OWNER'S MANUAL 2006

640 DUKE II

ART. NR. 3.211.80EN





WARNING

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:

– IGNORING THESE INSTRUCTIONS COULD CAUSE DAMAGE TO PARTS OF YOUR MOTORCYCLE OR THAT

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

THE MOTOR-CYCLE IS NOT ROAD-SAFE ANYMORE.	
Please insert the serial numbers of your m	otorcycle in the boxes below
Frame number	
Engine number	
Key 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.

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

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

We expressly point out that work marked with an asterisk in the chapter "Maintenance work on the chassis and engine" must be performed. If maintenance work should become necessary during a competition it should be performed by a trained mechanic. KTM strongly recommends that all service work to your KTM should be performed by a qualified KTM dealer.

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

Take special care to follow the recommended run in, inspection, and maintenance intervals. Heeding these guidelines will significantly increase the life of your motorcycle. To ensure that all work to your KTM is performed properly and to avoid warranty conflicts, KTM recommends that you always have your KTM serviced by a recognized and qualified KTM dealer.

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

We wish you a lot of fun when driving !

KTM SPORTMOTORCYCLE AG 5230 MATTIGHOFEN, AUSTRIA

IMPORTANT LIMITED WARRANTY AND LIMITED GUARANTEE INFORMATION »

The 640 DUKE II model is designed for regular on-road service but not for use off of paved roads.

The service, care and operating instructions for the engine and chassis specified in the owner's manual must be observed to ensure that the bike runs smoothly and to avoid premature wear.

The service work specified in the "Lubrication and Maintenance Schedule" must be performed and service records must be kept for warranty documentation. Lack of proper service and maintenance records or documentation could void warranty.

The fuels and lubricants specified in the owner's manual or those of an equal quality must be used in accordance with the maintenance schedule.

The warranty or guarantee shall become void for damage and consequential damage caused by manipulations or conversions to the motorcycle.

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



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

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SERIAL NUMBER LOCATIONS >>>



Chassis number

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



Engine number, engine type

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

5

OPERATION INSTRUMENTS >>>

Clutch lever

The clutch lever [1] is fitted on the left hand side of the handle bar. The adjusting screw [A] is used to change the original position of the clutch lever (see maintenance work on chassis and engine).

The clutch is hydraulically actuated and adjusts itself automatically.



Hand decompression lever

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

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

b) When you want to push the motorcycle.

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



Choke lever

When the choke lever [3] is pulled backwards, a bore is opened in the carburetor which enables the engine to draw in additional fuel. This produces a "rich" fuel/air mixture necessary for cold start. When the choke lever is pushed forward as far as it will go, the bore will be closed again. In this position the choke cable must have a play of approx. 2 mm.

OPERATION INSTRUMENTS >>>



Hand brake lever

The hand brake lever [1] is mounted on the right side of the handlebar. The basic position of the handbrake lever can be changed in 4 steps (see Maintenance work on chassis and engine).

6



Speedometer

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



Tachometer

The tachometer **[3]** shows the engine speed in revolutions per minute (rpm). Do not push the engine into the red zone, which begins at 8500 rpm.





Indicator lamps

- The green indicator lamp flashes when the flasher light is working in ≣(
 - the same rhythm as the flasher light. Faster flashing of the flasher control lamp indicates a defect bulb.
 - The blue indicator lamp lights up when the high beam is on.

 \bigotimes

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 $\mathbf{\mathbf{\Theta}}$

- The green indicator lamp lights up when the neutral gear is selected.
- The red cooling liquid temperature warning lamp lights up as soon as the cooling liquid has reached a temperature of approximately 110° C (230° F).

Ignition lock

Switch positions of ignition lock [4]:

- Ignition off, (engine can't be started)
- Ignition on, (engine can be started)
- Ignition off, handlebar blocked

To switch the ignition to position \oplus turn the ignition key to position \otimes and firmly press it into the lock. Turn the handlebar all the way to the left, then turn the ignition key to the left.

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

OPERATION INSTRUMENTS »



4

2

3

Combination switch

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

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





Emergency OFF tip switch, light switch, starter tip switch

The emergency off switch **[5]** is provided for emergency situations and should not be used to switch off the engine.

The engine is ready for operation in position \bigcirc (ignition circuit and starter circuit are switched on).

The engine cannot be started in position \boxtimes (ignition circuit and starter circuit are interrupted).

The light switch [6] has 3 positions:

• Light off

€00€ Parking light on

-Ö-Headlight on

 $(\mathbf{5})$ Use the starter tip switch [7] to operate the electric starter.



Filler cap

The filler cap $\boldsymbol{[8]}$ can be locked and is provided with a fuel evaporation control system.

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

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

OPERATION INSTRUMENTS »



ON

RES

Fuel tap

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

CAUTION

THE FUEL TAP SHOULD BE LOCKED WHENEVER THE MOTORCYCLE IS PARKED. IF THE TAP IS NOT CLOSED THE CARBURETOR MAY OVERFLOW AND FUEL CAN GET INTO THE ENGINE.

8

OFF



Shift lever

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



Kickstarter

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



Foot brake pedal

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

OPERATION INSTRUMENTS »



Compression damping of fork

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

The damping rate of the compression damping mechanism can be readjusted at the adjusting screws [1] located at the fork leg. Turn it clockwise to increase damping, and counterclockwise to reduce damping during compression.

STANDARD ADJUSTMENT:

Turn adjusting screw clockwise as far as it will go. Turn it back by as many clicks as are specified for the relevant type of fork. WP 05187B03 \ldots .14 clicks

Rebound damping of fork

2

Hydraulic rebound damping determines the reaction when the fork is rebound. By turning the adjusting screw [2] (REB), the degree of damping of the rebound can be adjusted. Turn the knob clockwise to increase damping, turn it counterclockwise to reduce damping during rebounding.

STANDARD ADJUSTMENT:

Turn adjusting screw clockwise as far as it will go. Turn it back by as many clicks as are specified for the relevant type of fork. WP 05187B03 \ldots .16 clicks

9



Compression damping of shock absorber

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

STANDARD ADJUSTMENT: WP 01187B05position 3



Rebound damping of shock absorber

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

STANDARD ADJUSTMENT: WP 01187B05position 5



Seat lock

The seat is secured by the lock on the side of the seat [5].

GENERAL TIPS AND WARNINGS FOR STARTING THE MOTORCYCLE »

Instructions for initial operation

- Make sure the work for the "pre-delivery inspection" was performed by your authorized KTM workshop. The DELIVERY CER-TIFICATE and SERVICE MANUAL will be handed over when you pick up your vehicle.
- Read the entire manual carefully before your first drive.
- Enter the chassis, engine and key numbers on page 1.
- Familiarize yourself with the operating elements.
- Adjust the foot brake pedal and the hand brake lever to the most comfortable positions for you.
- Get used to handling the motorcycle on an empty car park, before starting on a longer drive. Also try to drive as slowly as possible and in standing position, to improve your feeling for the vehicle.
- Hold the handlebar with both hands and leave your feet on the foot rests while driving.
- Remove your foot from the foot brake pedal when you are not braking. If the foot brake pedal is not released the brake pads rub continuously and the braking system is overheated.
- You may only be accompanied by a passenger if your motorcycle is fitted and registered for such purposes. The passenger must hold on to the supporting strap or the driver and keep his feet on the passenger footrests throughout the ride.
- 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.
- New tires have a smooth surface and must be run in. For this purpose, carefully ride the motorcycle at moderate speed, tilting the vehicle at different angles so that the surface is evenly roughened. Tires will not display their full grip characteristics before they are properly run in.
- Motorcycles are sensitive to changes in the weight distribution. Read the section on "Accessories and payload" when carrying luggage.
- Pay attention to running in instructions.

Running in

Even finely machined surfaces of engine parts have rougher surfaces than parts that slide on each other for a long time. Therefore, every engine must be run in. For this reason, do not demand maximum performance from the engine for the first 1000 kilometers. The vehicle must be run in at low, changing performance level for the first 1000 km (620 miles). The maximum number of revolutions per minute must not go exceed 4800 rpm. Once you have run your engine in for 1000 km (620 miles), you may push it to its 8500 rpm limit, i.e. up to the red zone indicated in the tachometer. Exceeding the above listed rotations as well as pushing high rpm when the engine is cold will have an adverse effect on the life of your engine.

WARNING

- WEAR SUITABLE CLOTHING WHEN DRIVING A MOTORCYCLE. CLEVER KTM DRIVERS ALWAYS WEAR A HELMET, BOOTS, GLOVES AND A JACKET, REGARDLESS OF WHETHER DRIVING ALL DAY OR JUST FOR A SHORT TRIP. THE PROTECTIVE CLOTHING SHOULD BE BRIGHTLY COLOURED SO THAT OTHER USERS OF THE ROADS CAN SEE YOU AS EARLY AS POSSIBLE. YOUR PASSENGER OF COURSE WILL ALSO NEED SUITABLE PROTECTIVE CLOTHING.
- ALWAYS TURN ON THE LIGHT TO MAKE SURE THAT OTHER DRIV-ERS BECOME AWARE OF YOU AS EARLY AS POSSIBLE.
- DO NOT DRIVE AFTER HAVING CONSUMED ALCOHOL.
- THE FRONT AND REAR WHEEL ARE ONLY ALLOWED TO BE TIRED WITH TIRES THAT HAVE THE SAME PROFILE TYPE.
- NEW WHEELS HAVE A SMOOTH SURFACE, WHICH MEANS THAT THEY MUST BE RUN IN TO ACHIEVE FULL GRIP. FOR THIS PURPOSE, RIDE THE MOTORCYCLE CAREFULLY AT MODERATE SPEED DUR-ING THE FIRST 200 KILOMETERS WITH NEW TIRES, TILTING THE VEHICLE AT DIFFERENT ANGLES SO THAT ALL SECTIONS ARE PROPERLY ROUGHENED. TIRES WILL NOT DISPLAY THEIR FULL GRIP CHARACTERISTICS UNTIL THEY ARE PROPERLY RUN IN.
- DRIVE AT A MODERATE SPEED FOR THE FIRST FEW KILOMETERS OF EACH TRIP TO ALLOW THE TIRES TO REACH THE NECESSARY OPERATING TEMPERATURE. MAXIMUM ROAD GRIP IS ASSURED WHEN THE TIRES ARE WARM.
- OBSERVE THE TRAFFIC REGULATIONS, DRIVE DEFENSIVELY AND TRYING TO LOOK AHEAD AS FAR AS POSSIBLE SO THAT ANY HAZ-ARDS CAN BE RECOGNIZED AS EARLY AS POSSIBLE.
- ADJUST YOUR DRIVING SPEED ACCORDING TO THE CONDITIONS AND YOUR DRIVING SKILLS.
- DRIVE CAREFULLY ON UNKNOWN ROADS
- REPLACE THE HELMET VISOR RESPECTIVELY GOGGLE GLASSES IN PLENTY OF TIME. WHEN LIGHT SHINES DIRECTLY ON SCRATCHED VISOR OR GOGGLES, YOU WILL BE PRACTICALLY BLIND.
- NEVER LEAVE YOUR MOTORCYCLE WITHOUT SUPERVISION AS LONG AS THE ENGINE IS RUNNING.

Accessories and payload

Accessory parts and baggage can significantly decrease a motorcycle's driving stability. Please observe the following warnings.

- ONLY USE ACCESSORIES THAT HAVE BEEN RELEASED BY KTM. FOR EXAMPLE, FRONT PANELLING CAN IMPAIR THE DRIVING PROPER-TIES OF THE MOTORCYCLE. CASES, EXTRA TANKS ETC. CAN ALTER THE WEIGHT DISTRIBUTION AND THUS ALSO IMPAIR THE VEHI-CLE'S DRIVING PROPERTIES.
- FASTEN THE BAGGAGE CLOSE TO THE CENTER OF THE MOTOR-CYCLE AND DISTRIBUTE THE WEIGHT EVENLY ON THE FRONT AND REAR WHEELS AND ON THE LEFT AND RIGHT.
- BAGGAGE MUST BE SECURELY AND ADEQUATELY FASTENEND; LOOSE BAGGAGE WILL SIGNIFICANTLY IMPAIR DRIVING SAFETY.
- A HIGH PAYLOAD WILL CHANGE THE MOTORCYCLE'S HANDLING AND CONSIDERABLY INCREASE THE BRAKING DISTANCE; ADAPT YOUR DRIVING SPEED ACCORDINGLY.
- 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.









Check the following before each start

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

The following checks should be performed:

1 CHECK THE OIL LEVEL

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

2 FUEL

Check that there is sufficient fuel in the tank.

3 CHAIN

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

4 TIRES

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

5 BRAKES

Check correct functioning of the braking system. Check for sufficient brake fluid in the reservoir. If the level of brake fluid falls below the minimum value, this indicates a leak in the braking system or completely worn out brake pads. Arrange for the braking system to be checked by a KTM specialist garage, as complete failure of the braking system can be expected.

Also check the state of the brake hoses and the thickness of the brake linings. Brake linings measured at their thinnest point should not be less than 1 mm since extremely worn linings can lead to brake failure.

🛆 WARNING

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

6 CABLES

Check correct setting and easy running of all control cables.

7 COOLING LIQUID

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

8 ELECTRICAL SYSTEM

Check correct functioning of headlamps, parking light, tail-light, brake light, flashers, indicator lamps and horn while the engine is running.

9 LUGGAGE

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











Starting when the engine is cold

- 1 Open the fuel tap.
- 2 Turn on the ignition.
- 3 Switch the gear to neutral (green lamp [1] lights).
- 4 Turn on the emergency OFF switch [2].
- 5 Operate the choke lever [3].
- 6 Operate the starter button [5] without accelerating.
- 7 If the engine starts, push the choke lever back a little bit, as soon as the engine runs unevenly.
- 8 Swing up the sidestand [4].
- 9 Switch on the light before setting off.

🛆 WARNING

DO NOT START THE ENGINE AND ALLOW IT TO IDLE IN A CLOSED ROOM. EXHAUST FUMES ARE POISONOUS AND CAN CAUSE LOSS OF CONSCIOUSNESS AND DEATH. ALWAYS PROVIDE ADEQUATE VENTILATION WHILE THE ENGINE IS RUNNING.

