

BEDIENUNGSANLEITUNG

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





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:

▲ WARNING ▲
IGNORING THESE INSTRUCTIONS, CAN ENDANGER YOUR
BODY AND YOUR LIFE.

! CAUTION ! IGNORING THESE INSTRUCTIONS COULD CAUSE DAMAGE TO PARTS OF YOUR MOTORCYCLE OR THAT THE MOTOR-CYCLE IS 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.

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

This manual is an important part of your motorbike and should be passed on to any subsequent owner in case you decide to sell it.

Many motorcyclists have a good working knowledge of motorcycle mechanics; if this is true in your case, you will be able to use this manual 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 * described 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. Have services carried out by a KTM dealer so that your warranty claim remains intact.

We wish you a lot of fun when driving !



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.

KTM SPORTMOTORCYCLE AG 5230 MATTIGHOFEN, AUSTRIA

ALL RIGHTS RESERVED TO MAKE ALTERATIONS TO DESIGN AND MODEL.

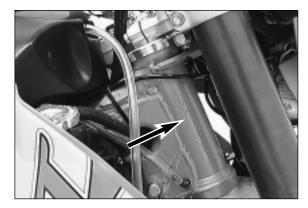
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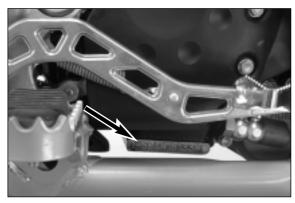
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SERIAL NUMBER LOCATIONS

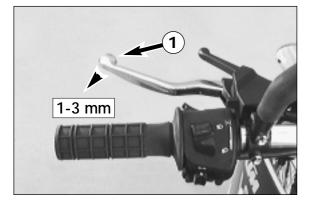
Chassis number

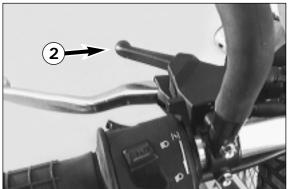
The chassis number is stamped on the right side of the steering head tube. Write this number into the relevant area on page 1.



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 handle bar. When engine is cold, there should allways be a play of 1-3 mm (0,04-0,1 in) at this lever (measured at outer edge).

! CAUTIO				I		ļ.							
			ON .	тығ	сплен	I EV/ED	тне	сплен	\\//11.1	STADT	то	SI ID	Тыр

IF THERE IS NO PLAY ON THE CLUTCH LEVER, THE CLUTCH WILL START TO SLIP. THE CLUTCH WILL THEN OVERHEAT, DESTROYING THE CLUTCH LININGS.

Hand decompression lever

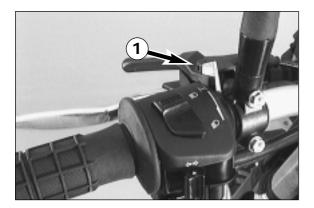
The hand decompression lever 2 is only used in two special cases: a) When the engine stalled.

It is possible that the starter motor is not able to crank the engine on the next attempt. This is due to the fact that the automatic decompressor doesn't work properly. If this happens, pull the manual decompression lever and start again. Afterwards normal starting will be possible.

- b) When you want to push the motorcycle.
- While pushing, pull the hand decompression lever to make it easier to get the engine going.

	i	CAUTION					
CETTINIC	OF				рг		

The setting of the hand decompression cable should be regularly checked (see maintenance work). A lack of play in the hand decompression lever can result in engine damage.

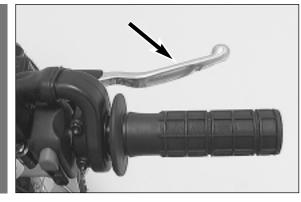


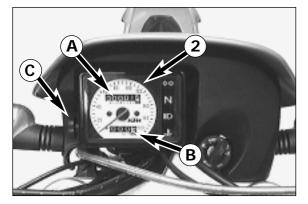
Choke lever

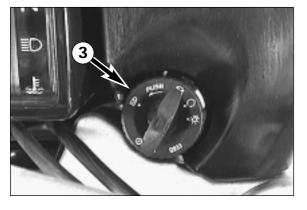
If the choke lever 1 is pulled backwards, a bore will be opened in the carburetor through which the engine may draw in additional fuel. This produces a "rich" fuel/air mixture necessary for cold start. If the choke lever is pushed forward up to the stop, the bore will be closed again. In this position the choke cable must have a play of approx. 2 mm.

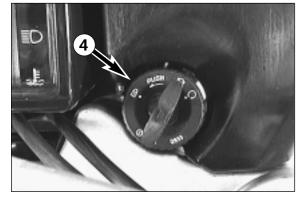
!	CAUTION	ļ
f there is no play in the	CHOKE CABLE, THE BORE C	of the cold starter system

IF CANNOT BE COMPLETELY CLOSED. THIS RESULTS IN HIGH FUEL CONSUMPTION, AN UNEVEN RUNNING ENGINE, AND AN EXTREME WEAR OF PISTON AND CYLINDER.









Hand brake lever

The hand brake lever is mounted on the handlebar on the right and actuates the front wheel brake.

\mathbb{A}	WARNING	≙				

If the resistance in the hand brake lever or foot brake pedal feels " SPONGY (TOO MUCH GIVE), THIS IS AN INDICATION THAT SOMETHING IS WRONG WITH THE BRAKE SYSTEM. DON'T RIDE YOUR MOTORCYCLE ANYMORE WITHOUT FIRST HAVING THE BRAKE SYSTEM LOOKED OVER BY A KTM DEALER.

Speedometer, indicator lamps

The mileage indicator A in the speedometer 2 indicates overall mileage. The day mileage indicator B can be set to 0 by means of the setting wheel C. Turn the setting wheel forward until only zeros can be seen in the display.

The green indicator lamp flashes when the flasher light is working in (\$ \$ the same rhythm as the flasher light.

Ν The green indicator lamp lights up when the gear is switched to idle.

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

The red cooling liquid temperature warning lamp lights up at a cooling liquid temperature of 105°C (223°F).

CAUTION	!

POSSIBLE CAUSES FOR THE RISE IN TEMPERATURE AND THE LIGHTING OF THE RED COO-LING LIQUID TEMPEREATURE WARNING LIGHT:

- SLOW RIDING WITH LARGE LOADS AT A HIGHER AIR TEMPERATURE
- Too little cooling liquid in the system
- THE COOLING FAN ON THE LEFT COOLER IS NOT WORKING
- (SEE PAGE 27) - EXCESSIVE USE OF THE CLUTCH AT SLOW SPEED

Ignition lock with 4 switch positions

Switch positions of ignition lock 3:

Ignition off, light off (engine can't be started)



Ignition on, light off (engine can be started)

- Ignition on, light on (engine can be started) Riding just with lights!
- Ignition off, light off, handlebar blocked ብ To switch the ignition to position \oplus turn the ignition key to position
 - 8 and firmly press it into the lock. Turn the handlebar all the way to the left, then turn the ignition key to the left.

The ignition key can be withdrawn in position \bigotimes and \square .

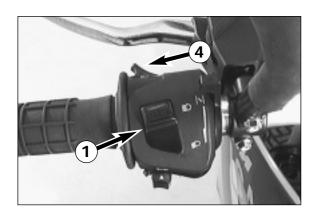
Ignition lock with 3 switch positions

Switch positions of ignition lock 4:

Ignition off, light off (engine can't be started)

- - Ignition on, light on (engine can be started)
 - Ignition off, light off, handlebar blocked
- A To switch the ignition to position \oplus turn the ignition key to position \bigotimes and firmly press it into the lock. Turn the handlebar all the way to the left, then turn the ignition key to the left.

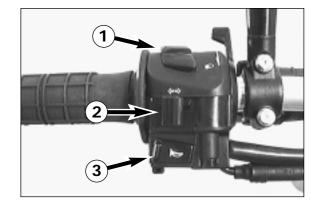
The ignition key can be withdrawn in position \bigotimes and \square .

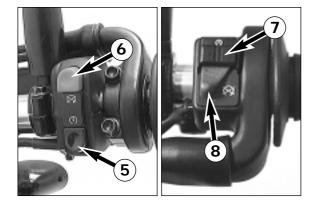


Combination switch

The rocker switch LIGHTS 1 actuates the high beam or low beam.

- $\equiv O$ = High-beam light
- ≣D = Low-beam light
- The indicator switch 2 returns to central position after actuation. Press flasher switch towards switch housing to switch off the flasher.
- The horn is sounded with button 3.
- $\equiv O$ The light signal (high beam) is actuated with button 4.





Starter tip switch, emergency OFF tip switch (LC4-E 640) Use the starter tip switch 5 to operate the electric starter.

			•	•					
	i		CAL	JTION			i		
Maximum	PERIOD	FOR	CONTINUOUS	STARTING:	5	SECONDS.	Wait	AT	LEAST
5 seconds	BEFORE T	RYING	AGAIN.						

The emergency OFF button 6 is meant for use in emergency situations and should not be used to turn off the engine.

The models for Australia are equipped with an emergency OFF switch.

Starter tip switch, emergency OFF switch (LC4-E 400)

({ }	Use the sta	rter ti	p switch 7 to	operate t	ne	electric sta	arter.		
$\bigvee I$	i		CAL	JTION			İ		
ΜΑγικά			CONTINUOUS	STARTING	5	SECONDS	Μ /ΛΙΤ	ΛТ	LEAST

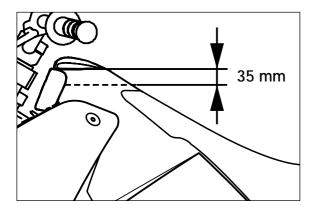
Maximum period for continuous starting: 5 seconds. Wait at least 5 seconds before trying again.

The emergency OFF switch $8\ \mbox{is mainly a safety and emergency switch and should normally be ON.}$

If this symbol is visible on the switch, the engine can be started (i.e. the ignition circuit and the starter circuit are switched on).

 \sum If this symbol is visible on the switch, the engine can not be started (i.e. the ignition circuit and the starter circuit are interrupted).





Filler cap

The filler cap 9 can be locked and is provided with a fuel evaporation control system.

To open the cap insert the ignition key, turn it 90° counterclockwise, then lift off the filler cap.

To close the tank insert the filler cap, turn the ignition key 90° clockwise and take out the key.

Fuel

Λ

The LC4-E engine needs premium gasoline with an octane number of $95 \ensuremath{$ or higher.

	i	CAUTION	ļ
_		R UNLEADED PREMIUM GRADE GASOLINE (95	

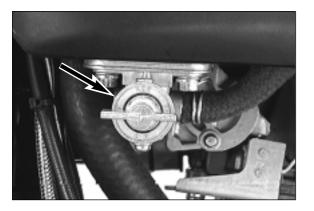
any gasoline having less than 95 octanes because it may damage the engine.

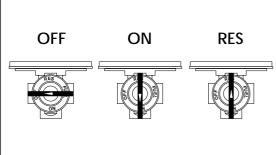
WARNING

Λ

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.).





Fuel tap

- OFF In this position the fuel tap is closed. No fuel may flow to the carburetor.
- **ON** When using the motorcycle, the twist grip 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. 2.5 liters.
- **RES** The reserve, approximately 2.5 liters, cannot be tapped until the twist grip is turned to the **RES** position. Fill the tank as soon as possible and remember to turn the twist grip back to the **ON** position so that you will have backup fuel next time, too.

!	CAUTION	!
The fuel tap sh	HOULD BE LOCKED WHENEVER THE MOT	ORCYCLE IS PARKED. IF THE TAP
IS NOT CLOSED	THE CARBURETOR MAY OVERFLOW	AND FUEL CAN GET INTO THE

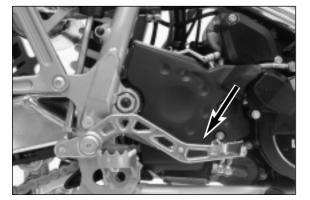
2,3,4,5 N

Shift lever

ENGINE.

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





Kickstarter

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

_	Δ	WARNING	▲
-	When starting the e	NGINE, MAKE SURE THAT	YOU ALWAYS WEAR STURDY
	MOTORCYCLING BOOTS I	n order to avoid injur	Y. You might slide off the
	KICKSTARTER, OR THE EN	IGINE MAY CAUSE THE KIC	KSTARTER TO RECOIL, THEREBY
	CAUSING INJURIES TO FOC	DT AND LEG.	

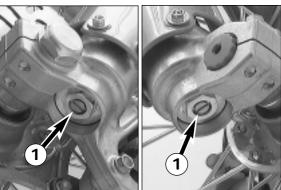
 ALWAYS KICK THE KICKSTARTER BRISKLY ALL THE WAY AND, WHILE DOING SO, NEVER OPEN THE THROTTLE. KICKSTARTING WITH INSUFFICIENT MOMENTUM AND AN OPE-NED THROTTLE LEVER INCREASES THE DANGER OF A POSSIBLE RECOIL.

