125 / 200 / 250 / 300 / 380 SX / MXC / EXC 7 EGS

BEDIENUNGSANLEITUNG OWNER'S HANDBOOK MANUALE D'USO

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MANUEL D'UTILISATION MANUAL DE INSTRUCCIONES

ART. NR. 3.205.51

6.98

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:

| <u>/!</u> | 7 | WARNIN | G | \triangle | |
|--|---|--------|-----|-------------|------|
| GNORING THESE INSTRUCTIONS, C BODY AND YOUR LIFE. | | | CAN | ENDANGER | YOUR |

!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

Frame number

Engine number

Stamp of dealer

COMSUMER INFORMATION FOR AUSTRALIA ONLY

Tampering with noise control system prohibited

Owners are warned that the law may prohibit:

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

Introduction

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

You are now owner of a sporty and modern motorcycle which you are bound to have a great time with provided you care for it properly. Your owner's handbook will furnish you with important information on how to operate and maintain your new KTM motorcycle. At the time of printing, the handbook covered the most up-to-date models in this series. It is, however, possible that we may have made slight modifications in the meantime due to development in our motorcycle design.

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 by * found in the chapter entitled "Maintenance Work on Chassis and Engine" of this manual.

Take special care to follow the recommended run in, inspection, and maintenance intervals. Heeding these guidelines will significantly increase the life of your motorcycle. Be sure to have any maintenance jobs performed by an authorized KTM dealer.

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

Riding an off-highway motorcycle is a wonderful form of outdoor recreation and we certainly hope that you will enjoy it to the full. However, this enjoyable outdoor activity can cause environmental problems or lead to conflicts with other people. Responsible use of the motorcycle will prevent such problems and conflicts. You can contribute to securing the future of motorcycling by making sure that you only use the motorcycle within the limits established by the applicable laws, making environmental protection one of your top priorities and never violating other people's rights.

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

Attachments: 1 spare parts manual chassis 1 spare parts manual engine 1 owner handbook for telescopic fork 1 owner handbook for shock absorber

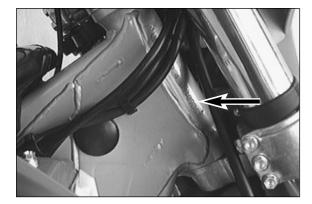
ALL RIGHTS RESERVED TO MAKE ALTERATIONS TO DESIGN AND MODEL.

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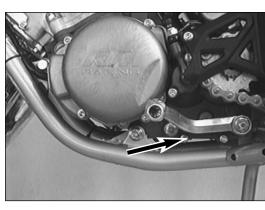
ENGLISH 3



SERIAL NUMBER LOCATIONS

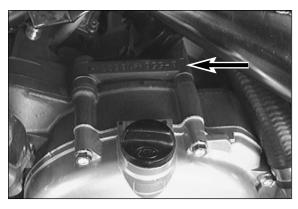
Chassis number

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



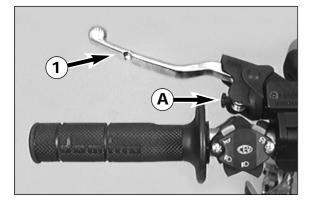
Engine number, engine type (125/200)

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



Engine number, engine type (250/300/380)

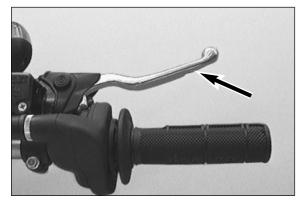
Engine number and engine type are stamped on the right hand side of the engine in front of the kickstarter. Write this number into the relevant area on page 1.



OPERATION INSTRUMENTS

Clutch lever

The clutch lever ① is located on the left side of the handlebar. The adjusting screw ② is used to change the original position of the clutch lever (see maintenance work on chassis and angine).



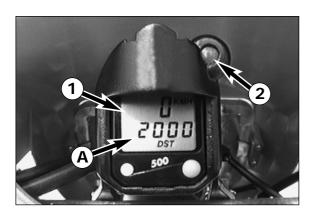
Hand brake lever

⚠

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

| WARNING | |
|---------|--|
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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 lamp (EXC)

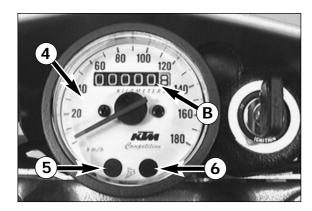
The mileage indicator (2) in the speedometer (1) indicates overall mileage. For further adjustment options and handling, see the appended user's guide of the SIGMA SPORT BASELINE 500 speedometer. On default factory models, a wheel circumference of 2150 mm (standard tires) is adjusted on the speedometer.

The blue indicator lamp 2 is lit when the high beam is on.

a tot a contraction of the contr

Odometer (EXC USA)

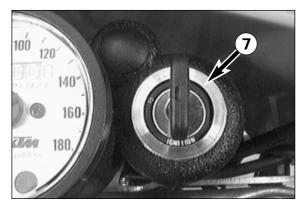
The odometer is a mileage indicator and can be set to 0 by means of the adjustment wheel $\textcircled{\ensuremath{\mathfrak{G}}}.$



Speedometer, indicator lamps (EGS)

The mileage indicator **()** in the speedometer **()** indicates overall mileage. When the turn indicator is on, the green indicator lamp **()** will be flashing in the same rhythm.

The blue indicator lamp ⁽⁶⁾ will be lit when the high beam is on



100 120 140 140 160 160 180 180

Ignition lock

Switch positions of ignition lock @

- \bigotimes = Ignition off
- \bigcirc = Ignition on, parking light on (only for models with battery)

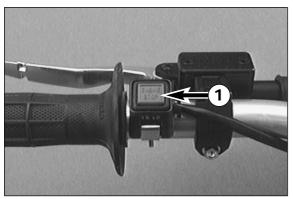
| | 00 () | 5, |
|---|----------------------------|----|
| ļ | CAUTION | ! |
| | DADK HOUT FOR MORE THAN 00 | |

Dont turn the park light for more than 90 minuets, when the motor is not running, because the battery will be completly emptied and destryed.

The ignition key $\ensuremath{\mathfrak{G}}$ can be removed when in its $\ensuremath{\mathfrak{R}}$ position.

Short circuit button (SX)

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



Combination switch (EXC)

The light switch has 2, respetively 3 switch positions.

- I = Light off (this function is not available in all models)
- \mathbf{B} = Low beam on
- = High beam on

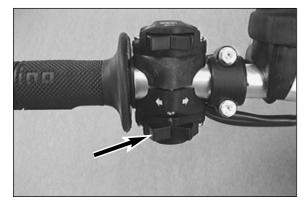
You may use button **2** to actuate the horn.

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

ALMANC BREJINAON

Headlamp switch (EXC USA)

In this model the headlamp is switched on with the pull switch ${f 0}$.



Flasher switch

Flasher left

Flasher right

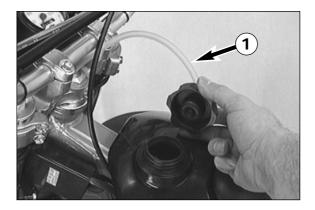


Emergency OFF switch (Australia)

The emergency OFF switch **③** is located next to the throttle grip. Primarily designed as safety or emergency OFF switch, it should normally not be in its activated state.

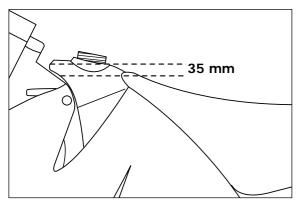
In this position, the ignition circuit is shorted; if the engine is running, it will stall immediately, if it is at standstill, it will not start.

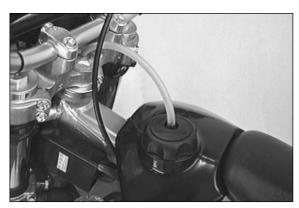
) In this position, the ignition circuit is enabled; the engine should start.



Filler cap

To open it: turn filler cap counter-clockwise. To close it: put filler cap back on and tighten it by turning it clockwise. Install tank breather hose • without kinks.







| | OFF | ON | RES |
|-------------------|-----|----|-----|
| SX | | | |
| MXC EXC EGS | | 0 | |

Refueling, fuel

I

- 125: Unleaded premium gasoline RON 98 mixed with high grade two stroke oil. Mixture ratio 1:40
- 200-380: Unleaded premium gasoline RON 95 mixed with high grade two stroke oil. Mixture ratio 1:40 1:60

Fuel and engine oil should only be mixed immediately before use. KTM recommends SHELL ADVANCE RACING X.

| ⚠ | WARNING | ≙ |
|---------------|----------------------------------|------------------------|
| ine is highly | flammable and poisonous. Extreme | CAUTION SHOULD BE USED |

Gasoline is highly flammable and poisonous. Extreme caution should be used when handling gasoline. Do not refuel the motorcycle near open flames or burning cigarettes. Always switch off the engine before refueling. Be careful not to spill gasoline on the engine or exhaust pipe while the engine is hot. Wipe up spills promptly. If gasoline is swallowed or splashed in the eyes, seek a doctor's advice immediately.

| Δ | 1.1 | Т | 10 | 0 | Ν | |
|---|-----|---|----|---|---|---|
| | - | | | - | | • |

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- ONLY USE PREMIUM-GRADE GASOLINE ROZ 98 RESPECTIVELY 95 MIXED WITH HIGH-GRADE TWO-STROKE ENGINE OIL. OTHER TYPES OF GASOLINE CAN CAUSE ENGINE FAI-LURE.
- Do not use premixed two-stroke oils, oils for outboard engines or normal engine oil to prepare the mixture.
- Do not use gasoline and oil mixtures that are older than one week. The LUBRICATION PROPERTIES OF SOME TWO-STROKE OILS CAN DETERIORATE VERY RAPIDLY.
- ONLY USE KNOWN BRANDS OF HIGH-GRADE 2-STROKE ENGINE OIL.

С

- NEVER MIX SYNTHETIC OILS AND MINERAL OILS.
- NOT ENOUGH OIL OR LOW-GRADE OIL CAN CAUSE EROSION OF THE PISTON. WHEN USING TOO MUCH OIL, THE ENGINE MAY START SMOKING AND FOUL THE SPARK PLUG.
- Fuel expands when its temperature rises. Therefore do not fill the tank to the top. (see fig.)

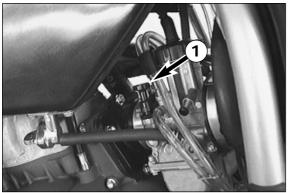
Fuel tap

- OFF In this position the fuel tap is closed. No fuel may flow to the carburetor.
- **ON** During operation the twist grip must be turned to ON. This means that the fuel can flow to the carburetor. With the twist grip in this position the tank will be emptied until only the reserve is left.
- **RES** The reserve tank cannot be tapped until the rotating handle is turned to the RES position. Fill the tank as soon as possible and remember to turn the rotating handle back to the ON position so that you will have backup fuel next time, too.

| Reserve of the 9,5 I tank: | 1.3 I (0,35 US gallons) |
|----------------------------|-------------------------|
| Reserve of the 12 I tank: | 1.7 I (0,45 US gallons) |

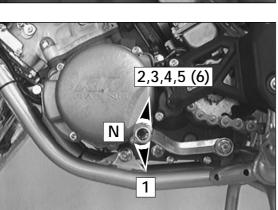
| ! | CA | N | i | |
|---|----|---|---|--|
| | | | | |

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



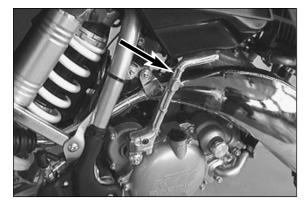
Choke knob When pulling the choke knob **•** fully towards the top, a bore is opened in the carburetor. Through this bore the engine can take in additional fuel. This encoure the rich fuel-air mixture, that is needed for a cold start. When pressing the choke knob downward in the carburetor, the bore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

ENGLISH ⁸



Shift lever

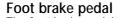
The shift lever is mounted on the left side of the engine. The position of the gears is shown in the illustration. Neutral, or the idle speed, is located between first and second gear.



Kickstarter

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

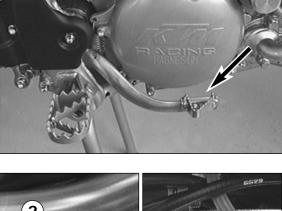
| ♪ | WARNING | ♪ |
|-----------------------|---------------------------|-------------------------------|
| When starting the en | GINE, PUT ON MOTORCYCLE E | BOOTS IN ORDER TO AVOID INJU- |
| ries. You may slip of | F THE KICKSTARTER, OR THE | ENGINE MAY STRIKE BACK WHEN |
| KICKING NOT VEHEMENTL | Y ENOUGH. | |



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

| WARNING | Δ | |
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| | | |

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

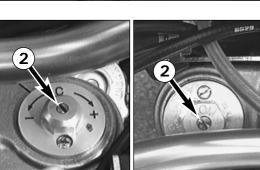
The compression damping mechanism is built into the left fork tube. It only regulates the degree of damping during compression. By turning the adjusting screw **2** (C, COM), the degree of damping of the

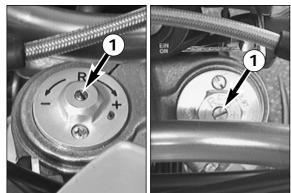
By turning the adjusting screw **2** (C, COM), the degree of damping of the compression can be adjusted. Turn the knob clockwise to increase damping, turn it counterclockwise to reduce damping during compression.