- MAXIMUM PERIOD FOR CONTINUOUS STARTING: 5 SECONDS. WAIT AT LEAST 5 SECONDS BEFORE TRYING AGAIN.
- DON'T RIDE YOUR MOTORCYCLE WITH FULL LOAD AND DON'T REV ENGINE WHEN COLD. BECAUSE THE PISTON IS WARMING UP FASTER THAN THE WATER COOLED CYLINDER, IT CAN CAUSE ENGINE DAMAGE. ALWAYS KEEP IN MIND THAT THE ENGINE SHOULD BE WARMED UP WITH SMALL LOAD AT MEDIUM R.P.M.

IF THE ENGINE IS DOES NOT CRANK WHEN YOU ACTUATE

- THE STARTER TIP SWITCH:
- Check if the ignition is on
- whether the emergency OFF switch
- Check if the emergency off switch is on
- the headlight is on
 - If this is not the case, the battery is discharged
 - If the lights are on, proceed as described in the "Trouble-shooting" section or contact a KTM dealer.

🛆 WARNING

WHEN STARTING THE ENGINE, PUT ON MOTORCYCLE BOOTS IN ORDER TO AVOID INJURIES. YOU MAY SLIP OFF THE KICKSTARTER, OR THE ENGINE MAY STRIKE BACK WHEN KICKING NOT VEHEMENTLY ENOUGH.

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

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

NOTE:

The highly inflammable components in modern fuels volatilize if left standing for longer periods of time. If the motorcycle has not been used for over 1 week, the fuel should be drained from the float chamber. The engine will start up immediately if the float chamber is filled with fresh, ignitable fuel

THE ELECTRIC STARTER DOESN'T CRANK THE ENGINE WHEN THE STARTER TIP SWITCH IS OPERATED EVEN THOUGH SUFFICIENT ELECTRIC CURRENT IS AVAILABLE:

- Pull the hand decompression lever [6], start and release the lever.

NOTE:

This motorcycle is equipped with a safety starter system. The engine can only be started when the transmission is switched to idle or the clutch lever is pulled, respectively.

Motorcycles with side stands are also equipped with a safety starting system. If you put in a gear with the side stand in its swung-out position, and if you let go of the clutch lever, the engine will stop.

Starting when the engine is warm

- 1 Open the fuel tap.
- 2 Turn on the ignition.
- 3 Switch the gear to neutral (green lamp [1] lights).
- 4 Turn on the emergency OFF switch [2].
- 5 Operate the starter button [5] without accelerating.
- 6 Swing up the sidestand [4].
- 7 Switch on the light before setting off.

What to do when the engine is "flooded"

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

Kickstart instructions

Be sure to kick up the side stand before you start the engine to avoid any damage.Start as described above, then push the kickstarter hard all the way.

A WARNING

- IF YOU WANT TO START THE ENGINE, MAKE SURE THAT YOU ALWAYS PUT ON STURDY MOTORCYCLE BOOTS IN ORDER TO AVOID INJURIES. YOU MIGHT SLIP OFF THE KICKSTARTER, OR THE ENGINE MAY KICK BACK AND PROPEL YOUR FOOT UPWARD WITH GREAT VEHEMENCE.
- ALWAYS KICK KICKSTARTER BRISKLY ALL THE WAY WITHOUT OPENING THE THROTTLE. KICKING THE KICKSTARTER WITH NOT ENOUGH MOMENTUM, AND AN OPENED THROTTLE GRIP INCREASE THE KICK-BACK HAZARD.
- CHECK FOR POWER TRANSMISSION AT TEMPERATURES BELOW 0°C (32°F) BEFORE YOU ACTUATE THE KICKSTARTER. IF YOU DEPRESS THE KICKSTARTER WITHOUT FEELING ANY RESISTANCE, POWER IS NOT BEING TRANSMITTED. THIS COULD CAUSE INJURIES.

L CAUTION

BEFORE YOU ACTUATE THE KICKSTARTER, BE SURE TO KICK UP THE SIDE STAND.



Starting off

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

- BEFORE YOU START OFF, CHECK THAT THE SIDE STAND HAS BEEN SWUNG RIGHT UP TO THE TOP. IF THE STAND DRAGS ON THE GROUND, THE MOTORCYCLE CAN GO OUT OF CONTROL.
- ALWAYS TURN ON THE LIGHT WHEN YOU DRIVE. OTHER DRIVERS WILL BE ABLE TO SEE YOU MUCH SOONER.

Shifting/Riding

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

When you reach full speed through turning the throttle grip all the way, turn throttle back to 3/4; the speed hardly decreases although the engine will use less gas. Never open the throttle wider than the engine can handle. Excessive turning of the throttle grip will increase full consumption.

By shifting down, use the brakes if necessary and close throttle at the same time. Pull clutch lever and shift down to the next gear. Let clutch lever go slowely and open throttle or shift down again. If the engine is killed f.ex. at a crossing, simply pull the clutch lever and start. It is not necessary to switch the gear to NEUTRAL.

WARNING

- AVOID ABRUPT LOAD CYCLES IN CURVES AND ON WET OR SLIP-PERY ROADS. OTHERWISE, THE MOTORCYCLE COULD EASILY GET OUT OF CONTROL.
- NEVER TURN THE IGNITION KEY TO POSITION \boxtimes or \boxplus while the motorcycle is moving.
- AFTER FALLING WITH THE MOTORCYCLE, CHECK ALL FUNCTIONS THOROUGHLY BEFORE STARTING UP OPERATIONS AGAIN.
- A BENT HANDLEBAR MUST ALWAYS BE REPLACED. NEVER TRY TO STRAIGHTEN THE HANDLEBAR BECAUSE THIS WILL CAUSE IT TO LOSE ITS STABILITY.

CAUTION

- HIGH RPM RATES WHEN THE ENGINE IS COLD HAVE AN ADVERSE EFFECT ON THE LIFE OF YOUR ENGINE. WE RECOMMEND YOU RUN THE ENGINE IN A MODERATE RPM RANGE FOR A FEW MILES GIV-ING IT A CHANCE TO WARM UP. AFTER THAT NO FURTHER PRE-CAUTIONS IN THIS RESPECT NEED BE TAKEN.
- SHIFT TO THE NEXT HIGHER GEAR BY 8500 RPM AT THE LATEST. ENGINE SPEEDS IN THE RED RANGE MUST STRICTLY BE AVOIDED.
- NEVER HAVE THE THROTTLE WIDE OPEN WHEN CHANGING DOWN TO A LOWER GEAR. THE ENGINE WILL OVERSPEED, DAMAGING THE VALVES. IN ADDITION, THE REAR WHEEL BLOCKS SO THAT THE MOTORCYCLE CAN EASILY GET OUT OF CONTROL.
- LONG WHEELIE DRIVING CAUSES THE OIL PRESSURE TO DROP. THE OIL PRESSURE WILL AUTOMATICALLY INCREASE AS SOON AS YOU DRIVE ON NORMALLY. DOING WHEELIES FOR A LONG TIME WILL DAMAGE YOUR ENGINE.
- IF THE RED COOLING LIQUID TEMPERATURE LAMP LIGHTS UP WHILE YOU ARE DRIVING, THIS INDICATES COOLING SYSTEM TROU-BLE. IMMEDIATELY STOP AND TURN OFF THE ENGINE. DRIVING WITH THE WARNING LAMP ON WILL CAUSE ENGINE DAMAGE.
- PLACE A CLOTH ON THE RADIATOR CAP. OPEN THE CAP SLOWLY, SO THE EXCESS PRESSURE IN THE COOLING SYSTEM CAN ESCAPE.
 CAUTION SCALDING HAZARD!
 AND CHECK THE COOLING LIQUID LEVEL.
- DO NOT DRIVE ON, UNTIL THERE IS SUFFICIENT LIQUID IN THE COOLING SYSTEM. HOWEVER, CALL ON ONE OF KTM'S DEAL-ERS AS SOON AS POSSIBLE IN ORDER TO HAVE THE DEFECT REMEDIED.
- IF ANY ABNORMAL VIBRATIONS OCCUR WHILE DRIVING, CHECK THAT THE ENGINE FASTENING SCREWS ARE TIGHT.
- IN THE EVENT THAT, WHILE RIDING YOUR MOTORCYCLE, YOU NOTICE ANY UNUSUAL OPERATION-RELATED NOISE, STOP IMME-DIATELY, TURN THE ENGINE OFF, AND CONTACT AN AUTHORIZED KTM DEALER.

Braking

Close throttle and apply the hand and foot brakes at the same time. Carefully apply the brakes on sandy, wet or slippery surfaces. Always brake with feeling, blocking wheels can cause you to skid or fall. Also change down to lower gears depending on your speed.

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

🔺 WARNING

- DELAYED BRAKE ACTION MUST BE EXPECTED DUE TO WET BRAKE DISKS DUR-ING RAINY WEATHER OR AFTER CLEANING OF THE MOTORCYCLE. IN THIS CASE, REPEATEDLY APPLY THE BRAKES UNTIL THEY ARE DRY.
- DELAYED BRAKE ACTION CAN ALSO OCCUR ON SALTED OR DIRTY ROADS. IN THIS CASE, REPEATEDLY APPLY THE BRAKES TO REMOVE THE DIRT.
- WHEN YOU BRAKE, THE BRAKE DISCS, BRAKE PADS, BRAKE CALIPER AND BRAKE FLUID HEAT UP. THE HOTTER THESE PARTS GET, THE WEAKER THE BRAKING EFFECT. IN EXTREME CASES, THE ENTIRE BRAKING SYSTEM CAN FAIL.
- DIRTY BRAKE DISCS CAUSE INCREASED TEAR OF BRAKE PADS AND BRAKE DISCS.
- IF THE RESISTANCE IN THE HAND BRAKE LEVER OR FOOT BRAKE PEDAL FEELS "SPONGY" (TOO MUCH PLAY), THIS IS AN INDICATION THAT SOMETHING IS WRONG WITH THE BRAKE SYSTEM. DON'T RIDE YOUR MOTORCYCLE ANYMORE WITHOUT FIRST HAVING THE BRAKE SYSTEM LOOKED OVER BY A KTM DEALER.

Stopping and parking

Apply the brakes fully and put the engine into neutral. To stop the engine, switch off the ignition. Close fuel tap. Park on solid ground and lock the vehicle

- MOTORCYCLE ENGINES PRODUCE A GREAT AMOUNT OF HEAT WHILE RUN-NING. THE ENGINE RADIATORS, EXHAUST, EXHAUST SYSTEM, BRAKE DISCS, AND SHOCK ABSORBERS CAN BECOME VERY HOT. DO NOT TOUCH ANY OF THESE PARTS AFTER OPERATING THE MOTORCYCLE, AND TAKE CARE TO PARK IT WHERE PEDESTRIANS ARE NOT LIKELY TO TOUCH IT AND GET BURNED.
 NEVER PARK YOUR MOTORCYCLE IN PLACES WHERE THERE EXIST FIRE HAZ-
- ARDS DUE TO DRY GRASS OR OTHER EASILY FLAMMABLE MATERIALS.

! CAUTION

- PARK YOUR MOTORCYCLE, SO THAT IT RESTS STABLY ON THE SIDESTAND (HARD GROUND, LEVEL SURFACE) AND CAN'T TIP OVER.
- CLOSE THE FUEL TAP WHEN LEAVING YOUR VEHICLE.OTHERWISE THE CAR-BURETOR CAN OVERFLOW AND FUEL WILL ENTER THE ENGINE.
- ALWAYS TAKE OUT THE IGNITION KEY WHEN PARKING YOUR MOTORCYCLE SO THAT IT CANNOT BE USED BY UNAUTHORIZED PERSONS.



NOTE REGARDING THE SIDE STAND:

Use your foot to kick side stand forward up to the stop and lean the motorcycle sideways. Make sure that the ground is solid and that your motorcycle is standing securely. Just in case, you can shift into first gear.

THE SIDE STAND IS DESIGNED TO BEAR ONLY THE LOAD OF THE MOTORCYCLE. THE SIDE STAND AND/OR THE FRAME CAN BE DAMAGED AND THE MOTORCYCLE CAN FALL OVER IF YOU MOUNT THE MOTORCYCLE, THUS PUTTING AN ADDITIONAL LOAD ON THE SIDE STAND.



Refueling

In the condition at delivery, the LC4 engine requires leaded or unleaded premium-grade fuel with at least RON 95 (USA = Premium RON 91). If this type of fuel is not available it is easy to change over to the pre-pre-

If this type of fuel is not available it is easy to change over to the pre-programmed ignition curve for 80 - 94 octane (RON) (see activating the ignition curve for low-octane fuel).

CAUTION

USE LEADED OR UNLEADED PREMIUM-GRADE 95 OCTANE (RON) FUEL. IF USING LOWER OCTANE FUEL, THE IGNITION CURVE MUST BE CHANGED, OTHERWISE ENGINE DAMAGE WILL OCCUR.

🕰 WARNING

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

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

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Activating the ignition curve for low-octane fuel

If you are traveling to a country where fuel having at least 95 octane (RON) is not available, you can easily activate the corresponding ignition curve. A plug and socket connection **[1]** on a brown/black cable is located on the right side of the vehicle next to the CDI box .

If the two connectors are connected to each other, the ignition curve for fuel having at least 95 octane (RON) is activated.

If you disconnect the plug and socket connection, the ignition curve for fuel having 80 - 94 octane (RON) is activated. Although this causes the engine to lose some of its power output, it prevents poor glow ignitions and engine damage.

CAUTION

IF FUEL HAVING AT LEAST RON 95 (USA = PREMIUM RON 91) IS NOT AVAILABLE, THE IGNITION CURVE FOR 80 - 94 OCTANE (RON) MUST BE ACTIVATED TO PRE-VENT ENGINE DAMAGE.

