OWNER'S MANUAL 2011





Congratulations on your decision to buy a KTM motorcycle. You are now the owner of a state-of-the-art sports motorcycle that will give you enormous pleasure if you service and maintain it accordingly.

We wish you a lot of enjoyment in riding this vehicle!

Enter the serial numbers of your vehicle below.

Chassis number (♥ p. 16)	Dealer's stamp
Engine number (* p. 17)	
Key number (♥ p. 17)	

The owner's manual corresponded to the latest state of this series at the time of printing. Slight deviations resulting from continuing development and design of our vehicles cannot, however, be completely excluded.

All specifications are non-binding. KTM Sportmotorcycle AG in particular reserves the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc., without prior notice and without specifying reasons, to adapt these to local conditions, as well as to stop production of a particular model without prior notice. KTM accepts no liability for delivery options, deviations from illustrations and descriptions, as well as misprints and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of delivery.

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Issued by: TÜV Management Service

KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

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Symbols used

The meaning of specific symbols is described below.



Indicates an expected reaction (e.g. of a work step or a function).



Indicates an unexpected reaction (e.g. of a work step or a function).



All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have these jobs performed in an authorized KTM workshop! There, your motorcycle will be serviced optimally by specially trained experts using the specialist tools required.



Indicates a page reference (more information is provided on the specified page).

Formats used

The following typographical formats are used.

Specific name Identifies a proprietary name.

Name® Identifies a protected name.

BrandTM Identifies a brand in merchandise traffic.

Use definition

KTM sport motorcycles are designed and constructed to meet the normal demands of regular road operation but not for use on race courses or offroad.



Info

The motorcycle is authorized for public road traffic in the homologous version only.

Service

A prerequisite for fault-free operation and avoiding premature wear is compliance with the instructions for maintenance, care and tuning of the engine and suspension provided in the owner's manual. Poor adjustment and tuning of the engine and chassis can lead to damage and breakage of components.

Using the motorcycle in extreme conditions such as very muddy or wet roads can lead to above-average wear of components such as the transmission train or the brakes. For this reason, it may be necessary to service or replace worn parts before the limit specified in the service schedule is reached.

It is imperative that you adhere to the stipulated run-in times and service intervals. If you observe these exactly, you will ensure a much longer service life for your motorcycle.

Warranty

The work prescribed in the service plan must only be carried out in an authorized KTM workshop and confirmed in the service record; otherwise all warranty claims will be disregarded. No warranty claim can be met for damage resulting from manipulation and/or other changes to the vehicle.

Fuel, oils, etc.

You should use the fuels, oils and greases according to specifications as listed in the owner's manual.

Spare parts, accessories

For your own safety, only use spare parts and accessory products that have been approved and/or recommended by KTM and have them installed by an authorized KTM workshop. KTM accepts no liability for other products and any resulting damage.

Some spare parts and accessory products are specified in parentheses in the descriptions. Your KTM dealer will be glad to advise you.

You will find the current KTM PowerParts for your vehicle on the KTM website.

International KTM Website: http://www.ktm.com

Work rules

Special tools are necessary for certain tasks. The tools are not contained in the vehicle but can be ordered under the number in parentheses. Example: valve spring mounter (59029019000)

During assembly, non-reusable parts (e.g. self-locking screws and nuts, seals and seal rings, O-rings, pins, lock washers) must be replaced by new parts.

If a thread lock (e.g. **Loctite®**) is used for screw connections, be sure to comply with the manufacturer's specific instructions on its usage. Parts that you want to reuse following repairs and servicing should be cleaned and checked for damage and wear. Change damaged or worn parts.

Ensure that the vehicle is roadworthy after completing repair and maintenance work.

Transport

Note

Danger of damage The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.

Note

Fire hazard Some vehicle components become very hot when the vehicle is operated.

Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being
run. Always let the vehicle cool first.

- Switch off the engine and remove the ignition key.
- Use straps or other suitable devices to secure the motorcycle against accidents or falling over.

Environment

Offroad motorcycling is a wonderful sport and we naturally hope that you will be able to enjoy it to the fullest. However, it is a potential problem for the environment and can lead to conflicts with other persons. But if you use your motorcycle responsibly, you can ensure that such problems and conflicts do not have to occur. To protect the future of motorcycle sport, make sure that you use your motorcycle legally, display environmental consciousness, and respect the rights of others.

Notes/warnings

Pay close attention to the notes/warnings.



Info

Various information and warning labels are affixed to the vehicle. Do not remove information/warning labels. If they are missing, you or others may not recognize potential hazards and may therefore be injured.

Grades of risks



Danger

Identifies a danger that will immediately and invariably lead to fatal or serious permanent injury if the appropriate measures are not taken.



Warning

Identifies a danger that is likely to lead to fatal or serious injury if the appropriate measures are not taken.



Caution

Identifies a danger that may lead to minor injuries if the appropriate measures are not taken.

Note

Identifies a danger that will lead to considerable machine and material damage if the appropriate measures are not taken.



Warning

Identifies a danger that will lead to environmental damage if the appropriate measures are not taken.

Owner's manual

- It is important that you read this owner's manual carefully and completely before making your first trip. It contains useful information
 and tips to help you operate and handle your motorcycle. Only then will you find out how to customize the motorcycle ideally for your
 own use and how you can protect yourself from injury. The owner's manual also contains important information on servicing the motorcycle.
- The owner's manual is an important component of the motorcycle and should be handed over to the new owner if the vehicle is sold.

View of vehicle, front left



1	Hand brake lever (♥ p. 19)
2	Clutch lever (* p. 19)
3	Seat
4	Filler cap
5	Handrails (* p. 34)
6	Engine number (* p. 17)
7	Shift lever (♥ p. 35)
8	Side stand (* p. 36)
9	Footrest
10	Seat release (₱ p. 33)

View of vehicle, rear right



1	Ignition/steering lock (* p. 23)
2	Light switch (* p. 20)
2	Turn signal switch (* p. 21)
2	Horn button (* p. 21)
3	Rear mirror
4	Combination instrument (* p. 23)
5	Emergency OFF switch (* p. 22)
5	Electric starter button (* p. 22)
6	Throttle grip (* p. 20)
7	Chassis number (* p. 16)
8	Passenger footrests (* p. 34)
9	Shock absorber, rebound adjustment
10	Foot brake lever (* p. 36)
11	Level viewer, engine oil

SERIAL NUMBERS

Chassis number



The chassis number **1** is stamped on the steering head on the right.

Type label



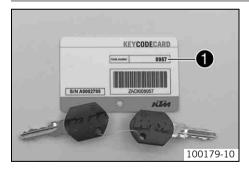
Type label • is located on the upper right frame tube below the seat.

Engine number



The engine number • is stamped on the left side of the engine under the engine sprocket.

Key number



The key number **1** can be found on the **KEYCODECARD**.



Info

You need the key number to order a spare key. Keep the $\ensuremath{\mathbf{KEYCODECARD}}$ in a safe place.

Fork part number



The fork part number • is stamped on the inner side of the fork stub.

Shock absorber part number



The shock absorber part number $oldsymbol{0}$ is on the right of the shock absorber.

Clutch lever



The clutch lever **①** is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

Hand brake lever



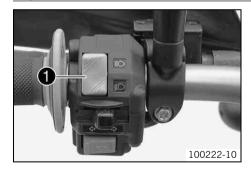
The hand break lever **①** is fitted on the right side of the handlebar. The hand brake lever operates the front brake.

Throttle grip



The throttle grip • is fitted on the right side of the handlebar.