STANDARD ADJUSTMENT

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

| Type Marzocchi 91 | 15 clicks |
|--------------------------|-----------|
| Type White Power 918T767 | 12 clicks |
| Type White Power 918T768 | 12 clicks |
| Type White Power 918T769 | 12 clicks |





By turning the adjusting screw **①** (R, REB), the degree of damping of the rebound can be adjusted. Turn the knob clockwise to increase damping, turn it counterclockwise to reduce damping during rebounding. STANDARD ADJUSTMENT

Rebound damping of fork

- turn adjusting screw clockwise as far as it will go

regulates the degree of damping during rebounding.

- turn it back by as many clicks as are specified for the relevant type of fork

The rebound damping mechanism is built into the right fork tube. It only

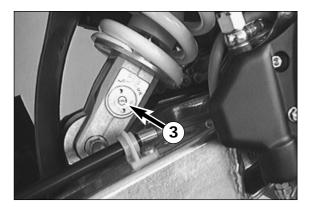
| Type Marzocchi 91 | 15 clicks |
|--------------------------|-----------|
| Type White Power 918T767 | |
| Type White Power 918T768 | 12 clicks |
| Type White Power 918T769 | 12 clicks |

Compression damping of shock absorber

The damping force of the compression damping can be adjusted with knob The higher the number the higher the damping force.

| Δ | WARNING |
|------------------|-----------|
| Type White Power | 1218T7146 |
| | 1218T7136 |
| Type White Power | 1218T7125 |
| | 1218T7115 |
| STANDARD ADJUSTI | |

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



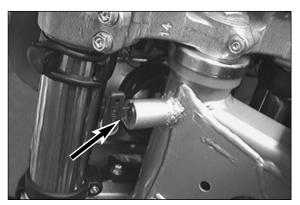
Rebound damping of shock absorber

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

- Turn the adjusting screw clockwise to the stop.

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

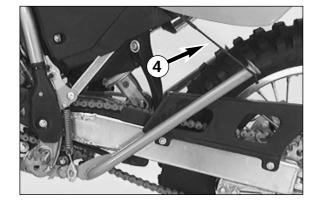
| Type White Power 1218T711 | 14 clicks |
|---------------------------|-----------|
| Type White Power 1218T712 | 14 clicks |
| Type White Power 1218T713 | |
| Type White Power 1218T714 | 12 clicks |



Steering lock

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

| ! | CAUTION | i |
|-------------------|--|---------------------------|
| NEVER LEAVE THE | e key inserted in the steering lock. I | F YOU TURN THE HANDLE BAR |
| TO THE LEFT THE I | KEY COULD GET DAMAGED. | |



Center stand

Push center stand with your foot to the ground and pull your bike backwards. Make sure that you put your bike on solid ground and in a secure position. For off-road riding, you can use the rubber band ④ to additionally secure the center stand in its folded-up position.

| i | CAUTION | i |
|---|---------|---|
| | | |

Always check before going for a ride that you have folded up the center stand as far as possible. If the stand touches the ground while you are driving, you may lose controll of your motorcycle.

What you should check before each start

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

The following checks should be performed:

1 CHECK TRANSMISSION OIL LEVEL.

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

2 FUEL

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

3 CHAIN

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

4 TIRES

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

5 BRAKES

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

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

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

Check correct adjustment and easy running of all control cables.

7 COOLING FLUID

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

8 ELECTRICAL SYSTEM

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

9 LUGGAGE

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

| \triangle | WARNING | ≙ |
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- WEAR SUITABLE CLOTHING WHEN DRIVING A MOTORCYCLE. SMART KTM DRIVERS ALWAYS WEAR A HELMET, BOOTS, GLOVES, AND A JACKET, REGARDLESS OF WHETHER DRIVING ALL DAY OR JUST GO FOR A SHORT RIDE. THE PROTECTIVE CLOTHING SHOULD BE BRIGHTLY COLO-RED SO THAT OTHER USERS OF THE ROADS CAN SEE YOU AS EARLY AS POSSIBLE. OF COURSE YOUR PASSENGER WILL ALSO NEED SUITABLE PROTECTIVE CLOTHING.
- DO NOT DRIVE AFTER HAVING CONSUMED ALCOHOL.
- ONLY USE ACCESSORY PARTS RECOMMENDED BY KTM. FOR EXAMPLE, FRONT PANELLING CAN IMPAIR THE DRIVING CHARACTERISTICS OF THE MOTORCYCLE. CASES, EXTRA TANKS ETC. CAN ALTER THE WEIGHT DISTRIBUTION AND THUS ALSO IMPAIR THE VEHICLE'S DRIVING CHA-RACTERISTICS.

Instructions for your first ride

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

| ▲ | WARNING | ≙ |
|-----------|-------------------------------|---------------|
| IMPORTANT | INSTRUCTIONS FOR MODELS SX, N | IXC, AND EXC: |

- THE ABOVE MODELS WERE DESIGNED AND BUILT FOR ONE PERSON ONLY - NO ADDITIONAL PASSENGER
- ALLOWED! – NEITHER DO THESE MODELS MEET THE APPLICABLE STATUTORY REGULATIONS AND SAFETY STANDARDS. USING THEM ON PUBLIC ROADS, HIGHWAYS, FREE-WAYS ETC. IS AGAINST THE LAW.
- WHEN RIDING YOUR MOTORCYCLE, PLEASE BEAR IN MIND THAT OTHER PEOPLE MAY FEEL MOLESTED BY EXCESSIVE NOISE.

Running in

- Even very precisely machined sections of engine components have rougher surfaces than components which have been sliding across one another for quite some time. Therefore, every engine needs to be broken in. For this reason, during its first 500 kilometers (300 miles) or 5 hours the engine must not be revved up to its performance limits.
- APPLY LOW BUT CHANGING LOADS FOR RUNNING-IN.
- DO NOT DRIVE AT FULL LOAD FOR THE FIRST 500 KILOMETERS (300 MILES) OR 5 HOURS!

Starting when the engine is cold

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

| ≙ | | | | WARNING | | | ⚠ | | |
|---|-----|-------|--------|---------|----------|-----|---------|--------|------|
| _ | То | AVOID | INJURY | WHEN | STARTING | THE | ENGINE, | ALWAYS | WEAR |
| | BOC | DTS | | | | | | | |

 Do not start the engine and allow it to idle in a closed area. Exhaust fumes are poisonous and can cause loss of consciousness and death. Always provide adequate ventilation while the engine is running.

Do not ride your motorcycle with full load and do not rev up the engine when cold. Since the piston is warms up and expands faster than the water cooled cylinder, this might cause engine damage. Always let engine idle until warm or drive it warm at low r.p.m. speeds.

Starting when the engine is warm

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

What to do when the engine is "flooded"

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

Starting off

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

| ▲ | WARNING | \triangle |
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| | | |

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

Shifting/Riding

⚠

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

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

WARNING

⚠

- Observe the traffic regulations, drive defensively and try to look ahead as far as possible so that you recognize any hazards as early as possible.
- Adjust your driving speed to the conditions and your driving skills.

- DRIVE CAREFULLY ON UNKNOWN ROADS OR IN UNKNOWN TERRITORY.
- When driving off-road, always have a friend on a second motorcycle to keep you company, so that you can help each other should difficulties arise.
- Replace the helmet visor or goggle glasses early enough.
 When light shines directly on a scratched visor or goggles, you will be practically blind.
- AFTER FALLING WITH THE MOTORCYCLE, CHECK ALL ITS FUNCTIONS THOROUGHLY BEFORE USING IT AGAIN.

| _ | | | |
|---|------------|-----------------------------------|-----------------|
| | ! | CAUTION | ! |
| _ | High RPM | RATES WHEN THE ENGINE IS COLD HA | VE AN ADVERSE |
| | EFFECT ON | THE LIFE OF YOUR ENGINE. WE RECOM | MEND 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. – NEVER HAVE THE THROTTLE WIDE OPEN WHEN CHANGING DOWN TO A LOWER GEAR. THE ENGINE WILL OVERREV, DAMAGING THE VALVES. IN ADDITION, THE REAR WHEEL BLOCKS SO THAT THE MOTORCYCLE CAN EASILY GET OUT OF CONTROL.
- IF THE ENGINE RUNS WITHOUT THROTTLE DURING LONGER DOWNHILL TRAVEL, THE ENGINE SHOULD BE ACCELERATED OCCASIONALLY TO ENSURE THAT IT IS SUPPLIED WITH SUFFICIENT LUBRICANT WHICH IS MIXED IN THE FUEL.
- IN THE EVENT THAT, WHILE RIDING ON YOUR MOTORCYCLE, YOU NOTICE ANY UNUSUAL OPERATION-RELATED NOISE, STOP IMMEDIA-TELY, TURN THE ENGINE OFF, AND CONTACT AN AUTHORIZED KTM DEALER.

Braking

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

| | gears depending on your speed. | |
|---|--------------------------------|---|
| ♪ | WARNING | ⚠ |
| | | |

When you brake, the brake discs, brake pads, brake caliper and brake fluid heat up. The hotter these parts get, the weaker the breaking effect. In extreme cases, the entire braking system can fail.

Stopping and parking

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

| | · · · |
|---|---|
| _ | ∆ WARNING ∆ |
| _ | NEVER LEAVE YOUR MOTORCYCLE WITHOUT SUPERVISION AS LONG AS |
| | THE ENGINE IS RUNNING. |
| - | MOTORCYCLE ENGINES PRODUCE A GREAT AMOUNT OF HEAT WHILE |
| | RUNNING. THE ENGINE, EXHAUST PIPE, MUFFLER, BRAKE ROTORS, AND |
| | shock absorbers can become very hot. Do not touch any of |
| | THESE PARTS AFTER STARTING THE MOTORCYCLE, AND TAKE CARE TO |
| | PARK IT WHERE PEDESTRIANS ARE NOT LIKELY TO TOUCH IT AND GET |
| | BURNED |

| | BURINED. | | |
|---|----------------|-------------------------------|---|
| | ! | CAUTION | i |
| _ | CLOSE THE FLIE | TAP WHEN LEAVING YOUR VEHICLE | |

 CLOSE THE FUEL TAP WHEN LEAVING YOUR VEHICLE. OTHERWISE THE CARBURETOR MAY GET FLOODED AND FUEL WILL ENTER THE ENGINE. 11

| PERIODIC LUBRICATION AND MAINTENANCE SCHEDULE | KTM rider | | | KTM dealer | | | |
|---|-------------------|---------------|--|---|---|----------|--|
| 125-380 6.98 | | | 1st service after 1000 km (600 miles) or 10 hours | after 2000 km (1250 miles) or 20 hours | year | | |
| KIM | before each start | | hol Doo | 50 hc | ce a | | |
| | h si | ing | ter 1 r 10 | ر م | r on | | |
| | eac | ash | e af ss) o | 10 ki lies) | 0 kr es) c | at least | |
| AT A REGULAR COMPETITION USE OF THE BIKE, THE 4000 KM (2500 MILES) | ore | L X | ervic mile | 200 0 mi | 400 1 mil | ast | |
| SERVICE IS TO BE DONE AFTER EVERY RACE | befc | after washing | st s(600 | fiter 125(| after 4000 km (2500 miles) or once a | it le | |
| Check transmission oil level | • | 0 | - S | e : | 0.0 | 0 | |
| Change transmission oil | | | • | | • | | |
| Check spark plug and electrode gap | | | | • | • | | |
| Change spark plug | | | | - | • | | |
| Functional testing of the exhaust control system | | | | | - | | |
| Check intake manifold for leaks and cracks | | | | | | <u> </u> | |
| | • | - | | | • | | |
| Drain and clean carburetor float chamber | | • | | | • | | |
| Adjust idling | | | • | | • | | |
| Check breather hoses of engine case and gas tank for correct position without buckles | | | • | | | | |
| Clean and check airfilter element, box and carburetor connection boot | | • | | | • | - | |
| Check chain, sprockets, guides and chain wear | • | | • | | • | | |
| Clean and oil chain | • | | | | • | | |
| Check chain tension | ٠ | | • | | • | | |
| Check coolant level | • | | • | | • | | |
| Check quality of antifreeze | | | | | | | |
| Check cooling system for leaks - visual inspection | • | 1 | • | | • | | |
| Check exhaust system for cracks and leaks | | | | | • | | |
| Replace glass fiber yarn of silencer | | | | | • | | |
| Check of the exhaust suspension system | | | | | • | | |
| Check brake fluid level front and rear | • | | • | | • | | |
| Change brake fluid | - | | - | | | | |
| Check thickness of disc brake pads | • | | | | • | | |
| Check brake discs | • | | | | • | | |
| | | | | | _ | | |
| nspect condition and installation of front and rear brake hoses | • | | • | | • | | |
| Check free travel and free movability of hand brake lever and foot brake lever | • | | • | | • | | |
| Check the oil level in the master cylinder of the hydraulic clutch | | | | • | • | | |
| Change the oil of the hydraulic clutch | | | | | | | |
| Check telescopic fork action | • | | | | • | | |
| Check telescopic fork for leaks | | | | | • | | |
| Push up the protective bellows and remove the dirt; the drain holes must be free of obstructions (Marzocchi fork) | | • | • | • | • | | |
| Clean the dust scrabbers of the telescopic force (WP Extreme fork) | | • | | • | • | | |
| Jndo the bleeder screws at the fork legs | | | | | • | | |
| Change oil of telescopic fork | | | | | | | |
| Service telescopic fork completely | | | | | | | |
| Check steering head bearing free play | | | • | | • | - | |
| Clean and regrease steering head bearing | | | - | | • | | |
| Check setting and damping of shock absorber | • | | | | • | - | |
| | • | | | | | | |
| Service shock absorber completely | | | | | | | |
| Grease swingarm needle bearings (dont grease the pivot bearing for the shock absorber) | | | - | | - | | |
| Check for even spoke tension and rim alignment | • | | • | | • | | |
| Check wheel bearings | • | <u> </u> | | | • | | |
| Check tires for cuts and air pressure | ٠ | | | | • | | |
| Check cables for damage and free movement | • | | | | • | | |
| Adjust and oil control cables | | • | ٠ | | • | | |
| Check electrical system | ٠ | | • | | • | | |
| Check battery holder and connections (CH, Singapore) | | 1 | | 1 | • | | |
| Check adjustment of headlight | | | | | • | | |
| Apply contact spray to light switches, flasher switches and ignition lock | | • | | | • | | |
| Check all bolts, nuts, screws and clamps for proper tightness | • | | • | | • | - | |
| show an solid, hats, solows and damps for proper lightness | - | 1 | Ī | | | | |

