamp screws ④ on the right fork leg.

Hold the front wheel and withdraw the wheel spindle **O**

Note: The wheel spindle can be withdrawn more easily by turning it moderately with a 6 mm ALLAN/IMBUS key while pulling. Carefully remove the front wheel from the fork.

! CAUTION	!
Do not operate the hand brake when the front wheel	

- DO NOT OPERATE THE HAND BRAKE WHEN THE FRONT WHEEL HAS BEEN DISMOUNTED.
- Always place the wheel on the ground with the brake disc pointing upwards. Otherwise the brake disc may be damaged.

To install the front wheel, lift it into the fork, position and mount the axle shaft. Mount the collar nut **③**, tighten the clamping screws **④** 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.

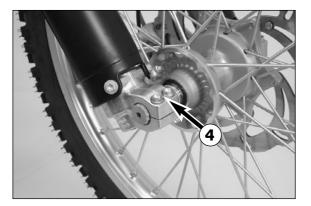
Only after this has been accomplished, tighten the clamp screws on both fork legs with 10 Nm(7 ft. lbs).

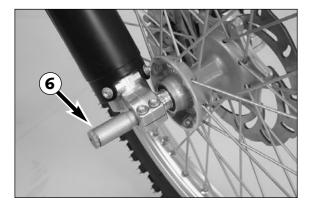
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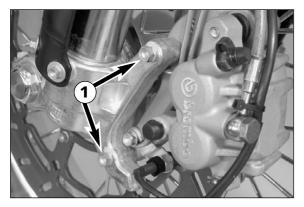
WARNING

Λ

- 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, Eitherwise the braking effects would be strongly reduced.







Dismounting and mounting the front wheel (625 SC SUPERMOTO)

The front wheel of the SC SUPERMOTO is essentially removed in the same manner as the front wheel of the 625 SC. However, the brake caliper has first to be removed. To remove the front brake caliper, remove both screws **①** and pull the caliper backwards from the brake disc.

After mounting the front wheel, slide the brake caliper to the brake disc. Remove the grease from the threads of both screws **1** and apply Loctite 243. Tighten the screws with 25 Nm(19 ft. lbs).

Δ	WARNING	\wedge
The screws 1 must be si	ecured with Loctite 243.	

Dismounting and mounting the rear wheel (625 SC) Park the motorcycle on the center stand. The rear wheel must not touch the ground.

Loosen the collar nut @, remove chain tensioner ③, hold the rear wheel and pull out the wheel spindle ④ 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 rear sprocket and carefully take the rear wheel out of the swingarm.

-		
!	CAUTION	!
- DO NOT OPERATE	THE REAR BRAKE WHEN THE REAR WHEEL	HAS BEEN DISMOUNTED.

- ALWAYS PLACE THE WHEEL ON THE GROUND WITH THE BRAKE DISC POINTING UPWARDS. OTHERWISE THE BRAKE DISC MAY 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 (SHELL ADVANCE GREASE) TO PREVENT THE THREAD FROM JAMMING.

NOTE: If the rear wheel has been dismounted, you should also check the shock absorption rubber.

The rear wheel is remounted in 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.

Dismounting and mounting the rear wheel (625 SC SUPERMOTO)*

Park the motorcycle on the center stand. The rear wheel must not touch the ground.

Remove rear screw 6 from the chain guard.

To prevent the rim from being damaged, wrap a wide rubber band () or an old hose around the brake caliper (see illustration).

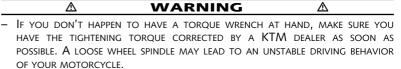
Remove collar nut @, remove chain tensioner @, hold on to the rear wheel while you pull out wheel spindle @.

Push the rear wheel as far forward as possible and remove the chain from the sprocket. Carefully push the rear wheel back, lift slightly and swivel to the left. Carefully lift the wheel diagonally towards the rear and remove from the swing arm. Do not use force to remove the rear wheel to avoid damaging the rim.

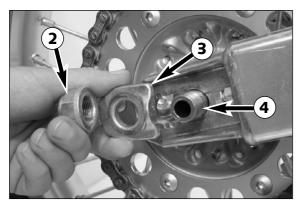
NOTE: If the rear wheel has been dismounted, you should also check the shock absorption rubber.

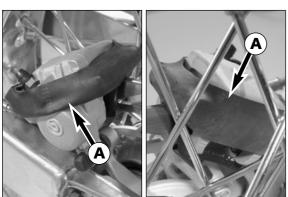
The rear wheel is remounted in reverse order. Before tightening the collar nut to 80 Nm (60 ft.lb), push the rear wheel forwards so that the chain tensioners lie on the tension screws.

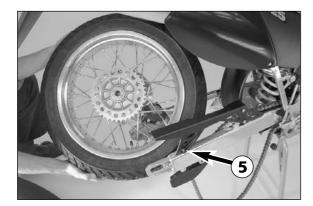
Tighten the rear screw from the chain guard with 10 Nm (7ft.lb).



- AFTER MOUNTING THE REAR WHEEL, KEEP OPERATING THE FOOTBRAKE UNTIL THE PRESSURE POINT RETURNS.
- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND GREASE, OTHER-WISE THE BRAKING EFFECT WOULD BE STRONGLY REDUCED.