PERIODIC MAINTENANCE SCHEDULE »

	A WASHED MOTORCYCLE CAN BE CHECKED MORE QUICKLY WHICH SAVES MONEY!	640 DUKE II 2006	1st Service after 1000 km	2nd Service after 5000 km, then every 5000 km or once a year
	Change engine oil, oil filters, and fine filter		•	•
	Clean oil screens and magnet of drain plug		•	•
Ψ	Check oil lines for damage and kink-less arrangement		•	•
	Check and adjust spark plug, replace it every 10,000 km			•
	Check and adjust valve clearance		•	•
	Check engine fastening screws for tight fit		•	•
	Make sure all engine screws accessible from the outside are screwed tight		•	•
TOR	Check carburetor connection boots for cracks and leaks			•
BURA	Check idle setting		•	•
CAR	Check bleeder hoses for damage and kink-free arrangement		•	•
	Check cooling system for leaks, antifreeze protection		•	•
	Check radiator fan for proper function			•
	Check exhaust system for leaks and suspension		•	•
	Check actuating cables for damage, smooth operation, and kink-less arrangement,		•	•
l S	adjust and lubricate			
ARI	Check fluid level of the clutch master cylinder		•	•
- S	Clean air filter and air filter box			•
	Check cables for damage and kink-less arrangement			•
A	Check headlamp adjustment			•
	Check electrical system for function (low/high beams, stop light, turn indicators, headlamp flasher, tell-tale lamps, speedometer illumination, horn, side-stand switch, clutch switch, emergency-off switch)		•	•
	Make sure all screws and nuts are tight		•	•
	Check brake fluid level, lining thickness, and brake discs		•	•
KES	Check brake lines for damage and leaks		•	•
BRA	Check/adjust smooth operation, free travel of handbrake/foot brake levers		•	•
	Check screws of brake system for tight fit		•	•
	Check suspension strut and fork for leaks and proper function		•	•
	Check O-ring of suspension strut for wear			•
	Clean dust sleeves			•
	Bleed fork legs		•	•
SSIS	Check swinging-fork pivot		•	•
GHA	Check/adjust steering-head bearing		•	•
	Service eccentric for chain tension			•
	Lubricate reversing lever			•
	Check all chassis screws for tight fit (fork plates, fork leg, axle nuts/screws,		•	•
	swinging-fork pivot, reversing lever, suspension strut)			
	Check tire condition, inflation pressure, and rim condition		•	•
EELS	Check chain, chain wheels, chain wheel guides for wear, tight fit, and tension		•	•
MH	Lubricate chain		•	•
	Check wheel bearings and jerk damper for play			•

IF MOTORCYCLE IS USED FOR COMPETITION 5000 KM SERVICE SHOULD BE CARRIED OUT AFTER EVERY RACE!

SERVICE INTERVALLS SHOULD NEVER BE EXCEED BY MORE THAN 500 KM!

MAINTENANCE WORK DONE BY KTM AUTHORISED WORKSHOPS IS NOT A SUBSTITUTE OF CARE AND CHECKS DONE BY THE RIDER!

PERIODIC MAINTENANCE SCHEDULE »

IMPORTANT RECOMMENDED MAINTENANCE PROCEDURES TO BE PERFORMED BASED ON A SEPARATE SUPPLEMENTARY ORDER		
	at least once a year	every 2 years or 20000 km
Perform complete fork maintenance	•	
Perform complete suspension strut maintenance		•
Perform complete reversing lever maintenance		•
Replace glass-fiber yarn packing of the silencers		•
Clean and lubricate steering-head bearing and sealing elements		
Clean and adjust the carburetor		
Treat the electrical contacts and switches with contact spray		
Treat battery connections with contact grease		
Change the brake fluid	•	

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

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

CAUTION 1

- WHEN CLEANING THE MOTORCYCLE, DO NOT USE A HIGH PRESSURE CLEANING UNIT IF POSSIBLE, OTHERWISE WATER WILL PENETRATE THE BEARINGS, CARBURETOR, ELECTRIC CONNECTORS ETC.
- WHEN TRANSPORTING YOUR KTM, ENSURE THAT IT IS HELD UPRIGHT WITH RESTRAINING STRAPS OR OTHER MECHANICAL FASTENING DEVICES. IF THE MOTORCYCLE SHOULD FALL OVER, FUEL CAN LEAK FROM THE CARBURETOR OR FUEL TANK
- DO NOT USE TOOTHED WASHERS OR SPRING WASHERS WITH THE ENGINE FASTENING SCREWS, AS THESE WORK INTO THE FRAME PARTS AND KEEP WORKING LOOSE. INSTEAD, USE SELF-LOCKING NUTS.
- IF YOU UNSCREW ANY SCREWED CONNECTIONS WITH SELF-LOCKING NUTS, THEY MUST BE REPLACED WHEN MOUNTING. IF NO SELF-LOCKING NUTS ARE AVAILABLE, APPLY LOCTITE 243 TO THE THREAD. THE SCREWS AND NUTS MUST BE REPLACED IF THE THREAD IS DAMAGED.
- ALL SCREWS AND NUTS MUST BE TIGHTENED TO THE SPECIFIED TORQUE FIGURES USING A TORQUE WRENCH. IF SCREWS OR NUTS ARE NOT ADEQUATELY TIGHTENED, THEY CAN BECOME LOOSE AND CAUSE THE MOTORCYCLE TO GO OUT OF CONTROL WHILE YOU DRIVE. TIGHTENING THE SCREWS AND NUTS TOO TIGHTLY CAN DAMAGE THE THREAD AND COMPONENTS.
- LET YOUR MOTORCYCLE COOL DOWN BEFORE BEGINNING ANY MAINTENANCE WORK IN ORDER TO AVOID GETTING BURNED.
- PROPERLY DISPOSE OF OIL, GREASE, FILTERS, FUEL, CLEANSERS, BRAKE FLUID, COOLING LIQUID, ETC. OBSERVE THE REGULATIONS EFFECTIVE IN YOUR COUNTRY. ALSO OBSERVE THE SAFETY REGULATIONS WHEN HANDLING THESE SUBSTANCES.
- UNDER NO CIRCUMSTANCES MAY USED OIL BE DISPOSED OF IN THE SEWAGE SYSTEM OR IN THE OPEN COUNTRYSIDE. 1 LITER USED OIL CONTAMINATES 1,000.000 LITERS WATER.



Removing the seat

Put the ignition key into the lock. Turn it counter clockwise all the way to the stop to unlock the seat.

Lift the rear portion of the seat, pull it backwards and disengage it from the oval head screw [1].

The tool set, the battery and the main fuse are located below the seat. Additionally, there is a compartment where small items can be stored.

Fixing the seat

Hook the seat onto the oval head screw [1].

Push the seat forward, at the same time depressing the middle section so that the retaining bracket [2] engages at the seat.

Depress the rear portion of the seat until the locking bolt [3] engages. Take out the key.

WARNING ⚠

CHECK IF THE LOCKING BOLT IS PROPERLY ENGAGED. THE REAR PORTION OF THE SEAT MUST BE FIXED SO THAT IT CAN'T BE LIFTED. IF THE SEAT IS LOOSE, THE MOTORBIKE CAN EASILY GET OUT OF CONTROL.

Supporting strap for the passenger

The passenger can hold on to the supporting strap [4] on the seat.



Tool kit

The tool kit [5] is stored below the seat.





Checking and adjusting the steering head bearing*

Check steering head bearing for play periodicaly. To check this, put motorcycle on stand so that the front wheel is off the ground. Now try to move the fork forward and backward - no play should be discernable To adjust, loosen the five clamp screws [1] of the top triple clamp and turn steering stem bolt clockwise [2] until there is no more play. Don't tighten the steering stem bolt all the way, otherwise the bearings will be damaged. With a plastic hammer, lightly tap on the top triple clamp to release tension. Re-tight the five clamp screws to 15 Nm (11 ft.lb).

🛦 WARNING

IF THE STEERING HEAD BEARING IS NOT ADJUSTED TO BE FREE OF PLAY, THE MOTORCYCLE WILL SHOW AN UNSTEADY DRIVING PERFORMANCE AND CAN GET OUT OF CONTROL.

CAUTION

IF YOU DRIVE WITH PLAY IN THE STEERING HEAD BEARING FOR LONGER PERI-ODS, FIRSTLY THE BEARINGS AND THEN THE BEARING SEATS IN THE FRAME WILL BE DESTROYED.

At least once a year, the steering head bearings should be greased. (e.g. Motorex Long Therm 2000)

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Bleeder screw front fork

The bleeder screws [3] should now and then be released a few turns to let overpressure, if any, escape from the interior of the fork. To do this, place the motorcycle on a stand with the front wheel lifted off the ground. When riding the motorcycle mainly on street, it will be enough to have this job performed in the course of the periodical maintenance service.

CAUTION

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



Cleaning the dust sleeves of the telescopic fork

The dust-protection bellows **[4]** are to remove dust and coarse dirt particles from the fork tube. However, after some time, dirt may also get in behind the dust-protection bellows. If this dirt is not removed, the oil sealing rings located behind it may start to leak.

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



Clean dust-protection bellows, outer tubes, and fork tubes thoroughly, and oil them thoroughly with Universal oil spray (Motorex Joker 440) or engine oil. Then, push dust-protection bellows into the outer tubes by hand.

WARNING

NO OIL MAY REACH THE FRONT TIRE OR THE BRAKE DISKS SINCE THIS WOULD CONSIDERABLY REDUCE THE TIRE'S ROAD GRIP AND THE BRAKING EFFECT OF THE FRONT BRAKE.



Changing the spring preload of the shock absorber

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

- NOTE:
 - Before changing the spring preload note down the basic setting, e.g. how many threads are visible above the adjusting ring.
- One rotation of the adjusting ring [2] changes the spring preload by approximately 2 mm.

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Loosen the allan head screw [1] at the adjustment ring [2]. Use the special wrench [3] from the tool set to turn the adjusting ring as required. Place the adjusting ring in a suitable position, and tighten the allan head screw with 8 Nm (6 ft.lb).



ADJUSTMENT VALUES - SPRING PRELOAD:

Minimum preload	.10 mm
Preload driver only 75 kg BASIC SETTING	.18 mm
Preload with passenger	.23 mm

[A] = spring preload





Checking the rubber ring of the rear shock absorber

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

Measure the distance between the two discs at various points around their circumferences. The space should be at least 2.5 mm wide. Have the rubber ring replaced in a KTM garage when compaction due to wear has exceeded the limit.

CAUTION

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

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

Lubricating the shock absorber linkage

The bearings in the rocker arm must be greased in regular intervals. For this purpose, a grease nipple **[4]** is mounted on the rocker arm.

AFTER EACH TIME THE MOTORCYCLE IS WASHED, IT IS ESPECIALLY IMPORTANT TO GREASE THE GREASE NIPPLE TO PUSH ANY WATER OUT OF THE BEARINGS.







Checking chain tension

To check chain tension, turn off the engine and shift into neutral. Chain tension is correct when the chain can just barely be pushed up to touch the swingarm at the level of the screw [1] (see illustration). If necessary, correct chain tension.

WARNING

- IF CHAIN TENSION IS TOO GREAT, PARTS WITHIN THE SECONDARY POWER TRANSMISSION (CHAIN, CHAIN SPROCKETS, TRANSMISSION AND REAR WHEEL BEARINGS) WILL BE SUBJECTED TO UNNECESSARY STRESS, RESULTING IN PREMATURE WEAR AND EVEN CHAIN BREAKAGE.
- TOO MUCH SLACK IN THE CHAIN, ON THE OTHER HAND, CAN RESULT IN THE CHAIN JUMPING OFF THE CHAIN WHEELS. IF THIS HAPPENS, THE CHAIN COULD ALSO BLOCK THE REAR WHEEL OR DAMAGE THE ENGINE.
- IN EITHER CASE THE OPERATOR IS LIKELY TO LOSE CONTROL OF THE MOTOR-CYCLE.

Correcting chain tension

Loosen hexagon nuts **[2]** on the left and right swingarm fists. Loosen allan head screw **[3]**.

Insert the hexagon socket wrench that comes with the tool set into the hexagon socket of the eccentric and rotate the eccentric upwards (i.e. the wheel spindle must move upwards).

CAUTION

IF THE WHEEL SPINDLE BECOMES LOOSENED DURING THE PROCESS, RETURN ECCENTRICS TO THEIR ORIGINAL POSITION BEFORE RETIGHTENING THE WHEEL SPINDEL (SEE MAINTAINING ECCENTRICS)

Tighten hexagon nuts on swing arm fists to 40 Nm (30 ft.lb). Tighten allan head screw **[3]** to 40 Nm (30 ft.lb).

- DO NOT ROTATE THE ECCENTRIC DOWNWARDS (I.E. THE WHEEL SPINDLE MOVES DOWNWARDS). THIS WILL RAISE THE TAIL OF THE MOTORCYCLE AND WORSEN THE MOTORCYCLE'S PERFORMANCE ON THE STRAIGHTAWAY.
- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE.

Chain maintenance

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

WARNING

- NO LUBRICATION IS ALLOWED TO REACH THE REAR TIRE OR THE BRAKE DISK, EITHERWISE THE ROAD ADHERENCE AND THE REAR WHEEL BRAKING EFFECTS WOULD BE STRONGLY REDUCED AND THE MOTORCYCLE COULD EASILY GET OUT OF CONTROL.
- THE CHAIN DOES NOT HAVE A CHAIN JOINT FOR SAFETY REASONS. ALWAYS HAVE THE CHAIN REPLACED IN AN AUTHORIZED KTM WORKSHOP WHERE THE SERVICE TECHNICANS HAVE THE REQUIRED ORIGINAL RIVETING TOOL.
- NEVER MOUNT A NORMAL CHAIN JOINT.





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



Chain wear

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

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





Maintaining chain tension eccentrics

To ensure trouble-free adjustment, take the chain tension eccentrics out at least once a year for maintenance them. To do this: Remove rear wheel.

Loosen hexagon nuts [1] on the left and right swing arm fists. Remove eccentrics.

Clean eccentrics and swing arm fists thoroughly and grease the slide faces with a Molykote grease or spray.

Replace eccentrics (eccentric with the thread goes in the left swing arm fist). Turn both eccentrics to the same position (marks should be aligned with the notches in the swing arm fists.

Tighten hexagon nuts on the swing arm fists with 40 Nm (30 ft.lb). Mount the rear wheel and tighten the wheel spindle to 80 Nm (59 ft.lb). Adjust the chain tension.

IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE.

CAUTION

IF THE ECCENTRICS ARE NOT ALIGNED, THE REAR WHEEL WILL REST AT AN ANGLE IN THE SWING ARM. THIS WILL STRESS THE REAR WHEEL AND SWING ARM BEAR-INGS AND DAMAGE THEM IF NOT CORRECTED.