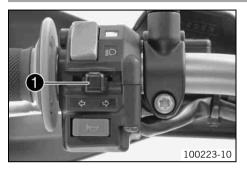
Light switch



The light switch **1** is fitted on the left side of the handlebar.

≣ D	Low beam on – Light switch is turned downwards. In this position, the low beam and tail light are switched on.
	High beam on – Light switch is turned upwards. In this position, the high beam and the tail light are switched on.

Turn signal switch



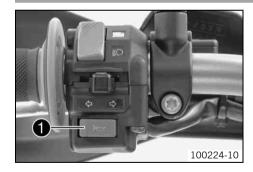
The turn signal switch **1** is fitted on the left side of the handlebar.

Possible states

	Turn signal off
4	Turn signal light, left, on – Turn signal switch pressed to the left. The turn signal switch returns automatically to the central position after use.
合	Turn signal light, right, on – Turn signal switch pressed to the right. The turn signal switch returns automatically to the central position after use.

To switch off the turn signal light, press the turn signal switch towards the switch case.

Horn button



The horn button • is fitted on the left side of the handlebar.

- Horn button
 in neutral position
- Horn button by pressed The horn is operated in this position.

Emergency OFF switch



The emergency OFF switch **1** is fitted on the right side of the handlebar.

Possible states

\bigotimes	Emergency OFF switch off – In this position, the ignition circuit is interrupted, a running engine stops, and the engine cannot be started.
	Emergency OFF switch on – This position is necessary for operation as the ignition circuit is closed.

Electric starter button



The electric starter button • is fitted on the right side of the handlebar.

- Electric starter button ③ in basic position
- Electric starter button ③ pressed In this position, the electric starter is actuated.

Ignition/steering lock

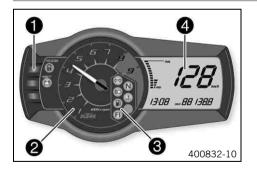


The ignition/steering lock • is located in front of the seat.

Possible states

\bowtie	Ignition OFF – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start. The ignition key can be removed.
\bigcirc	Ignition ON – In this position, the ignition circuit is closed and the engine can be started.
•	Steering locked – In this position, the ignition circuit is interrupted and the steering locked. The ignition key can be removed.

Combination instrument

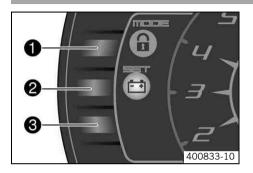


The combination instrument is installed in front of the handlebar.

The combination instrument is divided into 4 function areas.

- Function buttons
- 2 Tachometer
- Indicator lights
- Display

Combination instrument - function buttons



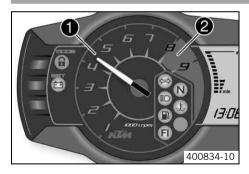
You can change the display mode with the **MODE** button **1**.

Possible display modes are distance traveled (**0D0**), trip master 1 (**TRIP 1**) and trip master 2 (**TRIP 2**).

Press the **SET** button **②** to reset the trip master 1 function (**TRIP 1**) and trip master 2 function (**TRIP 2**) to **0.0**.

Button **3** has no function.

Combination instrument - tachometer



The tachometer • shows the engine speed in revolutions per minute.

The red marking 2 shows the excess speed range of the engine.

Combination instrument - indicator lamps



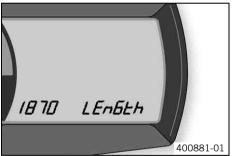
The indicator lamps offer additional information about the operating state of the motorcycle.

(+ + +)	The turn signal indicator lamp flashes green simultaneously with the turn signal – The turn signal is switched on.
N	The idle speed indicator lamp lights up green – The transmission is shifted to idle.
	The high beam indicator lamp lights up blue – The high beam is switched on.
	Temperature warning lamp lights up red – Coolant temperature has reached a critical value.
	Fuel level warning lamp lights up orange – Fuel level has reached the reserve mark. Display switched to TRIP F .
FI	FI warning lamp (MIL) lights up/flashes orange – The OBD (onboard diagnosis) has identified an emissions- or safety-critical fault.
=	Battery warning lamp lights up red – Voltage in vehicle system too low.

Combination instrument - display



When you switch on the ignition, all display segments light up for a second as a function test.



LEnGth

Following the display function test, the **LEnGth** wheel circumference is shown for one second.

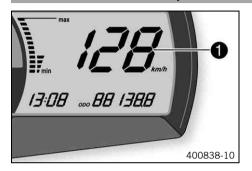


Info

1870 mm corresponds to the circumference of the 17 front wheel with a series production tire.

The display then changes to the last selected mode.

Combination instrument - speedometer



The speed **1** is shown in kilometers per hour **km/h** or in miles per hour **mph**.

Setting kilometers or miles

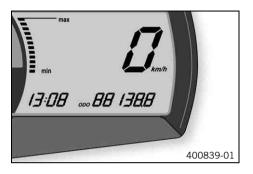


Info

If you change the unit, the value **0D0** is retained and converted accordingly. Making the setting according to the country.

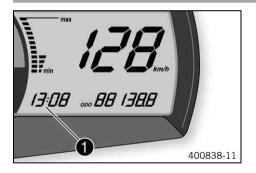
Condition

The motorcycle is stationary.



- Switch on the ignition by turning the ignition key to position **ON** O.
- Press the **MODE** button repeatedly until the **ODO** mode is active.
- Keep the MODE button pressed until the display mode changes from km/h to mph or from mph to km/h.

Combination instrument - time



The time is shown in area **1** of the display.



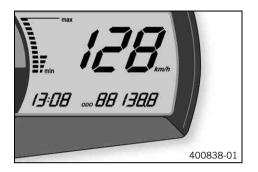
Info

After reconnecting the battery or changing the fuse, the time must be reset.

Setting the clock

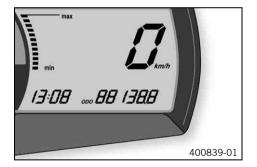
Condition

The motorcycle is stationary.



- Switch on the ignition by turning the ignition key to position ON O.
- Press the MODE button repeatedly until the ODO mode is active.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time display begins to flash.
- Press the MODE button to set the hour.
- Press the SET button to set the minute.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time is set.

Combination instrument - display 0D0



In the **ODO** display mode, the total distance traveled is shown in kilometers or miles.



Info

This value is retained, even if the battery is disconnected and/or the fuse blows.

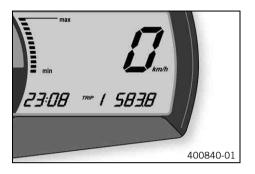
Combination instrument - setting/resetting TRIP 1



Info

The TRIP 1 trip counter is always running and counts up to 999.9.

The trip counter can be used to measure the distance covered during trips or between two refueling stops. After the value **999.9** is reached, the trip counter starts at **0.0** again.



- Switch on the ignition by turning the ignition key to position ON O.
- Press the **MODE** button repeatedly until the **TRIP 1** mode is active.
- Keep the **SET** button pressed.
 - ✓ The TRIP 1 display is set to 0.0.

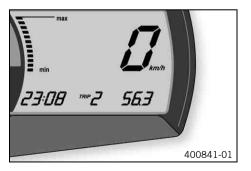
Combination instrument - setting/resetting TRIP 2



Info

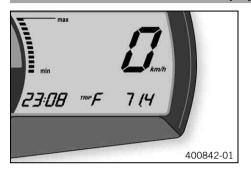
The TRIP 2 trip counter is always running and counts up to 999.9.

The trip counter can be used to measure the distance covered during trips or between two refueling stops. After the value **999.9** is reached, the trip counter starts at **0.0** again.