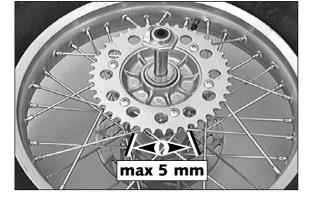


For this purpose, lie the rear wheel on a work bench with the rear sprocket upwards, and put the wheel spindle in the hub. Now hold the rear wheel firmly and try to turn the rear sprocket. The rear sprocket may not turn more than maximum 5 mm (0,2 in) measured on the outside. If the play in the chain wheel is larger, all 6 shock absorption rubbers are to be replaced. Check the shock absorption rubbers for signs of damage and dirt.

IF THE SHOCK A	SORPTION RUBBER	S ARE NOT REPLA	CED IN GOOD TIME,	THE REAR
SPROCKET CARRIE	R AND THE REAR	HUB WILL BE DAN	MAGED. ALLWAYS REI	PLACE ALL
6 ABSORPTION RU	BBERS, NEVER SING	LE RUBBERS.		

CAUTION

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TIRES - AIR PRESSURE									
	front	rear							
Off road	1.0 bar (14 psi)	1.2 bar (17psi)							
Road driver only	1,8 bar (25 psi)	2.0 bar (28 psi)							
Supermoto	2.0 bar (28 psi)	2.2 bar (31 psi)							

Tires, air pressure

dismounted.

Tire type, tire condition, and air pressure level affect the way your motorcycle rides, and they 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 their 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 the tread is down to 2 mm.

Tire pressure should be checked regularly on a "cold" tire. Proper pressure ensures optimum driving comfort and extends the life of your tires.

\land	WARNING	Δ
Do not mount	TIRES WHICH HAVE NOT BEEN APPRO	oved by KTM. Other tires

- COULD HAVE ADVERSE EFFECTS ON THE WAY YOUR MOTORCYCLE BEHAVES.
 FRONT AND REAR WHEELS MAY ONLY BE FITTED WITH TIRES HAVING THE SAME TREAD
- 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.
- WORN TIRES CAN HAVE A NEGATIVE EFFECT ON HOW YOUR MOTORCYCLE PERFORMS, ESPECIALLY ON WET SURFACES
- If air pressure is too low, abnormal wear and overheating of the tire can result



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, in 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.

♪	WARNING	⚠	
			- -

- 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 4 NM (3ft.lb).



Cooling system

Coolant is circulated by a water pump located in the engine. When the engine is cold the coolant circulates only through the cylinder and the cylinder head. After the engine has reached its operating temperature (about 70°C, 158° F), the thermostat ① opens and the coolant is also pumped through both aluminum radiators.

Air blowing in through the radiators cools the coolant. The slower the speed of the motorcycle, the less the coolant is cooled down. Dirty radiators also reduce the cooling efficiency.

Pressure induced by heating of the coolant in the system is controlled by a valve in the radiator cap @; a water temperature rising up to 120° C (248° F) is admissible, without fear of problems.

♪	WARNING	≙			
E POSSIBLE ALWAYS	CHECK LEVEL OF COOLING LIQUID	WHEN ENGINE IS COLD IE YOU			

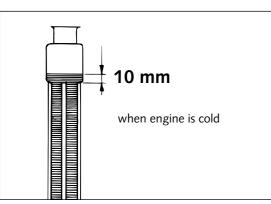
- IF POSSIBLE, ALWAYS CHECK LEVEL OF COOLING LIQUID WHEN ENGINE IS COLD. IF YOU HAVE TO OPEN THE RADIATOR CAP 2 WHEN THE ENGINE IS HOT, USE A RAG TO COVER THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE. CAUTION SCALDING HAZARD !
- Do not detach any radiator hoses while the engine is hot. The escaping hot 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, GO SEE A DOCTOR IMMEDIATELY!
- IF COOLANT GETS INTO YOUR EYES, RINSE THEM OUT WITH WATER IMMEDIATELY AND GO SEE A DOCTOR!

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

!		СА	UT	ION		!	
THE COOLING	SYSTEM, USE	ONLY \	WITH	HIGH-GRADE	ANTIFREEZE	(SHELL	ADVANCE

For the cooling system, use only with high-grade antifreeze (Shell Advance Coolant). Using lower-grade antifreeze agents, can cause corrosion and coolant foaming.



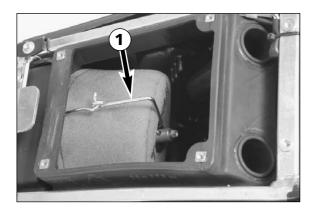


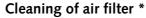
Checking the coolant level

The coolant should be 10 mm (0,4 in) above the radiator fins when the engine is cold (see illustr.). In the event of the coolant being drained, always fill and bleed the system.

∕	∆ WARNING					Δ		
POSSIBLE.	ALWAYS	CHECK LEVEL	OF COOLING	LIOUID	WHEN	ENGINE IS	COLD.	IF YOU

- 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
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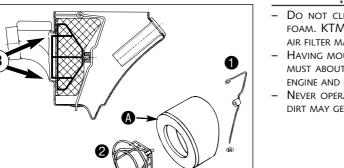




To do this, remove the seat and the air filter cover from the air filter box. Unclap the filter holder \bullet , swing back and remove air filter plus filter carrier from the filter box.

Thoroughly wash the air filter in special cleaning fluid and allow to dry well. Only press out the filter, do not wring out under any circumstances. Oil the dry air filter with a high grade filter oil. Also clean the air filter box. Check carburetor collar for damage and that it is fitted correctly.