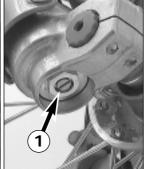
Foot brake pedal

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

WARNING	\triangle

IF THE RESISTANCE IN THE HAND BRAKE LEVER OR FOOT BRAKE PEDAL FEELS "SPONGY" (TOO MUCH GIVE), THIS IS AN INDICATION THAT SOMETHING IS WRONG WITH THE BRAKE SYSTEM. DON'T RIDE YOUR MOTORCYCLE ANYMORE WITHOUT FIRST HAVING THE BRAKE SYSTEM LOOKED OVER BY A KTM DEALER.





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.

By using the knob 1 (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.

BASIC SETTING

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

WP 0518V70720 Klicks (400/640 LC4-E) WP 0518V72114 Klicks (640 LC4-E Supermoto)

Rebound damping of fork

The rebound damping is to be set at the upper end of the fork tubes. It only regulates the degree of damping during rebounding.

By using the knob 2 (REB), the degree of damping of the rebound can be adjusted. Turn the knob clockwise to increase damping, turn it counterclockwise to reduce damping during rebounding.

BASIC SETTING

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

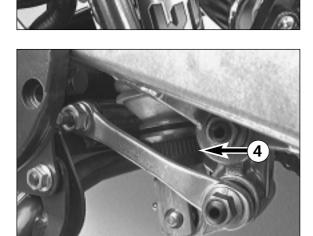
WP 0518V70712 Klicks	(400/640 LC4-E)
WP 0518V72114 Klicks	(640 LC4-E Supermoto)

Compression damping of shock absorber

With the knob 3 the degree of damping of the compression can be adjusted to 7 positions. Turn the knob counterclockwise to increase damping, turn it clockwise to reduce damping during compression.

BASIC SETTING WP 0118V710.....Position 6 WP 0118V720.....Position 5

(400/640 LC4-E) (640 LC4-E Supermoto)



Rebound damping of shock absorber

With the setting wheel 4 the degree of damping of the rebound can be adjusted to 11 positions. Turn the knob to the left side to increase damping, turn it to the right side to reduce damping during rebounding.

BASIC SETTING:

WP 0118V710.....Position 7 WP 0118V720.....Position 7

Λ

(400/640 LC4-E) (640 LC4-E Supermoto)

₼

WARNING

- NEVER CHANGE DAMPING BETWEEN THE TEST DRIVES MORE THAN 2 CLICKS.
- The damping unit of the shock absorber is filled with highly compressed NITROGEN. NEVER TRY TO TAKE THE SHOCK ABSORBER APART OR TO DO ANY MAINTENANCE WORK YOURSELF. SEVERE INJURIES COULD BE THE RESULT.

Baggage carrier

The baggage carrier may be loaded with up to 10 kg. The two lateral hoops serve as handles for the passenger

Check the following before each start

When you start off, the motorcycle must be in a perfect technical 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 THE 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.

3 CHAIN

A loose chain can fall off; an extremely worn chain can tear, and insufficient lubrication can result in unnecessary wear to the chain and rear sprockets.

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 reduce 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 garage, as complete failure of the braking system can be expected.

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

Check free travel at hand brake lever and foot brake pedal. 6 CABLES

- Check correct setting and easy running of all control cables. 7 COOLING LIQUID
- Check the level of cooling liquid when the engine is cold. 8 ELECTRICAL SYSTEM
- Check headlight, parking light, tail light, brake light, flashers, indicator lamps and horn for faultless operation.
- 9 LUGGAGE

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

- ▲ 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 coloured so that other users of the roads can see you as early as possible. Your passenger of course will also need suitable protective clothing.
- Always turn on the light to make sure that other drivers become aware of you as early as possible.
- DO NOT DRIVE AFTER HAVING CONSUMED ALCOHOL.
- 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 VEHICLE'S DRIVING PROPERTIES.
- The front and rear wheel are only allowed to be tired with tires that have the same profile type.

Instructions for initial operation

- Verify that your KTM dealer performed the PREPARATION OF VEHICLE jobs (see Customer Service Manual).
- Read the entire manual carefully before your first drive.
- Familiarize yourself with the operating elements.

- Adjust the hand brake lever and the foot brake pedal to the most comfortable positions for you.
- Get used to handling the motorcycle on an empty car park, 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 ability and experience.
- Hold the handlebar with both hands and leave your feet on the foot rests while driving.
- Remove your foot from the foot brake pedal when you are not braking. If the foot brake pedal is not released the brake pads rub continuously and the braking system is overheated.
- You may only be accompanied by a passenger if your motorcycle is fitted and registered for such purposes. The passenger must hold tight to the brackets or hold on to the driver during the drive, with his feet on the passenger foot rests.
- 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 and passenger with protective clothing and helmet.
- Pay attention to running in instructions.

Running in the LC4-E models

Even finely machined surfaces of engine parts have rougher surfaces than parts that slide on each other for a long time. Therefore, every engine must be run in. For this reason, do not demand maximum performance from the engine for the first 100 kilometers. The vehicle must be run in at low, changing performance level for the first 1000 KM (620 miles). 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. 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.

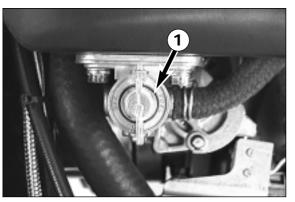
Exceeding the above listed rotations as well as pushing high rpm when the engine is cold will have an adverse effect on the life of your engine.

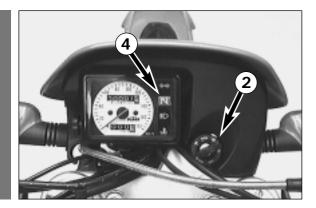
		640 LC4-E	Supermoto		
gear gear	15:45 t	16:42 t	17:42 t		
1st	30 (19)	35 (22)	35 (22)		
2nd	45 (30)	50 (32)	50 (32)		
3rd	60 (38)	70 (44)	70 (44)		
4th	75 (47)	90 (57)	90 (57)		
5th	85 (54)	100 (63)	100 (63)		

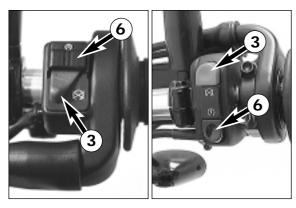
km/h (mph)

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 mine-ral oil formula. This also applies if the engine has been repaired.











Starting when the engine is cold

- Open the fuel tap 1 1
- 2 Switch on ignition (turn ignition key 2 into position \bigcirc).
- 3 Switch on emergency OFF switch 3 (symbol \otimes must be visible). 4
 - Switch transmission to idle (green indicator lamp N 4 lights up).
- Operate cold starting device (choke) 5. 5
- Do not accelerate; operate starter button 6. 6
- If the engine starts, push the choke lever back a little bit, as soon as the 7 engine runs unevenly.
- Lift motorcycle off center stand. 8

∕∧ WARNING ⚠

- TO AVOID INJURIES, IT IS RECOMMENDED TO WEAR BOOTS WHEN USING THE KICKSTARTER.
- Do not start the engine and allow it to idle in a closed room. Exhaust FUMES ARE POISONOUS AND CAN CAUSE LOSS OF CONSCIOUSNESS AND DEATH. ALWAYS PROVIDE ADEQUATE VENTILATION WHILE THE ENGINE IS RUNNING.

_		!		CAU	ΓΙΟΝ			i		
_	Μαχιμυμ	PERIOD	FOR	CONTINUOUS	STARTING:	5	SECONDS.	WAIT	AT	LEAST
	5 seconds	BEFORE 7	FRYIN	G AGAIN.						
_	DON'T RID	E YOUR	мотс	RCYCLE WITH	FULL LOAD	A٨	ID DON'T F	REV ENG	INF	WHEN

COLD. BECAUSE THE PISTON IS WARMING UP FASTER THAN THE WATER COOLED CYLINDER, IT CAN CAUSE ENGINE DAMAGE. ALWAYS LET THE ENGINE WARM UP BEFORE AND REFRAIN FROM DRIVING WITH FULL LOAD UNTIL THE ENGINE IS WARM.

IF THE ENGINE IS DOES NOT CRANK WHEN YOU ACTUATE THE STAR-TER TIP SWITCH:

- the transmission is switched to idle
- Check if the emergency OFF switch is on
- Check if the ignition is on
- the headlight is on (ignition lock in position \mathcal{P}).
 - If this is not the case, the battery is discharged
 - If the lights are on, proceed as described in the "Trouble-shooting" section or contact a KTM dealer.

IF THE ENGINE CRANKS BUT DOES NOT START, WHEN YOU ACTUATE THE STARTER TIP SWITCH:

- Check if the fuel tap is open
- Check if the choke lever has been operated
 - Check if sufficient fuel is in the tank
 - If this is not the case, refill the tank
 - if sufficient fuel is in the tank, proceed as described in the "Troubleshooting" section or contact a KTM dealer.

NOTE:

This motorcycle is equipped with a safety starter system. The engine can only BE STARTED WHEN THE TRANSMISSION IS SWITCHED TO IDLE OR THE CLUTCH LEVER IS PULLED, RESPECTIVELY.

Starting when the engine is warm or hot

- Open the fuel tap 1 1
- Switch on ignition (turn ignition key 2 into position \bigcirc). 2
- 3 Switch on emergency OFF switch 3 (symbol \otimes must be visible). 4
 - Switch transmission to idle (green indicator lamp N 4 lights up).
- Do not accelerate; operate starter button 6. 5
- Lift motorcycle off center stand or swing up side stand, respectively. 6

What to do when the engine is "flooded"

The throttle must be fully opened when starting. If necessary change spark-plug.

Kickstart instructions

Start as described above, then push the kickstarter hard ALL THE WAY.

	♪			WAR		IG			⚠		
_	When s	TARTING	THE	ENGINE,	MAKE	SURE	THAT	YOU	ALWAYS	WEAR	STURDY
	MOTORCY	CLING B	oots	IN ORD	er to	AVOID	INJUR	ү. Ү о	U MIGHT	SLIDE	OFF THE
	KICKSTAR	FER, OR	THE I	ENGINE N	AAY CA	USE TH	HE KIC	KSTAR	ter to r	ECOIL,	THEREBY
	CAUSING	INJURIES	to fo	OT AND	LEG.						

ALWAYS KICK THE KICKSTARTER BRISKLY ALL THE WAY AND, WHILE DOING SO, NEVER OPEN THE THROTTLE. KICKSTARTING WITH INSUFFICIENT MOMENTUM AND AN OPE-NED THROTTLE LEVER INCREASES THE DANGER OF A POSSIBLE RECOIL.



Starting off

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

	\triangle				VV	AR	Ν	IN	G				⚠	
_	Before	YOL	START	O	F, (CHECK	TH	IAT	THE	MA	N S	TAND	HAS	BEEN
	SWUNG	UP	FULLY.	F	THE	STAN	ID	DR	AGS	ON	THE	GRO	UND,	THE

MOTORCYCLE CAN GO OUT OF CONTROL. - ALWAYS TURN ON THE LIGHT TO MAKE SURE THAT OTHER DRIVERS BECOME AWARE OF YOU AS EARLY AS POSSIBLE.

Shifting/Riding

You are now in first gear, refered to as the drive or uphill gear. Depending on the conditions (traffic, road gradient, etc.), you can shift to a higher gear. Close throttle, at the same time pull clutch lever 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 turning the throttle grip all the way, turn throttle back to 3/4; the speed hardly decreases although the engine will use less gas. Never open the throttle wider than the engine can handle. Excessive turning of the throttle grip will increase full consumption.

By 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.

If the engine is killed f.ex. at a crossing, simply pull the clutch lever and start. It is not necessary to switch the gear to NEUTRAL.

⚠	WARNING	L	Δ
OBSERVE	THE TRAFFIC REGULATIONS DRIVE DEFENSIVELY		TRYING

- 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.
- Adjust your driving speed according to the conditions and your driving skills.
- DRIVE CAREFULLY ON UNKNOWN ROADS

1

- Avoid abrupt load changes while riding around bends and on wet or slippery ground. Otherwise you might easily lose control over your motorcycle.
- While riding your motorcycle, never switch the ignition lock to positions \bigotimes And \boxdot .
- 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 driving off-road, always have a friend on a second motorcycle to keep you company, so that you can help each other should difficulties arise.
- REPLACE THE HELMET VISOR RESPECTIVELY GOGGLE GLASSES IN PLENTY OF TIME. WHEN LIGHT SHINES DIRECTLY ON SCRATCHED VISOR OR GOGGLES, YOU WILL BE PRACTICALLY BLIND.
- AFTER FALLING WITH THE MOTORCYCLE, CHECK ALL FUNCTIONS THOROUGHLY BEFORE STARTING UP OPERATIONS AGAIN.
- A deformed handlebar must always be replaced. Under no circumstances should you straighten the handlebar which would consequently lose its stability.