MAINTENANCE WORK ON CHASSIS AND ENGINE

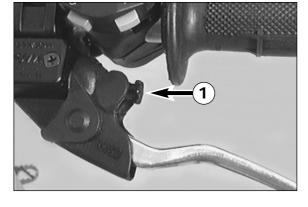
WARNING

ALL MAINTENANCE AND ADJUSTEMENT OPERATIONS THAT ARE MARKED WITH A * REQUIRE SPECIALIST KNOW-LEDGE. FOR YOUR OWN SECURITY, LET THESE TASKS BE CARRIED OUT BY A KTM-DEALER

CAUTION

- When cleaning the motorcycle, do not use a high pressure cleaning unit if possible, otherwise water will penetrate the bearings, car-BURETOR, ELECTRIC CONNECTORS ETC.
- When transporting your KTM, ensure that it is held upright with restraining straps or other mechanical fastening devices and that THE FUEL TAP IS IN THE OFF POSITION - IF THE MOTORCYCLE SHOULD FALL OVER, NO FUEL CAN LEAK FROM THE CARBURETOR OR FUEL TANK
- Only use special screws with an appropriate thread length supplied by KTM to fix the spoilers on the tank. Using other screws or LONGER SCREWS CAN CAUSE LEAKS IN THE TANK THROUGH WHICH FUEL CAN FLOW OUT.
- DO NOT USE TOOTHED WASHERS OR SPRING RINGS WITH THE ENGINE FASTENING SCREWS, AS THESE WORK INTO THE FRAME PARTS AND KEEP WORKING LOOSE. INSTEAD, USE SELF-LOCKING NUTS.
- LET YOUR MOTORCYCLE COOL DOWN BEFORE BEGINNING ANY MAINTENANCE WORK IN ORDER TO AVOID GETTING BURNED.

- REMOVE OILS, FATTY MATTERS, FILTERS, FUELS, WASHING DETERGENTS ETC. ORDERLY.
- Under no circumstances may used oil be disposed of in the sewage system or in the open countrysize. 1 liter used oil contaminates 1.000.000 LITERS WATER.



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I.

Changing the original position of the clutch lever

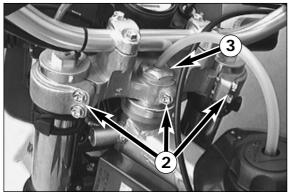
The adjusting screw **1** can be used for individual adjustment of the original position of the clutch lever, thus allowing adjustment to an optimal position for every hand size.

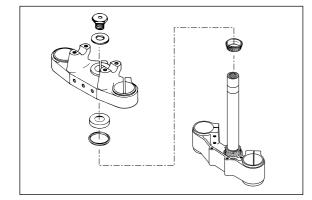
Λ

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

| ! | CAUTION | ļ |
|---|---------|---|
| | | |

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





Checking and adjusting the steering head bearing *

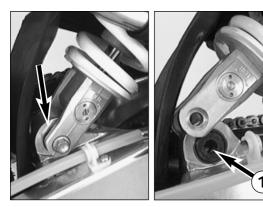
Check steering head bearing for play periodically. For check put motorcycle on stand so that the front wheel is off the ground. Now try to move the fork forward and backward. For readjusting, loosen the five pinch bolts 2 of the top triple clamp and turn steering stem bolt clockwise 3 until there is 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 release tension. Retighten the five pinch bolts to 15 Nm (11 ft.lb).

| | 5 | 1 | | , , |
|------------------------------|----------------|-----------------|--------------|------------|
| | WAR | NING | ≙ | |
| IF THE STEERING HEAD BEARING | S IS NOT ADJUS | STED TO BE FREE | OF PLAY, THE | MOTORCYCLE |
| WILL EXHIBIT UNSTEADY DRIVIN | G CHARACTERI | STICS AND CAN | GET OUT OF C | ONTROL. |

| CA | 1.12 | τĿ | \mathbf{O} | N | |
|----|------|----|--------------|----|--|
| | | | $\mathbf{-}$ | IN | |

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

The steering head bearings should be regreased at least once a year (e.g. Shell Advance Grease).





The pivot bearing **①** for PDS suspension struts at the swinging fork is Teflon-coated and must not be lubricated with either grease or other lubricants. Grease and other lubricants cause the Teflon coat to dissolve, whereby the bearing's lifecycle will be reduced dramatically.

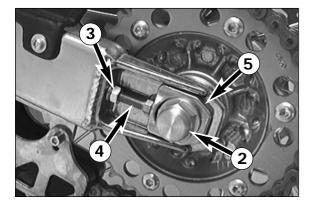
When cleaning your bike with a high-pressure cleaner, do not aim the high-pressure spray directly at the pivot bearing.

Check chain tension To check the chain tension, park the motorcycle. Press chain unward at the end of the chain

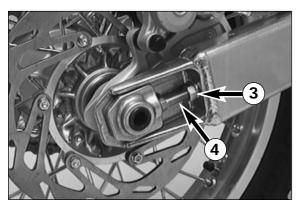
- If necessary, correct chain tension.

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|------------|---------|----------|
| ⚠ | WARNING | 6 |
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- IF CHAIN TENSION IS TOO GREAT, PARTS WITHIN THE SECONDARY TRANSMISSION (CHAIN, CHAIN WHEELS AND REAR WHEEL BEARINGS) WILL BE SUBJECTED TO UNNE-CESSARY 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.



15 mm



Correct chain tension

- Loosen collar nut 2, loosen lock nuts 3, and turn right and left adjusting screws 4 equally far. Tighten lock nuts.
- Before tightening the collar nut, verify that the chain adjusters ③ are sitting close to the adjusting screws and that the rear wheel has been aligned with the front wheel.
 - Tighten collar nut 2 to 80 Nm (60 ft.lb).

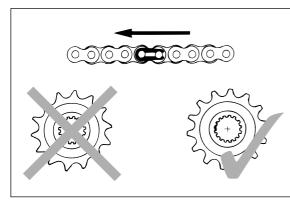
| ▲ WARNING ▲ IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE S | |
|--|----------|
| IF YOU DON'T HAPPEN TO HAVE A TOROUF WRENCH AT HAND, MAKE S | |
| | SURE YOU |

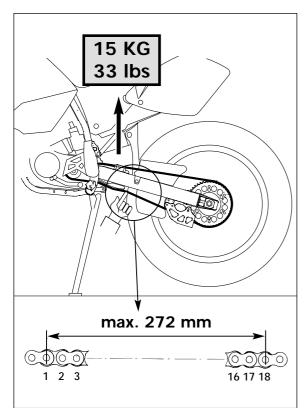
- HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE. A LOOSE AXLE MAY LEAD TO AN UNSTABLE DRIVING BEHAVIOR OF YOUR MOTORCYCLE.
- TIGHTEN THE COLLAR NUT WITH THE REQUIRED TORQUE. A LOOSE WHEEL SPINDLE MAY LEAD TO AN UNSTABLE BEHAVIOR OF YOUR MOTORCYCLE.

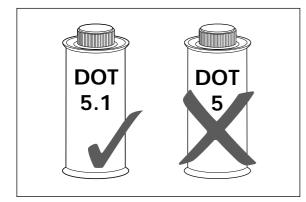
Chain maintenance

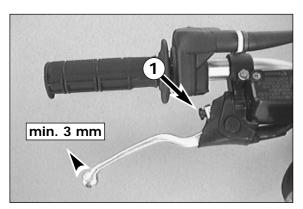
For long chain life, good maintenance is very important. Chains without O-rings should be cleaned in fireproof solvent regularly and afterwards treated with hot grease or chain spray (Shell Advance Bio Chain).

O-ring chains on the other hand are very simple to clean. The best way is to use lots of water, but never use brushes or cleaning liquids. After letting the chain dry, you can use a special O-ring chain spray (Shell Advance Bio Chain).









WARNING

No lubrication is allowed to reach the rear tire or the brake disks, eitherwise the road adherence and the rear wheel braking effects would be strongly reduced and the motorcycle could easily lose control.

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| CAUTION | |
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When mounting the chain masterlink clip, the closed side of the masterlink clip must point in running direction.

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

Chain wear

⚠

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

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

| | 1 | | | | |
|--|---------|---|--|--|--|
| ! | CAUTION | ! | | | |
| When you assemble a rear sprocket with 14t, the collar must be on the inside | | | | | |

General information about KTM disc brakes BRAKE CALIPERS:

The brake calipers of this series use a "floating" mount. This means that the brake calipers are not solidly attached to the caliper support, which enables them to "float" for maximum braking contact.

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:

MAY FAIL DUE TO OVERHEATING.

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

In this case, consult an authorized KTM dealer immediately.

BRAKE FLUID:

1

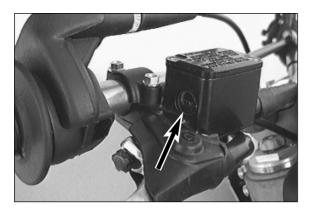
KTM fills the brake system with "Shell Advance Brake DOT 5.1", one of the best brake fluids currently available. We recommend that you continue to use it. DOT 5.1 brake fluid is based on glycol ether and of an amber color. If you do not have any DOT 5.1 for refilling, you may use DOT 4 brake fluid. However,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

Adjusting of free travel at the hand brake lever

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

| | ļ | CAUTION | ! |
|---------------|---------------|---------------------------|------------------------------|
| At the hand | BRAKE LEVER, | FREE TRAVEL MUST AT LEA | AST BE 3 MM (0.1 IN). ONLY |
| THEN MAY THE | PISTON IN THE | HAND BRAKE CYLINDER BE | MOVED (TO BE RECOGNIZED BY |
| THE GREATER R | ESISTANCE OF | THE HAND BRAKE LEVER). IF | THIS FREE TRAVEL IS NOT PRO- |

VIDED, PRESSURE WILL BUILD UP IN THE BRAKING SYSTEM, AND THE FRONT-WHEEL BRAKE



Checking of brake fluid level - front brake

The brake fluid reservoir is linked with the hand brake cylinder at the handlebar and the reservoir is provided with an inspection glass. With the reservoir in a horizontal position, the brake fluid level should not drop below the middle of the glass. The reservoir should be kept completely full at all times for best performance.

| \mathbb{A} | WARNING | ∆ |
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| | | |

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

5 mm J

Refilling the front brake fluid reservoir *

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

Loosen screws 1 and remove lid 2 and membrane 3.

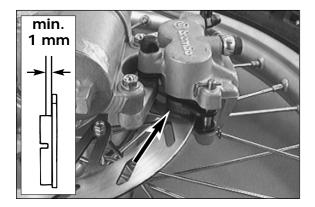
Place hand brake cylinder in a horizontal position and fill the brake fluid reservoir to 5 mm (0.2 in) below the rim with clean brake fluid DOT 5.1 (Shell Advance Brake DOT 5.1). Replace membrane and lid, tighten screws. Rinse off spilled or overflowing brake fluid with water.

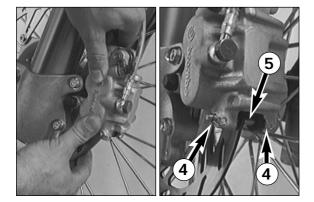
| | | - | |
|---|-----------------------------|-----------------------------|---------------------|
| | Δ Ν | WARNING | \triangle |
| - | Never use DOT5 brake flui | id! It is based on silicone | OIL AND OF A PURPLE |
| | COLOR. SEALS AND BRAKE HOSE | S MUST BE ESPECIALLY ADAPTI | ED TO IT. |

- 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 | i |
|---|---|--------------------------|
| - | 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 nust be at least 1 mm (0.04 in) thick.

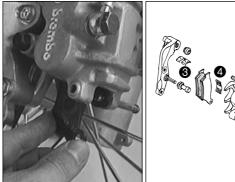
| · · | | |
|---------------------------|-----------------------|--------------------------------|
| ▲ | WARNING | G 🛆 |
| AT THEIR MOST WORN POINT | BRAKE PAD LININGS SHO | ould not be thinner than 1 mm, |
| OTHERWISE THEY COULD LEAD | d to brake failure. F | OR YOUR OWN SAFETY DON'T PUT |
| OFF HAVING YOUR BRAKE PAD | S CHANGED. | |

| i | CAUTION | ! |
|---|---------|---|
| | | |

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

Replacing front brake pads *

Press the brake caliper toward the brake disk, to put the brake piston in its basic position. Remove clips ④ and pull out bolt ⑤. Remove brake pads from the brake caliper. Clean the brake caliper and the brake caliper support with compressed air. Check the sleeves of the guide bolts for damage, and grease guide bolts if necessary.





3-5mm

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

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

WARNING

A

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

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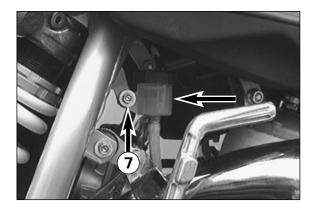
HAVING PERFORMED ANY WORK ON THE BRAKING SYSTEM, ONE MUST ALLWAYS ACTUATE THE HAND BRAKE LEVER OR FOOT BRAKE LEVER, RESPECTIVELY SO AS TO ENSURE THAT THE BRAKE PADS WILL LIE AGAINST THE BRAKE DISK AND THE PRESSURE POINT IS ESTABLISHED.