Mount the air filter on the filter support @. Grease the front side @ of the filter, to improve the seal. Mount the air filter and the filter support in the filter box. Make sure they are centered @, and lock into place with the filter holder ①.



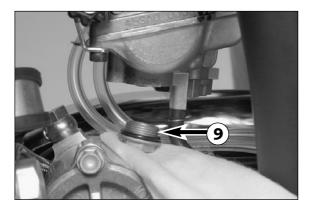
Do not clean air filter with fuel or petroleum since these damage the foam. KTM recommends the products of the company "TWIN AIR" for air filter maintenance.

CAUTION

- Having mounted the air filter, check it for correct fit. The front end Must about the air filter box. Otherwise, dust and dirt may get into the engine and lead to increased wear.
- NEVER OPERATE YOUR MOTORCYCLE WITHOUT AIR FILTER. OTHERWISE, DUST AND DIRT MAY GET INTO THE ENGINE AND LEAD TO INCREASED WEAR.

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Exhaust system *

Aluminium silencers are filled with glass fiber yarn. If exposed to heat for longer periods of time, however, the glass fiber yarn pack will come unravelled, which can reduce both overall performance and the performance of the silencer. Experience has shown that the front glass fiber pack O must be replaced more often than the rear pack O.

To replace the front glass fiber yarn pack, remove the silencer. Remove the front cap 3, pull the front glass fiber yarn pack out of the silencer, mount a new pack on the internal exhaust pipe, insert the internal exhaust pipe 3 into the silencer and replace the cap.

To replace the rear glass fiber yarn pack, drill the rivets open and remove the rear cap \boldsymbol{O} .

NOTE:

Always renew the O-rings **(3)**.

Glass fiber yarn packs are available in your KTM store.

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IAUST	SYSTEM	BECOMES	VERY	HOT	WHILE	THE	MOTORCYCLE	IS	RUNNING.	то

The exhaust system becomes very hot while the motorcycle is running. To avoid burns Do not start work on the exhaust system until it has properly cooled down.

Draining of 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 causes malfunction.

Perform this task on a cold engine. Close the fuel tap and place a cloth underneath the carburetor, which is able to absorb any escaping fuel. Unscrew the plug 0 and clean it with compressed air. Check the O-ring and reinstall the plug. Open the fuel tap and check the float chamber for leaks.

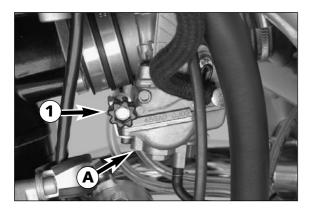
WARNING

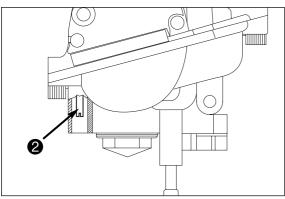
 FUEL IS EASILY FLAMMABLE AND TOXIC. WHEN HANDLING FUEL, BE SURE TO EXERCISE THE UTMOST CAUTION. NEVER PERFORM ANY WORK ON THE FUEL SYSTEM IN THE PROXIMITY OF OPEN FLAMES OR BURNING CIGARETTES.

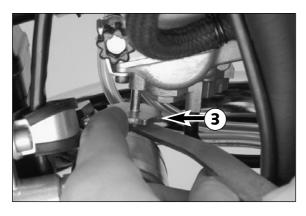
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- Always allow the engine to cool off first. Immediately clean up any fuel which may have been spilled. Materials saturated with fuel are also easily flammable. In case you ingested fuel or fuel splashed into your eyes, consult a doctor immediately.
- DISPOSE THE FUEL PROPERLY!

Λ







CARBURETOR – Adjust idling (Keihin-FCR41) *

Idling adjustment of the carburetor strongly affects the engine's starting behavior. That is, an engine whose idling speed is adjusted correctly will be easier to start than one whose idling speed has not been adjusted correctly. The idle speed is controlled by means of the adjusting wheel **1** and the mixture control screw **2**. The adjusting wheel is used to adjust the basic setting of the slide. The mixture control screw is used to control the idle mixture which arrives at the engine by way of the idle system. Clockwise turning reduces the fuel quantity (lean mixture), counterclockwise turning increases the fuel quantity (rich mixture).

TO ADJUST IDLING CORRECTLY, PROCEED AS FOLLOWS:

- 1 Turn in mixture control screw ② up to the stop, and turn it back out to the basic position (see tecnical date engine)
- 2 Warm up the engine
- 3 Use the adjusting wheel \bullet to set the normal idle speed (1400 1500 rpm).
- 4 Turn mixture control screw **2** slowly clockwise until idling speed starts to decrease. Memorize this position, and turn mixture control screw slowly counterclockwise until the idling speed will decrease again. Adjust the point of the highest idling speed between these two positions. If, in the course of this procedure, the speed undergoes a relatively high increase, reduce the idle speed to a normal level and repeat the procedure specified in 4. Serious competitive racers will choose a setting approx. 1/4 turn (clockwise) leaner than this ideal value because their engine will heat up more when used in competitions.

NOTE: If you fail to obtain a satisfying result by following the procedure described above, an incorrectly dimensioned idling nozzle may be the cause. In case:

a) the mixture control screw has been screwed in up to the stop without causing any change in rotational speed, a smaller idling jet has to be installed;

b) the engine dies when the mixture control screw is still open by 2 turns, a larger idling jet needs to be selected;

Naturally, in cases of jet changes, you have to start your adjusting work from the beginning.