- Switch on the ignition by turning the ignition key to position $\mathbf{ON} \cap \mathbf{N}$.
- Press the **MODE** button repeatedly until the **TRIP 2** mode is active.
- Keep the SET button pressed.
 - ✓ The TRIP 2 display is set to 0.0.

Combination instrument - TRIP F display



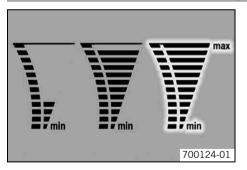
If the fuel level drops to the reserve mark, the display automatically changes to **TRIP F** and starts to count from **0.0**, regardless of the previous display mode.



Info

The low fuel warning lamp lights up in parallel to the **TRIP F** display.

Combination instrument - coolant temperature indicator



The temperature display consists of 12 bars. The more bars that light up, the hotter the coolant. When the upper bar lights up, all bars in the display begin to flash and the temperature warning lamp lights up.

- Engine cold Up to four bars light up.
- Engine warm Five to eleven bars light up.
- Engine hot All twelve bars flash.

Opening the filler cap



Danger

Fire hazard Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See the notes on refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

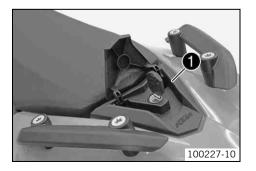
Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel. Store fuel in a suitable canister according to regulations and keep it out of the reach of children.



Warning

Environmental hazard Improper handling of fuel is a danger to the environment.

Do not allow fuel to get into the ground water, the ground, or the sewage system.



- Lift the cover of filler cap and insert the ignition key.
- Turn the ignition key 90° counterclockwise and remove the filler cap.



Info

The filler cap has a tank air vent system.

Closing filler cap



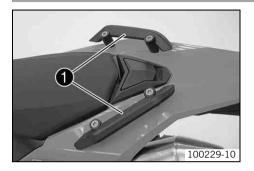
- Put the filler cap back on and turn the ignition key 90° clockwise.
- Remove the ignition key and fold down the cover.

Seat release



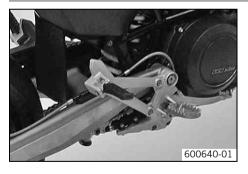
The seat can be released using strap **1**.

Handrails



The handrails **①** are used for moving the motorcycle around. When you have a passenger, the passenger can hold on the handrails during the journey.

Passenger footrests

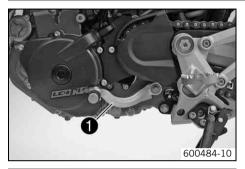


The passenger footrests can be folded up and down.

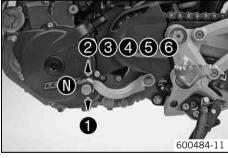
- Passenger footrests folded up For operation without a passenger.
- Passenger footrests folded down For operation with a passenger.

CONTROLS 35

Shift lever

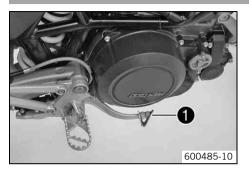


The shift lever **1** is mounted on the left side of the engine.



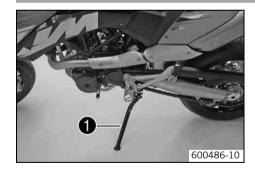
The gear positions can be seen in the photograph. The neutral or idle position is between the first and second gears. CONTROLS 36

Foot brake lever



Foot brake lever **1** is located in front of the right footrest. The rear brake is engaged with the foot brake lever.

Side stand



The side stand **①** is located on the left side of the vehicle. The side stand is used for parking the motorcycle.



Info

The side stand must be folded up during motorcycle use.

The side stand is coupled with the safety electric starter system - see the riding instructions.

Possible states

- Side stand folded out The vehicle can be supported on the side stand. The safety electric starter system is active.
- Side stand folded in This position is mandatory when riding the motorcycle. The safety electric starter system is inactive.

Advice on first use



Danger

Danger of accidents Danger arising from the rider's judgement being impaired.

 Do not operate the vehicle while under the influence of alcohol, drugs and certain medications or physically or mentally impaired.



Warning

Risk of injury Missing or poor protective clothing present an increased safety risk.

Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. Always wear
protective clothing, which must be undamaged and meet legal requirements.



Warning

Danger of crashing Poor vehicle handling due to different tire tread patterns on front and rear wheels.

- The front and rear wheels must be fitted with tires with similar tread patterns to prevent loss of control over the vehicle.



Warning

Danger of accidents Uncontrollable handling characteristic due to non-approved and/or non-recommended tires/wheels.

Only tires/wheels approved by KTM and with the corresponding speed index should be used.



Warning

Danger of accidents Reduced road grip with new tires.

New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.



Danger of accidents Failure of brake system.

If the foot brake lever is not released, the brake linings drag continuously. The rear brake may fail due to overheating. Take your foot off the foot brake lever when you are not braking.



Info

When using your vehicle, remember that others may feel disturbed by excessive noise.

- Make sure that the pre-delivery inspection work has been carried out by an authorized KTM workshop.
 - You receive a delivery certificate and the service record at vehicle handover.
- Before your first trip, read the entire operating instructions carefully.
- Get to know the controls.
- Adjust the basic position of clutch lever. (* p. 75)
- Adjust the basic position of hand brake lever. (p. 77)
- Adjust the basic position of the foot brake lever. ⁴ (p. 82)
- Get used to handling the vehicle on a suitable piece of land before making a longer trip. Try also to ride as slowly as possible and in a standing position to get a better feeling for the vehicle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Run the engine in.

Running in the engine

During the running-in phase, do not exceed the specified engine speed and engine performance.

Guideline

Maximum engine speed	
During the first: 1,000 km (621.4 mi)	6,000 rpm
After the first: 1,000 km (621.4 mi)	7,800 rpm

Avoid fully opening the throttle!

Loading the vehicle



Warning

Danger of accidents Unstable handling characteristics.

 Do not exceed the maximum permitted weight and axle loads. The overall weight consists of: motorcycle operational and with a full tank, driver and passenger with protective clothing and helmet, baggage.



Warning

Danger of accidents Unstable handling characteristics due to incorrect mounting of suitcase and/or tank rucksack.

- Mount and secure suitcase and tank rucksack according to the manufacturer's instructions.



Warning

Danger of accidents Unstable handling characteristics at high speed.

Adapt your speed according to your payload. Ride more slowly if your motorcycle is loaded with cases or other baggage.
 Maximum speed with baggage
 130 km/h (80.8 mph)



Warning

Danger of accidents Risk of breakage of suitcase system.

- If you have fitted suitcases on your motorcycle, read the manufacturer's specifications concerning the maximum payload.



Warning

Danger of accidents Poor visibility for other road users due to slipped baggage.

If the tail light is covered, you are less visible to traffic behind you, especially in the dark. Check that your baggage is fixed
properly at regular intervals.



Warning

Danger of accidents
Changed handling characteristics and longer stopping distance with excessive payload.

Adapt your speed according to your payload.



Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.



Warning

Danger of burns A hot exhaust system can burn baggage.

- Fasten your baggage in such a way that it cannot be burned or singed by the hot exhaust system.
- If you carry any baggage, make sure it is fixed firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.
- Do not exceed the overall maximum permitted weight and the axle loads.

Guideline

Maximum permissible overall weight	350 kg (772 lb.)
Maximum permissible front axle load	150 kg (331 lb.)
Maximum permissible rear axle load	200 kg (441 lb.)

Performing checks and vehicle care when preparing for use



Info

Before each use, check the state and roadworthiness of the vehicle. Make sure that the vehicle is in perfect technical condition before use.