Changing the basic position of the foot brake pedal *

The basic position of the foot brake pedal can be altered by turning the stop screw **3**. The free play at the foot brake pedal must then be adjusted by means of the piston rod 6.

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

| - | | | | |
|-------------------|-----------------|-------------------|-------------------|--------------|
| ! | | CAUTION | | ! |
| IF THIS FREE PLAY | IS NOT PRESENT, | THEN PRESSURE CAI | N BUILD UP IN THE | BRAKE SYSTEM |
| WHEN DRIVING, C | AUSING THE REA | R WHEEL TO BRAKE. | The braking syst | EM OVERHEATS |
| AND MAY EVEN FA | AIL COMPLETELY | IN EXTREME CASES. | | |



Checking rear brake fluid level

The brake fluid reservoir of the rear disc brake is located on the right side of the motorcycle next to the kickstarter. The brake fluid level must not drop below the "MIN" marking when the vehicle is in an upright position.

| | 0 | | 0 1 | |
|-------------|-------------------------|-------------------|----------|--------------|
| ⚠ | WARN | IING | ≙ | |
| BRAKE FLUID | LEVEL DROPS BELOW THE M | MINIMUM FITHER TH | HE BRAKE | SYSTEM HAS A |

IF THE B LEAK OR THE BRAKE PADS ARE COMPLETELY WORN. IN THIS CASE, CONSULT AN AUTHO-RIZED KTM DEALER IMMEDIATELY.



8 9

Refilling the rear brake fluid reservoir *

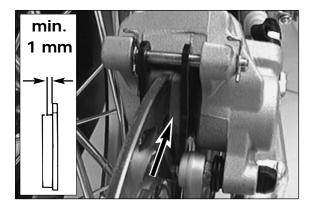
For this purpose, it is recommended to remove screw **1** and to pull the brake fluid reservoir outwards. Now the screw cap 3 and the rubber boot • can be removed. Add brake fluid DOT 5.1 (Shell Advance Brake DOT 5.1) until the brake fluid level reaches the "MAX" mark, then mount the screw cap together with the rubber boot. Restore the brake fluid reservoir to its original position and fix it with the screw. The connecting hose between the reservoir and the foot brake cylinder must be carefully positioned, preventing kinks and keeping a safe distance between the hose and the exhaust pipe. Spilled brake fluid must be rinsed off with water.

| | | RNING | ⚠ | |
|---|-----------------------------------|----------------------|-----------|-------------|
| _ | Never use DOT5 brake fluid! It is | S BASED ON SILICONE | OIL AND O | OF A PURPLE |
| | color. Seals and brake hoses must | BE ESPECIALLY ADAPTE | d 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

| _ | | İ | | | CAU | ΓΙΟΝ | | i | |
|---|-----------|-------|-------|-------|-----------|-------------|----------|---------------|----------|
| - | Don't let | BRAKE | FLUID | GET I | N CONTACT | WITH PAINT, | IT IS AN | EFFECTIVE PAI | NT REMO- |
| | VER. | | | | | | | | |

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 WORN PO | DINT BRAKE PAD LININGS SHOULD NO | DT BE THINNER THAN 1 MM, |
| OTHERWISE THEY COULD | lead to brake failure. For you | r own safety don't put |
| OFF HAVING YOUR BRAKE | PADS CHANGED. | |

| ! | CAUTION | ļ |
|-------------------|-------------------------------------|------------------------------|
| IF THE BRAKE PADS | S ARE REPLACED TOO LATE SO THAT THE | LINING IS PARTLY OR ENTIRELY |
| WORN, THE STEEL | COMPONENTS OF THE BRAKE PAD WILL | RUB AGAINST THE BRAKE DISC. |

THEREBY IMPARING THE BRAKING EFFECT AND DESTROYING THE BRAKE DISC.

Replacing the rear brake pads *

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

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

| ⚠ | WARNING | \triangle |
|----------------------|----------------------------------|------------------------|
| It is very important | TO KEEP THE BRAKE DISK FREE FROM | OIL AND FATTY MATTERS. |

- OTHERWISE, THE BRAKING EFFECT WOULD BE STRONGLY REDUCED.
- AFTER ASSEMBLY, CHECK IF CIRCLIPS HAVE BEEN FITTED CORRECTLY.
- HAVING PERFORMED ANY WORK ON THE BRAKING SYSTEM, ONE MUST ALLWAYS ACTUATE THE HAND BRAKE LEVER OR FOOT BRAKE LEVER, RESPECTIVELY SO AS TO ENSURE THAT THE BRAKE PADS WILL LIE AGAINST THE BRAKE DISK AND THE PRESSURE POINT IS ESTABLISHED.

Dismounting and mounting the front wheel

- To remove the front wheel, jack the motorcycle up on its frame so that the front wheel no longer touches the ground.
- Loosen the collar screw 4

≙

- Loosen the 4 clamping screws 6 on the fork fists.
- Hold the front wheel, pull out the wheel spindle I wheel spindle wheel spindle may be pulled out more easily, if you slide an open-end wrench (17mm) onto the flat portion I of the wheel spindle.
- Remove front wheel carefully from the fork and take the speedometer drive \bullet off the hub.

| i | CAUTION | ļ |
|---------------|-------------------------------------|---------------------|
| NOT OPERATE 1 | THE HAND BRAKE WHEN THE ERONT WHEEL | HAS BEEN DISMOUNTED |

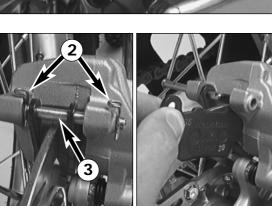
Do not operate the hand brake when the front wheel has been dismounted.

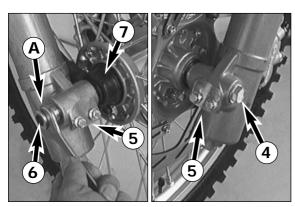
- Prior to mounting the front wheel, clean and grease sealing ring ③ and running surface ④ at the speedometer drive.
- Position front wheel and speedometer drive, and mount wheel spindle.
- Mount collar screw ④, turn speedometer drive in a way that the flexible speedometer shaft will curve upwards in a slight bow and tighten collar screw to 40 Nm (30 ft.lb).
- Take the motorcycle off the stand and bounce the fork hard a few times to align the fork legs
 - Then tighten clamping screws **③** to a max. torque of 7 Nm (5 ft.lbs)

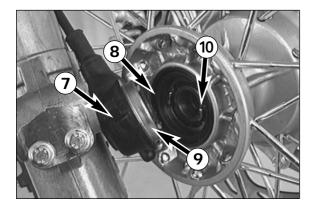
| VVARINING 4 | WARNING A |
|-------------|-----------|
|-------------|-----------|

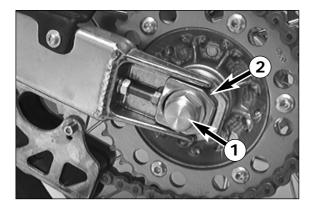
- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSI-BLE. A LOOSE AXLE MAY LEAD TO AN UNSTABLE DRIVING BEHAVIOR OF YOUR MOTORCYCLE.
- AFTER MOUNTING THE FRONT WHEEL, KEEP OPERATING THE HAND BRAKE UNTIL THE PRESSURE 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.

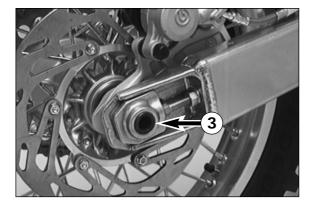


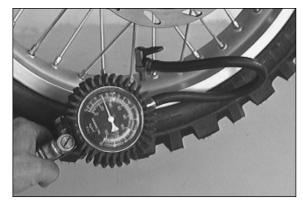












| TIRES-AIR PRESSURE | | | | |
|--------------------|---------|---------|--|--|
| | front | rear | | |
| Off road | 1,0 bar | 1,0 bar | | |
| Road driver only | 1,5 bar | 2,0 bar | | |

Dismounting and mounting the rear wheel

Jack the motorcycle up on its frame so that the rear wheel no longer touches the ground. Loosen the collar nut 1, remove chain tensioner 2, hold the rear wheel and pull out the wheel spindle 3 until the rear wheel is free but the brake caliper support is still held. Push the rear wheel as far forward as possible, take the chain from the chain wheel and carefully take the rear wheel out of the swingarm.

| ļ | CAUTION | ! |
|--------------------|------------------------------|-------------------------|
| Do not operate the | REAR BRAKE WHEN THE REAR WHE | el has been dismounted. |

IF THE AXLE IS DISMOUNTED, CLEAN THE THREAD OF THE WHEEL SPINDLE AND COLLAR NUT THOROUGHLY AND APPLY A NEW COAT OF GREASE TO PREVENT THE THREAD FROM JAMMING.

The rear wheel is remounted in 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.

| \land | WARNING | ⚠ |
|-----------------------|---------------------------|----------------------------|
| - IF YOU DON'T HAPPEN | N TO HAVE A TORQUE WRENCH | H AT HAND, MAKE SURE YOU |
| HAVE THE TIGHTENING | TORQUE CORRECTED BY A KTN | A dealer as soon as possi- |
| ble. A loose axle m | MAY LEAD TO AN UNSTABLE I | DRIVING BEHAVIOR OF YOUR |
| MOTORCYCLE. | | |

- AFTER MOUNTING THE REAR WHEEL, KEEP OPERATING THE REAR BRAKE UNTIL THE PRESSURE POINT RETURNS.
- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND FATTY MATTERS, FITHERWISE THE BRAKING FEFECTS WOULD BE STRONGLY REDUCED.
- TIGHTEN THE COLLAR NUT WITH THE REQUIRED TORQUE. A LOOSE WHEEL SPINDLE MAY LEAD TO AN UNSTABLE BEHAVIOR OF YOUR MOTORCYCLE.

Tires, air pressure

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

- Tire size can be found in the technical specifications and in their homologation certificate
- Tire condition has to be checked every time you want to ride your motorcycle. Before leaving, check tires for punctures and nails or other sharp objects that might have become embedded in them.
 - Refer to the specific regulations in your country for minimum tire tread requirements. We recommend you replace the tires at the latest when the tread is down to 2 mm (0.08 in).
- Tire pressure should be checked regularly on a "cold" tire. Proper pressure ensures optimum driving comfort and extends the life of your tires.

| | • | 5 | J |
|----|-----------|----------------------------------|-----------------------|
| | ⚠ | WARNING | ⚠ |
| Do | NOT MOUNT | TIRES WHICH HAVE NOT BEEN APPROV | ED BY KTM OTHER TIRES |

- COULD HAVE ADVERSE EFFECTS ON THE WAY YOUR MOTORCYCLE BEHAVES.
- FRONT AND REAR WHEELS MAY ONLY BE FITTED WITH TIRES HAVING THE SAME TREAD LAYOUT. USE HOMOLOGATED TIRES
- FOR YOUR OWN SAFETY REPLACE DAMAGED TIRES IMMEDIATELY.
- WORN TIRES CAN HAVE A NEGATIVE EFFECT ON HOW YOUR MOTORCYCLE PER-FORMS, ESPECIALLY ON WET SURFACES
- IF AIR PRESSURE IS TOO LOW, ABNORMAL WEAR AND OVERHEATING OF THE TIRE CAN **RESULT**



Checking spoke tension

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

WARNING Spokes can tear if you continue to ride with them loose. This may lead to an UNSTABLE HANDLING OF YOUR MOTORCYCLE.

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Fuse (CH, Singapore)

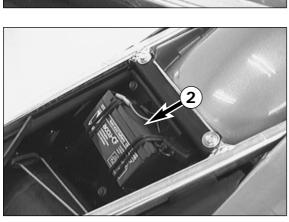
The fuse $\ensuremath{{\rm 0}}$ located below the seat protects the flasher system and the battery charge.

Nominal current: 10 A.

CAUTION

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Never use a stronger fuse. Never repair a fuse. Improper treatment can destroy the entire electrical system.



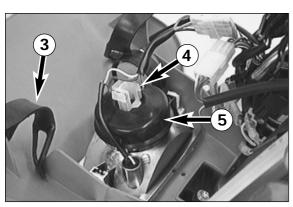
Battery (CH, Singapore)

The battery **2** is mounted in the air filter box. It is a high-quality maintenance-free battery.

To avoid oxidation of the battery contacts, grease them regularly with acidfree grease. Never open the valves! STORAGE:

Keep battery dry and clean. Charge it before storage. The best storage temperature is 0-35 °C. Recharge it after 16 months at the latest. If the battery has lost its charge, recharge it after one week at the latest. CHARGING:

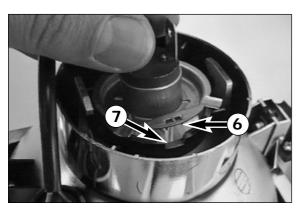
- Nominal voltage 12 V
- maximum charging current 0.3 Ampere
- recommended charging current 0.2 Ampere
- Charging time: 4-6 hours, depending on charging level.



Replacing headlight lamp (H4)

Loosen both rubber bands ③ and tilt headlight mask to the front. Remove bulb plug ④ and remove rubber cap ⑤. Turn the supporting ring counter-clockwise and remove it from the reflector together with the bulb.

Insert a new bulb such that the noses O fit into the recess O. Do not touch the glass body of the bulb, to keep if free from grease. Mount supporting ring, rubber cap and plug. Position headlight mask with the bottom holders, and fasten it with the rubber bands.



8

Cooling system

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

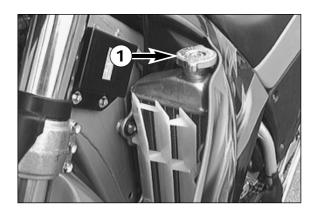
Bleeding of the cooling system is therefore required a) after adding more than 0.25 I cooling liquid and

b) after refilling the entire cooling system.