- 5 Then, use the adjusting wheel to set the desired idle speed.
- 6 In cases of greater changes in outside temperature and extremely different altitudes, the idling speed should be readjusted.

Basic information on carburetor wear

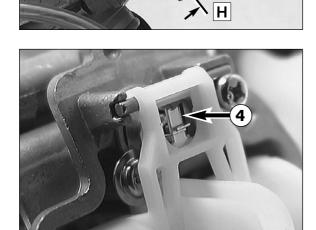
As a result of engine vibrations, throttle valve, jet needle, and needle jet are subjected to increased wear. This wear may cause carburetor malfunction (e.g., overly rich mixture). Therefore, these parts should be replaced after 200 hours.

Adjusting the mixture control screw *

Especially on the EXC models, accessing the mixture control screw is difficult. For this reasons, we have created an appropriate special tool.

Introduce the special tool into the bore O at the carburetor bottom. Press the tool slightly upward and turn the adjusting wheel O until the tool engages the slot of the mixture control screw O.

Now, you can go about adjusting the screw. Marks were provided on the adjusting wheel, making it easier to keep track of the turns.



Checking the float level (float height) *

For this purpose, dismount the carburetor and remove the float chamber. Hold the carburetor in a slanted position such that the float will abut the float needle valve but not compress it (see photo).

Now, use a sliding caliper to measure the distance ${\bf 0}$ between the casing edge and the float's upper edge.

The float height **()** is to be 9mm.

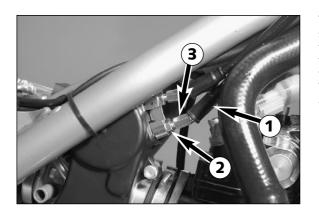
If the float height does not correspond to the desired value, check the float needle valve and, if necessary, replace it.

If the float needle valve is o.k., you can adjust the float height by bending of the float lever \mathbf{Q} .

Mount the float chamber, install the carburetor, and adjust the idle speed.

Adjusting the throttle cable *

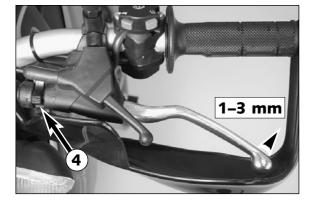
The throttle grip should always provide for a backlash of 3-5 mm (0,12-0,20 in). Besides, with the engine running, the idling speed must not change if you turn the handlebar all the way to the left or right.



3-5 mm

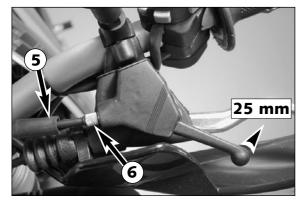
To adjust the throttle cables, dismount the seat and the tank together with spoilers. Slide back the protection cover ①. Loosen the counter nut ② and turn the adjusting screw ③ accordingly. Turning the adjusting screw counterclockwise will reduce the backlash, turning the adjusting screw clockwise will increase the backlash.

Tighten the counter nut and check whether the throttle grip can be actuated smoothly. Mount tank and seat.



Adjusting the clutch cable

When the engine is cold, the play at the clutch lever should be 1-3 mm (0,04-0,12 in) (measured at the outer edge). To adjust the clutch cable turn the adjustment nut **4** accordingly.



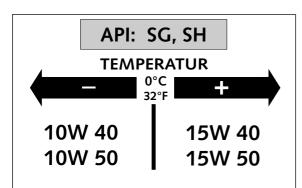
Checking the adjustment of the hand decompression release cable *

To check, set piston at compression, so that the valves are closed. While doing this, slowly kick the kick starter through its stroke until the clicking sound (disengaging) of the automatic decompression release can be heard. Now the deko-lever must be operated 25 mm (1 in) until resistance is felt (the exhaust valves begin to open). To adjust move back the protective cover O, loosen the counter nut and correct the adjustment screw O accordingly. Tighten counter nut and push back protective cover.

!	CAUTION	!
IF THERE IS NO PLAY IN THE DE	KO-LEVER, THIS CAN RESULT IN	ENGINE DAMAGE.

NOTE:

No adjustment need be made to the automatic decompressor.

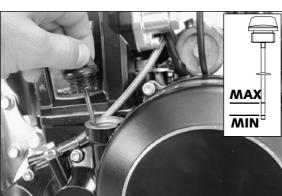


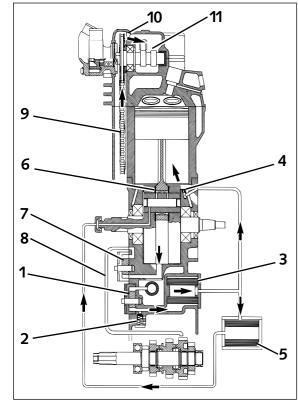
Engine oil

Only use synthetic high-quality oils (Shell Advance Ultra 4) meeting or surpassing the quality requirements of API classes SG, or SH (for specifications see containers).

CAUTION

INSUFFICIENT OIL OR POOR QUALITY OIL RESULTS IN PREMATURE WEAR OF THE ENGINE.





Checking engine oil level

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Allow the engine to run at idle speed for about 4 minutes. Turn off the engine and place the motorcycle on a flat, level surface (center stand). Wait 5 minutes, unscrew and remove the oil dipstick, and wipe it clean with a cloth.

SCREW THE DIPSTICK IN ALL THE WAY AND REMOVE IT AGAIN.