- Check the engine oil level. (* p. 122)
- Check the front brake fluid level. (* p. 78)
- Check the rear brake fluid level. (* p. 83)
- Check the front brake linings. (* p. 80)
- Check the rear brake linings. (* p. 85)
- Check the brake system function.
- Check the coolant level. (* p. 114)
- Check the chain for dirt. (* p. 66)
- Check the chain tension. (* p. 68)
- Check the tire condition. (* p. 94)
- Check the tire air pressure. (* p. 95)
- Check that all controls are correctly adjusted and free to move.
- Check that the electrical equipment is functioning correctly.
- Check that baggage is correctly secured.
- Sit on the motorcycle and check the rear mirror setting.
- Check the fuel level.

Starting



Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

 When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.



Caution

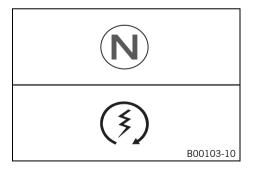
Danger of accidents If the vehicle is operated with a discharged battery or without a battery, electronic components and safety equipment may be damaged.

Never operate the vehicle with a discharged battery or without a battery.

Note

Engine failure High engine speeds in cold engines have a negative effect on the service life of the engine.

Always warm up the engine at low engine speeds.



- Turn the emergency OFF switch to the position ○.
- Switch on the ignition by turning the ignition key to position ON ○.
 - ✓ After you switch on the ignition, you can hear the fuel pump working for about 2 seconds. At the same time, the function test of the combination instrument is run.
- Shift gear to neutral.
 - ✓ The green idling speed indicator lamp N lights up.
- Press the electric starter button ③.



Info

Do not press the electric starter button until the function test of the combination instrument is finished.

When starting, **DO NOT** open the throttle. If you open the throttle during the starting procedure, fuel is not injected by the engine management system and the engine cannot start.

Press the starter for a maximum of 5 seconds. Wait for at least 5 seconds before trying again.

This motorcycle is equipped with a safety start system. You can only start the engine if the gearbox is in neutral or if the clutch is pulled when a gear is engaged. If the side stand is folded out and you shift into gear and release the clutch, the engine stops.

 Take the weight off the side stand and swing it back up with your foot as far as it will go.

Starting off

- Pull the clutch lever, engage 1st gear, release the clutch lever slowly and simultaneously open the throttle carefully.

Shifting, riding



Warning

Danger of accidents Abrupt load alterations can cause the vehicle to get out of control.

Avoid abrupt load alterations and sudden braking actions, and adapt your speed to the road conditions.



Warning

Danger of accidents
If you change down at high engine speed, the rear wheel can lock up.

- Do not change into a low gear at high engine speed. The engine races and the rear wheel can lock up.



Danger of accidents Malfunctions caused by incorrect ignition key position.

Do not change the ignition key position during a journey.



Warning

Danger of accidents Distraction from traffic activity by adjustments to the vehicle.

Make all adjustments when the vehicle is at a standstill.



Warning

Risk of injury The passenger must be capable of sitting correctly on the passenger seat.

The passenger must hold on to the rider or the handrails and place his feet on the passenger footrests. Note the regulations
governing the minimum age of passengers in your country.



Warning

Danger of accidents Danger of accidents caused by dangerous driving.

- Comply with traffic regulations and ride defensively and foresightedly to detect sources of danger early on.



Warning

Danger of accidents Reduced road grip with cold tires.

 On every journey, take the first miles carefully at moderate speed until the tires reach operating temperature and optimal road grip is ensured.



Warning

Danger of accidents Reduced road grip with new tires.

New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.



Danger of accidents Unstable handling characteristics.

 Do not exceed the maximum permitted weight and axle loads. The overall weight consists of: motorcycle operational and with a full tank, driver and passenger with protective clothing and helmet, baggage.



Warning

Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.



Warning

After a fall, check the vehicle as usual before preparing for use.

Note

Engine failure Unfiltered intake air has a negative effect on the service life of the engine.

Never ride the vehicle without an air filter since dust and dirt can get into the engine and result in increased wear.

Note

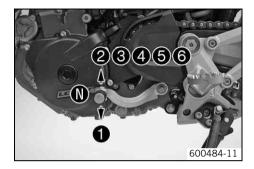
Engine failure Overheating of engine.

If the coolant temperature warning lamp lights up, stop and switch off the engine. Allow the engine to cool down and check the
coolant level in the radiator, and top up if necessary. If you continue with the coolant temperature warning lamp alight, you may have
engine failure.



Info

If you hear unusual noises while riding, stop immediately, switch off the engine and contact an authorized KTM workshop.



- When conditions allow (incline, road situation, etc.), you can shift into a higher gear.
- Release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch and open the throttle.



Info

You can see the positions of the 6 forward gears in the figure. The neutral or idle position is between the first and second gears. First gear is used for starting off or for steep inclines.

The operating temperature is reached when 5 bars of the temperature indicator light up.

- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is 34 open. This will barely reduce the speed but fuel consumption will be considerably lower.
- Accelerate only up to a speed suitable for the road surface and weather conditions. When traveling in bends, do not shift, and accelerate very carefully.
- To shift down, brake if necessary and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly and open the throttle or shift again.
- If the engine stalls (e.g. at a crossroads), just pull the clutch lever and press the starter button. You do not have to shift into neutral.
- Switch off the engine if you expect to be standing for a long time.
- Avoid frequent and longer slipping of the clutch. This heats the engine oil, the engine and the cooling system.
- Ride with a lower engine speed instead of with a high engine speed and a slipping clutch.
- If the **FI** warning lamp (**MIL**) lights up during a trip, stop immediately. When you shift to neutral, the FI warning lamp (MIL) starts to flash.



Info

From the flashing rhythm, you can derive a two-digit number, the so-called blink code. The blink code tells you which component has a fault.

Braking



Warning

Danger of accidents If you brake too hard, the wheels can lock.

- Adapt your braking to the traffic situation and the road conditions.



Warning

Danger of accidents Reduced braking efficiency due to wet or dirty brakes.

- Clean or dry dirty or wet brakes by riding and braking gently.



Warning

Danger of accidents Reduced braking efficiency caused by spongy pressure point of front or rear brake.

- Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Failure of brake system.

If the foot brake lever is not released, the brake linings drag continuously. The rear brake may fail due to overheating. Take your foot off the foot brake lever when you are not braking.



Warning

Danger of accidents Longer stopping distance due to higher overall weight.

Take the longer stopping distance into account when carrying a passenger and baggage.



Danger of accidents Delayed brake action on salted roads.

- There may be salt deposits on the brake discs. In order to restore the normal braking efficiency, you will need to remove the deposits from the discs by carefully applying the brakes.
- To brake, release the throttle and operate the front and rear brakes simultaneously.
- On sandy, wet or slippery surfaces, use the rear brake.
- Braking should always be completed before you go into a bend. Change down to a lower gear appropriate to your road speed.
- On long downhill stretches, use the braking effect of the engine. Change down one or two gears, but do not overstress the engine. In
 this way, you have to brake far less and the brakes do not overheat.

Stopping, parking



Warning

Risk of misappropriation Usage by unauthorized persons.

Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons. If you leave the vehicle, lock the steering and remove the ignition key.



Warning

Danger of burns Some vehicle components become very hot when the vehicle is operated.

 Do not touch hot components such as exhaust system, radiator, engine, shock absorber and brakes. Allow these components to cool down before starting work on them.

Note

Danger of damage The parked vehicle may roll away or fall over.

Always place the vehicle on a firm and even surface.

Note

Fire hazard Some vehicle components become very hot when the vehicle is operated.

 Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.

Note

Material damage Damage and destruction of components by excessive load.