(see Bleeding the cooling system).

Some models are equipped with a thermostat ⁽³⁾ so that the engine reaches its operating temperature more quickly. When the engine is cold, the liquid coolant circulates in the cylinder, the cylinder head, and the left radiator (in EGS 250-380 models, only in the cylinder and the cylinder head). As soon as the cooling liquid has reached a temperature of approximately 55°C, the thermostat opens and the cooling liquid is also pumped through the two aluminum radiators.

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

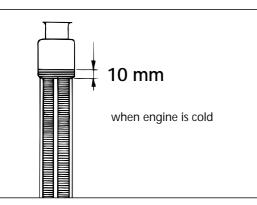


A mixture of 40% antifreeze liquid and 60% water is used as coolant. However, the anti-freeze protection must be at least for -25° C (-13° F). This mixture offers antifreeze protection but also good corrosion protection and should therefore not be replaced by pure water.

| CAUTION | | | i | | | |
|------------|--|--|---|--|--|-----|
| (0.7.F.) . | | | | | | Caa |

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

Pressure induced by heating of the coolant in the system is controlled by a valve in the radiator cap $\mathbf{\Phi}$; a water temperature of up to 120° C (248° F) is admissible therefore, having to expect any trouble.



Checking the coolant level

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

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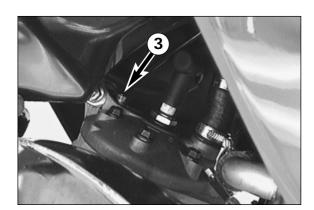
IF POSSIBLE, ALWAYS CHECK LEVEL OF COOLING LIQUID WHEN ENGINE IS COLD. IF YOU HAVE TO OPEN THE RADIATOR CAP WHEN THE ENGINE IS HOT, USE A RAG TO COVER THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE.

| | i | CAUT | ION | | i | |
|-------------|-------------|---------------|------------|-------------|-----------|---------|
| THE COOLING | SYSTEM MUST | BE BLED AFTER | DRAINING 1 | THE COOLING | LIQUID OF | R AFTER |
| ADDING MORE | THAN 0.25 L | (0.06 US GALL | омѕ) сооц | ING LIOUID. | | |

Bleeding the cooling system

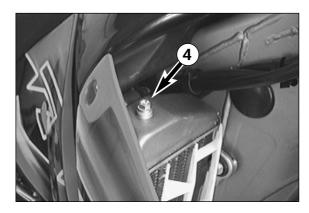
The cooling system must be bled as described below after draining of the cooling liquid or after adding more than 0.25 I (0.06 US gallons) cooling liquid.

- Make sure that the drain screw **2** is fastened.
- Pour approx. 0.5 litres (0.13 US gallons) coolant into the system.



2

 Remove screw ③ at the cylinder head. Reinstall it as soon as the cooling liquid emerges free of air bubbles (only for 125/200 engines).



- Remove the screw

 Remove the screw

 not the right radiator and tilt the motorcycle to the right approx. 30 degree angle.
- Now add cooling liquid until it emerges free of bubbles at the right radiator. Then immediately mount the screw so that no more air can enter the right radiator.
- Return the motorcycle to its original position and top up the left radiator until the coolant can be seen approx. 10 mm (0.4 in) above the radiator fins.
- Check the coolant level again after a short ride.

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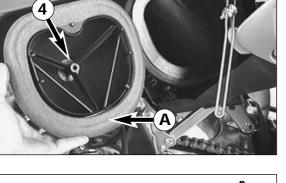
The air filter must be cleaned prior to every race or whenever the motorcycle has been exposed to great quantities of dust.

For this purpose, rotate the two quick-release fasteners **1** counter-clockwise and pull them outward up to the stop, pull the filter box cover forward and remove it. Unhook the filter holding brackets **2** at the bottom, swing them sideways and take the air filter **3** together with the filter support **4** out of the filter box.

| ! CAUTION ! | |
|---|------|
| Do not clean foam filter with fuel or petroleum since these will damage | THE |
| FOAM. KTM RECOMMENDS THE PRODUCTS MADE BY PUTOLINE FOR AIR FI | LTER |
| MAINTENANCE. "ACTION CLEANER" FOR CLEANING PURPOSES AND "ACTION FLUID" | ТО |
| OIL THE FOAM FILTER. | |

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

Mount the air filter on the filter support. Apply grease to the face **(**) of the filter to improve its sealing properties. Mount the filter together with the filter support in the filter box, making sure to properly center them, and fix them with the filter holding bracket.



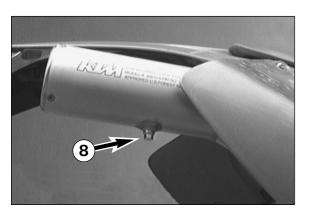
Exhaust system *

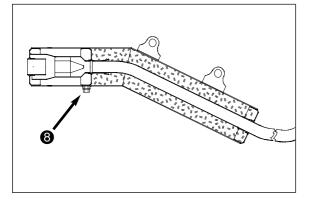
Cleaning the air filter *

Silencers whose caps **⑤** is detachable are filled with glass-fiber yarn. Check this packing in regular intervals. Glass-fiber yarn that is too loose may cause a drop in performance and curtail the silencer's silencing effect. To replace the glass-fiber yarn packing **⑥**, remove the silencer cap and pull off the outer tube **⑦**. Use adhesive tape to attach the new glass-fiber yarn packing to the inner tube, and slide on outer tube. Mount silencer cap. Glass-fiber yarn packings are available at your authorized KTM dealer.

| ⚠ | WARNING | ⚠ | |
|---|---------|---|--|
| | | | |

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





Cleaning the spark arrestor (EXC USA) *

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

After assembling the silencer, remove the plug ③ and start the motorcycle. Close the opening of the muffler with a rag and press the accelerator approximately 20 times. The carbon deposits will be blown out through the opening. Then turn off the engine and let the exhaust system cool down. Grease the plug with molycote grease and mount the plug.

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Carburetor adjustment *

Basic information on the original carburetor setting

The original carburetor setting was adapted for an altitude of approx. 500 meters (1600 ft.) above sea level, and the ambient temperature of approx. 20° C (68° F), mainly for off-road use and central European premium-grade fuel (ROZ 98 respectively 95 MOZ). Mixing ratio 2-stroke motor oil : super fuel 1:40 (125), 1:40 – 1:60 (200/250/300/380).

Basic information on a change of the carburetor setting

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

| A | | |
|---|-----------------|--------------------------|
| low altitude or low temperatures | | er carburetor adjustment |
| RULE OF THUMB: high altitude or high temperatures | s → choose lean | er carburetor adjustment |
| , | 3 | 5 5 1 |

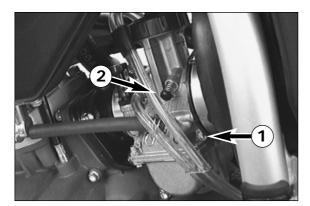
| | | ∆ |
|---|---|--|
| - | Only use premium-grade gasoline ROZ 98 respectively 95 mixed with high-grade two- | stroke engine oil. Other types of gasoline can |
| | CAUSE ENGINE FAILURE, AND USE OF SAME WILL VOID YOUR WARRANTY. | |

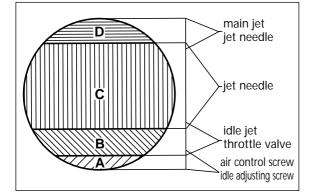
- ONLY USE HIGH-GRADE 2-STROKE ENGINE OIL OF KNOWN BRANDS (i. e. Shell Advance Racing X).
- Not enough oil or low-grade oil can cause erosion of the piston. Using too much oil, the engine can start smoking and foul the spark plug and the exhaust control system.
- IN THE CASE OF A LEANER ADJUSTMENT OF THE CARBURETOR PROCEED CAUTIOUSLY. ALWAYS REDUCE THE JET SIZE IN STEPS OF ONE NUMBER TO AVOID OVERHEATING AND PISTON SEIZURE.

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

Basic information on carburetor wear

As a result of engine vibrations, throttle valve, jet needle, and needle jet are subjected to increased wear. This wear may cause carbu-





Definitions

Mixture too rich:

Too much fuel in proportion to air.

Mixture too lean:

Not enough fuel in proportion to air.

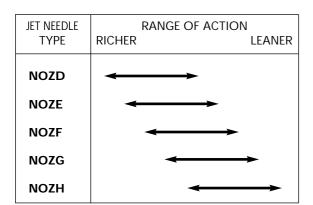
Idling range A

Operation with closed throttle valve. This range is influenced by the position of the air control screw ① and the idle adjusting screw ②. Only make adjustments when the engine is hot.

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

Opening up **B**

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



60°

Part-throttle range C

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

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

Full throttle range **D**

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

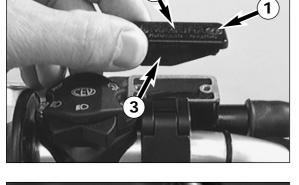
Checking the float level *

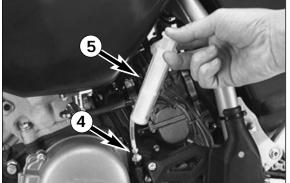
Arrange the Keihin carburetor diagonally at about 60° so that the spring in the float needle valve is not pressed together. In this position, the edge of the float should be parallel with the float chamber sealing surface (see illustration).

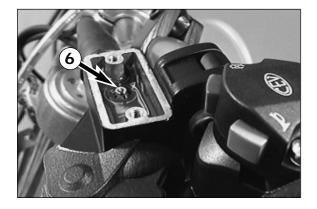
Checking the oil level of the hydraulic clutch

To check the oil level in the master cylinder of the clutch remove the cover. For this purpose, remove screws 1 and cover 2 together with the rubber boot **3**. The oil level in the horizontal master cylinder should be 4 mm below the upper edge. If necessary add SAE 10 hydraulic oil

| | CAUTION | ! |
|---------------------------|-------------------------------|-------------------------|
| Only use SAE 10 mineral | HYDRAULIC OIL (Shell Naturell | e HF-E15) to refill the |
| MASTER CYLINDER. NEVER US | SE BRAKE FLUID! | |







Bleeding of the hydraulic clutch

For bleeding, the cover of the master cylinder of the clutch needs to be removed. For this purpose, remove screws **1** and take off cover **2** together with rubber bellows 3. At the slave cylinder of the clutch, remove the bleeder nipple **4**. It its place, mount the bleeder syringe **5** which is filled with SAE 10 hydraulic oil. Refill oil, until oil is discharged from the bore ⁽⁶⁾ of the master cylinder in a bubble-free state. Make sure that the oil does not overflow. The bleeder syringe can be purchased at your KTM dealer.

| | • | | |
|---|-------|----|---|
| ! | CAUTI | ON | ! |
| | | | |

HAVING COMPLETED THE BLEEDING PROCEDURE, YOU HAVE TO VERIFY THAT THE OIL LEVEL IN THE MASTER CYLINDER IS CORRECT. FOR FILLING OF THE MASTER CYLINDER, USE SAE 10 MINERAL HYDRAULIC OIL ONLY; NEVER USE BRACKE FLUID!

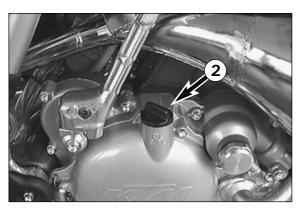


Check transmission oil level (125/200)

In order to check the transmission oil level the control screw **1** on the clutch cover is to be removed. Oil should just barely escape from the inspection opening when the motorcycle is in an upright position. If necessary, remove the plug 2 and top up with engine oil 20W-40 (i. e. Shell Advance VSX 4).

| | i | | | С | CUA | 10 | N | | | i. | | | |
|--------------|-----|--------|------|----|---------|----|-----------|------|-----|-------|----|-----|-----|
| Fransmission | AND | CLUTCH | WILL | BE | SUBJECT | то | AXCESSIVE | WEAR | AND | TEAR, | IF | YOU | USE |

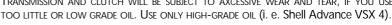
Ŧ TOO LITTLE OR LOW GRADE OIL. USE ONLY HIGH-GRADE OIL (i. e. Shell Advance VSX 4).