General information about KTM disc brakes

BRAKE CALIPERS:

The front brake caliper [1] has 4 brake pistons and is rigidly connected to the fork leg. The rear brake caliper has one brake piston and "floats", which means that it is not rigidly connected to the brake caliper support. The resulting lateral adjustment ensures that the brake pads [2] optimally rest against the brake disk at any time. Secure the screws of the caliper support with Loctite 243 and tighten to 45 Nm (33,2 ft.lb).

BRAKE PADS:

The brake pads are fitted with FERODO ID450 organic lining at the front with TOSHIBA TT 2261 FF sintered lining at the back.

These linings provide an optimal combination of dosing, brake performance and life cycle. The lining type is stated on the back of the brake pad and also recorded in the homologation papers.

The thinnest point of the lining must not be thinner than 1 mm.

🛦 WARNING

BRAKE PADS AVAILABLE IN THE ACCESSORY TRADE ARE OFTEN NOT AUTHOR-IZED FOR OPERATION OF YOUR KTM MOTORCYCLE IN ROAD TRAFFIC. THE BRAKE PADS DESIGN AND FRICTION FACTOR AND THEREFORE THE BRAKING POWER CAN DEVIATE SIGNIFICANTLY FROM ORIGINAL KTM BRAKE PADS. IF YOU USE DIFFER-ENT BRAKE PADS THAN THOSE PROVIDED WITH THE ORIGINAL EQUIPMENT, IT CANNOT BE WARRANTED THAT THEY ARE AUTHORIZED FOR USE IN ROAD TRAF-FIC. YOUR MOTORCYCLE WILL NOT LONGER COMPLY WITH THE REGULATIONS AUTHORIZING THE USE OF VEHICLES FOR ROAD TRAFFIC AND THE WARRANTY WILL BE VOID.

BRAKE DISCS:

Due to wear, the thickness of the brake disc in the area of the contact face **[3]** of the brake pads decreases. At their thinnest point **[A]**, the brake discs must not be more than 0.4 mm (0.016 in) thinner than the pad's nominal thickness. Measure the nominal thickness in a location **[B]** outside the contact face. Check wear in several locations.

A WARNING

- BRAKE DISCS SUFFERING FROM WEAR GREATER THAN 0,4 MM (0,016 IN)
 CONSTITUTE A SAFETY RISK. HAVE THE BRAKE DISCS REPLACED IMMEDI-ATELY AS SOON AS THEY REACH THE WEAR LIMIT.
- HAVE ANY REPAIRS ON THE BRAKE SYSTEM BE PERFORMED BY A KTM DEALER

BRAKE FLUID:

KTM fills the brake systems with Motorex Brake Fluid DOT 5.1 brake fluid, one of the best brake fluids that is currently available. We recommend that you continue to use it. DOT 5.1 brake fluid is based on glycol ether and of an amber color. If you do not have any DOT 5.1 for refilling, you may use DOT 4 brake fluid. However, you should replace it as soon as possible by DOT 5.1. Never use brake fluid DOT 5. The color of this silicon oil-based product is purple red. The gaskets and brake hoses of KTM motorcycles are not designed for DOT 5 brake fluid!

CHANGE BRAKE FLUID AT LEAST ONCE A YEAR. IF THE MOTORCYCLE IS BEING WASHED VERY OFTEN, CHANGE BRAKE FLUIF MORE OFTEN. BRAKEFLUID HAS THE ABILITY TO ADMIT WATER; THEREFORE, STEAM BUBBLES CAN FORM IN "OLD" BRAKE FLUID AT RELATIVELY LOW TEMPERATURES THUS CAUSING THE BRAKE SYSTEM TO FAIL.

BRAKE FLUID RESERVOIRS:

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.



Changing the basic position of the handbrake lever

The adjusting screw [1] allows you to change the basic position of the handbrake lever [2].

Press the handbrake lever's outer end forward, and, at the same time, turn the adjusting screw.

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Checking of brake fluid level - front brake

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

IF THE BRAKE FLUID LEVEL DROPS BELOW THE MINIMUM EITHER THE BRAKE SYSTEM HAS A LEAK OR THE BRAKE PADS ARE COMPLETELY WORN. IN THIS CASE, CONSULT AN AUTHORIZED KTM DEALER IMMEDIATELY.







Refilling the front brake fluid reservoir *

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

Loosen screws [3] and remove lid [4] and membrane [5].

voir to 5 mm (0,2 in) below the rim with clean brake fluid DOT 5.1 (Motorex Brake Fluid 5.1). Replace membrane and lid, tighten screws. Rinse off spilled

WARNING

- NEVER USE DOT 5 BRAKE FLUID! IT IS BASED ON SILICONE OIL AND OF A PURPLE COLOR. SEALS AND BRAKE HOSES MUST BE ESPECIALLY ADAPTED TO IT.
- STORE BRAKE FLUID OUT OF REACH OF CHILDREN.
- BRAKE FLUID CAN CAUSE SKIN IRRITATION, AVOID CONTACT WITH SKIN AND EYES. IF YOU GET BRAKE FLUID IN YOUR EYES, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR.

CAUTION

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

Checking the front brake pads

The brake pads can be inspected from behind. Always inspect the brake pad linings before taking off on your motorcycle. They should not be thinner than 1 mm which is the case when the notch [A] is no longer discernable.

\triangle WARNING

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

CAUTION

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



Place hand brake cylinder in a horizontal position and fill the brake fluid reseror overflowing brake fluid with water.





Changing the basic position of the foot brake pedal*

The basic position of the foot brake pedal can be altered by turning the stop roller [1]. The free play at the foot brake pedal must then be adjusted by means of the piston rod [2].

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).

To keep the stop roller from turning while tightening, insert a hexagon wrench in bore **[A]**.

🛆 WARNING

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

Checking the rear brake fluid level

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

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.

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Refilling the rear brake fluid reservoir*

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

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

🛦 WARNING

- NEVER USE DOT5 BRAKE FLUID! IT IS BASED ON SILICONE OIL AND OF A PUR-PLE COLOR. SEALS AND BRAKE HOSES MUST BE ESPECIALLY ADAPTED TO IT.
 STORE BRAKE FLUID OUT OF REACH OF CHILDREN.
- STORE BRAKE FLUID OUT OF REACH OF CHILDREN. - BRAKE FLUID CAN CAUSE SKIN IRRITATION. AVOID CONTACT WITH SKIN AND
- EYES. IF YOU GET BRAKE FLUID IN YOUR EYES, RINSE WITH PLENTY OF WATER AND CONSULT A DOCTOR

CAUTION

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

Checking the rear brake pads

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

🛦 WARNING

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

! CAUTION

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











Dismounting and mounting the front wheel *

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

Take out both AH screws [1] and remove brake caliper from brake disc.

CAUTION

WHEN REMOVING THE BRAKE CALIPER, MAKE SURE THAT THE BRAKE LINE, THE BRAKE DISC AND THE BRAKE LININGS ARE NOT DAMAGED.

Screw speedometer cable [2] from speedometer drive.

Loosen the clamp screws **[3]** on the right fork leg axle passage (leave the clamp screws on the left fork fist tightened).

Loosen wheel spindle [4].

Hold the front wheel, pull the wheel spindle out, remove the front wheel from the fork by pulling it forward.

CAUTION

- DO NOT OPERATE THE HAND BRAKE WHEN THE FRONT WHEEL HAS BEEN REMOVED.
- ALWAYS PUT DOWN THE WHEEL WITH THE BRAKE DISC ON TOP TO PREVENT DAMAGING OF THE BRAKE DISC.

Prior to mounting the front wheel, clean and grease the shaft seal ring **[5]** and running surface **[6]** at the speedometer drive.

To mount the front wheel insert speedometer drive into the front wheel.

Lift the front wheel into the fork and position the speedometer drive as shown in the illustration (the connection for the speedometer cable must be below the nose **[7]**.

Replace the wheel spindle and tighten it with 40 Nm (30 ft.lb).

Mount the brake caliper, apply Loctite 243 to the thread of the allan head screws and tighten it 45 Nm (33 ft.lb).

Attach speedometer drive cable. Jack the motorcycle back down, work the front brake and bounce the fork hard a few times to align the fork tubes.

Now you can tighten the clamp screws on the right fork leg axle passage to 15 Nm (11 ft.lb).

🛆 WARNING

- THE AH SCREWS [1] OF THE BRAKE CALIPER MUST BE SECURED WITH LOCTITE 243 TO PREVENT LOOSENING.
- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE.
- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND GREASE, OTHERWISE THE BRAKING EFFECTS WOULD BE STRONGLY REDUCED.
 AFTER MOUNTING THE FRONT WHEEL, KEEP OPERATING THE HAND BRAKE
- UNTIL THE PRESSURE POINT RETURNS.

Dismounting and mounting the rear wheel*

Jack up the motorcycle under the frame to lift the rear wheel of the ground. Remove the hexagon nut **[8]** on the left swing arm fist.

Loosen the AH screw [9] and the wheel spindle [10] and pull the eccentric [11] out on the left side. Remove the brake caliper from the brake disk.

Hold the rear wheel and remove the wheel spindle. Move the rear wheel down and forward and take the chain off of the rear sprocket.

CAUTION

- DO NOT OPERATE THE FOOT BRAKE WHEN THE REAR WHEEL HAS BEEN DIS-MOUNTED.
- ALWAYS PUT DOWN THE WHEEL WITH THE BRAKE DISC ON TOP TO PREVENT DAMAGING OF THE BRAKE DISC.

NOTE: When removing the rear wheel always check the damping rubbers.

Clean and lubricate the wheel spindle thread. Lift the rear wheel together with the rear sprocket carrier into the swinging fork and place the chain on the rear sprocket. Insert the wheel spindle to hold the rear wheel and position the brake caliper. Align the eccentric and tighten the wheel spindle to 80 Nm (59 ft.lb). Tighten the hexagon nut to 40 Nm (30 ft.lb) and the AH screw on the brake caliper to 40 Nm (30 ft.lb).

🛦 WARNING

- IF YOU DON'T HAPPEN TO HAVE A TORQUE WRENCH AT HAND, MAKE SURE YOU HAVE THE TIGHTENING TORQUE CORRECTED BY A KTM DEALER AS SOON AS POSSIBLE.
- IT IS VERY IMPORTANT TO KEEP THE BRAKE DISK FREE FROM OIL AND GREASE, OTHERWISE THE BRAKING EFFECTS WOULD BE STRONGLY REDUCED.
- AFTER MOUNTING THE REAR WHEEL, KEEP OPERATING THE FOOT BRAKE UNTIL THE PRESSURE POINT RETURNS.



Checking the damping rubbers in the rear wheel *

In the Duke, the transmission of power to the rear wheel is damped. For this purpose, the engine power is conveyed from the rear sprocket via 6 damping rubbers [1] to the rear wheel. These 6 damping rubbers wear with increasing operation time, and should be checked for wear whenever the rear wheel is dismounted.



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

CAUTION

IF THE DAMPUNG RUBBERS ARE NOT REPLACED IN GOOD TIME, THE REAR SPROCKET CARRIER AND THE REAR WHEEL WILL BE DAMAGED.







TIRES – AIR PRESSURE		
	front	rear
Road, driver only	2,0 bar	2,2 bar
Road, with passenger	2,2 bar	2,4 bar

Tires, air pressure

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

Tire type and size can be found in the technical specifications and in the homologation certificate.

Tire condition has to be checked every time you want to ride your motorcycle. Before leaving check for punctures and nails or other sharp objects that might have become embedded in the tire.

Refer to the specific regulations in your country for minimum tire tread requirements. We recommend replacing tires at the latest when the tread is down to 2 mm.

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

- DO NOT MOUNT TIRES WHICH HAVE NOT BEEN APPROVED BY KTM. OTHER TIRES COULD HAVE ADVERSE EFFECTS ON THE WAY YOUR MOTORCYCLE RIDES.
 - THE FRONT AND REAR WHEEL ARE ONLY ALLOWED TO BE TIRED WITH TIRES THAT HAVE THE SAME PROFILE TYPE.
 - 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.
- NEW WHEELS HAVE A SMOOTH SURFACE, WHICH MEANS THAT THEY MUST BE RUN IN TO ACHIEVE FULL GRIP. FOR THIS PURPOSE, RIDE THE MOTOR-CYCLE CAREFULLY AT MODERATE SPEED DURING THE FIRST 200 KILOMETERS WITH NEW TIRES, TILTING THE VEHICLE AT DIFFERENT ANGLES SO THAT ALL SECTIONS ARE PROPERLY ROUGHENED. TIRES WILL NOT DISPLAY THEIR FULL GRIP CHARACTERISTICS UNTIL THEY ARE PROPERLY RUN IN.
- FOR REASONS OF SAFETY, IT IS RECOMMENDED TO EXCHANGE THE VALVE INSERT WHENEVER A NEW TIRE IS MOUNTED.





28

NGLISH



Batterv

The battery is mounted under the seat (see "Removing the seat")

MAINTENANCE:

The battery has a closed system and therefore requires no maintenance. It is not necessary to check the electrolyte level or to refill water. Simply keep the battery poles clean and slightly grease them with an acid-free grease if necessary.

REMOVING THE BATTERY:

First disconnect the negative and then the positive pole of the battery. Remove screws [1] and take off retaining bracket. Remove battery.

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

- IF ELECTROLYTE (SULPHURIC ACID) LEAKS FROM THE BATTERY, PROCEED WITH GREAT CARE. THE ELECTROLYTE CAN CAUSE SEVERE BURNS
- IN THE CASE OF SKIN CONTACT RINSE THOROUGHLY WITH WATER. IN THE CASE OF CONTACT WITH THE EYES, THOROUGHLY RINSE EYES WITH WATER FOR AT LEAST 15 MINUTES. IMMEDIATELY CONSULT A DOCTOR!
- THE BATTERY IS A CLOSED MODEL BUT CAN NEVERTHELESS EMIT EXPLO-SIVE GASES. AVOID SPARKS AND OPEN FIRE NEAR THE BATTERY.
- DEFECT BATTERIES MUST BE STORED OUT OF THE REACH OF CHILDREN. ENSURE PROPER DISPOSAL OF DISCARDED BATTERIES.

CAUTION

- TO AVOID DAMAGE, DO NOT REMOVE THE LOCKING BAR [2] !
- NEVER DISCONNECT THE BATTERY WHILE THE ENGINE IS RUNNING. THIS WILL DESTROY THE RECTIFIER-REGULATOR.