- The side stand is designed for the weight of the motorcycle only. Do not sit on the motorcycle when it is supported by the side stand only. The side stand and/or the frame could be damaged and the motorcycle could fall over.
- Brake the motorcycle.
- Shift gear to neutral.
- Switch off the ignition by turning the ignition key to position **OFF** \boxtimes .



Info

If the engine is switched off with the emergency OFF switch and the ignition remains switched on at the ignition lock, power continues to flow to most power consumers and the battery will discharge. You should therefore always switch off the engine with the ignition key - the emergency OFF switch is intended for emergencies only.

- Park the motorcycle on a firm surface.
- Swing the side stand forward with your foot as far as it will go and lean the vehicle on it.
- Lock the steering by turning the handlebar fully to the left, pressing down the ignition key to position ⋈ and turning it to position ⋈.
 To make the steering lock engage more easily, move the handlebar a little to the left and right. Remove the ignition key.

Refueling



Danger

Fire hazard Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See the notes on refueling.



Danger of poisoning Fuel is poisonous and a health hazard.

Avoid contact of the fuel with skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately
with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel.

Note

Material damage Premature clogging of the fuel filter.

- In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system. (Your authorized KTM workshop will be glad to help.)
- Only refuel with clean fuel that meets the specified standards.



Warning

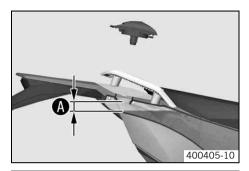
Environmental hazard Improper handling of fuel is a danger to the environment.

- Do not allow fuel to get into the ground water, the ground, or the sewage system.



Info

This motorcycle is equipped with a regulated catalytic converter. Leaded fuel will destroy the catalytic converter. You should therefore use unleaded fuel only.





- Switch off the engine.
- Open the filler cap. (♥ p. 32)
- Fill the fuel tank with fuel up to measurement ...

Guideline

Measurement 4		20 mm (0.79 in)	
Total fuel tank capacity, approx.	12 I (3.2 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 161)	

- Close the filler cap. (* p. 33)
- Press the SET button 2 for two seconds.
 - ✓ The fuel level warning lamp switches off. TRIP F is set to 0.0 and appears in the previous display mode.



Info

If you do not press the $\bf SET$ button $\bf ②$, the reset takes place automatically after about three minutes.

Service schedule

	K10N	K75A	K150A	K300A
Check that the electrical equipment is functioning correctly.	•	•	•	•
Read out the fault memory using the KTM diagnostics tool.	•	•	•	•
Check the measured service values with the KTM diagnostics tool.		•	•	•
Change the engine oil and filter, clean the oil screens. 🍑 (* p. 123)	•	•	•	•
Check the front brake linings. (* p. 80)	•	•	•	•
Check the rear brake linings. (** p. 85)	•	•	•	•
Check the brake discs. (* p. 77)	•	•	•	•
Check the brake lines for damage and leakage.	•	•	•	•
Check the rear brake fluid level. (* p. 83)	•	•	•	•
Check the free travel of the foot brake lever. (* p. 81)	•	•	•	•
Lubricate the linkage of the rear wheel suspension.				•
Check that the shock absorber and fork are leak tight. If necessary and depending on use, service the fork and shock absorber.	•	•	•	•
Check the swingarm bearing.		•	•	•
Check the wheel bearing for play.		•	•	•
Check the tire condition. (* p. 94)	•	•	•	•
Check the tire air pressure. (* p. 95)	•	•	•	•
Check the spoke tension. (* p. 96)	•	•	•	•
Check for rim run-out.	•	•	•	•
Check the chain, rear sprocket, engine sprocket and chain guide. (* p. 71)		•	•	•
Check the chain tension. (* p. 68)	•	•	•	•
Grease all moving parts (e.g. side stand, hand lever, chain,) and check for smooth operation.	•	•	•	•

	K10N	K75A	K150A	K300A
Clean the dust boots of the fork legs.		•	•	•
Check the front brake fluid level. (* p. 78)	•	•	•	•
Bleed the fork legs. (♥ p. 63)		•	•	•
Check the steering head bearing play.	•	•	•	•
Change the spark plug.			•	•
Check the valve clearance.		•	•	•
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing.			•	•
Check the antifreeze and coolant level. (* p. 112)	•	•	•	•
Check the cables for damage and routing without sharp bends.		•	•	•
Check that the throttle cables are undamaged, routed without sharp bends and set correctly.	•	•	•	•
Change the air filter. Clean the air filter box. 🔏		•	•	•
Check the fuel pressure.		•	•	•
Check the CO adjustment with the KTM diagnostics tool. ◀		•	•	•
Check/rectify the fluid level of the hydraulic clutch. (* p. 76)		•	•	•
Check the screws and nuts for tightness.	•	•	•	•
Change the coolant.				•
Change the front brake fluid. 🌂			•	•
Change the rear brake fluid. 🌂			•	•
Check the clutch.			•	•

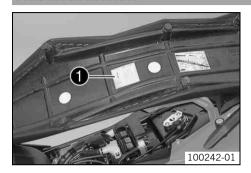
	K10N	K75A	K150A	K300A
Check the headlight setting.	•	•	•	•
Check that the radiator fan is functioning properly.	•	•	•	•
Final check: Check the vehicle for roadworthiness and take a test ride.	•	•	•	•
Read out the fault memory using the KTM diagnostics tool after a test ride.	•	•	•	•
Make the service entry in KTM DEALER.NET and in the service record.	•	•	•	•

K10N: Once after 1,000 km (621.4 mi)

K75A: Every 7,500 km (4,660 mi) or annually

K150A: Every 15,000 km (9,321 mi) or every 2 years **K300A:** Every 30,000 km (18,641 mi) or every 4 years

Fork/shock absorber



The fork and the shock absorber offer many options of adapting the chassis to your riding style and the payload.



Info

To help you adapt the vehicle, we have summarized our findings in Table ①. You can find the table on the underside of the seat.

These adjustments should be understood as a guideline and should always be the basis of your own personal chassis adaptation. Do not change the adjustments at random or by more than \pm 40%, since otherwise the riding characteristics could deteriorate, particularly at high speeds.

Adjusting the compression damping of the fork



Info

The hydraulic compression damping determines the fork suspension behavior.



Turn adjusting screws • clockwise until they stop.



Info

The adjusting screws are located at the bottom end of the fork legs. Make the same adjustment on both fork legs.

- Turn back counterclockwise by the number of clicks corresponding to the fork type.

Guideline

Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks



Info

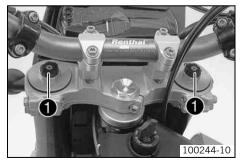
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the rebound damping of the fork



Info

The hydraulic rebound damping determines the fork rebound behavior.



Turn adjusting screws 1 clockwise until they stop.



Info

The adjusting screws are located at the top end of the fork legs. Make the same adjustment on both fork legs.

Turn back counterclockwise by the number of clicks corresponding to the fork type.

Guideline

Rebound damping	
Comfort	15 clicks
Standard	10 clicks
Sport	5 clicks
Full payload	5 clicks



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Compression damping of the shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed.

High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.

The high-speed setting, for example, has an effect on the landing after a jump: the rear wheel suspension compresses more quickly.

The low-speed setting, for example, has an effect when riding over long ground swells: the rear wheel suspension compresses more slowly. These two ranges can be adjusted separately, although the transition between high-speed and low-speed is gradual. Thus, changes in the high-speed range affect the compression damping in the low-speed range and vice versa.