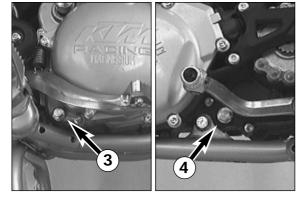


Changing the transmission oil (125/200) *

To change the gear oil warm up the engine and park the motorcycle on a horizontal surface. Remove oil drain plugs 3 and 4 and drain the used oil into an appropriate container. Clean the magnets of the oil drain plugs and mount them together with the appropriate gaskets. Fill in 0.7 I engine oil 20W-40 (Shell advance VSX 4), mount the plug 2 and check the engine for leaks.

| | i | | | С | AUT | 10 | ON | | | i | | | |
|--------------|-----|--------|------|----|---------|----|-----------|------|-----|-------|----|-----|-----|
| Transmission | AND | CLUTCH | WILL | BE | SUBJECT | ТО | AXCESSIVE | WEAR | AND | TEAR, | IF | YOU | USE |

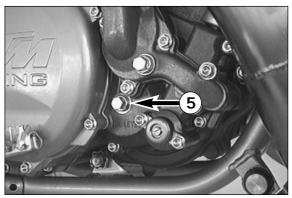


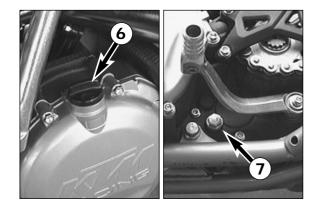


Check transmission oil level (250/300/380)

In order to check the transmission oil level the control screw **(5)** on the clutch cover is to be removed. Oil should just barely escape from the inspection opening when the motorcycle is in an upright position. If necessary, remove the plug (and top up with engine oil 20W-40 (i. e. Shell Advance VSX 4)

| the plug | | op up with engine on 2000-40 (i. c. 5he | |
|------------|--------|---|----------------------|
| | i | CAUTION | ļ |
| Transmissi | ON AND | CLUTCH WILL BE SUBJECT TO AXCESSIVE WEAR | AND TEAR, IF YOU USE |
| TOO LITTLE | OR LOW | GRADE OIL. USE ONLY HIGH-GRADE OIL (I. e. S | hell Advance VSX 4). |





Changing the transmission oil (250/300/380) *

To change the transmission oil run the engine warm and set up the motorcycle on a horizontal surface. Remove the oil drain screw **1** and drain used oil into a container. Clean the magnet of the oil drain screw and reinstall oil drain screw with seal. Pour in 0.8 litres (0.21 US gallons) engine oil 20W-40 (i. e. Shell Advance VSX 4), replace plug 6 and check engine for leaks.

| i | CAUTION | ļ | |
|---|---------|---|--|
| | | | |

TRANSMISSION AND CLUTCH WILL BE SUBJECT TO AXCESSIVE WEAR AND TEAR, IF YOU USE TOO LITTLE OR LOW GRADE OIL. USE ONLY HIGH-GRADE OIL (i. e. Shell Advance VSX 4).

CLEANING

Clean your motorcycle regularly in order to keep its painted finish looking shiny and new.

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

CAUTION

- Never clean your motorcycle with a high-pressured cleaner or a high-pressured water jet. Otherwise The water might run into the electrical components, connectors, sheathed cables, bearings, carburetor etc. and cause mailfunctions, i.e., lead to the premature destruction of these parts.
- You should use commercially available detergents to clean the motorcycle. Heavily soiled parts should also be cleaned with the help of a paint brush.
- After the motorcycle has been rinsed with a soft water jet, it should be dried by air pressure and a cloth. Then take a short drive until the engine has reached its operating temperature, and also operate the brakes. The heat also causes the water at the inaccessible parts of the engine and the brakes to evaporate.
- Slide back the protective covers on the handlebar-mounted instruments so that any water that may have seeped into this part of the motorcycle is allowed to evaporate.
- After the motorcycle has cooled down, oil and grease all the gliding bearing parts. Also treat the chain with a chain spray.
- To prevent failures in the electric system, you should treat the ignition lock, the short circuit switch, the short circuit button, and the light switch with a 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 after each riding and let it dry
- 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.

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CAUTION

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

STORAGE

If you want to put your motorcycle away for longer periods of time, please observe the following instructions:

- Clean motorcycle thoroughly (see chapter: CLEANING)
- Change engine oil, oil filter and micro filter (old engine oil contains aggresive contaminations).
- Check antifreeze and amount of cooling liquid.

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- Let the engine warm up again, close fuel tap and wait until the engine dies off by itself. In this way, the carburetor jets are prevented from becoming resin-clogged by the old fuel.
- Remove spark plug and fill in approx. 5 ccm of engine oil into the cylinder through the opening. Actuate kick-starter 10 times in
 order to distribute the oil onto the cylinder walls and mount the spark plug.
- Let fuel flow out of tank into an appropriate basin.
- Correct tire pressure.
- Lubricate bearing points of the control levers, foot rests, etc. as well as the chain.
- Service the rear suspension linkage
- Disassemble and charge battery (see chapter: BATTERY).
- NOTE: Only the following models are equipped with a battery: EGS Singapore, EGS Switzerland.
- The storage place should be dry and not be subject to overly great temperature fluctuations.
- Cover the motorcycle with an air permeable tarpaulin or blanket. Do not use non-air-permeable materials, as possible humidity might not be able to escape and thereby cause corrosion.

CAUTION

It would be very bad to let the engine run for a short time during the storage period. The engine would not get warmed up enough and the thus developed steam would condense during the combustion process and cause the exhaust to rust.

USE AFTER PERIOD 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.

ENGLISH

| | 125 SX | 125 EXC | 125 EGS | 200 MXC | 200 EXC | 200 EGS |
|-----------------------------|------------------|----------------------|------------------------|-----------------------|-------------------------|-------------------------|
| Frame | | | Central chrome- | moly-steel frame | * | |
| Fork | WP Extreme | | Marzocchi Magr | num 45 Code 91 | | |
| Wheel travel front/rear | 280 / 320 mm | | 285 / 3 | 320 mm | | |
| | (11.0 / 12.6 in) | | (11.2 / | 12.6 in) | | |
| Rear suspension | | WP Progressiv | e Damping System sl | hock absorber, alumir | nium swingarm | |
| Front brake | | Disc brake with carb | oon-steel brake disc 🕯 | ð 260 mm (10.2 in), l | orake caliper floated | |
| Rear brake | | Disc brake with car | bon-steel brake disc | Ø 220 mm (8.7 in), b | rake caliper floated | |
| Front tires | 80/100 - 21" 51M | 90/90 - 21" 54R | 90/90 - 21" 54R | 80/100 - 21" 51M | 90/90 - 21" 54R | 90/90 - 21" 54R |
| Air pressure offroad | 1.0 bar (14psi) | 1,0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) |
| Air press. road driver only | - | 1,5 bar (21psi) | 1,5 bar (21psi) | - | 1.5 bar (21psi) | 1.5 bar (21psi) |
| Rear tires | 100/90 - 19" 57M | 120/90 - 18" 65R | 120/90 - 18" 65R | 100/100 - 18" 59M | 120/90 - 18" 65R | 120/90 - 18" 65R |
| Air pressure offroad | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) | 1.0 bar (14psi) |
| Air press. road driver only | - | 2.0 bar (28psi) | 2.0 bar (28psi) | | 2.0 bar (28psi) | 2.0 bar (28psi) |
| Fuel tank capacity | 7.5 liter | 9.5 liter | 9.5 or 12 liter | 12 liter | 9.5 or 12 liter | 9.5 or 12 liter |
| | (2 US Gallons) | (2.5 US gallons) | (2.4 US gallons) | (3.2 US gallons) | (2.5 or 3.2 US gallons) | (2.5 or 3.2 US gallons) |
| Final drive ratio | 13:50t | 13:50t | 14:38t | 14:48t | 14:48t | 14:38t |
| Chain | | | 5/8 x | 1/4 " | | |
| Available final sprockets | | | 38t, 40t, 42t, 4 | 5t, 48t, 50t, 52t | | |
| Steering head angle | | | 6 | 3° | | |
| Wheel base | | | 1461 ± 10 mm | n (57.3 ± 0,4 in) | | |
| eat height, unloaded | | | 925 mm | (36.4 in) | | |
| Ground clearance, unloaded | | | 385 mm | (15,2 in) | | |
| Dead-weight without fuel | 92 kg | 96 kg | 100 kg | 96 kg | 97 kg | 101 kg |
| | (203 lbs) | (212 lbs) | (221 lbs) | (212 lbs) | (214 lbs) | (223 Ibs) |
| | | | | | | |

| Stani | dart Adjustment- | Fork |
|-----------------------|------------------|------------------|
| | Marzocchi 91 | WP 918T767 |
| Compression adjuster | 15 | 12 |
| Rebound adjuster | 15 | 12 |
| Spring | 4.0 N/mm | 4.0 N/mm |
| Spring preload | 10 mm (0.4in) | 5 mm (0.2in) |
| Air chamber length | 140 mm (5.5in) | 150 mm (5.9in) |
| Capacity per fork leg | appropx. 600 ccm | appropx. 750 ccm |
| Fork oil | SAE 7.5 | SAE 5 |

| Standard | Adjustment - Sho | ok A bsorber |
|----------------------|------------------|---------------------|
| | WP 1218T711 | WP 1218T713 |
| Compression adjuster | 5 | 6 |
| Rebound adjuster | 14 | 14 |
| Spring | PDS2-250 | PDS1-250 |
| Spring preload | 5mm (0.2 in) | 6 mm (0.23 in) |

NOTE:

The damping units in the left and the right fork leg are of different design. Make sure not to mix them up in case of repair or service jobs.

| TOR | QUES | | |
|--|-------------|----------------|--------------------------|
| Collar screw front wheel spindle | M 10 | 40 Nm | (30 ft.lb) |
| Brake caliper front | M 8 | 25 Nm | (19 ft.lb) |
| | | + | Loctite 242 |
| Clamping screws upper fork bridge | M 8 | 15 Nm | (11 ft.lb) |
| Clamping screws lower fork bridge | M 8 | 20 Nm | (15 ft.lb) |
| Clamping screws fork stubs (Marzocchi) | M 6 | 7 Nm | (5 ft.lb) |
| Clamping screws fork stubs (WP Extreme) | M8 | 10 Nm | (7 ft.lb) |
| Collar nut rear wheel spindle | M 20x1.5 | 80 Nm | (59 ft.lb) |
| Hexagon nut swing arm bolt | M 14x1.5 | 100 Nm | (74 ft.lb) |
| Shock absorber top | M 12 | 60 Nm | (44 ft.lb) |
| Shock absorber bottom | M 12 | 40 Nm | (30 ft.lb) |
| Other screws on chassis | M 6 | 10 Nm | (7 ft.lb) |
| | M 8 M 10 | 25 Nm 45 Nm | (19 ft.lb) (33 ft.lb) |

TECHNICAL DATA - ENGINE 125 / 200 '99

| Engine | 125 SX | 125 EXC | 125 EGS | 200 MXC | 200 EXC, EGS |
|--|----------------------------|---|---|--|--------------------------------------|
| Design | | Liquid-cooled single-cyl | single-cylinder two-stroke engine with intake and exhaust control | ake and exhaust control | |
| Piston displacement | | 124.8 ccm | | 193 | 193 ccm |
| Bore / stroke | | 54.25 / 54 mm (2.136 / 2.126 in) | | 64 / 60 mm (2 | / 60 mm (2.52 / 2.362 in) |
| Fuel | SUPER fuel, resear | SUPER fuel, research octane no 98, mixed with high gr | with high grade two stroke oil | SUPER fuel, research octane no 95, mixed with high grade two stroke | nixed with high grade two stroke oil |
| Oil / gasolin ratio | 1:40 | 1:40 when using high grade two stroke c | il (Shell Advance Racing X). Whe | two stroke oil (Shell Advance Racing X). When in doupt, please contact your importer | oorter |
| Crankshaft bearing | | 1 deep-gr | 1 deep-groove ball bearing / 1 cylinder roller bearing | er bearing | |
| Connecting rod bearing | | | needle bearing | | |
| Piston pin bearing | | | needle bearing | | |
| Piston | | | cast piston | | |
| Piston ring | one plain compression ring | | two plain con | two plain compression rings | |
| Dimension "X" (upper edge piston - upper edge cylinder) | | 0.60 mm (0.024 in) | | 0.55 | 0.55 mm (0.22 in) |
| Ignition timing | | 1.4 mm (0.055 in) (16.5°) BTDC | | 1.6 mm (0.063 | 1.6 mm (0.063 in) (17°) BTDC |
| Spark plug | | NGK R 6918-B8 | | NGK BR 8 EG | R 8 EG |
| Electrode gap | | | 0.60 mm (0,024 in) | | |
| Dimension "Z" (height of the control flap) | | 42 mm (1.65 in) | | 46 mm | 46 mm (1.81 in) |
| Primary drive | | straig | straight cut spur gears, primary ratio 23:73 | 23:73 | |
| Clutch | | multiple disc clu | tiple disc clutch in oil bath, hydraulic operated (Shell HF-E15) | d (Shell HF-E15) | |
| Transmission | | | 6 speed, claw actuated | | |
| Gear ratio | | | | | |
| 1st gear | 13:32 | | 33 | • • | 12:33 |
| 2nd gear 3rd gear | 15:30 | | 31 28 | | 15:31 |
| 4th gear | 19:26 | | 26 | | 19 |
| 5th gear 6th gear | 21:25 22:24 | 21: | 25 20 | 21 : 25 22 : 23 | 22 : 25 / 17 : 19 22 : 20 |
| Gear lubrication | | 0.7 l er | engine oil 20W-40 (Shell Advance VSX4) | VSX4) | |
| Available chain sprockets | | | 13t / 14t / 15t for chain $5/8 \times 1/4$ " | | |
| Coolant | | 1.2 litres, 40% | 40% anti freeze, 60% water, at least | -25 °C (-13 °F) | |
| Ignition system | KOKUSAN 2K-1 | USA: KOKUSAN 2K-2 EU: KOKUSAN 2K-3 | KOKUSAN 2K-3 | KOKUSAN 2K-2 | KOKUSAN 2K-3 |
| Generator output | no generator | 12V 40 W 12V / 110 W | 12V 110 W | 12V 40 W | 12V 110 W |
| Carburetor | | flat-slide | flat-slide carburetor, carburetor setting see table | ee table | |
| Air-filter | | | wet foam type air filter insert | | |
| | | | | | |

| TOLERANCES AND FITTING CLEARANCES | ARANCES |
|---|-------------------------------------|
| Piston fitting clearance | 125 = 0.06 mm 200 = 0.085 mm |
| Piston ring end cap | max. 0.40 mm |
| Connecting rod bearing - radial clearance | 0.025-0.035 mm |
| Transmission shafts end float | 0.20-0.40 mm |
| Clutch springs - length | new = 39 mm, minimum length = 38 mm |