STORAGE:

When preparing the motorcycle for a longer period of standstill, remove the battery and recharge it. Storage temperature: 0 - 35° C. Do not expose to direct sun radiation.



3

Charging the battery

The battery discharges every day, even if it is not used.

Always disconnect the battery when charging. Charge the battery as described in the instructions [1] on the battery housing. Do not exceed the amperage and charging time. Quick charging at a high amperage has an adverse effect on the service life.

Always use special charging devices to charge maintenance-free batteries, e.g. the KTM charging device (item no. 58429074000). You can also use this charging device to test the off-load voltage and startability of the battery and generator. It is impossible to overcharge the battery with this device.

Charge the battery immediately if it is empty when you start the motorcycle. If left to stand in an uncharged condition for a longer period of time, the battery will run down and sulfatize, destroying the battery.

Recharge the battery every 3 months if it is being stored for a longer period of time.

CAUTION

- NEVER REMOVE THE CLOSURE SINCE IT WILL BE DAMAGED.
 - TO AVOID DAMAGE TO THE ON-BOARD ELECTRONIC SYSTEM, ALWAYS DISCON-NECT THE MINUS POLE BEFORE YOU CHARGE THE BATTERY.
- TO CHARGE, CONNECT THE BATTERY TO THE BATTERY CHARGER BEFORE YOU SWITCH ON THE BATTERY CHARGER. WHEN THE BATTERY IS CHARGED, SWITCH OFF THE BATTERY CHARGER BEFORE YOU DISCONNECT THE BATTERY.
 - PROVIDE ADEQUATE VENTILATION WHEN CHARGING THE BATTERY IN A CLOSED ROOM; THE BATTERY EMITS EXPLOSIVE GASES WHEN CHARGING.
- ELECTROLYTES WILL ESCAPE THROUGH THE SAFETY VALVES IF THE BATTERY IS CHARGED TOO LONG OR AT AN EXCESSIVE VOLTAGE OR AMPERAGE. THIS WILL REDUCE BATTERY CAPACITY.
- TRY TO AVOID QUICK CHARGES.



3

Main fuse

The main fuse **[1]** protects all power-consuming units on the motorcycle. It is located below the seat at the starter relay.

For access to the fuse, remove the cover **[2]**. The capacity of the fuse is 20 A. A spare fuse can be found under the other cover **[3]**. When using the spare fuse, remember to replace it as soon as possible so that a spare fuse is always at hand. Replace a blown fuse only with an equivalent one. If a new fuse that has just been set in gets blown again, you are strongly advised to have it inspected by a KTM dealer. The fuse capacity is 20 Ampere.

- UNDER NO CIRCUMSTANCES IS A STRONGER FUSE ALLOWED TO BE SET IN OR A FUSE ALLOWED TO BE "REPAIRED". AN INEXPERT TREATMENT COULD DAMAGE THE WHOLE ELECTRICAL INSTALLATION!
- CONTACT A SPECIALIZED KTM DEALER, SHOULD DEFECTS OF THE ELECTRIC SYSTEM OCCUR MORE FREQUENTLY.

Fuses

Fuse box [A] is located under the seat.

See "Removing the seat" to remove and mount the seat. The fuses are numbered on the inside of the fuse box. The fuses marked "RES" are spare fuses.

Fuse 1 (10 Ampere) protects the following power-consuming units:

ignitionstarter system

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

- flasher lights
- brake light
- horn

A

– fan

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

- headlight
- parking light

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

! CAUTION

UNDER NO CIRCUMSTANCES IS A STRONGER FUSE ALLOWED TO BE SET IN OR A FUSE ALLOWED TO BE "REPAIRED". AN INEXPERT TREATMENT COULD DAM-AGE THE WHOLE ELECTRICAL INSTALLATION!





Opening the headlight mask

The headlight mask can be opened, thus providing easy access to headlight lamps, instrument lights and indicator lamps.

Remove the screws [4] and take out the ignition key.

Lift the instrument cover in the area of the ignition lock, simultaneously swinging the headlight mask forward.

The headlight mask can be swung forward until it rests against the fork legs. To prevent damaging of painted surfaces, it is recommended to put a cloth or similar material between the mask and the fork legs.



Headlight range adjustment *

The range by the low beam [1] and the high beam [2] can be adjusted by means of the screws [3].

These screws **[3]** are accessible when the headlight mask is opened. Turn the screws clockwise to reduce the distance lighted.

Turn the screws counterclockwise to increase the distance lighted.



Headlight – replacing the bulbs *

Open the headlight mask.

Take off the cable plug [4].

Turn the bulb **[5]** counterclockwise all the way to the stop, then take it out of the headlight.

The glass bulb and the bulb socket are one single unit. Do not attempt to pull the bulb out of the socket. The lamp is a special bulb (Type HB3) which is not available everywhere. Therefore, always make sure to have a spare lamp with you.

Insert the new bulb into the headlight, avoiding to touch the glass of the bulb with bare fingers.

NEVER TOUCH THE GLASS OF THE BULB WITH YOUR FINGERS. THE GLASS OF THE BULB MUST REMAIN ABSOLUTELY FREE FROM GREASE. HEAT WILL OTHER-WISE CAUSE THE GREASE TO EVAPORATE AND SETTLE DOWN ON THE REFLECTOR.

Reconnect the cable plug.

Start the engine and check the headlight for proper functioning. Close the headlight mask.



Parking light - replacing the bulb *

The parking light is located in the upper headlight. Open the headlight mask. Pull the bulb socket **[6]** upward and out of the headlight. Pull the old bulb out of the bulb socket and insert a new bulb.

NEVER TOUCH THE GLASS OF THE BULB WITH YOUR FINGERS. THE GLASS OF THE BULB MUST REMAIN ABSOLUTELY FREE FROM GREASE. HEAT WILL OTHER-WISE CAUSE THE GREASE TO EVAPORATE AND SETTLE DOWN ON THE REFLECTOR.

Check if the lamp works properly. Reassemble the unit, reversing the worksteps indicated above.

Replacing the flasher bulbs

Remove the screw [7] on the back of the turn signal, carefully fold the lens towards the motorcycle and remove. Turn the cap [8] approx. 15° in a counterclockwise direction and remove.

To reassemble the flasher light, reverse the above-described sequence.









Stop light and tail light – replacing the bulb

Remove seat.

Turn the lamp socket [1] approximately 30° counterclockwise and pull it out of the tail light housing.

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

To mount the lamp reverse the worksteps indicated above.









Cooling system

Cooling liquid is circulated by a water pump [2] located in the engine. When the engine is cold the cooling liquid circulates only through the cylinder and the cylinder head. After the engine has reached its operating temperature (about 70° C, 158° F), the thermostat [3] opens and the cooling liquid is also pumped through both aluminum radiators.

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

If little or no air blows through the radiators, for example when riding through slow traffic or waiting at traffic lights, the cooling liquid temperature will rise. If the cooling liquid temperature rises to 98° C (208° F), the fan on the left radiator will switch on. This fan will provide additional air circulation through the radiator thereby preventing the cooling system from overheating.

Pressure induced by heating of the cooling liquid in the cooling system is controlled by a valve in the radiator cap [4]; a water temperature rising up to 120° C (248° F) is admissible, without fear of problems.

CAUTION

THE RED COOLING LIQUID TEMPERATURE WARNING LIGHT **[5]** WILL BEGIN TO LIGHT UP, IF THE COOLING LIQUID TEMPERATURE REACHES APPROX. 110°C AND HENCEFORTH HAS EXCEEDED ITS NORMAL OPERATING TEMPERATURE. POSSIBLE CAUSES:

- RIDING SLOWLY WITH A LARGE LOAD AT A HIGHER AIR TEMPERATURE: IF POSSIBLE INCREASE YOUR RUNNING SPEED, SO THAT MORE AIR CAN BLOW THROUGH THE RADIATORS. SHOULD THE WARNING LIGHT STILL BE ON OFF AFTER 300 METERS, STOP IMMEDIATELY, SWITCH OFF THE ENGINE AND LOOK FOR OTHER POSSIBLE CAUSES.
- TOO LITTLE COOLING LIQUID IN THE SYSTEM:
- LET THE ENGINE COOL DOWN, AND CHECK THE SYSTEM FOR LEAKAGE'S. ALSO EXAMINE THE COOLING LIQUID LEVEL – **CAUTION SCALDING HAZARD!** DO NOT DRIVE ON, UNTIL THERE IS SUFFICIENT LIQUID IN THE COOLING SYS-TEM. GO TO YOUR NEAREST KTM GARAGE AND GET IT SEEN TO. IF YOU DRIVE WITH THE COOLING LIQUID TEMPERATURE WARNING LIGHT ON, YOU WILL CAUSE EVEN MORE DAMAGES TO THE ENGINE.
- THE COOLING FAN ON THE LEFT COOLER IS NOT WORKING:
- THE COOLING FAN MUST BE RUNNING, WHEN THE COOLING LIQUID TEMPER-ATURE IS 98° C (208° F) AND THE IGNITION IS ON. IF THE FAN IS NOT WORK-ING, AND THERE APPEARS TO BE SUFFICIENT COOLING LIQUID, THE ONLY THING YOU CAN DO IS TO DRIVE ON TO YOUR NEAREST KTM GARAGE AT THE LEAST POSSIBLE ENGINE LOAD.

A mixture of 50% antifreezer and 50% water is used as cooling liquid. However, the anti-freeze protection must be at least -25° C (-13° F). Aside from antifreezing protection, this mixture also provides great corrosion protection which is why it must not be replaced by pure water.

CAUTION

FOR THE COOLING SYSTEM, USE ONLY HIGH-GRADE ANTIFREEZER (MOTOREX ANTI-FREEZE). USING LOWERGRADE ANTIFREEZE AGENTS, CAN CAUSE CORRO-SION AND COOLANT FOAMING.



Checking the cooling liquid level

The cooling liquid should be 10 mm (0.4 in) above the cooling elements when the engine is cold (cf. diagram). In the event of the cooling liquid being drained, always fill the system before hand, then top off while the engine is running.

- IF POSSIBLE, ALWAYS CHECK LEVEL OF COOLING LIQUID WHEN ENGINE IS COLD. IF YOU HAVE TO OPEN THE RADIATOR CAP WHEN THE ENGINE IS HOT, USE A RAG TO COVER THE CAP AND OPEN SLOWLY TO RELEASE PRESSURE. CAUTION - SCALDING HAZARD !
- DO NOT DETACH ANY RADIATOR HOSES WHILE THE ENGINE IS HOT. THE ESCAPING HOT COOLANT AND THE STEAM MAY CAUSE SERIOUS BURNS.
- IN CASE YOU GET BURNT, HOLD THE AFFECTED PART OF YOUR BODY UNDER RUNNING COLD WATER RIGHT AWAY!
- COOLANT IS TOXIC. KEEP THE COOLANT OUT OF THE REACH OF CHILDREN!
 IN CASE COOLANT IS INGESTED, GO SEE A DOCTOR IMMEDIATELY!
- IN CASE COOLANT IS INGESTED, GO SEE A DOCTOR IMMEDIATELT:
 IF COOLANT GETS INTO YOUR EYES, RINSE THEM OUT WITH WATER IMMEDI-ATELY AND GO SEE A DOCTOR!

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Cleaning of air filter *

To do this, remove the seat and the air filter cover from the air filter box. Unclap the filter holder [1], swing back and remove air filter plus filter carrier from the filter box.

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

Mount the air filter on the filter support **[2]**. Grease the front side **[A]** of the filter, to improve the seal. Mount the air filter and the filter support in the filter box. Make sure they are centered **[B]**, and lock into place with the filter holder **[1]**.

- DO NOT CLEAN AIR FILTER WITH FUEL OR PETROLEUM SINCE THESE DAM-AGE THE FOAM. KTM RECOMMENDS THE PRODUCTS OF THE COMPANY "MOTOREX" FOR AIR FILTER MAINTENANCE.
- HAVING MOUNTED THE AIR FILTER, CHECK IT FOR CORRECT FIT. THE FRONT END A MUST ABOUT THE AIR FILTER BOX. OTHERWISE, DUST AND DIRT MAY GET INTO THE ENGINE AND LEAD TO INCREASED WEAR.
- NEVER OPERATE YOUR MOTORCYCLE WITHOUT AIR FILTER. OTHERWISE, DUST AND DIRT MAY GET INTO THE ENGINE AND LEAD TO INCREASED WEAR.

2



3

Changing the original position of the clutch lever

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

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

CAUTION

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

Checking the oil level of the hydraulic clutch

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

If necessary, add SAE 10 biodegradable hydraulic oil (Motorex clutch fluid 75), available from your authorized KTM workshop.

! CAUTION

KTM USES BIODEGRADABLE, HYDRAULIC MINERAL OIL TO ACTUATE THE HYDRAULIC CLUTCH. DO NOT MIX THIS OIL WITH ANY OTHER HYDRAULIC OIL. ALWAYS USE ORIGINAL KTM HYDRAULIC OIL (AVAILABLE FROM YOUR AUTHORIZED KTM WORK-SHOP) TO MAKE SURE YOUR CLUTCH OPERATES SMOOTHLY. NEVER REFILL WITH BRAKE FLUID.



Checking and adjusting the choke cable play *

The choke lever must always have a play of approx. 4 mm (0.16 in).

CAUTION

IF THERE IS NO PLAY IN THE CHOKE CABLE, THE BORE OF THE COLD STARTER SYSTEM CANNOT BE COMPLETELY CLOSED. THIS RESULTS IN HIGH FUEL CON-SUMPTION, AN UNEVEN RUNNING ENGINE, AND AN EXTREME WEAR OF PISTON AND CYLINDER.

Remove the seat and tank to adjust.



Push the choke lever all the way to the front and slide the protecting cap **[5]** from the adjusting part **[6]**. Loosen the lock nut **[7]** and correct the play by turning the adjusting part.

Loosen the lock nut [7] and correct the play by turning the adjusting part. Tighten lock nut and slide protecting cap back on. Mount the tank and seat.