The oil level should be between the two marks on the dipstick, however, it must never rise above the MAX mark. Otherwise, engine oil would get into the air filter box by way of the engine venting system. Add engine oil if necessary.

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	! CAUTION						ļ					
_	Insufficient	OIL	OR	POOR	QUALITY	OIL	RESULTS	IN	PREMATURE	WEAR	OF	THE

- ENGINE. CHECKING THE ENGINE OIL LEVEL WHEN THE ENGINE IS COLD RESULTS IN A FALSE
- READING ON THE OIL DIPSTICK AND THEREFORE AN INCORRECT OIL LEVEL.
- DO NOT OVERFILL THE ENGINE CASE.

- DO NOT UNDERFILL THE ENGINE CASE.

Check the engine for leaks.

Oil circuit

The oil pump **1** pumps the engine oil past the by-pass valve **2** through the oil filter 3. After the oil filter, an oil lead branches off to a jet 3 which sprays engine oil onto the piston pin bearing and piston head. The second oil lead takes the main flow of oil to the microfilter **5**, which filters out even the finest impurities. The cleaned engine oil is pumped through the oil lead and the clutch cover into the crankshaft to the connecting rod bearing @ and drips into the crankcase. An additional oil pump **1** sucks the engine oil out of the crankcase and pumps it through the oil line ³ to the gear wheels of the 4th and 5th gear. Via the gear wheels, the engine oil reaches the oil sump. The timing chain (runs through the oil sump and transports the engine oil upwards to the cylinder head. Through the bore **(**) the oil reaches the camshaft **1** and the valves.

Changing the engine oil *

The engine oil change is to be carried out when the engine is still warm.

7	WARNING		⚠

AN ENGINE HAVING BEEN RUN WARM, AND THE ENGINE OIL IN IT ARE VERY HOT - DO NOT BURN YOURSELF.

Place the motorbike on a horizontal surface. Remove the two plugs (19) and (B), and drain oil into a container.

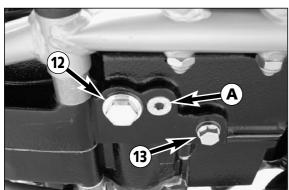
!	CAUTION	!

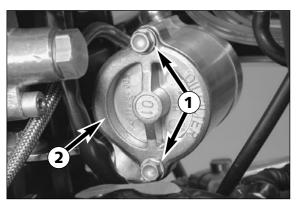
The screw plug I must not be removed, this is part of the by-pass valve.

Clean the plugs thoroughly with a fireproof solvent and compressed air, in order to remove the metal abrasion. After all the oil has drained through, clean raised and flat faces and install plugs with seals. Tighten plug @ with 30 Nm (22 ft.lb)and plug 🖲 with 20 Nm (15ft.lb).

Remove oil dipstick on the clutch cover and fill with 1.45 litre engine oil (i.e. Shell Advance Ultra 4).

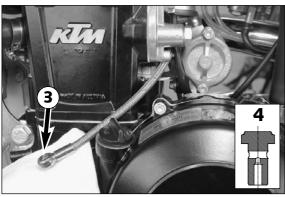
Warm up engine, check engine oil level and refill up to the marking MAX. Finally check the oil system for leaks.



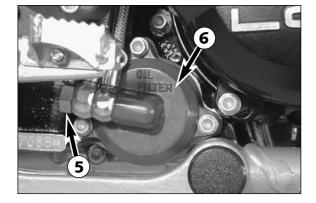


Changing and bleeding the microfilter *

Replace the microfilter while changing the engine oil. To do so, remove hexagon screws ① and take off the microfilter cover ②. Remove the microfilter, clean its parts and check the O-ring on the microfilter lid for signs of damage. Before installing the new micro filter, soak it in clean engine oil. Place a new microfilter in the filter housing, apply a thin layer of grease to the O-ring and mount the microfilter cover.

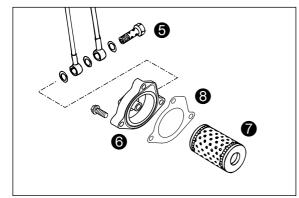


It is necessary to bleed the micro filter so that all friction areas can be quickly supplied with engine oil. To do this, fill with oil and remove the jet screw O from the oil line on the clutch cover. Start the engine and close off the oil filler hole on the clutch cover with a rag. Allow the engine to run at idle until oil runs out of the oil line O. Turn the engine off. Install seal rings and the jet screw. Torque the jet screw to 10 Nm (7 ft.lb) and check for leaks.



Changing oil filter *

Replace the oil filter when changing the engine oil. Press the foot brake pedal and place a screwdriver or similar between foot brake pedal and stopper roll so that the oil filter cover is more accessible. Remove banjo bolt and the three screws. Remove oil filter cover and oil filter. Clean the filter case, oil filter cover and sealing areas. Make sure the oil duct in the oil filter cover is not clogged.



Place the new oil filter O on the connection in the oil filter cover and mount together with a new seal O. Tighten the 3 screws in the filter cover to 5 Nm (4 ft.lb). Tighten the hollow screw with seals and tighten to 15 Nm (11 ft.lb).

Finally, start the engine and check the oil system for leakage.

TROUBLE SHOOTING

If you let the specified maintenance work on your motorcycle be carried out, disturbances can hardly be expected. Should an error occur nevertheless, we advise you to use the trouble shooting chart in order to find the cause of error.

We would like to point out that many operations cannot be performed by oneself. In case of uncertainty, please contact a KTM-dealer.