Adjusting the low-speed compression damping of the shock absorber



Caution

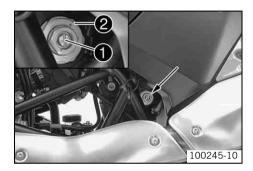
Danger of accidents Disassembly of pressurized parts can lead to injury.

 The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)



Info

The low-speed setting can be seen during the slow to normal compression of the shock absorber.



 Turn the adjusting screw • clockwise with a screwdriver up to the last perceptible click.



Info

Do not loosen nut 2!

 Turn back counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

Compression damping, low-speed	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the high-speed compression damping of the shock absorber



Caution

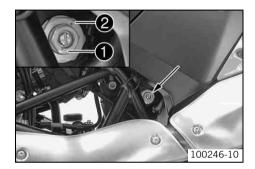
Danger of accidents Disassembly of pressurized parts can lead to injury.

 The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)



Info

The high-speed setting can be seen during the fast compression of the shock absorber.



Turn adjusting screw • all the way clockwise using a socket wrench.



Info

Do not loosen nut 2!

 Turn back counterclockwise the number of turns corresponding to the shock absorber type.

Guideline

Compression damping, high-speed	
Comfort	1.5 turns
Standard	1 turn
Sport	0.5 turn
Full payload	0.5 turn



Info

Turn clockwise to increase damping, turn counterclockwise to reduce suspension damping.

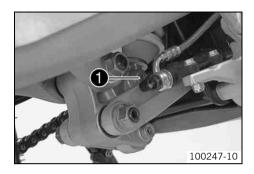
Adjusting the rebound damping of the shock absorber



Caution

Danger of accidents Disassembly of pressurized parts can lead to injury.

 The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)



- Turn adjusting screw 1 clockwise up to the last perceptible click.
- Turn back counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Raising the motorcycle with the front wheel stand

Note

Danger of damage The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.



- Raise the motorcycle with the rear wheel stand. (* p. 62)
- Move the handlebar to the straight-ahead position. Align the front wheel stand with the fork legs using the adapters.

Front wheel stand (61029055300)



Info

Always raise the rear of the motorcycle first.

Raise the front of the motorcycle.

Taking the motorcycle off of the front wheel stand

Note

Danger of damage The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.
- Secure the motorcycle against falling over.
- Remove the front wheel stand.

Raising the motorcycle with the rear wheel stand

Note

Danger of damage The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.



- Insert the adapter into the rear wheel stand and screw into the swingarm on both sides.

Adapter (61029055110)

Rear wheel stand (61029055100)

- Position the motorcycle upright, align the stand and raise the motorcycle.

Taking the motorcycle off of the rear wheel stand

Note

Danger of damage The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.
- Secure the motorcycle against falling over.
- Remove the rear wheel stand and lean the vehicle on the side stand.

Bleeding the fork legs



- Lean the motorcycle on the side stand.
- Remove bleeder screws briefly.
 - ✓ Any excess pressure escapes from the interior of the fork.
- Mount and tighten bleeder screws.



Info

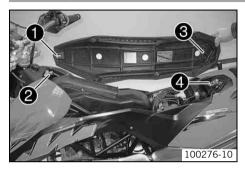
Carry out this action on both fork legs.

Removing the seat



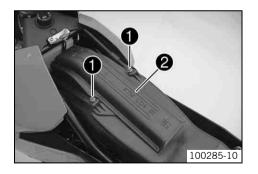
- Pull on strap **1** and raise the rear of the seat at the same time.
- Pull back the seat and lift it off.

Mounting the seat

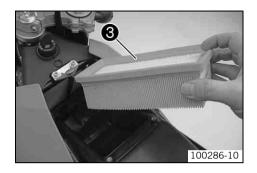


- Hook slot 1 of the seat onto screw 2, press the rear downward and at the same time push it forward.
- Push locking pin 3 into lock housing 4 and push the back of the seat down until the locking pin locks in place with an audible click.
- Finally, check that the seat is correctly mounted.

Removing the air filter 🔦



- Remove the seat. (* p. 63)
- Remove screws ①. Remove filter box top ②.

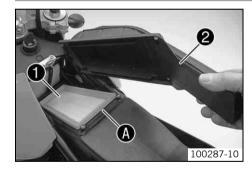


Note

Engine failure Unfiltered intake air has a negative effect on the service life of the engine.

- Never ride the vehicle without an air filter since dust and dirt can get into the engine and result in increased wear.
- Remove air filter 3.

Installing the air filter 🔌



- Clean the air filter box.
- Mount air filter ①.

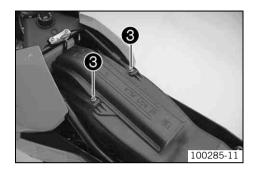


Info

The air filter must lie flush against the air filter box along the entire sealing surface $oldsymbol{\Theta}$.

If the air filter is not correctly mounted, dust and dirt can penetrate into the engine and can cause damage.

Hook filter box top ② into the front of the air filter box and swing down.

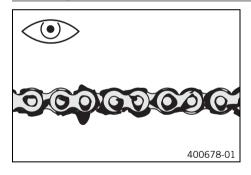


Mount and tighten screws 3.
 Guideline

Screw, air filter box top M6 2 Nm (1.5 lbf ft)	Screw, air filter box top	M6	2 Nm (1.5 lbf ft)
------------------------------------------------	---------------------------	----	-------------------

Mount the seat. (♥ p. 64)

Checking the chain for dirt



- Check the chain for heavy soiling.
 - » If the chain is very dirty:
 - Clean the chain. (* p. 66)

Cleaning the chain



Warning

Danger of accidents Oil or grease on the tires reduces their grip.

- Remove oil and grease with a suitable cleaning material.



Danger of accidents Reduced braking efficiency due to oil or grease on the brake discs.

- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



Warning

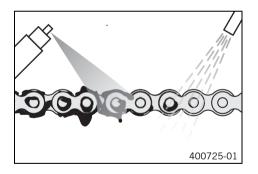
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

The service life of the chain depends largely on its maintenance.



- Clean the chain regularly.
- Rinse off loose dirt with a soft jet of water.
- Remove old grease remains with chain cleaner.

Chain cleaner (p. 162)

After drying, apply chain spray.

Chain lube for road use (p. 162)

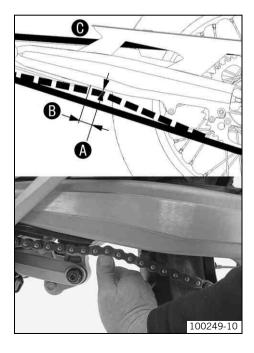
Checking the chain tension



Warning

Danger of accidents Danger caused by incorrect chain tension.

If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break. On the other hand, if the chain is loose, it can fall off the engine sprocket or the rear sprocket and block the rear wheel or damage the engine. Check the chain tension and correct if necessary.



- Lean the motorcycle on the side stand.
- Shift gear to neutral.
- Push the chain upward at a distance **1** from the chain sliding guard and determine the chain tension **3**.



Info

The upper chain section **©** must be taut.

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension	5 mm (0.2 in)
Distance to chain sliding guard	30 mm (1.18 in)

- » If the chain tension does not meet specifications:
 - Adjust the chain tension. (* p. 69)

Adjusting the chain tension

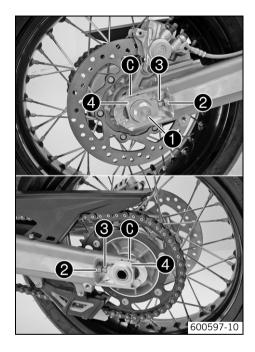


Warning

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If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break. On the other hand, if the chain is loose, it can fall off the engine sprocket or the rear sprocket and block the rear wheel or damage the engine. Check the chain tension and correct if necessary.