Checking the adjustment of the hand decompression cable *

To check, set piston at compression, so that the valves are closed. While doing this, slowly operate the kick starter until the clicking sound (disengaging) of the automatic decompression release can be heard. Now it must be possible to operate the decompression lever 10 mm (0.4 in) until resistance is felt (the exhaust valves begin to open). To adjust move back the protective cover **[8]**, loosen the counter nut **[9]** and correct the adjusting screw **[10]** accordingly. Tighten counter nut and push back protective cover.

CAUTION

THE SETTING OF THE HAND DECOMPRESSION CABLE SHOULD BE REGULARLY CHECKED (SEE MAINTENANCE WORK). A LACK OF PLAY IN THE HAND DECOM-PRESSION LEVER CAN RESULT IN ENGINE DAMAGE.

NOTE: No adjustment need be made to the automatic decompressor.



Adjust idling speed *

Use the adjusting screw [1] to adjust the basic position of the throttle valve and, thus, the idle speed. Turning in clockwise direction will increase the idling speed, turning in counterclockwise direction will reduce the idling speed. Normal idling speed 1400 - 1500 rpm.



Draining of float chamber of the carburetor

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

Wait until the engine is cold before commencing to perform the worksteps indicated below.

Close the fuel tap.

Put the end of the hose [2] that leads downward behind the engine into an appropriate container.

Open the drain plug [3], turning it counterclockwise a few times, and let the fuel drain from the float chamber.

Then tighten the drain plug and open the fuel tap.

FUEL IS EASILY FLAMMABLE AND TOXIC. WHEN HANDLING FUEL, BE SURE TO EXERCISE THE UTMOST CAUTION. NEVER PERFORM ANY WORK ON THE FUEL SYS-TEM IN THE PROXIMITY OF OPEN FLAMES OR BURNING CIGARETTES. ALWAYS ALLOW THE ENGINE TO COOL OFF FIRST. IMMEDIATELY CLEAN UP ANY FUEL WHICH MAY HAVE BEEN SPILLED. MATERIALS SATURATED WITH FUEL ARE ALSO EASILY FLAMMABLE. IN CASE YOU INGESTED FUEL OR FUEL SPLASHED INTO YOUR EYES, CONSULT A DOCTOR IMMEDIATELY.





Engine oil

Automobile engine oil used to be used for four-stroke motorcycles before there were separate motorcycle specifications. Different technical developments made it necessary to have a separate specification for four-stroke motorcycles - the JASO T903 MA standard. Whereas car engines require long changing intervals, motorcycle engines require a higher power output at higher speeds. Most motorcycle engines also use the same oil to lubricate the transmission and the clutch. The JASO MA standard responds to these special requirements. Only use fully synthetic engine oils that meet the JASO MA quality requirements (see information on the can).

KTM recommends Motorex Power Synt 4T in the 10W/50 viscosity (for temperatures over 0°C, 32°F) or 5W/40 (for temperatures under 0°C, 32°F).



Checking the engine oil level

The engine oil level can be checked when the engine is cold or warm. To check, place the motorcycle in an upright position on a level surface (center stand).

If the engine is cold, the oil level should be visible at the lower edge **[A]** of the inspection glass.

If the engine is warm, the oil level should be visible at the upper edge [B] of the inspection glass.

Add engine oil if necessary.

CAUTION

- INSUFFICIENT AMOUNTS OF OR LOW-GRADE ENGINE OIL LEAD TO PREMA-TURE WEAR IN THE ENGINE.
- DO NOT OVERFILL THE ENGINE CASE.
- DO NOT UNDERFILL THE ENGINE CASE.



Oil circuit

The oil pump **[1]** pumps the motor oil past the bypass valve **[2]** and through the oil filter **[3]**. Beyond the oil filter, one of the oil lines forks off to the jets **[4]** that injects motor oil to the piston pin bearing and the piston head. The second oil line leads the main oil flow to the frame breast pipe **[5]** where the motor oil is cooled off. Then the motor oil flows through the fine screen filter **[6]** that removes even the finest of contaminants from the motor oil. The cleansed motor oil is pumped via an oil line and the clutch cover into the crankshaft to the conrod bearing **[7]** and drains from there into the crank case. A additional oil pump **[8]** suctions the motor oil out of the crank case and pumps it through the oil canal **[9]** to the gear wheels of the 4th and 5th gears. The motor oil reaches the oil sump via the gear wheels. The timing chain **[10]** also dips into the oil sump and propels motor oil upwards to the cylinder head. The motor oil reaches the camshaft **[12]** and the valves through the bore **[11]**.







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

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

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

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

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

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

Place the motorcycle on a horizontal surface. Remove the two plugs **[13]** and **[14]**, and drain oil into a container.

! CAUTION

PLUG [A] MUST NOT BE REMOVED, THIS IS PART OF THE BY-PASS VALVE.

Remove the screws and the cover [15]. Loosen the fine screen filter [6] with an oil filter wrench and then screw it off by hand.

The screw **[16]** must be removed to allow the motor oil to flow out of the frame breast pipe (see page 36).

Replace the oil filter when changing the engine oil. Press the foot brake pedal and place a screwdriver or similar between foot brake pedal and stopper roll so that the oil filter cover is more accessible. Remove banjo bolt [19] and the three screws. Remove oil filter cover [20] and oil filter. Clean the filter case, oil filter cover and sealing areas. Make sure the oil duct in the oil filter cover is not clogged.



Place the new oil filter **[21]** on the connection in the oil filter cover and mount together with a new seal **[22]**. Tighten the 3 screws in the filter cover to 5 Nm. Tighten the hollow screw with seals and tighten to 15 Nm.



Clean the plugs thoroughly with petroleum and compressed air in order to remove any metal filings. After the oil has drained completely, clean the sealing areas and remount the plugs together with their gaskets. Tighten plug [13] with 30 Nm and plug [14] with 20 Nm (see page 35). Tighten the screw [16] with 10 Nm. Clean sealing surfaces on the frame breast pipe [17], fill new fine screen filter with engine oil, and oil rubber gasket [18]. Replace fine screen filter and screw it back in place, your bare hand will do.

Remove screw connection on the clutch cover, fill with 1.3 litre engine oil and attach plug again.

CAUTION

- USE ONLY ORIGINAL KTM FINE SCREEN FILTERS. USING ANOTHER FILTER BRAND CAN RESULT IN DAMAGE TO THE ENGINE.
- IF THE ENGINE OIL HAS BEEN DRAINED FROM THE FRONT PIPE OF THE FRAME, YOU MUST BLEED THE OIL SYSTEM !

BLEEDING THE OIL SYSTEM

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



Fill 0.6 liters of engine oil into the can and remove the plug **[23]** next to the steering head. Introduce the plastic hose into the vent hole **[B]**, and fill 0.6 liters of engine oil into the frame's front tube. Remove plastic hose, start engine, and let it idle (approx. 20 seconds) until oil escapes at the hole **[B]**. As soon as oil starts to escape, turn off the engine, and mount the plug together with the gasket and tighten to 25 Nm.

Allow the engine to warm up, check the engine oil level and correct if necessary.

Afterwards, check the entire oil system for leakage. Mount the engine guard.



TROUBLE SHOOTING »

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

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

TROUBLE	CAUSE	REMEDY
Engine doesn't crank.	Operating errror	Turn on the ignition, switch the gear to neutral and switch the emergency OFF switch on.
	Discharged battery.	Recharge the battery and investigate the causes for discharg- ing; contact a KTM dealer.
	Defect ignition lock or emergency OFF switch	Check ignition lock and emergency OFF switch, contact a KTM dealer.
The engine doesn't crank. The neutral indicator lamp doesn't	Blown fuse safe-starting system.	Replace fuse (1).
ngnt up.	Blown main fuse.	Remove seat and replace the main fuse. If fuse blows again contact a KTM dealer.
The engine cranks only with pulled clutch lever	Defect safe-starting system.	Contact a KTM dealer.
Engine cranks with gear engaged.	Defect safe-starting system.	Contact a KIM dealer.
Engine cranks but doesn't start.	Operating error	Open fuel tap, tank fuel, you did not use choke i.e. the warm- start device. Pay attention to starting off information (see driving instructions).
	The motorcycle has been out of operation for a longer period of time. Therefore old fuel has accu- mulated in the float chamber	The easily inflammable components of the new fuels evapo- rate during longer periods of standstill. When the motorcycle has been out of operation for more than a week, it is therefore recommended to drain the old fuel from the float chamber. The engine will immediately start off when the float chamber is filled with new fuel.
	Fuel supply interrupted	Loosen fuel hose at carburettor, lead into a basin and open fuel tap - if fuel leaks out, the carburetor might need cleaning - if no fuel leaks out, check tank ventilation, i.e. clean fuel tap
	Flooded engine	Fully open the throttle when starting or exchange the spark plug, respectively
	Sooty or wet spark plug	Clean and dry the spark plug or exchange it, respectively
	Electrode gap too large	Adjust spark plug elektrode gap to 0.9 mm
	Spark plug connector or spark plug faulty	 Dismount spark plug, connect ignition cable, hold to ground (blank place on engine) and actuate starter, a strong spark must be produced at the spark plug If no spark is created exchange the spark plug. If the new spark plug doesn't produce a spark either, disconnect the spark plug connector from the ignition cable, hold it a distance of approx. 5 mm from ground and start. If a spark now occurs, replace spark plug cap If no spark is produced, control ignition system
	The plug connection of the CDI- unit, the pulse generator or the ignition coil has oxydized	Remove the seat and the fuel tank. Clean the plug connection and treat it with contact spray
	Water in carburetor or jets blocked	Dismount and clean carburetor

TROUBLE SHOOTING »

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

TROUBLE SHOOTING »

TROUBLE	CAUSE	REMEDY
High oil consumption	Buckling gear ventilation hose	Readjust or replace ventilation hose
	Engine oil level too high	Check engine oil level when the engine is warm; correct if necessary
	Engine oil too thin (viscosity)	Use thicker engine oil; see chapter "Engine oil"
Headlight and parking light fail	Blown fuse	Replace fuse (3).
Flasher lights, brake light, fan and horn fail	Blown fuse	Replace fuse (2).
The NEUTRAL lamp is not on even though the gear is in	Defect indicator lamp.	Replace bulb
NEOTRAL	Defect neutral switch.	Connect cable to ground; neutral switch must be replaced if indicator lamp lights up.
	Loose connections, defect cable.	Check connections and cables.
The battery is discharged	The ignition (power consumer) hasn't been switched off	Recharge the battery according to the relevant instructions.
	The battery isn't charged by the generator because	Remove seat and tank and check voltage regulator connec- tions; voltage regulator and generator should be checked by a KTM dealer.

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 normal trade 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. THE WATER COULD OTHERWISE RUN INTO THE ELECTRICAL COMPONENTS, CONNECTORS, SHEATHED CABLES, BEARINGS, CARBURETOR, ETC. AND CAUSE DISTURBINGS OR LEAD TO A PREMATURE DESTRUCTION OF THESE PARTS.

- You should use normal trade-mark detergents to clean the engine. Strongly dirted parts should be cleaned additionally with the help of a paint brush.
- Before cleaning with water, plug the exhaust pipe to prevent water ingress.
- After the motorcycle has been rinsed with a soft water jet, it should be dried by air pressure and a cloth. Then take a short drive until the engine has reached the working temperature and also apply the brakes. Due to the heat, the water also evaporates at the unapproachable parts of the engine and the brakes.
- Slide back the protective covers on the handlebar-mounted instruments so that any water that may have seeped into this part of the motorcycle is allowed to evaporate.
- After the motorcycle has cooled down, oil and grease all sliding and pivot points. Treat the chain with a chain spray too.
- Finally all painted parts should be treated with a gentle paint cleaner.
- To prevent failures in the electric system, you should treat the ignition lock, the emergency off switch, light switch and the socket connectors with contact spray.

CONSERVATION FOR WINTER OPERATION >>>

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

- clean motorcycle thoroughly and let it dry after each ride

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

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

! CAUTION

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

STORAGE >>>

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

- Clean motorcycle thoroughly (see chapter: CLEANING)
- Change engine oil, oil filter and fine screen filter (old engine oil contains aggressive contaminants).
- Check antifreeze and amount of cooling liquid.
- Warm up the engine once again, close the fuel tap and wait until the engine dies. Then open the drain plug from the float chamber to remove the remaining fuel.
- Remove spark plug and fill in approx. 5 cc of engine oil into the cylinder through the opening. Actuate kick-starter 10 times in
 order to distribute the oil onto the cylinder walls and mount the spark plug.
- Set piston to compression so that the valves will be closed (slowly operate the kickstarter until you can hear the automatic decompressor click (release))
- Let fuel flow out of tank into an appropriate container.
- Correct tire pressure.
- Lubricate pivot points of the control levers, footrests, etc. as well as the chain.
- Servicing the shock absorber linkage and swing arm bearings.
- Remove and charge battery (see chapter: BATTERY).
- The storage place should be dry and not subject to excessive temperature fluctuations.
- Cover the motorcycle with an air permeated tarpaulin or blanket. Do not use non air permeable materials as any humidity may not be able to escape and could cause corrosion.

! CAUTION

DO NOT LET THE ENGINE RUN FOR SHORT PERIODS OF TIME WHEN THE MOTORCYCLE IS KEPT IN STORAGE. SINCE IN THIS CASE THE ENGINE WOULD NOT GET WARM ENOUGH, THE STEAM PRODUCED DURING THE COMBUSTION PROCESS WOULD CONDENSE AND CAUSE RUSTING ON CRANKSHAFT, MAIN BEARING, AND EXHAUST SYSTEM.

RE-INITIATION AFTER TIME OF STORAGE:

- Mount the charged battery (match polarity).
- Fill up tank with fresh fuel and turn the fuel tap to the ON position.
- Check motorcycle as before each start.
- Take a short, careful test ride first.