TROUBLE	CAUSE	REMEDY
Engine will not start	Operating error	Switch on ignition, switch on emergency OFF switch, open fuel tap, tank fuel, do not use choke. Pay attention to starting off information (see driving instructions).
	The motorcycle has been out of operation for a longer period of time. Therefore old fuel has accu- mulated in the float chamber	The easily inflammable components of the new fuels evapo- rate during longer periods of standstill. When the motorcycle has been out of operation for more than a week, it is therefore recommended to drain the old fuel from the float chamber. The engine will immediately start off when the float chamber is filled with new fuel.
	Fuel supply interrupted	Close fuel tap, loosen fuel hose at carburettor, lead into a basin and open fuel tap, – if fuel leaks out, clean carburetor – if no fuel leaks out, check tank ventilation, i.e. clean fuel tap
	Flooded engine	In order to "pump the engine free", pull the hand decompres- sion lever, fully rev up the engine, actuate the kickstarter 5 to 10 times. Then, start the engine as described above. If the engine fails to start, unscrew the spark plug and dry it.
	Sooty or wet spark plug	Clean or replace spark plug
	Electrode gap too large	Adjust spark plug electrode gap to 0,9 mm
	Spark plug connector or spark plug faulty	 Dismount spark plug, connect ignition cable, hold to ground (blank place on engine) and actuate kickstarter, a strong spark must be produced at the spark plug If no spark is produced, loosen spark plug cap from ignition cable, hold about 5 mm from ground and actuate kickstarter If a spark now occurs, replace spark plug cap If no spark is produced, control ignition system
	If connector oxidates from genera- tor to ignition coil	Remove fuel tank, clean connector and treat with contact spray
	Short circuit cable scored in wiring harness, ignition lock, emergency OFF switch or short circuit button faulty	Remove fuel tank, draw off black/yellow cable from cable of ignition coil and check spark. – If a spark is produced, seek fault in short circuit current
	Water in short emergency OFF switch	Remove 2-pole connector located underneath the headlight mask, treat emergency OFF switch with contact spray
	The plug connection of the CDI- unit, the pulse generator or the ignition coil has oxydized	Remove the seat and the fuel tank. Clean the plug connection and treat it with contact spray
	Water in carburetor or jets blocked	Dismount and clean carburetor
	Carburetor does not fit in properly at intake flange	Check if carburetor is fitted in correctly
	Idling jet blocked	Dismount carburetor and clean jets
Engine will not idle	Adjusting screws on carburetor uncorrect adjusted	Adjust carburettor
	Ignition system faulty	Have ignition system checked
Engine does not rev high	Carburetor fuel level too high because float needle valve is dirty or worn out	Dismount carburetor and check if worn out

TROUBLE	CAUSE	REMEDY	
Engine does not rev high	Loose carburetor jets	Tighten jets	
	Electronical ignition timing faulty	Have ignition system checked	
Engine will not reach full power	Fuel supply partically interrupted or carburetor dirty	Clean and check fuel system as well as carburetor	
	float is not tight	replace the float	
	Air filter very dirty	Clean or replace air filter	
	Exhaust system is not tight, defor- med, or the silencer contains not enough glass fiber yarn	Check if exhaust is damaged, replace glas fibre yarn in exhaust silencer	
	Valve gap to small	Adjust valve gap	
	Loss of compression because hand decompressor has no play	Check setting of the hand decompression cable	
	Electronical ignition timing faulty	Have ignition system checked	
Engine stops or splutters in	Insuffient fuel	Clean and check fuel system and carburetor	
carburetor	Engine takes air out of control	Check intake flange and carburetor if firmly setted	
Engine gets too hot	Insufficient cooling liquid	Refill cooling liquid (see maintenance work), check cooling system for leaks	
	Not enough air stream	Drive on briskly	
	Radiators very dirty	Clean radiators with water jet	
	Foam formation in cooling system	Replace cooling liquid, use anti freeze liquid with brand name	
	Bent cooling hose	Shorten or replace cooling hose	
	Thermostat defective	Dismount and check thermostat (opening temperature 70°C, (158°F) or replace it	
High oil consumption	Buckling gearing ventilation hose	Dislocate i.e. replace non-buckling ventilation hose	
	Engine oil level too high	Check engine oil level when the engine is warm; correct if necessary	
	Motor oil too thin (viscosity)	Use thicker engine oil; see chapter "Engine oil"	
All switched on lamps blown out	Capacitor or voltage regulator faulty	Remove right side cover and control connections. Have capacitor and voltage regulator checked	

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	I
NEVER CLEAN YOUR MOTORC	YCLE WITH A HIGH-PRESSURED CLEANER OR A HIGH-PRESSURED WATER JET	. The water could otherwise run into the
ELECTRICAL COMPONENTS, CO	ONNECTORS, SHEATHED CABLES, BEARINGS, CARBURETOR ETC. AND CAU	SE DISTURBANCES OR LEAD TO A PREMATURE
DESTRUCTION OF THESE PARTS.		

- You should use normal brand-name detergents to clean the motorcycle. Especially dirty parts should be cleaned additionally with the help of a paint brush.
- Befor cleaning with water, plug the exhaust pipe to prevent water ingress.
- 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 too.
- To prevent failures in the electric system, you should treat 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 motorcycle thoroughly and let it dry after each riding

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 treat engine, carburetor, swing arm, and all other bare or galvanized parts (except for brake discs) with a wax-based anti-corrosion agent.