Check the chain tension. (* p. 68)



- Loosen nut 1.
- Loosen nuts ②.
- Adjust the chain tension by turning adjusting screws **3** on the left and right. Guideline

Chain tension

5 mm (0.2 in)

Turn the left and right adjusting screws 3 so that the markings on the left and right chain adjusters 4 are in the same position relative to the reference marks 6. The rear wheel is then correctly aligned.



Info

The upper chain section must be taut.

Chain wear is not always even, so you should check this setting at different chain positions.

- Tighten nuts 2.
- Make sure that the chain adjusters @ are installed correctly on adjusting screws @.
- Tighten nut ①.

Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm
		(66.4 lbf ft)

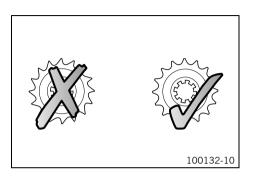


Info

The wide adjustment range of the chain adjusters (30 mm (1.18 in)) enables different secondary transmissions with the same chain length.

The chain adjusters 4 can be turned through 180°.

Check the chain, rear sprocket, engine sprocket and chain guide

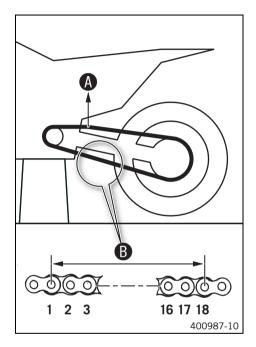


- Raise the motorcycle with the lift stand.
- Shift gear to neutral.
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Replace the rear sprocket or engine sprocket.



Info

The engine sprocket, rear sprocket and chain should always be replaced together.



Pull on the upper section of the chain with the specified weight **a**.
 Guideline

Weight of chain wear measurement 15 kg (33 lb.)



Info

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Maximum distance 3 at the longest	272 mm (10.71 in)
chain section	

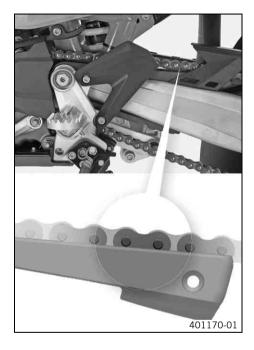
- » If the distance **6** is greater than the specified measurement:
 - Replace the chain.



Info

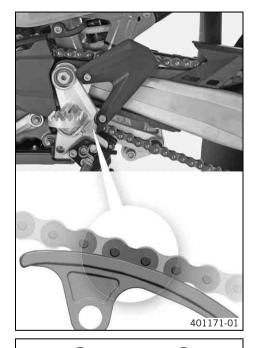
When the chain is replaced, the rear sprocket and engine sprocket should also be changed.

New chains wear out faster on old, worn sprockets.



- Check the chain sliding guard for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding guard:
 - Replace the chain sliding guard. -
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.

Screw, chain sliding	M6	6 Nm	Loctite® 243™
guard		(4.4 lbf ft)	



- Check the chain sliding piece for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding piece:
 - Change the chain sliding piece.
- Check that the chain sliding piece is firmly seated.
 - » If the chain sliding piece is loose:
 - Tighten the chain sliding piece.

Screw, chain sliding piece	M8	15 Nm
		(11.1 lbf ft)

- Check the chain guide for wear.



Info

Wear is visible on the front of the chain guide.

- » If the light part of the chain guide is worn:
 - Change the chain guide.





- Check that the chain guide is firmly seated.
 - If the chain guide is loose:
 - Tighten the chain guide.

Remaining screws, chassis	M6	10 Nm
		(7.4 lbf ft)

Remove the motorcycle from the lift stand.

Adjusting basic position of clutch lever



Info

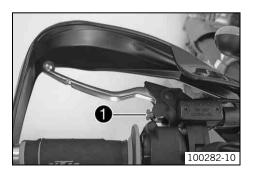
Turn the adjusting screw clockwise to increase the distance between the clutch lever and the handlebar.

Turn the adjusting screw counterclockwise to decrease the distance between the clutch lever and the handlebar.

The range of adjustment is limited.

Turn the adjusting screw by hand only, and do not apply any force.

Do not make any adjustments while riding!



- Adjust the basic setting of the clutch lever to your hand size by turning adjusting screw •.
- When adjusting the clutch lever make sure that there is a minimum clearance to other parts of the vehicle.

Guideline

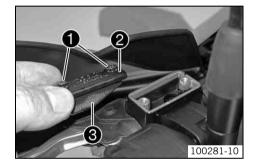
Minimum clearance	5 mm (0.2 in)
-------------------	---------------

Checking/rectifying the fluid level of the hydraulic clutch



Info

The fluid level rises with increasing wear of the clutch lining disc. Do not use brake fluid.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover **2** with membrane **3**.
- Check the fluid level.

Fluid level under top level of container 4 mm (0.16 in)

- If the level of the coolant does not meet specifications:
 - Correct the fluid level of the hydraulic clutch.

Hydraulic fluid (15) (* p. 160)

Position the cover with the membrane. Mount and tighten the screws.

Adjusting the basic position of the hand brake lever



 Adjust the basic setting of the hand brake lever to your hand size by turning adjusting wheel •.



Info

Pull the brake lever forwards and turn the adjusting wheel. Do not make any adjustments while riding!

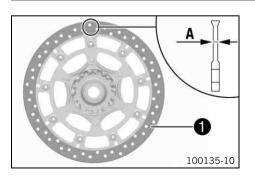
Checking the brake discs



Warning

Danger of accidents Reduced braking efficiency due to worn brake disc(s).

- Change the worn brake disc(s) without delay. (Your authorized KTM workshop will be glad to help.)



 Check the thickness of the front and rear brake discs in several places to ensure that it conforms to measurement .



Info

Wear reduces the thickness of the brake disc at the contact surface $\ensuremath{\mathbf{0}}$ of the brake disc.

Brake discs - wear limit	
Front	4.0 mm (0.157 in)
Rear	4.5 mm (0.177 in)

- » If the brake disc thickness is less than the specified value:
 - Replace the brake disc.
- Check the front and rear brake discs for damage, cracks, and deformation.
 - » If damage, cracks, or deformation are visible on the brake disc:
 - Replace the brake disc.

Checking the front brake fluid level



Warning

Danger of accidents Failure of the brake system.

If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings. Check
the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized KTM workshop will be glad to help.)



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in the viewer ①.
 - » If the brake fluid level is below the MIN mark:
 - Add front brake fluid. 🔌 (🕶 p. 79)

Adding front brake fluid 🔦



Warning

Danger of accidents Failure of the brake system.

 If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Environmental hazard Hazardous substances cause environmental damage.

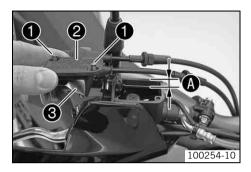
Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

Never use DOT 5 brake fluid! It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover 2 with membrane 3.

Measurement of **1** 5 mm (0.2 in)

Brake fluid DOT 4 / DOT 5.1 (* p. 158)

Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilt brake fluid immediately with water.

Checking the front brake linings



Warning

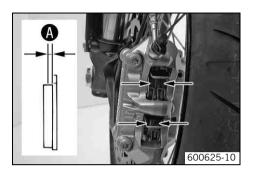
Danger of accidents Reduced braking efficiency caused by worn brake linings.

- Change worn brake linings immediately. (Your authorized KTM workshop will be glad to help.)

Note

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

- If the brake linings are not changed in time, the steel brake lining carriers grind on the brake disc. The braking effect is greatly reduced and the brake discs are rendered unserviceable. Check the brake linings regularly.