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

TECHNICAL SPECIFICATIONS – ENGINE »

ENGINE	640 DUKE II
Design	Liquid-cooled single cylinder 4-stroke engine with balancer shaft and electric starter
Displacement	625 ccm
Bore / Stroke	101 / 78 mm
Ratio	11,7 : 1
Fuel	unleaded premium gasoline with a least RON 95 (USA = Premium RON 91)
Valve timing	4 valves over rocker arm and 1 overhead camshaft, camshaft drive through single chain
Camshaft	249/1
Valve diameter	Intake: 36 mm, Exhaust: 32 mm
Valve clearence cold	0.12 - 0.15 mm
Crank shaft bearing	2 cylinder roller bearing
Connecting rod bearing	needle bearing
Top end bearing	bronze bushing
Piston	forged aluminium alloy
Piston rings	1 compression ring, 1 taper face ring, 1 oil scraper ring
Engine lubrication	2 Eaton-Oilpumps
Engine oil	see table #
Quantity of engine oil	2.1 liters including frame
Primary ratio	straight geared spur wheels 31 : 79 teeth
Clutch	multi-disc clutch in oil bath
Transmission	5-speed claw shifted
Gear ratio	1st 14:35
	2nd 15:24
	3rd 18:21
	4th 20:19
	5th 22:18
Ignition system	contactless DC- CDI ignition with digital advanced system type KOKUSAN
Ignition timing	adjustment to max. 38° BTDC at 6000 rpm
Generator	12V 200W
Spark plug	NGK DCPR 8 E
Spark plug gap	0.9 mm
Cooling system	liquid cooled, permanent rotation of cooling liquid through mechanically driven water pump
Cooling liquid	1 liter, 50% antifreeze, 50% destilled water, at least -25° C $(-13^{\circ}$ F)
Starting equipment	electric starter, kick starter

BASIC CARBURETOR SETTING		
	640 DUKE II	
Carburetor	BST40-273	
Main jet	165	
Needle jet	X-6 689	
Idling jet	45	
Jet needle	6G5	
Needle position from top	3 rd	
Mixture adjusting screw open	2.25	



Engine oil

Only use fully synthetic engine oils that meet the JASO MA quality requirements (see information on the can). KTM recommends Motorex Power Synt 4T in the 10W/50 viscosity (for temperatures over 0°C, 32°F) or 5W/40 (for temperatures under 0°C, 32°F).

TECHNICAL SPECIFICATIONS – CHASSIS »

CHASSIS	640 DUKE II	
Frame	Central chrome-moly-steel frame	
Fork	typeWP 4357 MXMA 05187B03	
	wheel travel	
	standard adjustment compression \ldots driver only = 14, with passenger = 14	
	standard adjustment rebound \ldots	
	fork leg projection upper fork bridge3 mm (0.12 in)	
	oil capacity per fork legappr. 400 ccm (24 cubic in) / SAE 5	
	air chamber lenght	
Rear suspension	WP central shock absorber with PRO-LEVER linkage to rear- swing-arm with needle bearing	
Shock absorber	typeBAVP 4681 01187B05	
	rear wheel travel	
	standard adjustment compression \ldots driver only = 3, with passenger = 5	
	standard adjustment rebounddriver only = 5, with passenger = 6	
	spring preload	
	spring type	
Front brake	Disc brake with carbon-steel floated brake disc Ø 320 mm (12.6 in) and 4-piston brake caliper	
Rear brake	Disc brake with carbon-steel brake disc Ø 220 mm (8.7 in) and single-piston brake caliper floated	
Tyres	front: 120/70 R 17 58H - MTR 01 rear: 160/60 R 17 69H - MTR 02	
Air pressure rider only	2.0 bar (29 psi) 2.2 bar (32 psi)	
Air pressure with passenger	2.2 bar (32 psi) 2.4 bar (35 psi)	
Fuel tank capacity	11.2 liters (2.96 US gallons), out of this 2.5 liters (0.62 US gallons) reserve	
Final drive ratio	17:42	
Chain	X-ring 5/8 x 1/4"	
Lamps	low beam	
	high beam	
	parking light	
	speedometer, tachometer light	
	indicator lamp	
	stop and taillight	
	flasher	
Battery	maintenance-free battery 12V 8Ah	
Steering angle	63.5°	
Wheel base	1460 ± 15 mm (57.5 ± 0.6 in)	
Seat high	900 mm (35.5 in)	
Ground clearance	280 mm (11 in)	
Dead weight without fuel	148 kg (327 lbs)	
Max. permissible front axle load	150 kg (331 lbs)	
Max. permissible rear axle load	200 kg (441 lbs)	
Max. permissible laden weight	350 kg (773 lbs)	

TECHNICAL SPECIFICATIONS – CHASSIS »

TIGHTENING TORQUES – CHASSIS 640 DUKE II		
Front axle	M17	40 Nm
Rear axle	M20x1,5	80 Nm
Shock absorber bolts top	M10	45 Nm
Shock absorber bolts bottom	M10	45 Nm
Collar screws brake disk front / rear	M8 / M6 10.9	Loctite 243 + 14 Nm
Bolts brake caliper front	M10x1,25	Loctite 243 + 45 Nm
Allen head bolts brake caliper support rear	M10	40 Nm
Bearing bolt linkage arm/frame	M12x1,75	60 Nm
Collar nuts rocker arm bolts	M14x1,5	100 Nm
Engine mounting screw	M10	45 Nm
Ball joint for push rod	M8	Loctite 243 + 25 Nm
Sprocket bolts with nuts	M8	Loctite 243 + 35 Nm
Collar nut swing arm bolt	M14x1,5	100 Nm
Clamp bolts for top triple clamp	M8	15 Nm
Clamp bolts for bottom triple clamp	M8	15 Nm
Clamp bolts for fork stubs	M8	15 Nm
Collar nut for eccentric chain adjuster	M10	40 Nm
Bolts, handlebar clamp	M8	Loctite 243 + 20 Nm
Allen head bolts handlebar support	M10	Loctite 243 + 20 Nm
Bleeder screw oil reservoir frame	M16x1,5	25 Nm
Other screws on chassis	M6	10 Nm
	M8	25 Nm
	M10	45 Nm
Other collar nuts on chassis	M6	15 Nm
	M8	30 Nm
	M10	50 Nm

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– ANHANG – APPENDICE Appendix – Apéndice

SCHALTPLAN » WIRING DIAGRAM



ANHANG – APPENDICE 2

SCHALTPLAN » WIRING DIAGRAM

wh: white

ye: yellow

wh: weiß

ye: gelb

ENGLISH	DEUTSCH	ITALIANO	шш
Battery	Batterie	Batteria	20
Capacitor	Kondensator	Condensatore	B S
CDI	CDI	CDI	PÉ PÉ
Clutch switch	Kupplungsschalter	Interruttore frizione	API A
Cooling fan	Lüftermotor	Motorino ventola	
Diode	Diode	Diodo	Ъ) Ц
Driving light control lamp	Fernlichtkontrolle	Driving light control lamp	EN
EPC	EPC	EPC	N
flasher control lamp	Blinkerkontrolllampe	Spia lampeggiatori	A A
Flasher relay	Blinkerrelais	Relè indicatori	3
Flasher switch	Blinkerschalter	Deviatore indicatori di direzione	
Front brake switch	vorderer Bremslichtschalter	Interruttore luce ant di stop	
	Sicherungskasten	Scatola fusibili	
Generator	Generator	Generatore	
headlight	Scheinwerfer	faro	
High / low beam switch		Commutatore abbagliante/anabbagliante	
Horn			
Horn switch	Horpschalter		
Idle control lows		Indiant margin falls	
Ignition switch	Zundschloss	Interruttore d'accensione	
Left front flasher	linker vorderer Blinker	Indicatore ant. sx	
Lett rear flasher	linker hinterer Blinker	Indicatore post. sx	
Licence plate lamp	Kennzeichenbeleuchtung	Luce targa	
Light switch	Lichtschalter	Deviatore luci	
Neutral switch	Leerlaufschalter	Interruttore folle	
Octane selector	Oktananpassung	Adattamento anticipo agli ottano	
Pick up	Impulsgeber	Pick up	
Rear brake switch	Hinterer Bremslichtschalter	Interruttore luce post. di stop	
Rear light / brakelight	Hinteres Begrenzungslicht / Bremslicht	Luce post. di posizione/stop	
Regulator-rectifier	Regelgleichrichter	Regolatore-raddrizzatore	
Right front flasher	Rechter vorderer Blinker	Indicatore ant. dx	
Right rear flasher	Rechter hinterer Blinker	Indicatore post. dx	
Sidestand switch	Seitenständerschalter	Interruttore cavalletto lat.	
Speedometer	Tachometer	tachimetro	
Start auxillary relay	Starterhilfsrelais	Relè ausiliario d'avviamento	
Start relay	Startrelais	Relè d'avviamento	
Start/stop switch	Start / stop schalter	Interruttore combinato d'avviamento e d'emergenza	
Starter motor	Startermotor	Motorino d'avviamento	
Tachometer	Drehzahlmesser	Contagiri	
Temperature control lamp	Temperaturkontrolle	Controllo temperatura	
Temperature sensor	Temperatursensor	Sensore temperatura	
Temperature switch	Temperaturschalter	Interruttore termico	
Throttle position sensor (TPS)	Vergaserpotentiometer	Potenziometro carburatore (sensore TPS)	
		· · · · · ·	
CABLE COLOURS	KABELFARBEN	CAVO COLORATO	
bl: black	bl: blau	bl: nero	
br: brown	br: braun	br: marrone	
bu: blue	bu: blau	bu: blu	
gn: green	gn: grün	gn: verde	
gr: grey	gr: grau	gr: grigio	
or: orange	or: orange	or: arancione	
pi: pink	pi: rosa	pi: rosa	
pu: purple	pu: violett	pu: violetto	
re: red	re: rot	re: rosso	