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WARNING

KEEP ANTI-CORROSION AGENT FROM GETTING INTO CONTACT WITH THE BRAKE DISCS, FOR 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 desire to make a pause over a longer space of time, please observe the following instructions:

- Clean motorcycle thoroughly (see chapter: CLEANING)
- Change engine oil, oil filter and micro filter (old engine oil contains aggressive contaminants).
- Check antifreezer and amount of cooling liquid.
- Let the engine warm up again, close fuel cock and wait until the engine dies off by itself. By this means, carburetor jets are prevented from becoming resinous 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.
- Set piston to compression so that the valves will be closed. While doing this, slowly kick the kick starter through its stroke until the clicking sound (disengaging) of the automatic decompression release can be heard.
- Let fuel flow out of tank into an appropriate container.
- Correct tire pressure.
- Lubricate bearing points of the control levers, foot rests, etc. as well as the chain.
- Service the rear suspension linkage
- The storage place should be dry and not be subject to too big temperature fluctuations.
- Cover the motorcycle with an air permeated tarp or blanket. Do not use non air permeable 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.

RE-INITIATION AFTER TIME OF STORAGE

- Fill up tank with fresh fuel.

- Check 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 have to 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 mechanic at the beginning of the next biking season.

34

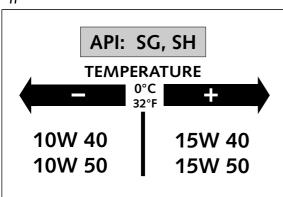
TECHNICAL SPECIFICATIONS – ENGINE 625 SC, 625 SC SUPERMOTO 2002

Engine	625 LC4		
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft		
Displacement	625 ccm		
Bore / Stroke	101 / 78 mm		
Ratio	11,0 : 1		
Fuel	unleaded premium gasoline with a least RON 95		
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain		
Camshaft	249/1		
Valve diameter	Intake: 36 mm Exhaust: 30 mm		
Valve clearence cold	Intake: 0,15 mm Exhaust: 0,15 mm		
Crank shaft bearing	2 cylinder roller bearing		
Connecting rod bearing	needle bearing		
Top end bearing	bronze bushing		
Piston	forged aluminium alloy		
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring		
Engine lubrication	two Eaton-oilpumps		
Engine oil	see table #		
Engine oil quantity	1,6 liters (0,42 US gallons)		
Primary ratio	straight geared spur wheels 30 : 81 teeth		
Clutch	multi disc clutch in oil bath		
Transmission	5-speed claw shifted		
Gear ratio 1st 14:35			
	2nd 15:24		
	3rd 18:21		
	4th 20:19		
	5th 22:18		
Ignition system	contactless DC-CDI ignition with digital advanced system type KOKUSAN 4K3		
Ignition timing	adjustment to max. 38 ° BTDC at 6000 rpm		
Generator	12V 200W		
Spark plug	NGK DPR8 EA-9		
Spark plug gap	0,9 mm		
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanic driven water pump		
Cooling liquid	1 liter, 40% antifreeze, 60% water, at least -25°C (-13°F)		
Starting equipment	Kickstarter, cold start knob on carburetor		

ENGLISH

35

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Engine oil

Use only synthetic oil brands, which meet quality requirements (Shell Advance Ultra 4) of API-classes SG or SH (informations on bottles) or higher.



TIGHTENING TORQUES - ENGINE 625 SC, 62	5 SC SUPERMOT	O 2002	
Hexagon nut at primary gear	M20x1,5	Loctite 243 + 170 Nm	(125 ft.lb)
Collar nut flywheel	M12x1 left	60 Nm	(44 ft.lb)
Hexagon nut for inner clutch hub	M18x1,5	Loctite 243 + 100 Nm	(74ft.lb)
Kickstarter stop screw	M12x1,5	50 Nm	(37ft.lb)
Allan head screw oil pumps	M6	Loctite 243 + 8 Nm	(6ft.lb)
Hexagon screw camshaft gear	M10	Loctite 243 + 35 Nm	(25ft.lb)
Allan head screw cylinder head top sect.	M6x25/m6x35/M6x65	/M6x70 (8.8) 8 Nm	(6ft.lb)
Allan head screw cylinder head top sect.	M6x50/M6x55 (12.9)	15 Nm	(11ft.lb)
Cylinder head screws	M10	50 Nm	(37ft.lb)
Collar nuts at cylinder base	M10	40 Nm	(30ft.lb)
Hexagon screw chain sprocket	M10	Loctite 243 + 40 Nm	(30ft.lb)
Oil drain plug	M22x1,5	30 Nm	(22ft.lb)
Magnetic plug	M12x1,5	20 Nm	(15ft.lb)
Plug bypass valve	M12x1,5	20 Nm	(15ft.lb)
Hollow screws oil lines	M8x1	10 Nm	(7ft.lb)
Hollow screws oil lines	M10x1	15 Nm	(11ft.lb)
Jet screw clutch cover	M8	10 Nm	(7ft.lb)
Screw plug timing-chain tensioner	M12x1,5	20 Nm	(15ft.lb)
Counternuts valve adjusting screws	M7x0,75	16 Nm	(12ft.lb)
Crankshaft locking bolt	M8	25 Nm	(19ft.lb)
Spark plug	M12x1,25	20 Nm	(15ft.lb)
Engine mounting bolt	M8	40 Nm	(30ft.lb)
Engine mounting bolt	M10	70 Nm	(52ft.lb)