CAUTION

I.

- HIGH RPM RATES WHEN THE ENGINE IS COLD HAVE AN ADVERSE EFFECT ON THE LIFE OF YOUR ENGINE. WE RECOMMEND YOU RUN THE ENGINE IN A MODERATE RPM RANGE FOR A FEW MILES GIVING IT A CHANCE TO WARM UP. AFTER THAT NO FURTHER PRECAUTIONS IN THIS RESPECT NEED BE TAKEN. THE ENGINE HAS REACHED ITS OPERA-TING TEMPERATURE AS SOON AS THE RADIATORS BECOME WARM.
- Never have the throttle wide open when changing down to a lower gear. The engine will overspeed, damaging the valves. In addition, the rear wheel blocks so that the motorcycle can easily get out of control.
- Long wheelies lead to a drop in the oil pressure which can lead to engine damage.
- Never use your motorcycle without an air filter. Otherwise dust and dirt may enter the engine and cause increased wear.

CAUTION

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– The Red coolant warning lamp lights up when the coolant temperature has reached $105\,^\circ\text{c}.$

POSSIBLE CAUSES FOR THE INCREASE IN TEMPERATURE:

-LOW DRIVING VELOCITY AND HIGH LOAD SITUATION IN HIGH AIR TEMPERATURES

-LEVEL OF COOLANT IN THE SYSTEM IS INSUFFICIENT

-FAN AT LEFT RADIATOR IS NOT RUNNING

-IMPROPER USE OF THE CLUTCH WHILE DRIVING AT LOW VELOCITIES PLACE A CLOTH ON THE RADIATOR CAP. OPEN THE CAP SLOWLY, SO THE EXCESS PRESSURE IN THE COOLING SYSTEM CAN ESCAPE. -CAUTION SCALDING HAZARD! - AND CHECK THE COOLING LIQUID LEVEL.

Do not drive on, until there is sufficient liquid in the coling system. However, call on one of KTM's dealers as soon as possible in order to have the defect remedied.

- 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

н

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

When driving downhill, 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.

\wedge	WARNING	≙	

- IN THE RAIN, OR AFTER THE MOTORCYCLE HAS BEEN WASHED, BRA-KING ACTION MAY BE DELAYED DUE TO WET BRAKE DISCS. FIRST, THE BRAKES MUST BE BRAKED DRY.
- ON SALT-SPRAYED OR DIRTY ROADS BRAKE ACTION MAY BE DELAYED AS WELL. FIRST, THE BRAKES MUST BE BRAKED CLEAN.
- When you brake, the brake discs, brake pads, brake caliper and brake fluid heat up. The hotter these parts get, the weaker the braking 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. Turn the fuel tap to the OFF position, park on an area where the ground is firm, and lock the motorcycle.

	Δ V	VARNING	♪
-	ALWAYS PARK YOUR MO	torbike on a solid and i	HORIZONTAL SUR-
	FACE.		
_	NEVER LEAVE YOUR MOT	ORCYCLE WITHOUT SUPERV	ISION AS LONG AS
	THE ENGINE IS RUNNING.		
_	Motorcycle engines p	RODUCE A GREAT AMOUN	T OF HEAT WHILE
	running. The engine ra	ADIATORS, EXHAUST, EXHAU	IST SYSTEM, BRAKE
			VULAT DA NOT

- DISCS, 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
- NEVER PARK YOUR MOTORCYCLE IN PLACES WHERE THERE EXIST FIRE HAZARDS DUE TO DRY GRASS OR OTHER EASILY FLAMMABLE MATERIALS.

CAUTION

- CLOSE THE FUEL TAP WHEN LEAVING YOUR VEHICLE.OTHERWISE THE CARBURETOR CAN OVERFLOW AND FUEL WILL ENTER THE ENGINE.
- ALWAYS TAKE OUT THE IGNITION KEY WHEN PARKING YOUR MOTORCYCLE SO THAT IT CANNOT BE USED BY UNAUTHORIZED PERSONS.

13



NOTE REGARDING THE CENTER STAND:

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

- a) press main stand to ground using foot
- b) swing out kickstarter and pull motorcycle backwards at an angle as illustrated (see illustration).

Make sure that the ground is solid and that your motorcycle is standing securely.



INFORMATION ABOUT THE SIDE STAND:

Use your foot to push the side stand forward as far as possible, and lean your motorcycle to the side. Make sure that your motorcycle is standing safely on solid ground. Just in case, you can also put in a gear.

Motorcycles that have a side stand are provided with a safety starting system. If the side stand has been swung out from the motorcycle, the engine can only be started if the transmission has been switched to idle or if the clutch lever has been pulled in.

If you put in a gear with the side stand in its swung-out position, and if you let go of the clutch lever, the engine will stop.

!	CAUTION	!

The side stand is dimensioned for the weight of the motorcycle only. If you are sitting on the motorbike and thus apply an additional load onto the side stand, you may cause damage to the side stand or the frame, and your motorbike may fall over.



PERIODIC MAINTENANCE SCHEDULE	640	400/640 LC4-E LC4 Adventure
A washed motorcycle can be checked more quickly which saves money!	1. Service after 1000 km	2. Service after 5000 km, then every 5000 km o once a year
Change engine oil, oil filter, and fine filter	•	•
Clean oil screens and magnet of drain plug	•	•
Check oil lines for damage and kink-less arrangement Check and adjust spark plug, replace it every 10,000 km	•	•
Check and adjust spark plug, replace it every 10,000 km		•
Check and adjust valve clearance	•	•
Check engine fastening screws for tight fit	•	•
5 Check carburetor connection boots for cracks and leaks		•
Check idle setting	•	•
Check carburetor connection boots for cracks and leaks Check idle setting Check bleeder hoses for damage and kink-free arrangement	•	•
Check cooling system for leaks, antifreeze protection	•	•
Check radiator fan for proper operation		•
Check exhaust system for leaks and suspension	•	•
Check actuating cables for damage, smooth operation, and kink-less arrangement, and adjust and lubricate them Clean air filter and air filter box Check cables for damage and kink-less arrangement Check headlamp adjustment	•	•
and adjust and lubricate them		
Clean air filter and air filter box		•
Check cables for damage and kink-less arrangement		
Check headlamp adjustment		
Check electrical system for function (low/high beams, stop light, turn indicators,		
headlamp flasher, tell-tale lamps, speedometer illumination, horn,	•	•
side-stand switch, clutch switch, emergency-off switch)		
Check brake fluid level, lining thickness, and brake discs		
	•	•
Check brake lines for damage and leaks Check/adjust smooth operation, free travel of handbrake/footbrake levers	•	•
Check/adjust smooth operation, free travel of handbrake/footbrake levers	•	•
Check screws of brake system for tight fit	•	•
Check suspension strut and fork for leaks and proper operation	•	•
Check O-ring of suspension strut for wear		•
Clean fork dust sleeves		•
Bleed fork legs	•	•
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 joint	•	•
Check tire condition and inflation pressure	•	•
Check tire condition and inflation pressure Check chain, chain wheels, chain wheel guides for wear, tight fit, and tension Lubricate chain	•	•
	•	•
Check wheel bearings and jerk damper for play		•
IMPORTANT RECOMMENDED MAINTENANCE PROCEDURES TO BE PERFORMED BASED ON A SE	PARATE SUPPLEIVII at least	every 2 years
	once a year	or 20000 km
Perform complete fork maintenance	•	
erform complete suspension strut maintenance		•
erform complete reversing lever maintenance		•
lean and lubricate steering-head bearing and sealing elements	•	
lean and adjust the carburetor	•	
reat the electrical contacts and switches with contact spray	•	
reat battery connections with contact grease	•	
hange the brake fluid		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 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 CONDUCTED BY THE OWNER OR THE MECHANIC						
	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 fork 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 ignition/steering lock and light switch with contact spray		•				
Check all screws, nuts, and hose clamps for their tight fit				•		

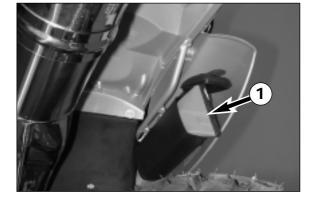
MAINTENANCE WORK ON CHASSIS AND ENGINE

WARNING

ALL SERVICING AND ADJUSTMENT PROCEDURES DESIGNATED BY AN ASTERISK * REQUIRE THE KNOWLEDGE AND SKILLS OF A PROFESSIONAL. IN THE INTEREST OF YOUR OWN SAFETY, HAVE THESE PROCEDURES CARRIED OUT AT A KTM SERVICE STATION! AT KTM YOUR MOTORCYCLE WILL RECEIVE OPTIMAL SERVICING BY SPECI-ALLY TRAINED MECHANICS.

CAUTION

- 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. If the motorcycle should fall over, fuel can leak from the carburetor or fuel tank
- Do not use toothed washers or spring washers with the engine fastening screws, as these work into the frame parts and keep working loose. Instead, use self-locking nuts.
- Let your motorcycle cool down before beginning any maintenance work in order to avoid getting burned.
- DISPOSE OF OIL, GREASE, FILTERS, FUELS, CLEANING AGENTS ETC. ACCORDING TO YOUR LOCAL REGULATIONS.
- 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 39.



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Tool set

The tool set 1 is located in the tool box under the right side cover.

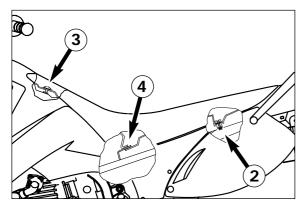
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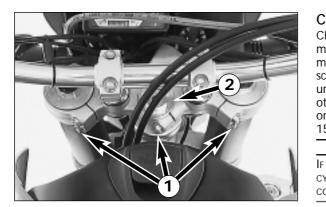


Removing the seat

Remove the collar screws 2 from the underside of the fender. Lift the rear of the seat, pull backwards, and unhook it from the oval-head screw 3.



To mount the seat hook it into the oval head screw, lower the rear part of the seat and push the whole seat forwards. If necessary push the middle of the seat slightly down to let the retaining bracket 4 engage with the seat. Finally fasten the seat with the corresponding screw.



Checking and adjusting steering head bearing *

Check steering head bearing for play periodicaly. 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 clamp screws 1 of the top triple clamp and turn steering stem bolt clockwise 2 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 rap on the triple clamp to avoid tension. Re-tighten the five clamp screws with 15 Nm (11 ft.lb).

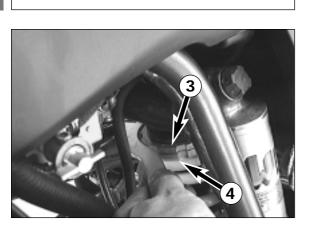
	⚠		WA	RN	IN	G			≙			
IF THE S	TEERING HE	AD BEARING	IS NOT	ADJU	STED	to be	FREE	E OF	PLAY,	THE	MOT	OR-
CYCLE V	vill show	AN UNSTE	ADY DR	IVING	PERFO	ORMAI	NCE	AND	CAN	GET	OUT	OF
CONTRO	L.											

!	CAU	TION	!	
YOU DRIVE WITH PLA	Y IN THE STEERING	HEAD BEARING	FOR LONGER PERIODS,	FIRST

THE BEARINGS AND THEN THE BEARING SEATS IN THE FRAME WILL BE DESTROYED.

IF 1

At least once a year, the steering head bearings should be greased.

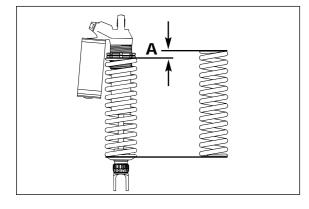


Changing the spring preload of the shock absorber

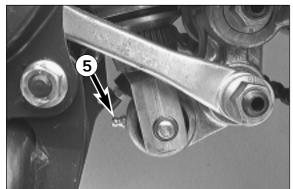
KTM sets the shock absorber for a driver only, weighing approximately 75 kg (165 lb). If you want to take a passenger with you, of if you weigh considerably more or less than 75 kg (165 lb), you should change the spring preload accordingly A. This is easily done. NOTE:

- Before changing the spring preload note down the basic setting, e.g. how many threads are visible above the adjusting ring.
- One rotation of the adjusting ring 4 changes the spring preload by approximately 1,75 mm (0,07 in).

Loosen the locking ring 3 with the hook wrench from the tool set. Change the spring preload with the adjusting ring 4 and retighten the locking ring.