wh: bianco

ye: giallo

SCHALTPLAN » WIRING DIAGRAM

Battery Batterie Batería capacitor condensateur condensador CDI CDI CDI Clutch switch Contacteur d'embrayage Interruptor de embrague Cooling fan Ventilateur Motor del ventilador Diode Diode Diode driving light control lamp temoin de feu route lampara aviso luces largas EPC EPC EPC flasher control lamp temoin de clignoteur lampara aviso intermitentes flasher switch Bouton de clignotants Interruptor de luz intermitente Front brake switch Contacteur de frein avant Interruptor de luz intermitente Front brake switch Contacteur code/phare Interruptor de luz intermitente Fraedlight phare faro Hein Newtiseur sonore Cläxon Idle control lamp ind de point mort indicador punto muerto Ignition switch Contacteur d'allumage Coeradura de encendido Ignition switch Contacteur d'allumage Caraot Lercre plasher Clignotant arr	ENGLISH	FRANCAIS	ESPANOL
capacitorcondensateurcondensadorCDICDICDICDICDICDICDIClutch switchContacteur d'embrayageInterruptor de embragueDiodeDiodeDiodesDiodeDiodeDiodesPiceEPCEPCflasher relayRelais de clignotantsRelé de la luz intermitenteFranceBouton de clignotantsInterruptor de la uz intermitenteFranceContacteur de frein avantInterruptor de la uz intermitenteFranceBouton de clignotantsInterruptor de la uz intermitenteFranceCaja de UisiblesCaja de UisiblesGeneratorAlternateurGeneradorHead lightpharefaroHigh / Ibw beam switchContacteur code/phareInterruptor de la classonHornAvertisseur sonoreClasonHorn switchContacteur d'allumageCerradura de encendidoIgnition coilBobine d'allumageCerradura de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant arving gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matriculaLight switchContacteur d'eclairageInterruptor de lacentorOctateur d'eclairageInterruptor de lacentorLight switchContacteur d'eclairageInterruptor de lacentorIgnition switchContacteur d'eclairageInterruptor de lacentorLeft fort flasherClignotant	Battery	Batterie	Batería
CDI CDI CDI Clutch switch Contacteur d'embrayage Interruptor de embrague Cooling fan Ventilateur Motor del ventilador Diode Diode Diodos driving light control lamp temoin de feu route lampara aviso luces largas EPC EPC EPC flasher control lamp temion de clignotants Relé de la luz intermitente Flasher relay Relais de clignotants Interruptor de la luz intermitente Flasher switch Contacteur de frein avant Interruptor de la luz intermitente Front brake switch Contacteur code/phare Interruptor de la luz intermitente Front brake switch Contacteur code/phare Interruptor de cláxon headlight phare faro High / low beam switch Contacteur code/phare Interruptor de cláxon Horn Avertisseur sonore Cláxon Horn switch Bobine d'alumage Bobina de encendido Ignition coil Bobine d'alumage Bobina de encendido Ignition switch Contacteur d'alumage Cerradura de encendido Left ront flasher Clignotant armit genare Luz intermitente izquierda delantera Left ront flasher Clignotant armit genare Luz intermitente Cottac	capacitor	condensateur	condensador
Clutch switch Contacteur d'embrayage Interruptor de embrague Cooling fan Ventilateur Motor del ventilador Diode Diode Diode driving light control lamp temoin de feu route lampara aviso luces largas EPC EPC EPC flasher control lamp temion de clignoteur lampara aviso intermitentes Flasher relay Relais de clignotants Interruptor de la Uz intermitente Front brake switch Contacteur de frein avant Interruptor de la Uz del freno delantero Fuse box Bolte à fusibles Caja de fusibles Generator Alternateur Generador headlight phare faro Horn Avertisseur sonore Cláxon Horn Avertisseur sonore Cláxon Ignition coil Bobine d'allumage Ceradura de encendido Ignition switch Contacteur d'elaurage Luz intermitente izquierda trasera Licence plate lamp Eclairage de plaque Luz intermitente izquierda delantera Left rar flasher Clignotant avant gauche Luz intermitente izquierda trasera Lignton coil Bobine d'allumage	CDI	CDI	CDI
Cooling fanVentilateurMotor del ventiladorDiodeDiodeDiodosDiodeDiodoDiodosdriving light control lamptemion de feu routelampara aviso luces largasEPCEPCEPCflasher control lamptemion de clignoteurlampara aviso intermitentesFlasher relayRelais de clignotantsInterruptor de la luz intermitenteFlasher switchBouton de clignotantsInterruptor de luz del freno delanteroFuse boxBoite à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur dod/phareInterruptor de cliáxonHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor de cliáxonidle control lampind de point mortindicador punto muertoIgnition switchContacteur d'allumageBobina de encendidoLeft rar flasherClignotant arviré gaucheLuz intermitente izquierda delanteraLicence plate lampEclairage de plaqueLuz interruptor de lucesLight switchContacteur d'allumageGeneradorOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGeneradorLight switchContacteur de point mortInterruptor de lucesCotacteur d'epint marièreInterruptor de lucesLight switchContacteur de point mortInterruptor de lucesOctane selectorSélect	Clutch switch	Contacteur d'embrayage	Interruptor de embrague
DiodeDiodeDiodosdriving light control lamptemoin de feu routelampara aviso luces largasEPCEPCEPCflasher control lamptemion de clignotaurlampara aviso intermitentesFlasher relayRelais de clignotantsRelé de la luz intermitenteFlasher switchBouton de clignotantsInterruptor de la luz intermitenteFront brake switchContacteur de frein avantInterruptor de luz del freno delanteroFuse boxBoite à fusiblesCaja de fusiblesGeneratorAtternateurGeneradorHeadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de cláxonHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreIndicador punto muertoIgnition coilBobine d'allumageBobina de encendidoLeft ront flasherClignotant avant gaucheLuz intermitente izquierda delanteraLift rear flasherClignotant avant gaucheLuz intermitente izquierda traseraLight switchContacteur d'elairageInterruptor de lucesNeutral switchContacteur d'elairageGenerador de impulsosRear bake switchContacteur d'elairageGenerador de impulsosRear bake switchContacteur d'elairageInterruptor de lucesLight switchContacteur d'elairageInterruptor de lucesNeutral switchContacteur de frein arrièreInterruptor de lucesNeutral switchContacteur de frein arrièreInterruptor de luces <td>Cooling fan</td> <td>Ventilateur</td> <td>Motor del ventilador</td>	Cooling fan	Ventilateur	Motor del ventilador
driving light control lamptemoin de feu routelampara aviso luces largasEPCEPCEPCflasher control lamptemion de clignoteurlampara aviso intermitentesFlasher relayRelais de clignotantsRelé de la luz intermitenteFlasher switchBouton de clignotantsInterruptor de la luz intermitenteFront brake switchContacteur de frein avantInterruptor de luz del freno delanteroFuse boxBotte à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de la cláxonHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonignition coilBobine d'allumageBobina de encendidolignition coilBobine d'allumageCeradura de encendidoLigniton coilBobine d'allumageCeradura de encendidoLigneto tale lamppEclairage de plaqueLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'elclairageInterruptor de lucesNeutral switchContacteur d'elclairageInterruptor de lucesNeutral switchContacteur d'elclairageInterruptor de la versoCatae de laberContacteur d'elclairageInterruptor de lucesNeutral switchContacteur d'elclairageInterruptor de lucesRear brake switchContacteur d'elclairageInterruptor de	Diode	Diode	Diodos
EPCEPCEPCflasher control lampternion de clignoteurlampara aviso intermitentesflasher relayRelais de clignotantsRelé de la luz intermitenteFlasher switchBouton de clignotantsInterruptor de luz del freno delanteroFuse boxBoite à fusiblesCaja de fusiblesGeneradorAlternateurGeneradorheadlightpharefaroHornAvertisseur sonoreCláxonHornAvertisseur sonoreInterruptor de locanter/apagar la luz largaHornAvertisseur sonoreInterruptor de encender/apagar la luz largaHornAvertisseur sonoreInterruptor de le cenenidoIgnition coilBobine d'allumageBobine d'allumageLeft front flasherClignotant arvier gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arvier gaucheLuz intermitente izquierda traseraLight switchContacteur d'allumageGenerador de cotanoNeutral switchContacteur d'allumageGenerador de cotanoLight switchContacteur d'allumageLuz intermitente izquierda traseraLight switchContacteur d'eclairageInterruptor de lucesNeutral switchContacteur d'allumageGenerador de impulsosRear bake switchContacteur d'eclairageInterruptor de lucesNeutral switchContacteur de frein arrièreInterruptor de lucesNeutral switchContacteur d'eclairageGenerador de impulsosRear bake switchContacteur de frein arrièreLuz intermiten	driving light control lamp	temoin de feu route	lampara aviso luces largas
flasher control lamp temion de clignoteur lampara aviso intermitentes Flasher relay Relia's de clignotants Relé de la luz intermitente Flasher switch Bouton de clignotants Interruptor de la luz intermitente Front brake switch Contacteur de frein avant Interruptor de la uz intermitente Fuse box Boite à fusibles Caja de fusibles Generator Alternateur Generador headlight phare faro High / low beam switch Contacteur code/phare Interruptor de la uz Horn Avertisseur sonore Cláxon Horn switch Bouton d'avertisseur sonore Interruptor de la claxon idle control lamp ind de point mort indicador punto muerto Ignition switch Contacteur d'allumage Cerradura de encendido Left front flasher Clignotant avant gauche Luz intermitente izquierda telantera Left rear flasher Clignotant avant gauche Luz de la matricula Light switch Contacteur d'eclairage Interruptor de luces Neutral switch Contacteur d'eclairage Interruptor de laces Light switch Contacteur d'eclairage Interruptor de laces Left rear flasher Clignotant avant gauche Luz intermitente izquierda trasera L	EPC	EPC	EPC
Flasher relayRelais de clignotantsRelé de la luz intermitenteFlasher switchBouton de clignotantsInterruptor de la luz intermitenteFront brake switchContacteur de frein avantInterruptor de la luz intermitenteFront brake switchBoîte à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHornAvertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgniton switchContacteur d'allumageCerradura de encendidoLeft rear flasherClignotant avant gaucheLuz intermitente izquierda delanteraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'eclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesOctana selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador rectificadorRegulator-rectifierRégulateur/redresseurRegulador rectificadorRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight front flasherClignotant avant droitLuz intermitente derecha delantera <td>flasher control lamp</td> <td>temion de clignoteur</td> <td>lampara aviso intermitentes</td>	flasher control lamp	temion de clignoteur	lampara aviso intermitentes
Flasher switchBouton de clignotantsInterruptor de la luz intermitenteFront brake switchContacteur de frein avantInterruptor de luz del freno delanteroFuse boxBoite à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn Morti lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoLeft ront flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft ront flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueInterruptor de lucesNeutral switchContacteur d'allumageGeneradorOctanae selectorSelection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear light / brakelightFeu rouge/stopLuces de parque ortaseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraLight switchContacteur de frein arrièreInterruptor de luz de freno traseroRegulator-rectifierRégulateur/redresseurRegulator rectificadorRegulator-rectifierRégulateur/red	Flasher relay	Relais de clignotants	Relé de la luz intermitente
Front brake switchContacteur de frein avantInterruptor de luz del freno delanteroFuse boxBoîte à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgniton coilBobine d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLicence plate lampEclairage de plaqueLuz de la matriculaLight switchContacteur d'eclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesVeata switchContacteur de frein arrièreAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear barke switchContacteur de frein arrièreInterruptor de luz del freno traseroReker light / brakelightFeu rouge/stopLuces de parque traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraClight front flasherClignotant arrière droitLuces de parque traseras /luces de frenoRegulator-rectifierRégulateur/redresseur	Flasher switch	Bouton de clignotants	Interruptor de la luz intermitente
Fuse boxBoîte à fusiblesCaja de fusiblesGeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant arrière gaucheLuz intermitente izquierda delanteraLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesNeutral switchContacteur de point mortInterruptor de luz de freno traseroPick upCapteur d'allumageGenerador de impulsosRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille laté	Front brake switch	Contacteur de frein avant	Interruptor de luz del freno delantero
GeneratorAlternateurGeneradorheadlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn witchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoLeft ront flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft ear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'elclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight rear flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant avant droitLuz intermitente derecha delanteraSidestand switchContacteur de frein arrièreInterruptor de luz del frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight rear flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherCli	Fuse box	Boîte à fusibles	Caja de fusibles
headlightpharefaroHigh / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'allumageGenerador de incessNeutral switchContacteur d'allumageGenerador de inpulsosRear light / brakelightFeu rouge/stopLuz de la matrículaLight switchContacteur d'allumageGenerador de impulsosRear light / brakelightFeu rouge/stopLuces de parque trasera /luces de frenoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parque traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulator rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSidestand switchContacteur de béquille latéraleInterruptor del caballe	Generator	Alternateur	Generador
High / low beam switchContacteur code/phareInterruptor de encender/apagar la luz largaHornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz de la matrículaLigence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'allumageGenerador de impulsosNeutral switchContacteur d'allumageGenerador de impulsosNeutral switchContacteur d'allumageGenerador de impulsosRear brake switchContacteur d'allumageGenerador de impulsosRear brake switchContacteur d'entri arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parque traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranque <td< td=""><td>headlight</td><td>phare</td><td>faro</td></td<>	headlight	phare	faro
HornAvertisseur sonoreCláxonHorn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de lucesNeutral switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroPick upCapteur d'allumageGenerador de impulsosRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxillar del arranque	High / low beam switch	Contacteur code/phare	Interruptor de encender/apagar la luz larga
Horn switchBouton d'avertisseur sonoreInterruptor del cláxonidle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLicence plate lampEclairage de plaqueLuz intermitente izquierda traseraLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur d'éclairageGenerador de impulsosOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear light / brakelightFeu rouge/stopLuces de parqueo trasera /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé del arranqueStart relayRelais de démarreurRelé del arranque / paradaStart remotorDémarreurRelá de arranque / paradaStart remotorDémarreurMotor de arranque / parada	Horn	Avertisseur sonore	Cláxon
idle control lampind de point mortindicador punto muertoIgnition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luzed freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight rear flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé de arranque démarqueStart remarkContacteur start/stopInterruptor arranque / paradaStart remarkContacteur start/stopInterruptor arranque / parada	Horn switch	Bouton d'avertisseur sonore	Interruptor del cláxon
Ignition coilBobine d'allumageBobina de encendidoIgnition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur d'éclairageInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor de lcaballete lateralSidestand switchContacteur de frein arrièreRegulador rectificadorRight rear flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor de l caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxilliar del arranqueStart relayRelais de démarreurRelé del arranqueStart rent ovorDémarreurMotor de arranque eléctrico	idle control lamp	ind de point mort	indicador punto muerto
Ignition switchContacteur d'allumageCerradura de encendidoLeft front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight rear flasherClignotant avrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxillar del arranqueStart relayRelais de démarreurRelé del arranque / paradaStart rendContacteur start/stopInterruptor dranque eléctrico	Ignition coil	Bobine d'allumage	Bobina de encendido
Left front flasherClignotant avant gaucheLuz intermitente izquierda delanteraLeft rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRégulator-rectifierRégulateur/redresseurRegulador rectificadorRight rear flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranque eléctricoStart remotorDémarreurMotor de arranque eléctrico	Ignition switch	Contacteur d'allumage	Cerradura de encendido
Left rear flasherClignotant arrière gaucheLuz intermitente izquierda traseraLicence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant arrière droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Left front flasher	Clignotant avant gauche	Luz intermitente izquierda delantera
Licence plate lampEclairage de plaqueLuz de la matrículaLight switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé del arranqueStart relayContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Left rear flasher	Clignotant arrière gauche	Luz intermitente izquierda trasera
Light switchContacteur d'éclairageInterruptor de lucesNeutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Licence plate lamp	Eclairage de plaque	Luz de la matrícula
Neutral switchContacteur de point mortInterruptor de ralentíOctane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Light switch	Contacteur d'éclairage	Interruptor de luces
Octane selectorSélection pour l'indice d'octaneAjuste de octanoPick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Neutral switch	Contacteur de point mort	Interruptor de ralentí
Pick upCapteur d'allumageGenerador de impulsosRear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Octane selector	Sélection pour l'indice d'octane	Ajuste de octano
Rear brake switchContacteur de frein arrièreInterruptor de luz del freno traseroRear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Pick up	Capteur d'allumage	Generador de impulsos
Rear light / brakelightFeu rouge/stopLuces de parqueo traseras /luces de frenoRegulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Rear brake switch	Contacteur de frein arrière	Interruptor de luz del freno trasero
Regulator-rectifierRégulateur/redresseurRegulador rectificadorRight front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Rear light / brakelight	Feu rouge/stop	Luces de parqueo traseras /luces de freno
Right front flasherClignotant avant droitLuz intermitente derecha delanteraRight rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Regulator-rectifier	Régulateur/redresseur	Regulador rectificador
Right rear flasherClignotant arrière droitLuz intermitente derecha traseraSidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Right front flasher	Clignotant avant droit	Luz intermitente derecha delantera
Sidestand switchContacteur de béquille latéraleInterruptor del caballete lateralSpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Right rear flasher	Clignotant arrière droit	Luz intermitente derecha trasera
SpeedometerCompteurVelocímetroStart auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Sidestand switch	Contacteur de béquille latérale	Interruptor del caballete lateral
Start auxillary relayRelais secondaire de démarreurRelé auxiliar del arranqueStart relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Speedometer	Compteur	Velocímetro
Start relayRelais de démarreurRelé del arranqueStart/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arrangue eléctrico	Start auxillary relay	Relais secondaire de démarreur	Relé auxiliar del arranque
Start/stop switchContacteur start/stopInterruptor arranque / paradaStarter motorDémarreurMotor de arranque eléctrico	Start relay	Relais de démarreur	Relé del arranque
Starter motor Démarreur Motor de arrangue eléctrico	Start/stop switch	Contacteur start/stop	Interruptor arranque / parada
	Starter motor	Démarreur	Motor de arranque eléctrico
Tachometer Compte-tours Cuenta revoluciones	Tachometer	Compte-tours	Cuenta revoluciones
temperature control lamp temion de temperature control temperatura	temperature control lamp	temion de temperature	control temperatura
Temperature sensor Sonde de température Sensor de temperatura	Temperature sensor	Sonde de température	Sensor de temperatura
Temperature switch Contacteur de température Interruptor de temperatura	Temperature switch	Contacteur de température	Interruptor de temperatura
Throttle position sensor (TPS) Capteur d'ouverture de carburateur Potenciómetro del carburador	Throttle position sensor (TPS)	Capteur d'ouverture de carburateur	Potenciómetro del carburador

CABLE COLOURS	COULEUR DE CABLE	COLOR DE CABLE
bl: black	bl: noir	bl: negro
br: brown	br: brun	br: marron
bu: blue	bu: bleu	bu: azul
gn: green	gn: vert	gn: verde
gr: grey	gr: gris	gr: gris
or: orange	or: orange	or: naranja
pi: pink	pi: rose	pi: rosado
pu: purple	pu: violet	pu: violeta
re: red	re: rouge	re: rojo
wh: white	wh: blanc	wh: blanco
ye: yellow	ye: jaune	ye: amarillo







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