| GASKET THICKNESSES | |
|---------------------------|---|
| Crankcase | 0,5 mm |
| Clutch cover | 0,5 mm |
| Clutch driving cylinder | 0.30 / 0.50 / 0.75 mm |
| Cylinder bottom gasket | as required |
| Available bottom gasket | 0,07 / 0.15 / 0.20 / 0.25 / 0.40 / 0.50 / 0.75 mm |
| Cylinder-head gasket | 1.10 mm + O-ring |
| | |

| TIGHTENING TORQUES | | | |
|--------------------------------------|-----------|--------|-------------|
| Flange bolts - cylinder-head | M 7 | 18 Nm | (25 ft.lb) |
| Nuts-cylinder base | M 8 | 30 Nm | (22 ft.Ib) |
| Flywheel collar nut | M 12x1 | 60 Nm | (44 ft.Ib) |
| Nut for primary sprocket (LH thread) | M 16x1.5 | 180 Nm | (133 ft.lb) |
| Nut for inner clutch hub | M 18x1.5 | 120 Nm | (88 ft.Ib) |
| Crankcase and clutch cover bolts | M 6 | 8 Nm | (6 ft.lb) |
| Spark plug | M 14x1.25 | 20 Nm | (14 ft.lb) |
| Nut swingarm pivot | M 14x1.5 | 100 Nm | (74 ft.lb) |
| Other screws | M 6 | 10 Nm | (7 ft.lb) |
| | M 8 | 25 Nm | (19 ft.lb) |
| | M 10 | 45 Nm | (33 ft.lb) |

| BASIC CARBURETOR SETTING | OR SETTING | | | | | | |
|---------------------------------|--------------------------------------|---|------------------------------|--|-----------------------|-------------------------|-----------------------|
| | 125 SX, EXC USA 125 EGS AUSTRALIA | 125 SX, EXC EUROPE | 125 EGS | 200 MXC, EXC USA | 200 EXC EUROPE | 200 EGS | 200 EGS AUSTRALIA |
| Carburetor | Keihin PWK 39 | Keihin PWK 39 | Keihin PWK 39 | Keihin PWK 39 | Keihin PWK 39 | Keihin PWK 39 | Keihin PWK 39 |
| Carburetor setting number | 120598 | 160598 | 130598 | 140598 | 170598 | 150598 | 140598 |
| Main jet | 190 (188/192/195) | 190 (188/192/195) | 150 (188/190/192/195) | 180 (175/178/182/185) | 180 (175/178/182/185) | 180 (175/178/182/185) | 180 (175/178/182/185) |
| Idling jet | 48 (45/50) | 48 (45/50) | 45 (48/50) | 45 (42/48) | 45 (42/48) | 45 (42/48) | 45 (42/48) |
| Starting jet | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| Jetneedle | NOZH (NOZF/NOZG/NOZI) | NOZH (NOZF/NOZG/NOZI) NOZF (NOZG/NOZH/NOZI) | R1471J (NOZF/NOZG/NOZH/NOZI) | R1471J (NDZF/NOZG/NDZH/NDZJ) NOZH (NOZG/NOZI) NOZG (NOZH/NOZI) | (IZON/HZON) 9ZON | R1472J (NOZG/NOZH/NOZI) | (IZON/9ZON) HZON |
| Needle position from top | Ξ | = | 2 | Ξ | = | 2 | = |
| Throttle valve | 9 | 6 | 9 | 9 | 9 | 9 | 6 |
| Air adjustment screw top | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 | 1,5 |
| Performance restrictor | 1 | I | 1 | I | I | slide stop 36mm | slide stop 36mm |

HSITSNE 29

ENGLISH 30

TECHNICAL DATA - ENGINE 250/300/380 SX/MXC/EXC '99 (only USA)

| Engine | 250 SX | 250 EXC, MXC | 300 EXC, MXC | | 380 SX | 380 EXC, MXC |
|--|------------------|---|---|----------------------|---|--|
| Design | Liquid-c | Liquid-cooled single-cylinder two-stroke (| engine with KTM Twin Val | ve Control exh | stroke engine with KTM Twin Valve Control exhaust system and KTM Torque Chamber | Chamber |
| Piston displacement | 249 | 249 ccm | 297 ccm | | 368 (| ccm |
| Bore / stroke | 67.5 / 69.5 mr | 67.5 / 69.5 mm (2.66 / 2.74 in) | 72 / 73 mm (2.84 / : | 2.88 in) | 78 / 77 mm (3 / | (3 / 2.98 in) |
| Fuel | | SUPER fuel, research octane n | o 95, mixed with high-gra | de two stroke o | ctane no 95, mixed with high-grade two stroke oil (Shell Advance Racing X) | |
| Oil / gasolin ratio | 1:50 - 1:60 when | 1:50 - 1:60 when using high grade two stroke oil. | When in doupt, please co | ntact your impo | oke oil. When in doupt, please contact your importer or use 1:40 mix ratio to be on the safe side | be on the safe side |
| Crankshaft bearing | | 1 deep | 1 deep-groove ball bearing / 1 cylinder roller bearing | linder roller bea | aring | |
| Connecting rod bearing | | | needle bearing | | | |
| Piston pin bearing | | | needle bearing | | | |
| Piston | cast | cast piston | forged piston | | cast p | piston |
| Piston ring | | | two plain compression rings | in rings | | |
| Dimension "X" (upper edge piston - upper edge cylinder) | | | 0 +0.1 mm (0 + 0.004 in) | 04 in) | | |
| Ignition timing | 1.8 mm (0.07 | 1.8 mm (0.07 in) (17 °) BTDC | 2.0 mm (0.08 in) (17°) | °) BTDC | 2.2 mm (0.09 in) | in) (17 °) BTDC |
| Spark plug | | | NGK BR 8 ECM | ٧ | | |
| Electrode gap | | | 0.6 mm (0.024 in) | (u | | |
| Dimension "Z" (height of the control flap) | 48 mm | 48 mm (1.9 in) | 46 mm (1.7 in) | | 50.5 mm | 50.5 mm (1.99 in) |
| TVC start open TVC fully open | 540 755 | 5400/min 7550/min | 5300/min 7750/min | | 5200 | 5200/min 7200/min |
| Primary drive | stra | straight cut spur gears, primary ratio 25:72 | 25:72 | | straight cut spur gear | straight cut spur gears, primary ratio 26:72 |
| Clutch | | multiple disc | multiple disc clutch in oil bath, hydraulic operated (Shell HF-E1 | c operated (She | ell HF-E15) | |
| Transmission | | | 5 speed, claw actuated | ated | | |
| Gear ratio | | | | M-XC | | |
| 1ª Gear | 15:29 | 15:29 | | :29 | 15:29 | |
| Z ^m Gear | 17.27 10 JR | 18:20 | | 07:0 | 10:20 | |
| 4th Gear | 21:23 | 21:20 | 21:20 21 | 21:23 | 21:23 | 21:20 21:23 |
| 5 th Gear | 23:21 | 23:18 | | 23:21 | 23:21 | |
| Gear lubrication | | 0.8 | l engine oil 20W-40 (Shell Advance VSX4) | Advance VSX4 | († | |
| Available chain sprockets | | | 13t / 14t / 15t for ch | for chain 5/8 x 1/4" | | |
| Coolant | | 1.3 litres, 40 | itres, 40% anti freeze, 60% water, at least -25 | -, at least -25 °C | C (-13 °F) | |
| Ignition system | KOKUSAN 2K-1 | КОКГ | KOKUSAN 2K-2 | | KOKUSAN 2K-1 | KOKUSAN 2K-2 |
| Generator output | no generator | 12' | 12V 40W | | no generator | 12V 40W |
| Carburetor | | flat-sl | flat-slide carburetor, carburetor setting | setting see table | e 3 | |
| | | | the second the second to the second | | | |

| TOLERANCES AND FITTING CLEARANCES | :LEARANCES | |
|---|---|------------------|
| Piston fitting clearance | 0.05 mm (250) 0.06 mm (300) 0.08 mm (380) | 0) 0.08 mm (380) |
| Piston ring end gap | 0.3-0.4 mm | |
| Connecting rod bearing - radial clearance | 0.021 – 0.032 mm | |
| Transmission shafts end float | 0.1-0.2 mm | |
| Clutch springs - length | \emptyset 2.5 new = 43 mm, minimum length = 42 mm | m length = 42 mm |

| TIGHTENING TORQUES | | |
|---|----------|--------------------------------|
| Flange bolts - cylinder-head | M 8 | 35 Nm (25 ft.lb) |
| Nuts-cylinder base | M 10 | 35 Nm (25 ft.lb) |
| Flywheel collar nut | M 12x1 | 60 Nm (44 ft.lb) |
| Nut for primary sprocket (LH thread) | M 18x1.5 | Loctite 242 150 Nm (110 ft.lb) |
| Nut for inner clutch hub | M 18x1.5 | Loctite 242 100 Nm (74 ft.lb) |
| Crankcase and cover bolts | M 6 | 8 Nm (6 ft.lb) |
| Swingarm pivot | M 14 | 100 Nm (74 ft.lb) |
| Flat head screw release plate kickstarter | M 6x16 | Loctite 648 19 Nm (14 ft.lb) |
| Other screws | M 6 | 10 Nm (7 ft.lb) |
| | Μ 8 | 25 Nm (19 ft.lb) |
| | M 10 | 45 Nm (33 ft.lb) |

| GASKET THICKNESSES | |
|-----------------------------------|--------------------|
| Crankcase | 0.5 mm |
| Clutch cover | 0.5 mm |
| Cylinder bottom gasket | as required |
| Available cylinder bottom gaskets | 0.2/0.4/0.5/0.7 mm |
| Cylinder-head gasket | O-rings |
| | |

| BASIC CARBURETOR SETTING | TOR SETTING | | |
|---------------------------------|---------------------|------------------------------|--------------------|
| | 250 SX | 250 MXC, EXC 300 MXC, EXC | 380 SX, MXC, EXC |
| Carburetor | Keihin PWK 38 | Keihin PWK 38 | Keihin PWK 38 |
| •• Carburetor setting number | nber 090598 | 100598 | 070598 |
| Main jet | 172(168,170,175) | 175(170,172,178) | 170(168,172,175) |
| Idling jet | 45(48,50) | 45(42,48) | 48(45,50) |
| Starting jet | 85 | 85 | 85 |
| Jet needle | NOZ G(NOZ H, NOZ I) | N85 C(N85 D) | NOZ H(NOZ G,NOZ I) |
| Needle position from top | top II | ≡ | = |
| Throttle valve | 6 | 6 | 9 |
| Air adjustment screw open | pen 1,5 | 1,5 Umdr. | 1,5 Umdr. |

HSIJSN3

ENGLISH 32

TECHNICAL DATA - ENGINE 250/300/380 SX/EXC/EGS '99 (all models out of USA)