BASIC SETTING – SPRING PRELOA	D
WP 0118V710A = 27mm	(400/640 LC4-E)
WP 0118V720A = 15mm	(640 LC4-E Supermoto)



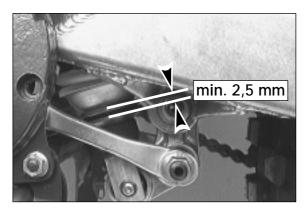
Lubricating the shock absorber linkage

The bearings in the rocker arm must be greased (Shell Advance Grease) in regular intervals. For this purpose, a grease nipple 5 is mounted on the rocker arm.

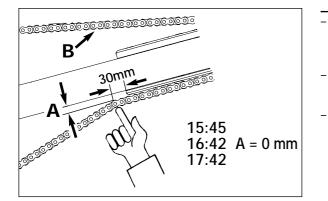
		ļ	CAUTION					İ			
AFTER	FACH	TIME	THE	MOTORCYCLE	IS	WASHED.	ΙТ	IS	ESPECIALLY	IMPORTANT	то

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

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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 quality.

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	!
	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.

Checking chain tension

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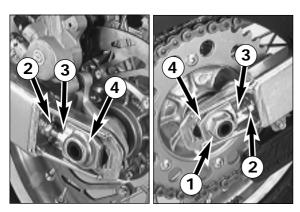
Support the motorcycle on the center stand or side stand, respectively. Switch transmission to neutral.

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 A between chain and swingarm should be 0 mm. The upper part of the chain B must be tight (see illustration). Co

orrect chain tension, if ne	ecessary!	
Δ	WARNING	♪
If chain tension is too o	GREAT, PARTS WITHIN THE	SECONDARY POWER TRANSMIS-
SION (CHAIN, CHAIN SPROC	KETS, TRANSMISSION AND	REAR WHEEL BEARINGS) WILL BE
SUBJECTED TO UNINECESSAL		

- SUBJECTED TO UNNECESSARY STRESS, RESULTING IN PREMATURE WEAR AND EVEN CHAIN BREAKAGE. Too much slack in the chain, on the other hand, can result in the chain
- JUMPING OFF THE CHAIN WHEELS. IF THIS HAPPENS, THE CHAIN COULD ALSO BLOCK THE REAR WHEEL OR DAMAGE THE ENGINE.
- IN EITHER CASE THE OPERATOR IS LIKELY TO LOSE CONTROL OF THE MOTORCYCLE.



Correct chain tension

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

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

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

⚠	WARNING	\triangle
ον'τ μαρρεν	TO HAVE A TOROUE WRENCH AT HAN	D MAKE SLIRE YOU HAVE

IF YOU DO 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

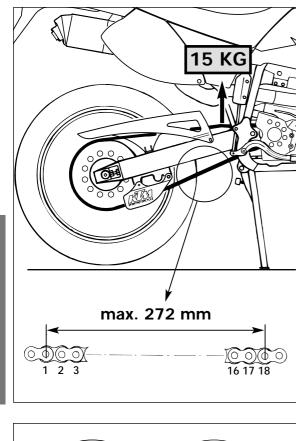
For long chain life, good maintenance is very important. O-ring chains require only modest maintenance. The best way is to use lots of water, but never use brushes or solvents. After letting the chain dry, you can use a special O-ring chain spray (Shell Advance Bio Chain).

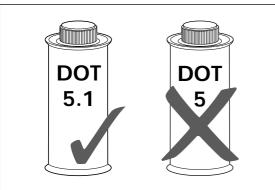
<u> </u>	WARNING	
No lubrication is allowed to	REACH THE REAR TIRE	OR THE BRAKE DISK, EITHERWISE
THE ROAD ADHERENCE AND THE	REAR WHEEL BRAKING	EFFECTS WOULD BE STRONGLY
REDUCED AND THE MOTORCYCLE	Could easily get ou	T OF CONTROL.

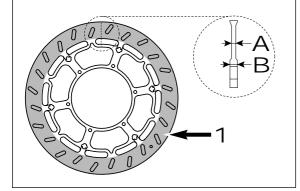
i			CA	1 Ω.	TION				İ	
	тиг	CLIAIN		тиг		CIDE	OF	тиг	CAFETY	NALICT

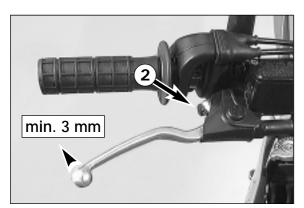
When mounting the chain joint, the closed side of the safety device must POINT IN RUNNING DIRECTION.

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









Chain wear

In order to check the chain wear, regard the following instructions: Shift the gear into idling and pull the upper chain strand with approx. 10-15 kilogramm (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 informations 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.

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 type-coded! Besides, they may cause greater wear on the brake discs.

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 A, the brake disc must not be more than 0.4mm thinner than its nominal dimension B. The nominal dimension can be gaged in a location beyond the area of contact with the brake pads. Check wear in several spots.

Δ	WARNING	♪
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

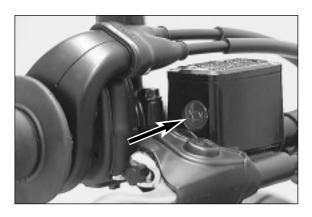
Free travel at the hand brake lever may be readjusted by using adjusting screw 2. In this way, the position of the point of pressure (i.e., the resistance you feel on the hand brake lever when the brake pads are pressed against the brake disc) can be adjusted for any hand size.

! CAUTION	!
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 R	ECOGNIZED BY THE GREA-
TER RESISTANCE OF THE HAND BRAKE LEVER). IF THIS FREE THE	RAVEL IS NOT PROVIDED,
PRESSURE WILL BUILD UP IN THE BRAKING SYSTEM, AND THE F	RONT WHEEL BRAKE MAY
FAIL DUE TO OVERHEATING.	

GLISH 20

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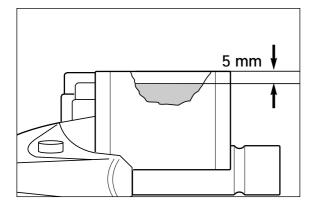


Checking of brake fluid level - front brake

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 go below middle of the glass.

⚠	WARNING	⚠

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.



Refilling the front brake fluid reservoir*

Loosen screws 1 and remove lid 2 and membrane 3.

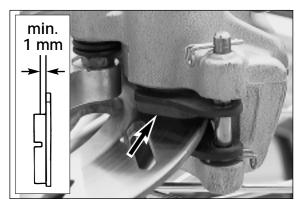
If necessary, dismount the mirror and loosen the throttle grip. Place hand brake cylinder in a horizontal position and fill the brake fluid reservoir to 5 mm (0,2 in) below the rim with brake fluid DOT 5.1 (Shell Advance Brake DOT 5.1). Replace membrane and lid, tighten screws. Rinse off spilled or overflowing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

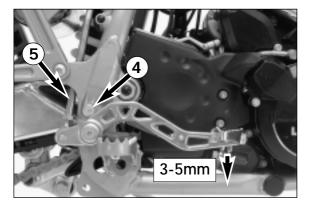
Δ	WARNING	⚠
Never use DOT5	BRAKE FLUID! IT IS BASED ON SILIC	ONE OIL AND OF A PURPLE

- COLOR. SEALS AND BRAKE HOSES MUST BE ESPECIALLY ADAPTED TO IT.
- STORE BRAKE FLUID OUT OF REACH OF CHILDREN.
- BRAKE FLUID CAN CAUSE SKIN IRRITATION. AVOID CONTACT WITH SKIN AND EYES. IF YOU GET BRAKE FLUID IN YOUR EYES, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR.

!	CAUTION

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





Checking the front brake pads

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

(2)2)		
\land	WARNING	♪
AT THEIR MOST WORN P	OINT BRAKE PAD LININGS SHOUL	D NOT BE THINNER THAN
1 mm, otherwise they	COULD LEAD TO BRAKE FAILURE.	For your own safety
DON'T PUT OFF HAVING YO	OUR BRAKE PADS CHANGED.	
!	CAUTION	!

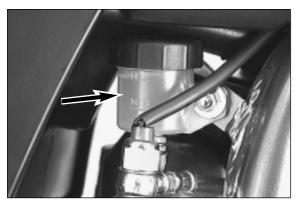
IF THE BRAKE PADS ARE REPLACED TOO LATE SO THAT THE LINING IS PARTLY OR ENTIRELY WORN AWAY, THE STEEL COMPONENTS OF THE BRAKE PAD WILL RUB AGAINST THE BRAKE DISC, IMPAIRING THE BRAKING EFFECT AND DESTROYING THE BRAKE DISC.

Changing the basic position of the foot brake pedal*

The basic position of the foot brake pedal can be altered by turning the stop roller 4. The free play at the foot brake pedal must then be adjusted by means of the piston rod 5.

Measured on the outside, the foot brake pedal must have 3-5 mm (0,12–0,20 in) of free play, before the piston rod can move the piston in the brake cylinder (to be recognised from the resistance on the foot brake pedal).

CAUTION IF THIS FREE PLAY IS NOT PRESENT, THEN PRESSURE CAN BUILD UP IN THE BRAKE SYSTEM WHEN DRIVING, CAUSING CONSTANT FRICTION OF THE BRAKE PADS. THE BRAKING SYSTEM OVERHEATS AND CAN FAIL COMPLETELY IN EXTREME CASES.

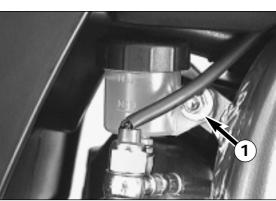


Checking rear brake fluid level

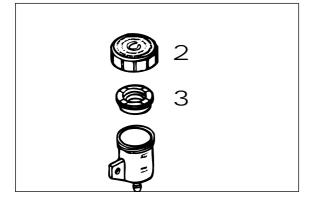
The reservoir for the rear disc brake is located on the left-hand side of the vehicle next to the carburetor carburetor connection boot. The brake fluid level may not drop below the "MIN" marking when the vehicle is in an upright position.

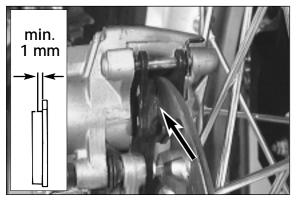
\triangle	WARNING	
HE BRAKE FLUID LEVEL	DROPS BELOW THE MINIMUM FI	THER THE BRAKE SYSTEM HAS A

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.









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 1. Then move the container outwards as indicated in the illustration. Remove plug 2 with rubber boot 3 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.

	٨	\٨/Δ	RNING		٨		-
							_
-	Never use DOT5	brake fluid! It	IS BASED ON	SILICONE OIL	AND C	of a purpi	E
	color. Seals and	BRAKE HOSES MUS	T BE ESPECIAL	LY ADAPTED TO	O IT.		
	<u>^</u>						

- 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

!	!		

- 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).

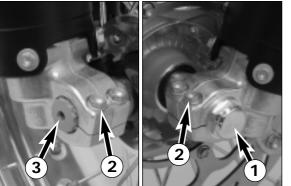
♪	WARNING	≙
AT THEIR MOST WOR	RN POINT BRAKE PAD LININGS SHOU	JLD NOT BE THINNER THAN
1 MM, OTHERWISE T	HEY COULD LEAD TO BRAKE FAILUR	e. For your own safety

 1 MM, OTHERWISE THEY COULD LEAD TO BRAKE FAILURE. FOR YOUR OWN SAFETY DON'T PUT OFF HAVING YOUR BRAKE PADS CHANGED.

 Image: state of the

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

ENGLISH 23



Dismounting and mounting the front wheel (400/640 LC4-E)

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 2 on the left fork leg. Then loosen the collar nuts 1 before loosening the clamp screws 2 on the right fork leg. Hold the front wheel and withdraw the wheel spindle 3.

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

Remove front wheel carefully from the fork and take the speedometer drive 4 off the hub.

!	CAUTION	!
Do not operate the hand	BRAKE WHEN THE FRONT V	WHEEL HAS BEEN DISMOUNTED.
DO NOT OPERATE THE HANE		vheel has been dismount

ALWAYS PLACE THE WHEEL ON THE GROUND WITH THE BRAKE DISC POINTING UPWARDS. OTHERWISE THE BRAKE DISC MAY BE DAMAGED.

Prior to mounting the front wheel, clean and grease sealing ring 5 and running surface 6 at the speedometer drive.

To mount the front wheel, lift it into the fork. Insert speedometer drive into the hub. Make sure that the driving tabs 7 engage with the slots of the drive.

Position front wheel and speedometer drive, and mount wheel spindle.

The speedometer shaft must be placed as running along the outsideof the fork guard and pass the triple clamp in front between fender and fork leg. Screw on the collar nuts 1 without tightening them. Make sure that the speedometer drive runs upwards and parallel to the fork leg (see below). Tighten the clamp screws 2 on the right fork leg so as to prevent the wheel spindle from twisting, and then tighten the collar nuts with 40 Nm. 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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	≙			W	Α	RNI	١G			⚠		
If you	DON'T	HAPPEN	то	HAVE	А	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.