BASIC CARBURETOR SETTING		
	625 SC, 625 SC SUPERMOTO	
Carburetor	Keihin FCR41	
Carburetor setting number	140501	
Main jet	180	
Needle jet	OBDVT	
Idling jet	45	
Main air jet	200	
Idling air jet	100	
Needle position from top	5th	
Throttle valve	15	
Starting jet	85	
Performance restrictor	Slide stop 23mm	
Stop pump membrane	3,2mm	

ENGLISH 36

TECHNICAL SPECIFICATIONS - CHASSIS 625 SC, 625 SC SUPERMOTO 2002

	625 SC	625 SC SUPERMOTO	
Frame	Central chrome-moly-steel frame		
Fork	White Power 4357 MXMA		
Wheel travel front/rear	295 / 320 mm (11,8 / 12,8 in)	270 / 320 (10,8 / 12.8 in)	
Rear suspension	Central shock absorber (WP BAVP3612) with PRO-LI	EVER linkage to rear- swing-arm with needle bearing	
Front brake	Disc brake with carbon-steel b	prake disc, brake caliper floated	
Front brake disc	Ø 260 mm (10,4 in)	Ø 320 mm (12.8 in)	
Rear brake	Disc brake with carbon-steel brake disc	\varnothing 220 mm (8.8 in), brake caliper floated	
Tyres front	90/90-21	120/70-17	
Air press. offroad	1,0 bar (14 psi)	-	
Air press. road	1,8 bar (26 psi)	2,0 bar (29 psi)	
Tyres rear	140/80-18	160/60-17	
Air press offroad	1,2 bar (17 psi)	-	
Air press. road	2,0 bar (29 psi)	2,2 bar (32 psi)	
Fuel tank capacity	9 liter (2,3 US gallons), 1.5 lit	er (0,4 US gallons) reserve	
Final drive ratio	16:40 (15:50) t 17:38t		
Chain	X – Ring 5/8 x 1/4"		
Bulps	headlight		
parking light		2V 5W (socket W2,1x9,5d)	
	indicator lamps 12V 1,2W (socket W2x4,6d)		
	brake – rear light 12V 21/5 W (socket BaY15d)		
	flasher light		
license plate illmination 12V 5W (socket W2,1x9,5 d)		2V 5W (socket W2,1x9,5 d)	
Steering angle	62,5 °	63°	
Wheel base	1510 ± 10 mm	(59.4 ± 0.4 in)	
Seat high	950 mm (38 in)	920 mm (36.8 in)	
Ground clearance	340 mm (13,6 in)	300 mm (12 in)	
Dead weight without fuel	122 kg (269 lbs) 123 kg (271 lbs)		

TIGHTENING TORQUES - CHASSIS 625 SC, 625 SC SUPERMOTO 2002				
Collar nut front axle	M16x1,5	40 Nm	(30ft.lb)	
Collar nut rear axle	M20x1,5	80 Nm	(59ft.lb)	
Shock absorber top	M10 (10.9)	45 Nm	(33ft.lb)	
Shock absorber bottom	M10 (10.9)	45 Nm	(33ft.lb)	
Collar screws brake disk front	M6 (10.9)	Loctite 243 + 10Nm	(7ft.lb)	
Collar screws brake disk rear	M6 (10.9)	Loctite 243 + 10Nm	(7ft.lb)	
Screw brake caliper front	M8	Loctite 243 + 25 Nm	(19ft.lb)	
Bearing bolt linkage arm/frame	M12	60 Nm	(44ft.lb)	
Collar nuts rocker arm bolts	M14x1,5	100 Nm	(74ft.lb)	
Engine mounting screw	M10	45 Nm	(33ft.lb)	
Ball joint for push rod	M8	Loctite 243 + 25 Nm	(19ft.lb)	
Sprocket screws on nuts	M8	Loctite 243 + 35 Nm	(25ft.lb)	
Collar nut swingarm bolt	M14x1,5	100 Nm	(74ft.lb)	
Clamping screws top triple clamp	M8	20 Nm	(15ft.lb)	
Clamping screws bottom triple clamp	M8	15 Nm	(11ft.lb)	
Clamping screws fork stubs	M8	10 Nm	(7ft.lb)	
Screws handlebar clamp	M8	Loctite 243 + 20 Nm	(15ft.lb)	
Allan head screw handle bar support	M10	Loctite 243 + 40 Nm	(30ft.lb)	
Spoke nipple	M4	4 Nm	(3ft.lb)	
Other screws/collar nuts on chassis	M6	10 Nm/15 Nm	(7ft.lb)/(11ft.lb)	
	M8	25 Nm/30 Nm	(19ft.lb)/(22ft.lb)	
	M10	45 Nm/50 Nm	(33ft.lb)/(37ft.lb)	

STANDARD ADJUSTMENT - FORK				
	625 SC	625 SC SUPERMOTO		
	WP 0518W712	WP 0518W722		
Compression adjuster	20	14		
Rebound adjuster	12	14		
Spring	4,2 N/mm	5,0 N/mm		
Spring preload	5 mm	9 mm		
Air chamber length	140 mm	130 mm		
Fork oil	SAE 5	SAE 5		

STANDARD-ADJUSTMENT - SHOCK ABSORBER				
	625 SC 625 SC SUPERMOTO			
WP 0118W714 WP 0118W721				
Compression adjuster	3	5		
Rebound adjuster	5	7		
Spring	63 / 260	75 / 260		
Spring preload	23 mm	15 mm		





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