| Int 67.5 / 0 D 1.50 - 1.0 Be pletteric 11.50 - 1.0 Int 1.9 mm (0.07 in) (17 °) Interplete 17.27 Interplete 19.25 Stets 231.23 Stets 231.21 Stets XOKUSAN 2K-1 | | 300 EXC, EGS | 380 SX | 380 EXC, EGS |
|--|--|--|---|---------------------------------|
| Splacement 249 cc oke 67.5 / 69.5 mm (2 oke 67.5 / 69.5 mm (2 oline ratio 1:50 - 1.60 when us ift bearing 11.50 - 1.60 when us ng rod bearing cast pist ng rod bearing cast pist ng rod bearing 1,9 mm (0.07 in) (17 °) BTDC 1 ug 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 uning 1,9 mm (0.07 in) (17 °) BTDC 1 | ooled single-cylinder two-stroke engi | ine with KTM Twin Valve Control | Liquid-cooled single-cylinder two-stroke engine with KTM Twin Valve Control exhaust system and KTM Torque Ch. | Chamber |
| Coke 67.5 / 69.5 mm (2 oline ratio 1:50 - 1.60 when us if bearing 1.50 - 1.60 when us ng rod bearing ncast pist n bearing ncast pist n bearing ncast pist n bearing not obtain n bearing ncast pist n bearing 1,9 mm (0.07 in) (17 °) BTDC n bearing 1,9 mm (0.07 in) (17 °) BTDC n ''." (upper edge pitton: 1,9 mm (0.07 in) (17 °) BTDC n''." (upper edge pitton: 1,9 mm (0.07 in) (17 °) BTDC n''." (upper edge pitton: 1,9 mm (0.07 in) (17 °) BTDC n''." (upper edge pitton: 1,9 mm (0.07 in) (17 °) BTDC n''." (upper edge pitton: 1,9 mm (1.1 °) n''." (upper edge pitton: | ccm | 297 ccm | 368 ccm | u |
| oline ratio 1:50 - 1.60 when us nft bearing 1:50 - 1.60 when us ng rod bearing cast pist n bearing cast pist n bearing cast pist n bearing 1,9 mm (0.07 in) (17 °) BTDC 1 uper edge gitters 1 in "X "upper edge gitters 1 in "Y "upper edge gitters 1 | (2.66 / 2.74 in) | 72 / 73 mm (2.84 / 2.88 in) | 78 / 77 mm (3 | / 2.98 in) |
| oline ratio 1:50 - 1.60 w ift bearing 1:50 - 1.60 w ng rod bearing cc n bearing cc nbearing 1,9 mm (0.07 in) (17 °) BTD iming 1,9 mm (0.07 in) (17 °) BTD iming 1,9 mm (0.07 in) (17 °) BTD ig cc inving 1,9 mm (0.07 in) (17 °) BTD | SUPER fuel, research octane no 9 | SUPER fuel, research octane no 95, mixed with high-grade two stroke oil (Shell Advance Racing X) | vke oil (Shell Advance Racing X) | |
| If bearing in bearing ng rod bearing no bearing n bearing 1,9 mm (0.07 in) (17 °) BTD n row 1,9 | | nen in doupt, please contact your i | oke oil. When in doupt, please contact your importer or use 1:40 mix ratio to be on the safe side | in the safe side |
| ng rod bearing cs n bearing cs ng 1,9 mm (0.07 in) (17°) BTD nining 1,9 mm (0.07 in) (17°) BT | 1 deep-gro | 1 deep-groove ball bearing / 1 cylinder roller bearing | r bearing | |
| n bearing call in X. "upper edge symme call in X. "upper edge symme 1,9 mm (0.07 in) (17 °) BTD in X. "upper edge symme 1,9 mm (0.07 in) (17 °) BTD in X. "upper edge symme 48 l in Y. "condition if app 17.9 mm (0.07 in) (17 °) BTD in Y. "upper edge symme 48 l in Y. "condition if app 17.9 mm (0.07 in) (17 °) BTD in Y. "upper edge symme 48 l in Y. "condition if app 17.2 mm (0.07 in) (17 °) BTD in Y. "condition if app 17.2 mm (0.07 in) (17 °) BTD in Y. "condition if app 17.2 mm (0.07 in) (17 °) BTD o 17.2 mm (0.07 in) (17 °) BTD o 17.2 mm (0.07 in) (17 °) BTD o 17.2 mm (0.07 in) (17 °) BTD ication 23.21 ication 23.21 ication 23.21 indition 23.21 indition 23.21 | | needle bearing | | |
| Indication Indicat | | needle bearing | | |
| Id Indication iming 1,9 mm (0.07 in) (17 °) BTD iming 1,9 mm (0.07 in) (17 °) BTD ig 1,9 mm (0.07 in) (17 °) BTD in 1,9 mm (| iston | forged piston | cast piston | uc |
| I. "X. "upper edge pilton. iming 1,9 mm (0.07 in) (17 °) BTD ig 1,9 mm (0.07 in) (17 °) BTD is gap 48 r is in transformed 10 ° o 17 ° invise 17 ° o 17 ° ision 17 ° o 17 ° ication 23 ° ication 23 ° ication XOKUSAN 2K-1 | | two plain compression rings | | |
| iming 1,9 mm (0.07 in) (17 °) BTD ig 1,9 mm (0.07 in) (17 °) BTD e gap 48 i e gap 48 i r open 48 i r open 17 °) 17 °) 19 i r open 17 °) 19 ° o 17 °) 25 ° r other 17 °) 25 ° r other 17 °) 25 ° r other 17 °) 25 ° r open 17 °) 26 ° r open 17 °) 26 ° r open 17 ° r open 17 ° r open 23 ° r open 7 ° <td></td> <td>0 + 0.1 mm (0 + 0.004 in)</td> <td></td> <td></td> | | 0 + 0.1 mm (0 + 0.004 in) | | |
| lig c control dans e gap - 48 i t open - 48 i t open - 48 i t open - 15:29 i 17:27 i 17 | 1.2 mm (0.05 in) (13.5 °) BTDC | 1.2 mm (0.05 in) (13.5 °) BTDC | 2.1 mm (0.08 in) (17 °) BTDC | 1.4 mm (0.06 in) (14,5°) BTDC |
| e gap i "2" central flaph t open / open sion o 15:29 17:27 17:23 23:21 23:21 | | NGK BR 8 ECM | | |
| "Z" (beight of the copen 48 I open 48 / open 7 / open 7 / open 7 / open 15:29 17:27 19:25 17:27 19:25 17:27 19:25 17:27 19:25 17:27 19:25 17:27 19:25 19:25 23:21 rication 23:21 rication KOKUSAN 2K-1 | | 0.6 mm (0.024 in) | | |
| t open Arive 15:29 sion 15:29 17:27 19:25 21:23 23:21 rication 23:21 size 10 size 10 | (1.9 in) | 46 mm (1.7 in) | 50.5 mm (1.99 | 99 in) |
| artive at the state of the stat | /min /min | 5300/min 7750/min | 5200/min 7200/min | ini |
| sion o ication ication ain sprockets system | straight cut spur gears, primary ratio 25:72 | :72 | straight cut spur gears, p | spur gears, primary ratio 26:72 |
| sion o rication rication system | multiple disc clut | iple disc clutch in oil bath, hydraulic operated (Shell HF-E15) | | |
| o rication ain sprockets system | | 5 speed, claw actuated | | |
| rication nain sprockets system | 15.2 | 6 | 15.20 | 15.20 |
| rication nain sprockets system | 18:2 | 9 | 18:26 | 18:26 |
| rication nain sprockets system | 19:22 | 22 | 19:24 | 19:22 |
| | 23:18 | çα | 23:21 | 23:18 |
| | 0,81er | engine oil 20W-40 (Shell Advance VSX4) | rSX4) | |
| | 1 | $3t / 14t / 15t$ for chain $5/8 \times ^{1/4}$ " | | |
| | 1.3 litres, 40% | 40% anti freeze, 60% water, at least -2 | -25 °C (-13 °F) | |
| | SEM K11 | ۲11 | KOKUSAN 2K-1 | SEM K11 |
| Generator output no generator | 12V 130W | 30W | no generator | 12V 130W |
| Carburetor | flat-slide | flat-slide carburetor, carburetor setting see table | table 4 | |
| Air-filter | | wet foam type air filter insert | | |

| TOLERANCES AND FITTING CLEARANCES | ARANCES | | |
|---|---|--------------|---------------|
| Piston fitting clearance | 0.05 mm (250) 0.06 mm (300) 0.08 mm (380) | mm (300) | 0.08 mm (380) |
| Piston ring end gap | 0.3-0.4 mm | | |
| Connecting rod bearing - radial clearance | 0.021 – 0.032 mm | | |
| Transmission shafts end float | 0.1-0.2 mm | | |
| Clutch springs - length | $\boxtimes 2.5$ new = 43 mm, minimum length = 42 mm | , minimum le | ngth = 42 mm |

| GASKET THICKNESSES | |
|-----------------------------------|--------------------|
| Crankcase | 0.5 mm |
| Clutch cover | 0.5 mm |
| Cylinder bottom gasket | as required |
| Available cylinder bottom gaskets | 0.2/0.4/0.5/0.7 mm |
| Cylinder-head gasket | O-rings |

| TIGHTENING TOROUES | | | |
|---|----------|--------------------------------|------------|
| Flange bolts - cylinder-head | M 8 | 35 Nm (25 ft.lb) | 5 ft.lb) |
| Nuts-cylinder base | M 10 | 35 Nm (25 ft.lb) | 5 ft.lb) |
| Flywheel collar nut | M 12x1 | 60 Nm (44 ft.lb) | 4 ft.lb) |
| Nut for primary sprocket (LH thread) | M 18x1.5 | Loctite 242 150 Nm (110 ft.lb) | 0 ft.lb) |
| Nut for inner clutch hub | M 18x1.5 | Loctite 242 100 Nm (74 ft.lb) | 4 ft.lb) |
| Crankcase and cover bolts | M 6 | 8 Nm (6 ft.lb) | 6 ft.lb) |
| Swingarm pivot | M 14 | 100 Nm (74 ft.lb) | 4 ft.lb) |
| Flat head screw release plate kickstarter | M 6x16 | Loctite 648 19 Nm (14 ft.lb) | 4 ft.lb) |
| Other screws | M 6 | | 7 ft.lb) |
| | Μ 8 | | (19 ft.lb) |
| | M 10 | 45 Nm (33 | 3 ft.lb) |

| BASIC CARBURELOR SE | ETOR SETTING | | | | |
|---------------------------|--------------------|------------------------------|--------------------------|--------------------|---------------------------------------|
| | 250 SX | 250 MXC, EXC 300 MXC, EXC | 250/300 EGS AUSTRALIA | 380 SX, MXC, EXC | 380 EGS AUSTRALIA |
| Carburetor | Keihin PWK 38 | Keihin PWK 38 | Keihin PWK 38 | Keihin PWK 38 | Keihin PWK 38 |
| Carburetor setting number | 090598 | 100598 | 100598 | 070598 | 060598 |
| Main jet 172(| 172(168,170,175) | 175(170,172,178) | 175(170,172,178) | 170(168,172,175) | 175(168,170,172) |
| Idling jet | 45(48,50) | 45(42,48) | 45(42,48) | 48(45,50) | 45(48,50) |
| Starting jet | 85 | 85 | 85 | 85 | 85 |
| | NOZ G(NOZ H,NOZ I) | N85 C(N85 D) | N85 C(N85 D) | NOZ H(NOZ G,NOZ I) | NOZ H(NOZ G,NOZ I) NOZ G(NOZ H,NOZ I) |
| Needle position from top | = | ≡ | ≡ | = | = |
| Throttle valve | 6 | 6 | 9 | 9 | 9 |
| Air adjustment screw open | 1,5 | 1,5 Umdr. | 1,5 Umdr. | 1,5 Umdr. | 1,5 Umdr. |
| Performance restrictor | I | I | slide stop 31mm | I | slide stop 36mm |

SENGLISH

TECHNICAL SPECIFICATIONS CHASSIS 250 / 300 / 380 SX / MXC / EXC / EGS '99

| | 250/380SX | 250/300/380 MXC | 250/300/380 EXC | 250/300/380 EGS |
|---|---|--|---|--|
| Frame | Central chrome-moly-steel frame | | | |
| Fork | WP Extreme Ø 50 mm | | | |
| Wheel travel front/rear | 280 / 320 mm (11.0 / 12.6 in) | | | |
| Rear suspension | WP Progressive Damping System shock absorber, aluminium swingarm | | | |
| Front brake | Disc brake with carbon-steel brake disc \emptyset 260 mm (10.2 in), brake caliper floated | | | |
| Rear brake | Disc bra | ke with carbon-steel brake disc \$ | Ø 220 mm (8.7 in), brake calip | er floated |
| Front tires | 80/100 - 21" 51M - | 80/100 - 21" 51M - | 90/90 - 21" 54R 80/100 - 21" 51M | 90/90 - 21" 54R - |
| Air pressure offroad Air press. road driver only | 1.0 bar (14 psi) - | 1.0 bar (14 psi) - | 1.0 bar (14 psi) 1.5 bar (21 psi) | 1.0 bar (14 psi) 1.5 bar (21 psi) |
| Rear tires Air pressure offroad | 110/90 - 19" 62M – 1.0 bar (14 psi) | 110/100 - 18" 64M - 1.0 bar (14 psi) | 140/80 - 18" 70R 110/100 - 18" 64M 1.0 bar (14 psi) | 140/80 - 18" 70R - 1.0 bar (14 psi) |
| Air press. road driver only | - | - | 2.0 bar (28 psi) | 2.0 bar (28 psi) |
| Fuel tank capacity | 7.5 liter (2 US gallons) | 12 liter (3.2 US gallons) | 9.5 oder 12 liter (2.5 or 3.2 US gallons) | 9.5 oder 12 liter (2.5 or 3.2 US gallons) |
| Final drive ratio | 14:50t | 14:52t | 14:50t / 14:52t | 14:50t / 15:48t |
| Chain | 5/8 x 1/4" | | | |
| Available final sprockets | 38t, 40t, 42t, 45t, 48t, 50t, 52t | | | |
| Steering head angle | 63.5° | | | |
| Wheel base | 1481 ± 10 mm (58.3 ± 0.4 in) | | | |
| Seat height, unloaded | 925 mm (36.4 in) | | | |
| Ground clearance, unloaded | 385 mm (15 in) | | | |
| Dead-weight without fuel | 101 kg (223 lbs) | 102.5 kg (226,3 lbs) | 103.7 kg (229 lbs) | 109 kg (240,6 lbs) |

| Standard adjustment - fork | | | | | |
|----------------------------|------------------|------------------|--|--|--|
| | WP 918T768 | WP 918T769 | | | |
| Compression adjuster | 12 | 12 | | | |
| Rebound adjuster | 12 | 12 | | | |
| Spring | 4,2 N/mm | 4,0 N/mm | | | |
| Spring preload | 5 mm (0,2 in) | 5 mm (0,2 in) | | | |
| Air chamber length | 150 mm (5,9 in) | 155 mm (6.1 in) | | | |
| Capacity per fork leg | appropx. 750 ccm | appropx. 750 ccm | | | |
| Fork oil | SAE 5 | SAE 5 | | | |

Standard-adjustment - shock absorberWP 1218T712WP 1218T714Compression adjuster56Rebound adjuster1412SpringPDS3-250PDS2-250Spring preload5 mm (0.2 in)6 mm (0.23 in)

NOTE:

The damping units in the left and the right fork leg are of different design. Make sure not to mix them up in case of repair or service jobs.

| Torques | | |
|-----------------------------------|----------|-------------------|
| Collar screw front wheel spindle | M 10 | 40 Nm (30 ft.lb) |
| Brake caliper front | M 8 | 25 Nm (19 ft.lb) |
| | | + Loctite 242 |
| Clamping screws upper fork bridge | M 8 | 15 Nm (11 ft.lb) |
| Clamping screws lower fork bridge | M 8 | 20 Nm (15 ft.lb) |
| Clamping screws fork stubs | M 8 | 15 Nm (11 ft.lb) |
| Collar nut rear wheel spindle | M 20x1,5 | 80 Nm (59 ft.lb) |
| Hexagon nut swing arm bolt | M 14x1,5 | 100 Nm (74 ft.lb) |
| Shock absorber top | M 12 | 60 Nm (44 ft.lb) |
| Shock absorber bottom | M 12 | 40 Nm (30 ft.lb) |
| Other screws on chassis | M 6 | 10 Nm (7 ft.lb) |
| | M 8 | 25 Nm (19 ft.lb) |
| | M 10 | 45 Nm (33 ft.lb) |

KTM-SPORTMOTORCYCLE AG A-5230 Mattighofen • Postfach 91 • Austria Internet: http://www.ktm.co.at FN 102019 d - Landesgericht Ried im Innkreis