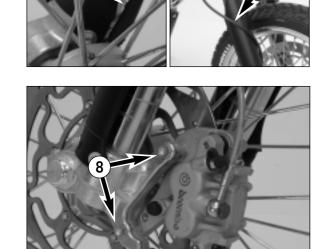
Dismounting and mounting the front wheel (Supermoto)

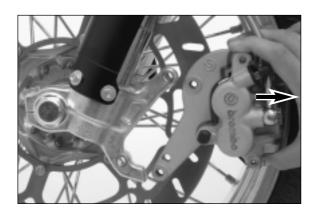
The front wheel of the Supermoto is essentially removed in the same manner as the front wheel of the LC4-E. However, the brake caliper has first to be removed. To remove the front brake caliper, remove both screws 8 and pull the caliper backwards from the brake disc.

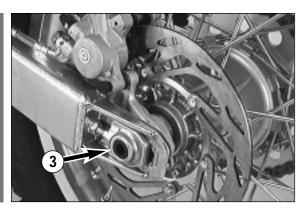
After mounting the front wheel, slide the brake caliper to the brake disc. Remove the grease from the threads of both screws 8 and apply Loctite 243. Tighten the screws with 25 Nm(19 ft. lbs).

Δ	WARNING	♪	_
HE SCREWS 8 MUST	BE SECURED WITH LOCTITE 243		











Dismounting and mounting the rear wheel*

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

Loosen the collar nut 1, remove chain tensioner 2, hold the rear wheel and pull out the wheel spindle 3 until the rear wheel is free but the brake caliper support is still held. Push the rear wheel as far forward as possible, take the chain from the rear sprocket and carefully take the rear wheel out of the swingarm.

CAUTION !

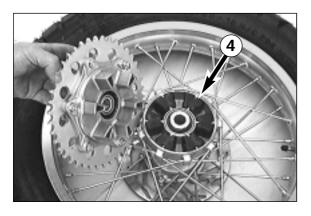
- DO NOT OPERATE THE REAR BRAKE WHEN THE REAR WHEEL HAS BEEN DISMOUNTED.
- Always place the wheel on the ground with the brake disc pointing upwards. Otherwise the brake disc may be damaged.
- IF THE AXLE IS DISMOUNTED, CLEAN THE THREAD OF THE WHEEL SPINDLE AND COLLAR NUT THOROUGHLY AND APPLY A NEW COAT 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.

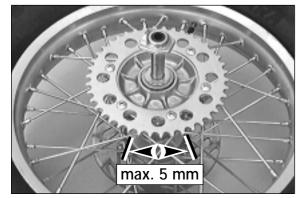
♪	WARNING	\land	
	HAPPEN TO HAVE A TOROUE WRENC		

- 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 WHEEL SPINDLE MAY LEAD TO AN UNSTABLE DRIVING BEHAVIOR OF YOUR MOTORCYCLE.
- 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.



Checking the shock absorption rubbers in the rear hub*

LC4-E models have a damped rear wheel hub. For this purpose, the engine power is conveyed from the rear sprocket via 6 shock absorption rubbers 4 to the rear wheel. These 6 absorption rubbers wear with increasing operation time, and should be checked for wear whenever the rear wheel is dismounted.



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.

ļ	CAUTION	ļ

If the shock absorption rubbers are not replaced in good time, the rear sprocket carrier and the rear hub will be damaged. Allways replace all 6 absorption rubbers, never single rubbers.



TIRES - AIR PRESSURE		
400/640 LC4-E	front	rear
Road, driver only	1,8 bar (26psi)	2,0 bar (29psi)
Road, with passenger	2,0 bar (29 psi)	2,2 bar (31psi)
640 Supermoto	front	rear
Road, driver only	2,0 bar (29psi)	2,2 bar (31psi)
Road, with passenger	2,2 bar (31psi)	2,4 bar (34psi)

Tires, air pressure

A

Tire type, tire condition, and how much air pressure the tires have in them affect the way your motorcycle rides, and they must therefore be checked whenever you're getting ready to go anywhere on your motorcycle.

WARNING	

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In order to ensure riding safety and optimal riding performance, only KTMapproved tires may be used. Other tires can have a negative effect on riding performance (e.g. vibration at higher speeds).

Approved tires for 400/640 LC4-E (as of September 2000)
METZELER Enduro 3, Enduro 4
MICHELIN
PIRELLIMT60, MT70, MT90

- Tire type and size can be found in the technical specifications and in the homologation certificate
- Tire condition has to be checked every time you want to ride your motorcycle. Before leaving check for punctures and nails or other sharp objects that might have become embedded in the tire.
- Refer to the specific regulations in your country for minimum tire tread requirements. We recommend replacing 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.

∆ WARNING

- Do not mount tires which have not been approved by KTM. Other tires could have adverse effects on the way your motorcycle rides.
- Use tires of the same brand and type for the front and rear wheels.
- 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



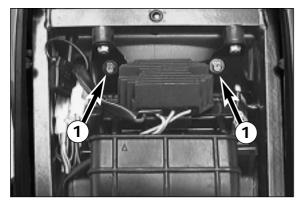
Checking spoke tension

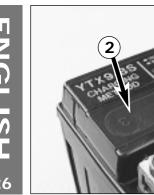
⚠

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 screw driver (see illustration). A clear tone must be the result. Dull tones indicate loose spokes. If necessary, have the spokes retightened and the wheel centered by a KTM dealer.

2	WARNING	\triangle

Spokes can tear if you continue to ride with them loose. This may lead to an unstable handling of your motorcycle.





Battery

The battery is mounted under the seat (remove the seat, see page 16) The battery has a closed system and therefore requires no maintenance. It is not necessary to check the electrolyte level or to refill water. Simply keep the battery poles clean and slightly grease them with an acid-free grease if necessary.

Removing the battery:

First disconnect the negative and then the positive pole of the battery. Remove screws 1 and swing retaining bracket and voltage regulator out of the way.

Remove battery.

When replacing, connect first the positive and then the negative pole.

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	<i>,</i> ,			

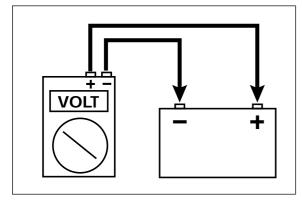
- IF ELECTROLYTE (SULPHURIC ACID) LEAKS FROM THE BATTERY, PROCEED WITH GREAT CARE. THE ELECTROLYTE CAN CAUSE SEVERE BURNS.
 - In the case of skin contact rinse thoroughly with water.
- In the case of contact with the eyes, thoroughly rinse eyes with water for at least 15 minutes. Immediately consult a doctor!
- The battery is a closed model but can nevertheless emit explosive gases. Avoid sparks and open fire near the battery.
- Defect batteries must be stored out of the reach of children. Ensure proper disposal of discarded batteries.

i	CAUTION	i
TO AVOID DAMAGE	DO NOT REMOVE THE LOCKING BAR $2!$	

- NEVER DISCONNECT THE BATTERY WHILE THE ENGINE IS RUNNING. THIS WILL DESTROY THE RECTIFIER-REGULATOR.

BATTERY STORAGE:

When preparing the motorcycle for a longer period of standstill, remove the battery and recharge it. Storage temperature: $0 - 35^{\circ}C$ ($30 - 95^{\circ}F$). Do not expose to direct sun radiation.





Charging the battery

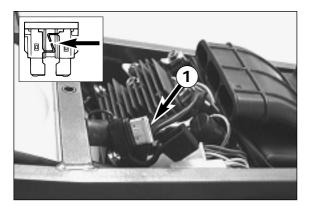
Remove the battery and check the charging level. Use a voltmeter to measure the voltage between the battery poles (off-load voltage).

off load voltage	charging level	charging time	charging voltage
Volt	%	0,8 A	
>12,7	100		
~12,5	75	4 h	2 0 1/
~12,2	50	7 h	max.
~12,0	25	11 h	14,4 V
~11,8	0	14 h	

Accurate results can only be obtained if the battery has neither been charged nor discharged during a period of 30 minutes preceding the measuring.

If the battery is empty, it can be recharged for a maximum period of 10 hours at 0.8 A and a maximum of 14.4 V.

- ! CAUTION !
- TO AVOID DAMAGE, DO NOT REMOVE THE LOCKING BAR
- Always connect the battery to the charging unit before turning the charging unit on.
- When recharging the battery in closed rooms ensure sufficient ventilation. Explosive gases are released during the battery charging process.
 - Charging time and charging voltage should not exceed the stated values. Otherwise electrolyte will be released through the safety values.
- AVOID QUICK CHARGING IF POSSIBLE.



Main fuse

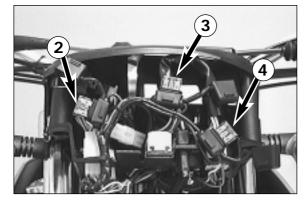
Located near the battery under the seat, the main fuse 1 protects all power consumers.

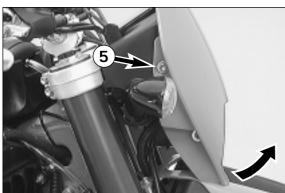
Replace a blown fuse only with an equivalent one. If a new fuse that has just been set in gets blown again, you are strongly advised to have it inspected by a KTM dealer.

The fuse capacity is 20 Ampere.

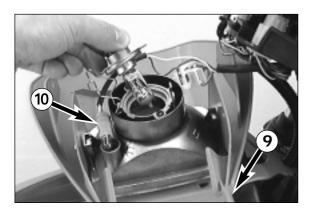
ELECTRICAL INSTALLATION!

!	CAUTION	!
Under no circumstances	IS A STRONGER FUSE ALLOWED	TO BE SET IN OR A FUSE
ALLOWED TO BE "REPAIRED"	". An inexpert treatment co	uld damage the whole









Fuses for individual power-consuming units

Additional fuses separately protecting different power-consuming units are mounted under the headlight mask.

For instructions to remove and mount the headlight mask please refer to "Exchanging the headlight lamp".

Fuse 2 (10 Ampere) protects the following power-consuming units: - headlight

parking light

Fuse 3 (10 Ampere) protects the following power-consuming units:

- flasher lights
- brake light
- horn
- radiator fan motor

L.

Fuse 4 (10 Ampere) protects the following power-consuming units:

- ignition
- starter system

Replace a blown fuse only with an equivalent one. If a new fuse that has just been set in gets blown again, you are strongly advised to have it inspected by a KTM dealer.

CAUTION	i

Under no circumstances is a stronger fuse allowed to be set in or a fuse allowed to be "repaired". An inexpert treatment could damage the whole electrical installation!

Exchanging the headlight lamp

Remove the headlight mask:

Remove screws 5 on the left and on the right side.

Depress the front section of the fender, pull the headlight mask upwards, unhook it from the lower part of the fender, then swing it forwards.

Exchanging the headlight lamp

Disconnect plug 6 from the bulb.

Remove the rubber cap 7 Unhook the retaining bracket, then remove the bulb.

When inserting the new bulb make sure that the wider of the 3 tongues 8 is located in the corresponding groove in the socket.

		_
i	CAUTION !	-

Never touch the glass of the bulb with your fingers. The glass of the bulb must remain absolutely free from grease. Heat will otherwise cause the grease to evaporate and settle down on the reflector.

Hook in the retaining bracket, mount the rubber cap and connect the plug to the bulb.

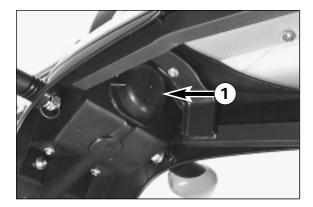
Mounting the headlight mask

Appropriately position the headlight mask. The headlight must be located below the cockpit.

Depress the front part of the fender, pull the headlight mask upwards and insert the retaining pins 9 into the corresponding bores of the fender. Mount the screws 5.

Replacing the parking-light bulb

Disassemble the headlight as described above and simply pull the bulb socket bk out of the reflector.



Exchanging the brake light and tail light bulb

Remove the cap 1 on the underside of the license plate retainer.

Turn the lamp socket 2 approximately 30° counterclockwise and pull it out of the tail light housing.

Slightly depress the bulb, turn it approx. 30° counterclockwise and pull it out of the socket.

To mount the lamp reverse the worksteps indicated above.

Cooling system

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

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

If little or no air blows through the radiators, for example when riding through slow traffic or waiting at traffic lights, the coolant temperature will rise. If the coolant temperature rises to 85° C (185° F), the fan 3 on the left radiator will switch on. This fan will provide additional air circulation through the radiator thereby preventing the cooling system from overheating.

i	CAUTION	!

The red cooling liquid temperature warning light 4 will begin to light up, if the cooling liquid temperature reaches approx. $105^{\circ}C$ (223°F) and henceforth has exceeded its normal operating temperature.

Possible causes:

- Slow riding with large loads at a higher air temperature:
 If possible increase your running speed, so that more air can blow through the radiators. Should the warning light still be on off after 300 meters, stop immediately, switch off the engine and look for other possible causes.
- Too little cooling liquid in the system:

Let the engine cool down, and check the system for leakage's. Also examine the cooling liquid level CAUTION SCALDING HAZARD! Do not drive on, until there is sufficient liquid in the cooling system. Go to your nearest KTM garage and get it seen to. If you drive with the cooling liquid temperature warning light on, you will cause even more damages to the engine.

- The cooling fan on the left cooler is not working:
- The cooling fan must be running, when the cooling liquid temperature is $105^{\circ}C$ (223°F) and the ignition is on. If the fan is not working, and there appears to be sufficient cooling liquid, the only thing you can do is to drive on to your nearest KTM garage at the least possible engine load.
- Excessive use of the clutch at slow speed

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WARNING	♪

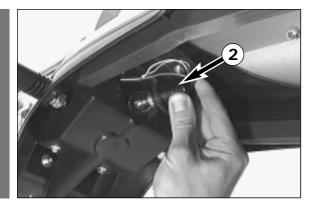
IF POSSIBLE, ALWAYS CHECK LEVEL OF COOLING LIQUID WHEN ENGINE IS COLD. IF YOU HAVE TO OPEN THE RADIATOR CAP WHEN ENGINE IS HOT, USE A RAG TO COVER THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE.

A mixture of 40% antifreezer and 60% water is used as cooling liquid. How-ever, the anti-freeze protection must be at least -25° C (-13° F). Aside from antifreezing protection, this mixture also provides great corrosion protection which is why it must not be replaced by pure water.

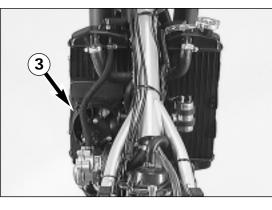
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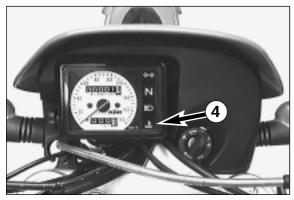
For the cooling system, use only high-grade antifreezer (Shell Advance Coolant). Using lowergrade antifreeze agents, can cause corrosion and coolant foaming.

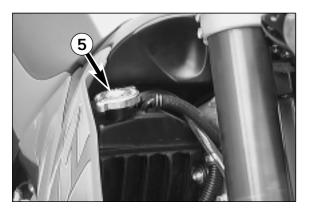
Pressure induced by heating of the cooling liquid in the cooling system is controlled by a valve in the radiator cap 5; a water temperature rising up to 120° C (248° F) is admissible, without fear of problems.

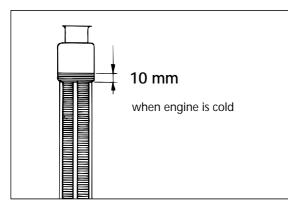


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Checking the cooling liquid level

The cooling liquid should be 10 mm (0,4 in) above the cooling elements when the engine is cold (cf. diagram). In the event of the cooling liquid being drained, always fill the system before hand, then top off while the engine is running.

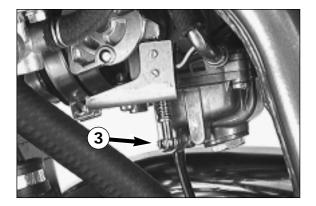
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RIF	AL \A/A VS				ENGINE IS	

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

Adjust idling speed (Dell'Orto)*

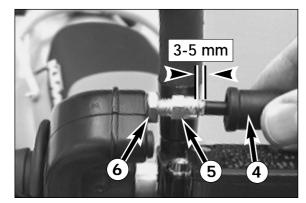
The throttle stop screw 1 is used to adjust the basic position of the slide. Turning in clockwise direction will increase the idling speed, turning in counterclockwise direction will reduce the idling speed. Normal idling speed 1400 - 1500 rpm.

The mixture control screw 2 never should be changed.



Adjust idling speed (Mikuni)*

Use the adjusting screw 3 to adjust the basic position of the throttle valve and, thus, the idle speed.Turning in clockwise direction will increase the idling speed, turning in counterclockwise direction will reduce the idling speed. Normal idling speed 1400 - 1500 rpm.

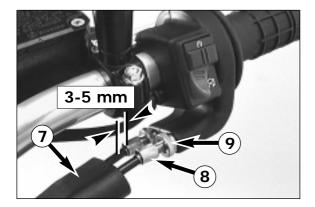


Adjusting the throttle cable (Dell' Orto carburetor)*

There must always be a 3-5 mm (0.1-0.2 in) play in the throttle cable. To check this, move back the protective cover 4 on the throttle grip. You must be able to lift the outer covering of the cable 3-5 mm from the adjusting screw 5, until resistance is felt.

To adjust, loosen the counter nut 6 and turn the adjusting screw accordingly. Finally tighten counter nut and slide the protective cover back on.

To check the correctness of this setting, start the engine, turn the handlebar left and right, in both cases as far as it will go. This must not cause any changes in idling speed. Otherwise, you have to increase the backlash of the throttle cable.



Adjusting the throttle cable (Mikuni carburetor)*

The throttle cables must at all times maintain a slack of 3-5 mm. To test this, slide the protection cover 7 on the throttle grip backwards. You should now be able to raise one of the cables so that its exterior covering is 3-5 mm from the adjustment screw 8 before resistance becomes noticeable. Should a correction be necessary, this can be carried out at both adjusting screws.

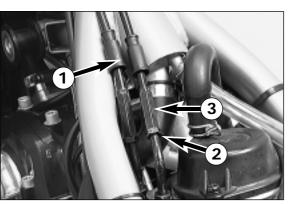
To make the adjustment, loosen the counter screws 9 and turn the adjusting screws 8 correspondingly. Afterwards tighten the counter nuts and slide on the protection cover.



Adjusting the throttle cable (Mikuni carburetor)*

When starting to turn the throttle grip, you should feel an initial backlash of 3-5 mm.

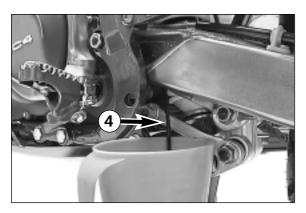
For models outfitted with the throttle twist grip depicted in the illustration, the throttle cables have to be adjusted at the carburetor.



If a correction is necessary, start by removing the tank. Slide back the protection cover 1. To set the backlash, loosen the counter nut 2 and turn the adjusting screw 3 accordingly. Then, fasten the counter nut and slide the protection cover back on.

Make sure that the throttle grip will return to the idle position automatically once you let go of it.

To check the correctness of this setting, start the engine, turn the handlebar left and right, in both cases as far as it will go. This must not cause any changes in idling speed. Otherwise, you have to increase the backlash of the throttle cable.



Draining the carburetor float chamber (Mikuni)*

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 engine malfunction. Carry out this job with the engine being cold.

Close the fuel tap.

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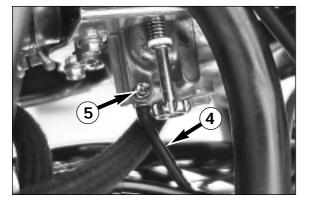
Put one end of the hose 4 that leads downward behind the engine into a collecting vessel.

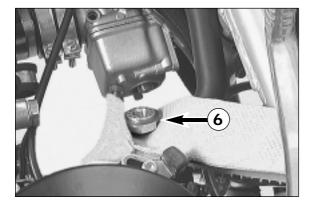
Open the drain plug 5 (turning it counterclockwise) by several turns, and drain the fuel from the float chamber. The

en, retighten the drain plug and open the fuel tap.	
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⚠	WARNIN	G
	AMMARIE AND TOXIC REEXT	

Fuel is highly flammabl FUEL. NEVER PERFORM ANY WORK ON THE FUEL SYSTEM NEAR OPEN FIRE OR BURNING CIGARETTES. ALWAYS ALLOW THE ENGINE TO COOL DOWN FIRST. WIPE UP ANY SPILT FUEL IMMEDIATELY. MATERIALS SATURATED WITH FUEL ARE HIGHLY FLAMMABLE, AS WELL. IF YOU HAVE ACCIDENTALLY SWALLOWED FUEL OR IF IT HAS GOTTEN INTO YOUR EYES, GO SEE A PHYSICIAN IMMEDIATELY.





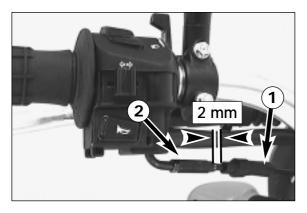
Draining the carburetor float chamber (Dell'Orto) *

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 engine 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 6, and clean it with compressed air. Then, mount the plug together with its gasket, open the fuel tap, and check the float chamber for any leaks.

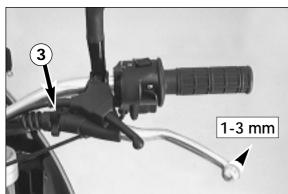
WARNING ≙ Fuel is highly flammable and toxic. Be extremely cautious when handling

FUEL. NEVER PERFORM ANY WORK ON THE FUEL SYSTEM NEAR OPEN FIRE OR BURNING CIGARETTES. ALWAYS ALLOW THE ENGINE TO COOL DOWN FIRST. WIPE UP ANY SPILT fuel immediately. Materials saturated with fuel are highly flammable, as WELL. IF YOU HAVE ACCIDENTALLY SWALLOWED FUEL OR IF IT HAS GOTTEN INTO YOUR EYES, GO SEE A PHYSICIAN IMMEDIATELY.



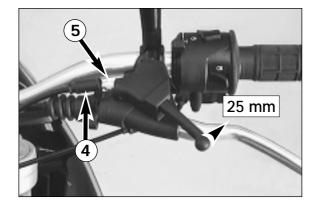
Adjusting the choke cable*

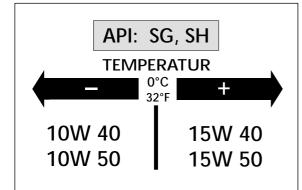
At the choke cable, there must always exist a play of approx. 2 mm (0.1 in). To check this, push choke lever fully forward and pull protective cover 1 from the adjuster piece 2. Now, it must be possible to lift the outer covering of the cable by approx. 2 mm from the adjuster piece until feeling a resistance. If necessary, loosen counter nut and readjust play by turning the adjuster piece. Tighten counter nut, and slide on protective cover.



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 adjusting nut 3 accordingly.







Checking the adjustment of the hand decompression cable* To check, set piston at compression, so that the valves are closed. While doing this, slowly operate the kickstarter through its stroke until the clicking sound (disengaging) of the automatic decompression can be heard. Now the decompression 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 4, loosen the counter nut and correct the adjusting screw 5 accordingly. Tighten counter nut and push back protective cover.

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		İ				CAUTION				ļ.		
RF	IS N		ΡΙΔΥ	IN	THE	DECOMPRESSION LEVE	R	тнія	CAN	RESULT	IN	ENGINE

If there is no play in the decompression lever, this can result in engin damage.

NOTE:

No adjustment need be made to the automatic decompressor.

Engine oil

Only use fully synthetic branded oils (Shell Advance Ultra 4) meeting or surpassing the quality requirements of API classes SG or SH (see specifications on the container).

!	CAUTION	!

Insufficient oil or poor quality oil results in premature wear of the engine.

Checking engine oil level

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.

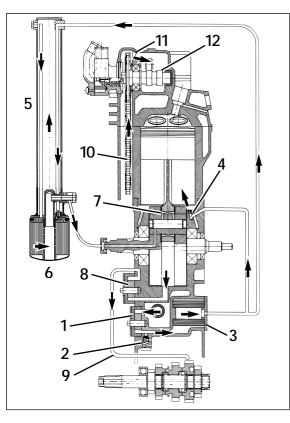
SCREW THE DIPSTICK IN ALL THE WAY AND REMOVE IT AGAIN.

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.

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

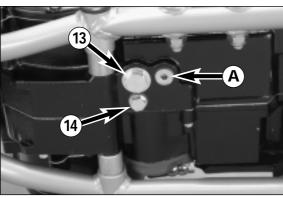
- Checking the engine oil level when the engine is cold results in a false reading on the oil dipstick and therefore an incorrect oil level.
- DO NOT OVERFILL THE ENGINE CASE.
- DO NOT UNDERFILL THE ENGINE CASE.

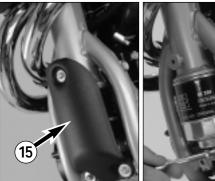
Finally, check oil system and engine for leaks.

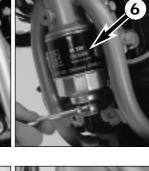


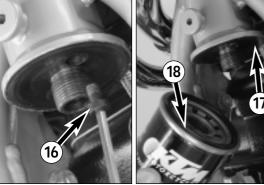
Oil circuit

The oil pump 1 pumps the motor oil past the bypass valve 2 and through the oil filter 3. Beyond the oil filter, one of the oil lines forks off to a jet 4 that injects motor oil to the piston pin bearing and the piston head. The second oil line leads the main oil flow to the frame breast pipe 5 where the motor oil is cooled off. Then the motor oil flows through the fine screen filter 6 that removes even the finest of contaminants from the motor oil. The cleansed motor oil is pumped via an oil line and the clutch cover into the crankshaft to the conrod bearing 7 and drains from there into the crank case. A additional oil pump 8 suctions the motor oil out of the crank case and pumps it through the oil canal 9 to the gear wheels of the 4th and 5th gears. The motor oil reaches the oil sump via the gear wheels. The timing chain bk also dips into the oil sump and propels motor oil upwards to the cylinder head. The motor oil reaches the carnshaft bm and the valves through the bore bl.









Oil and screen filter change, bleeding of the oil system *

Note: The frame breast pipe is integrated into the oil circuit for the sake of more effectively cooling the motor oil. It is thus important when changing the oil to also remove the fine screen filter, to drain the motor oil from the breast pipe and to de-aerate the oil system.

If the oil system is not bled at all or bled insufficiently, the bearings of the engine will not get enough lubrication, which in turn may result in engine failure.

Therefore, we recommend that you have the engine oil changed by your authorized KTM mechanic. During the guaranty period, the oil change must be performed by an authorized KTM mechanic. Otherwise, the guarantee will become void.

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

WARNING

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An engine having been run warm, and the engine oil in it is very hot - do not burn yourself.

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Place the motorcycle on a horizontal surface. Remove the two plugs bn and bo, and drain oil into a container.

!	CAUTION	i
Plug A must not be removed	, THIS IS PART OF THE BY-PASS VALVE.	

Remove the screws and the cover bp. Loosen the fine screen filter 6 with an oil filter wrench and then screw it off by hand.

The screw bq must be removed to allow the motor oil to flow out of the frame breast pipe.

Clean the plugs thoroughly with petroleum and compressed air in order to remove any metal filings. After the oil has drained completely, clean the sealing areas and remount the plugs together with their gaskets. Tighten plug bn with 30 Nm and plug bo with 20 Nm. Tighten the screw bq with 10 Nm. Clean sealing surfaces on the frame breast pipe br, fill new fine screen filter with engine oil, and oil rubber gasket bs. Replace fine screen filter and screw it back in place, your bare hand will do.

Remove oil dipstick on the clutch cover, fill with 1,3 litre engine oil and attach plug again.

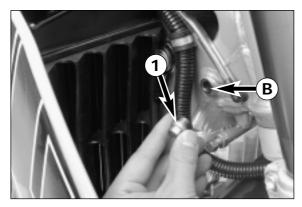
	i.		0	CAU	ΤΙΟΓ	L		ļ		
ONLY	ORIGINAL	KTM	FINE	SCREEN	FILTERS.	Using	ANOTHER	FILTER	BRAND	CAN

- Use only original KTM fine screen filters. Using another filter brand can result in damage to the engine.
 If the engine oil has been drained from the front pipe of the frame. You
- IF THE ENGINE OIL HAS BEEN DRAINED FROM THE FRONT PIPE OF THE FRAME, YOU MUST BLEED THE OIL SYSTEM !



To facilitate bleeding of the oil system, we have added a hose connection piece and a plastic hose to the set of tools. Take an empty oil can (1 liter) and drill a 7 mm-diameter hole into the lid. Screw the hose connection piece into the lid from the outside, and secure it from the inside with the M8 hexagon nut.

Slip the plastic hose onto the hose connection piece, and you will have your filling tool.





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Fill 0.6 liters of engine oil into the can and remove the plug 1 next to the steering head. Introduce the plastic hose into the vent hole B, (see page 30) and fill 0.6 liters of engine oil into the frame's front tube. Remove plastic hose, start engine, and let it idle (approx. 20 seconds) until oil escapes at the hole B. As soon as oil starts to escape, turn off the engine, and mount the plug together with the gasket.

Let the motor run until it warms. Check the oil drain plugs and the fine screen filter to make sure they are properly sealed. Check the level of the motor oil. Place the motorcycle on a horizontal surface (main stand) and wait for 5 minutes. Remove the dip stick and wipe it with a piece of cloth SCREW THE DIPSTICK IN ALL THE WAY AND REMOVE IT AGAIN.

The oil level should be between the two marks on the oil 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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İ	CAUTION	İ
Insufficient oil or poor q	UALITY OIL RESULTS IN PREMATU	ire wear of the engine.

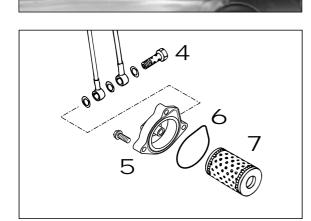
- CHECKING THE ENGINE OIL LEVEL WHEN THE ENGINE IS COLD RESULTS IN A FALSE REA-DING ON THE OIL DIPSTICK AND THEREFORE AN INCORRECT OIL LEVEL.
- Do not overfill the engine case.
- DO NOT UNDERFILL THE ENGINE CASE.

Afterwards check the entire oil system and motor to make sure they are properly sealed. Attach the covering of the fine screen filter to the frame breast pipe.

Note: Dispose of used oil properly! Under no circumstances may used oil be disposed of in the sewage system or in the open countryside. 1 liter oil contaminates 1.000.000 liter water

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 4 and the three screws. Remove oil filter cover 5 and oil filter. Clean filter housing, oil filter cover, and sealing surfaces. Check oil duct in oil filter cover if clogged.



Check the O-ring 6 for damage. O-rings need not be replaced unless damaged. Press the O-ring into the groove of the filter cover. Fit new oil filter 7 with rubber gasket on the fitting in oil filter cover and mount cover with filter. Mount three screws and tighten with 5 Nm (4 ft.lb). Mount hollow screw with seal rings and tighten with 15 Nm (11 ft.lb). Start engine and check 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 doesn't crank.	Operating errror	Turn on the ignition, switch the gear to neutral and switch the emergency OFF switch on.
	Discharged battery.	Recharge the battery and investigate the causes for dischar- ging; contact a KTM dealer.
	Defect ignition lock or emergency OFF switch	Check ignition lock and emergency OFF switch, contact a KTM dealer.
The engine doesn't crank. The neutral indicator lamp	Blown fuse safe-starting system.	Replace fuse (below the headlight mask).
doesn't light up.	Blown main fuse.	Remove seat and replace the main fuse. If fuse blows again contact a KTM dealer.
The engine cranks only with pulled clutch lever	Defect safe-starting system.	Contact a KTM dealer.
Engine cranks with gear engaged.	Defect safe-starting system.	Contact a KTM dealer.
Engine cranks but doesn't start.	Operating error	Open fuel tap, tank fuel, you did not use choke i.e. the warm- start device. 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	Loosen fuel hose at carburettor, lead into a basin and open fuel tap – if fuel leaks out, the carburetor might need cleaning – if no fuel leaks out, check tank ventilation, i.e. clean fuel tap
	Flooded engine	Fully open the throttle when starting or exchange the spark plug, respectively
	Sooty or wet spark plug	Clean and dry the spark plug or exchange it, respectively
	Electrode gap too large	Adjust spark plug elektrode gap to 0,7 mm
	Spark plug connector or spark plug faulty	 Dismount spark plug, connect ignition cable, hold to ground (blank place on engine) and actuate starter, a strong spark must be produced at the spark plug If no spark is created exchange the spark plug. If the new spark plug doesn't produce a spark either, disconnect the spark plug connector from the ignition cable, hold it a distance of approx. 5 mm from ground and start. If a spark now occurs, replace spark plug cap If no spark is produced, control ignition system
	The plug connection of the CDI- unit, the pulse generator or the ignition coil has oxydized	Remove the seat, the right side cover and the fuel tank. Clean the plug connection and treat it with contact spray
	Water in carburetor or jets blocked	Dismount and clean carburetor
	Claped out side stand	Clap up side stand
	Faulty side stand switch	Renew side stand switch

TROUBLE	CAUSE	REMEDY
Engine fails to idle	Glogged idling jet	Disassemble carburetor and clean jets
	Oncorrect adjustment of adjusting screws on carburetor	Have carburetor adjusted
	Defective spark plug	Replace spark plug
	Defective ignition system	Have ignition system checked
Engine does not rev high	Carburetor fuel level too high because	Dismount carburetor and check if worn out
	Float needle is dirty or worn out	Replace float needle
	Float leaks	Replace float
	The cold starting system is perma- nently activated due to a lack of play in the choke cable.	Adjust choke cable.
	Defective membrane of slide (Mikuni carburetor)	Replace membrane
	Carburetor leaking (Mikuni carburetor)	Check vacuum hose and venting hose of carburetor for correct position (no kinks)
	Loose carburettor jets	Tighten jets
	Electronic 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 leaks	Replace the float
	Defective membrane of slide (Mikuni carburetor)	Replace membrane
	Carburetor leaking (Mikuni carburetor)	Check vacuum hose and venting hose of carburetor for correct position (no kinks)
	Air filter very dirty	Clean or replace air filter, contact a KTM dealer
	Valve clearance to small	Have valve clearance adjusted
	Loss of compression because hand decompressor has no play	Check setting of the hand decompression cable
Engine overheats	Electronic ignition timing faulty	Have ignition system checked
	Insufficient cooling liquid	Refill cooling liquid (see maintenace work), check cooling system for leaks
	Radiator fins are extremely dirty	Clean radiator with water jet
	Foam forms in cooling system	Replace cooling liquid, use antifreezer with brand name
	Bent radiator hose	Shorten or replace cooling hose
	Thermostat defective	Remove and check thermostat (opening temperature 70°C (158°F) or replace it, contact a KTM dealer
	Blown fan fuse	Replace fuse and check if fan operates properly (see below)
	Defect thermoswitch	Contact a KTM dealer
	Fan defective	Check if fan operates properly. To do this, start the engine, then bypass the connections to the thermoswitch (bottom right radiator), contact a KTM dealer

TROUBLE High oil consumption	CAUSE Buckling gear ventilation hose	REMEDY Readjust or replace ventilation hose
High oil consumption	Buckling gear ventilation hose	Poadiust or roplace ventilation bese
	1	Readjust of replace ventilation hose
	Engine oil level too high	Check engine oil level when the engine is warm; correct if necessary
	Engine oil too thin (viscosity)	Use thicker engine oil; see chapter "Engine oil"
	Voltore regulator faultu	Demove and shark connections. Have values a service
All switched on lamps blown out	Voltage regulator faulty	Remove seat and check connections. Have voltage regulator checked
Headlight and parking light fail	Blown fuse	Replace fuse (below the headlight mask).
Flasher lights, brake light, fan and horn fail	Blown fuse	Replace fuse (below the headlight mask).
The NEUTRAL lamp is not	Defect indicator lamp.	Replace indicator lamp
on even though the gear is in NEUTRAL	Defect neutral switch.	Connect cable to ground; neutral switch must be replaced in indicator lamp lights up.
	Loose connections, defect cable.	Check connections and cables.
The battery is discharged	The ignition (power consumer) hasn't been switched off	Recharge the battery according to the relevant instructions.
	The battery isn't charged by the generator because	Remove seat and check voltage regulator connections; voltage regulator and generator should be checked by a KTM dealer.

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 trade washing detergent and a sponge. The hard dirt can be removed before with the help of a soft water jet.

!	CAUTION		i
Never clean your motorcycle with a high-pressured	CLEANER OR A HIGH-PRESSURED	water jet. The water	COULD OTHERWISE RUN INTO THE

ELECTRICAL COMPONENTS, CONNECTORS, SHEATHED CABLES, BEARINGS, CARBURETOR ETC. AND CAUSE DISTURBINGS OR LEAD TO A PREMATURE DESTRUC-TION OF THESE PARTS.

- You should use normal trade-mark detergents to clean the engine. Strongly dirted parts should be cleaned additionally with the help of a paint brush.
- After the motorcycle has been rinsed with a soft water jet, it should be dried by air pressure and a cloth. Then take a short drive until the engine has reached the working temperature and also use the brakes. Due to the heat, the water also evaporates at the unapproachable 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 sliding and pivot points. Treat the chain with a chain spray too.
- To prevent failures in the electric system, you should treat the ignition lock, the emergency OFF switch, 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

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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.

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 fine screen filter (old engine oil contains aggressive contaminations).
- Check antifreezer and amount of cooling liquid.
- Warm up the engine once again, close the fuel cock and wait until the engine dies. Then open the drain plug of the float chamber to remove the remaining 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 (slowly operate the kickstarter, until you can hear the automatic decompressor click (release)
- Let fuel flow out of tank into an appropriate container.
- Correct tire pressure.
- Lubricate pivot points of the control levers, foot rests, etc. as well as the chain.
- Service the shock absorber linkage
- Disassemble and charge battery (see chapter: BATTERY).
- The storage place should be dry and not subject to excessive temperature fluctuations.
- Cover the motorcycle with an air permeated tarpaulin or blanket. Do not use non air permeable materials as a possible humidity might not be able to escape and could 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

- Mount the charged battery (regard polarity).
- 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.

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I.

TECHNICAL SPECIFICATIONS - CHASSIS 400/640 LC4-E, 640 LC4-E SUPERMOTO 2001

	400 LC4-E	640 LC4-E	640 LC4-E Supermoto	
Frame		Central chrome-moly-steel frame		
Fork	White Power – Up Side Down 43			
Wheel travel front/rear		270 / 300 mm (10,6 / 11.8 in)		
Rear suspension	Central shock absorber (W	/P) with PRO-LEVER linkage to rear- sv	wing-arm with needle bearing	
Front brake	Disc brak	e with carbon-steel brake disc, brake c	aliper floated	
Front brake disc	Ø 300 mr	m (11.8 in)	Ø 320 mm (12.6 in)	
Rear brake	Disc brake with car	bon-steel brake disc $arnothing$ 220 mm (8.7 ir), brake caliper floated	
Tyres front	90/9	90-21	120/70-17	
Air press. road, driver only	1.8 bar	(26 psi)	2.0 bar (29 psi)	
Air press. road with passenger	2.0 bar	(29 psi)	2.2 bar (31 psi)	
Tyres rear	140/	80-18	160/60-17	
Air press. road, driver only	2.0 bar	(29 psi)	2.2 bar (31 psi)	
Air press. road with passenger	2.2 bar	(31 psi)	2.4 bar (34 psi)	
Fuel tank capacity	11 or 18 liter (2.9 or 4.8 US gallons), 2.5 liter (0,6 L	JS gallons) reserve	
Final drive ratio	15:45t	16:42t	17:42t	
Chain	O - Ring 5/8 x 1/4" headlight H4 12V 60/55W (socket P43t) parking light 12V 5W (socket W2,1x9,5d) instrument lights 12V 1,2W (socket W2x4,6d) indicator lamps 12V 1,2W (socket W2x4,6d) brake – rear light 12V 21/5 W (socket BaY15d)			
Bulps				
	flasher l	ight	t Ba15s)	
	license	olate illmination 12V 5W (socket	W2,1x9,5 d)	
Battery		maintenance-free battery 12V 8Ah		
Steering angle		62,5 °	63°	
Wheel base		1510 ± 10 mm (59.4 ± 0.4 in)		
Seat high	955 mm	(37.5 in)	935 mm (36.8 in)	
Ground clearance	355 mm	(14.0 in)	335 mm (13.2 in)	
Dead weight without fuel	136kg ((300 lbs)	137 kg (302 lbs)	
Max. permissible front axle load		211 kg (465 lbs)		
Max. permissible rear axle load		335 kg (740 lbs)		
Max. permissible laden weight		350 kg (773 lbs)		

Spring preload

STANDARD ADJUSTMENT - FORK			
	400/640 LC4-E	640 LC4-E	
		SUPERMOTO	
	WP 0518V707	WP 0518V721	
Compression adjuster	20	14	
Rebound adjuster	12	14	
Spring	4,4 N/mm	5,0 N/mm	
Spring preload	6 mm (0,24in)	8 mm (0,32in)	
Air chamber length	150 mm (5,9in)	130 mm (5,1in)	
Fork oil	SAE 5	SAE 5	

STANDARD-ADJUSTMENT - SHOCK ABSORBER400/640 LC4-E640 LC4-ESUPERMOTOSUPERMOTOWP 0118V710WP 0118V720Compression adjuster665Rebound adjuster7Spring66 / 260

27 mm(1,1in)

15 mm(0,6in)

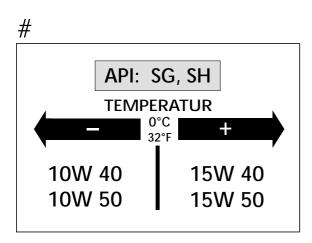
TIGHTENING TORQUES - CHASSIS LC4-E					
Collar nut front axle	M16x1,5, M17	40 Nm	(30ft.lb)		
Collar nut rear axle	M20x1,5	80 Nm	(59ft.lb)		
Shock absorber top	M10	45 Nm	(33ft.lb)		
Shock absorber bottom	M10	45 Nm	(33ft.lb)		
Collar screws brake disk front	M6	Loctite 243 + 10Nm	(7ft.lb)		
Collar screws brake disk rear	M6	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 (USD 43)	M8	20 Nm	(15ft.lb)		
Clamping screws bottom triple clamp (USD 43)	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)		
Other screws on chassis	M6	10 Nm	(7ft.lb)		
	M8	25 Nm	(19ft.lb)		
	M10	45 Nm	(33ft.lb)		
Other collar nuts on chassis	M6	15 Nm	(11ft.lb)		
	M8	30 Nm	(22ft.lb)		
	M10	50 Nm	(37ft.lb)		

TECHNICAL DATA - ENGINE 400/640 LC4-E, 640 LC4-E SUPERMOTO 2001

BASIC CARBURETOR SETTING			
	400 LC4-E 25 kW	400 LC4-E 31 kW	400 LC4-E USA
Туре	PHM 38 ND	PHM 38 ND	BST40-225
Carbsetting number	100197	100197	090298
Main jet	130	130	142,5
Needle jet	AR 264	AR 264	689 X-6
Idling jet	50	50	45
Jet needle	K 23	K 23	6G5
Needle clip pos. f. top	2. from top	2. from top	3. from top
Mixt. adj. screw open	1.5 turns	1,5 turns	2,25 turns
Throttle valve	50/1	50/1	-
Starting jet	45(50,55)	45(50,55)	-
Performance restrictor	slide stop 51mm	_	-

BASIC CARBURETOR SETTING			
	640 LC4-E 25 kW	640 LC4-E 36 kW	
Туре	BST40-225	BST40-225	
Carbsetting number	080298	090298	
Main jet	142,5	142,5	
Needle jet	689 X-6	689 X-6	
Idling jet	45	45	
Jet needle	6G5	6G5	
Needle clip pos. f. top	3. from top	3. from top	
Mixt. adj. screw open	2,25	2,25	
Throttle valve	-	-	
Starting jet	-	_	
Performance restrictor	slide stop 17mm	-	

Engine	400 LC4-E	640 LC4-E	
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter		
Displacement	398 ccm	624,6 ccm	
Bore / Stroke	89 / 64 mm	101 / 78 mm	
Ratio	10,8 : 1	11 : 1	
Fuel	unleaded premium gaso	bline with a least RON 95	
Valve timing	4 valves over rocker arm and 1 overhead ca	amshaft, camshaft drive through single chain	
Camshaft	24	9/1	
Valve diameter	Intake: 36 mm	Exhaust: 30 mm	
Valve clearence cold	Intake: 0,20 mm Exhaust: 0,20 mm	0,15 mm Exhaust: 0,15 mm	
Crank shaft bearing	2 cylinder r	oller bearing	
Connecting rod bearing	needle	bearing	
Top end bearing	bronze	bushing	
Piston	forged/cast a	luminium alloy	
Piston rings	1 compression ring, 1 tape	r face ring, 1 oil scraper ring	
Engine lubrication	two Eator	n-oilpumps	
Engine oil	see be	ellow #	
Engine oil quantity	appr. 2,1 liters including frame		
Primary ratio	straight geared spur	wheels 30:81 teeth	
Clutch	multi disc clu	itch in oil bath	
Transmission	5-speed c	law 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 dig	ital advanced system type KOKUSAN	
Ignition timing	adjustment to max. 3	38° BTDC at 6000 rpm	
Generator	12V	200W	
Spark plug	NGK DI	PR8 EA9	
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% w	vater, at least –25 ° C (–13 ° F)	
Starting equipment	electric starter	and kickstarter	



Engine oil

Т

Only use fully synthetic branded oils (Shell Advance Ultra 4) meeting or surpassing the quality requirements of API classes SG or SH (see specifications on the container).

CAUTION

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POOR OIL QUALITY OR MINOR QUANTITY EFFECT EARLY ENGINE-WEAR.

CONSUMER INFORMATION FOR USA ONLY

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in adition to notifying KTM Sportmotorcycle USA, Inc.

become involved in individual problems between you, your dealer, or KTM Sportmotorcycle USA Inc. To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1–800–424–9393 (or 366–0123) in Washington D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline. If NHTŠA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remady campaign. However, NHTSA cannot

NOISE EMISSION WARRANTY

KTM Sportmotorcycle AG warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards. This warranty extends to the first person who buys this exhaust system for purposes other than resale, and to all subsequent buyers. Warranty claims should be directed to: KTM Sportmotorcycle USA Inc. 1906 Broadway,

-orain, Óhio 44052, Telephone: (216) 246-6301

TAMPERING WARNING:

rampering with noise control system prohibited. Federal law prohibits the follo-WING ACTS OR CAUSING THEREOF:

- (1) 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, or
 - (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

among those acts presumed to constitute tampering are the acts listed below.

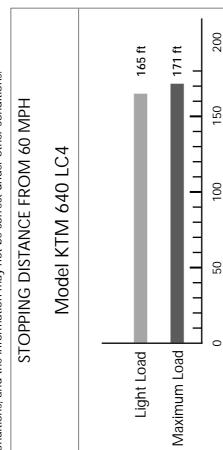
- 1) Removal of, or puncturing the muffler, baffles, header pipes or any other components which conducts exhaust gases.
 - Removal or puncturing of any part of the intake system.
 - Lack of proper maintenance.
- 4) Replacing any moving part of the vehicle, or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.

WARNING STATEMENT:

This product should be checked for repair or replacement if the motorcycle noise has increased significantly hrough use. Otherwise, the owner may become subject to penalties under state and local ordinances.

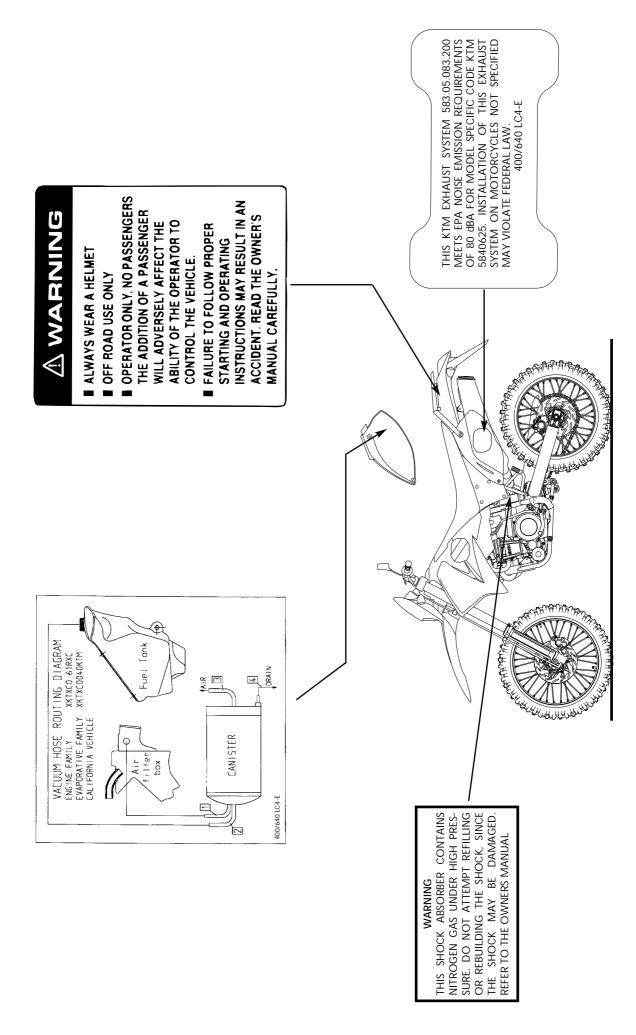
This figures indicate braking performance that can be met or exeeded by the vehicle to VEHICLE MINIMUM STOPPING DISTANCE ON DRY PAVEMENT

mation presented results obtainable by skilled drivers under controlled road and vehicle which they apply, without the wheels, under different conditions of loading. The inforconditions, and the information may not be correct under other conditions.



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KTM 400/640 LC4-E, 640 LC4-E Supermoto 2001



KTM 400/640 LC4-E, 640 LC4-E Supermoto 2001

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