- Check the brake linings for minimum thickness **a**.

Minimum thickness (A)

- » If the minimum thickness is less than specified:
 - Change the front brake linings.
- Check the brake linings for damage and cracking.
 - » If there is wear or tearing:
 - Change the front brake linings. 🔌

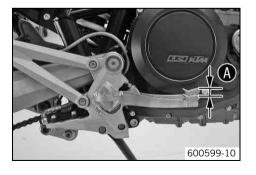
Checking the free travel of foot brake lever



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake can fail due to overheating. Adjust free travel on foot brake lever according to specifications.



 Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel .

Guideline

Free travel at foot brake lever

3... 5 mm (0.12... 0.2 in)

 $\geq 1 \text{ mm } (\geq 0.04 \text{ in})$



Info

You will know that contact has been made with the foot brake cylinder piston when there is increased resistance when you activate the foot brake lever.

- » If the free travel does not meet specifications:
 - Adjust the basic position of the foot brake lever. ⁴ (p. 82)

BRAKES

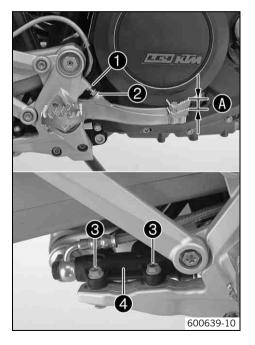
Adjusting the basic position of the foot brake lever 🔧



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake can fail due to overheating. Adjust free travel on foot brake lever according to specifications.



- Remove screws 3 on foot brake cylinder 4.
- To adjust the basic position of the foot brake lever individually, loosen nut and turn screw ② accordingly.



Info

The range of adjustment is limited. The screw must be screwed into the footrest bracket by at least four turns.

Position foot brake cylinder 4 so that the foot brake lever has the necessary free travel. Hold screws 6 in place and tighten the nuts.

Guideline

Nut. foot brake cylinder screw	M6	10 Nm (7.4 lbf ft)
		20 (/

- Check the free travel of the foot brake lever. (* p. 81)
- Tighten nut ①.

BRAKES 83

Checking rear brake fluid level



Warning

Danger of accidents Failure of the brake system.

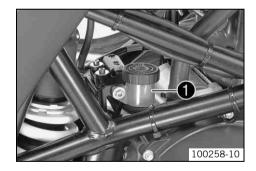
If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings. Check
the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized KTM workshop will be glad to help.)



- Stand the vehicle upright.
- Check the brake fluid level in the brake fluid reservoir.
 - » If the fluid level reaches the **MIN** marking **1**:
 - Add rear brake fluid. (* p. 83)

Adding rear brake fluid 🔌



Warning

Danger of accidents Failure of the brake system.

 If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.) BRAKES 8



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Environmental hazard Hazardous substances cause environmental damage.

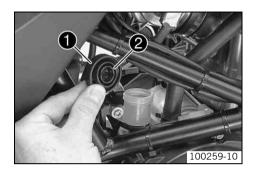
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

Never use DOT 5 brake fluid! It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.



- Stand the vehicle upright.
- Remove screw cap with the washer and membrane •.
- Add brake fluid to the MAX mark.

Brake fluid DOT 4 / DOT 5.1 (* p. 158)

Mount the screw cap with the washer and membrane.



Info

Clean up overflowed or spilt brake fluid immediately with water.

Checking the rear brake linings



Warning

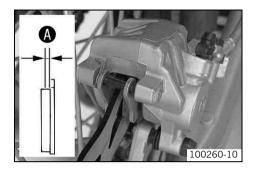
Danger of accidents Reduced braking efficiency caused by worn brake linings.

Change worn brake linings immediately. (Your authorized KTM workshop will be glad to help.)

Note

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

If the brake linings are not changed in time, the steel brake lining carriers grind on the brake disc. The braking effect is greatly reduced and the brake discs are rendered unserviceable. Check the brake linings regularly.



Check the brake linings for minimum thickness **A**.

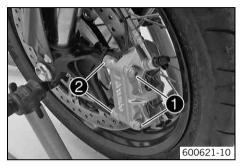
Minimum thickness

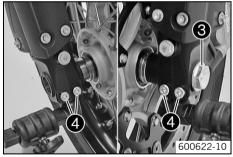
≥ 1 mm (≥ 0.04 in)

- » If the minimum thickness is less than specified:
 - Change the rear brake linings.
- Check the brake linings for damage and cracking.
 - » If there is wear or tearing:
 - Change the rear brake linings.

WHEELS, TIRES

Removing front wheel





- Raise the motorcycle with the rear wheel stand. (* p. 62)
- Raise the motorcycle with the front wheel stand. (* p. 61)
- Remove screws and spacers •.
- Press back the brake linings with a light lateral tilting of the brake caliper on the brake disc. Pull the brake caliper carefully back from the brake disc and hang it to one side.

87



Info

Do not pull the handbrake lever when the brake caliper is removed.

- Loosen screws 3 and 4.
- Unscrew screw 3 about 6 turns and press your hand on the screw to push the wheel spindle out of the axle clamp. Remove screw 3.

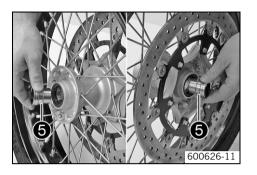


Warning

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

- Always lay the wheel down in such a way that the brake disc is not damaged.
- Holding the front wheel, withdraw the wheel spindle. Take the front wheel out of the fork.

WHEELS, TIRES



Remove distance bushings 6.

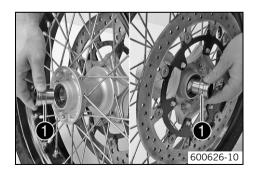
Installing the front wheel 🔌



Warning

Danger of accidents Reduced braking efficiency due to oil or grease on the brake discs.

- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Replace the wheel bearing.
- Clean and grease the shaft seal rings and bearing surface of the distance bushings $oldsymbol{0}.$

Long-life grease (p. 163)

Insert the spacers.



Clean and grease the thread of the wheel spindle and screw ②.

Long-life grease (p. 163)

 Lift the front wheel into the fork, position it, and insert the wheel spindle. Mount and tighten screw ②.

Guideline

Screw, front wheel spindle	M24x1.5	40 Nm
		(29.5 lbf ft)

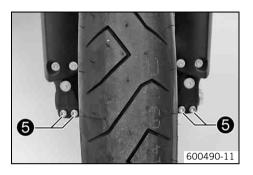
- Position the brake caliper and check that the brake linings are seated correctly.
- Position spacers 3. Mount screws 4 but do not tighten.
- Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. Fix the hand brake lever in the activated position.
 - ✓ The brake caliper straightens.
- Fully tighten screws 4.

Guideline

Screw, front brake caliper	M10x1.25	45 Nm	Loctite [®] 243™
		(33.2 lbf ft)	

Remove the fixation of the hand brake lever.

WHEELS, TIRES 90



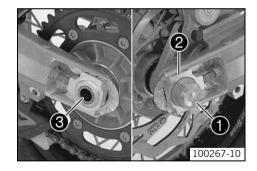
- Take the motorcycle off of the front wheel stand. (** p. 61)
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Tighten screws **6**.

Guideline

Screw, fork stub	M8	15 Nm
		(11.1 lbf ft)

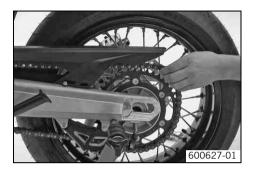
Take the motorcycle off of the rear wheel stand. (* p. 62)

Removing rear wheel



- Raise the motorcycle with the rear wheel stand. (* p. 62)
- Press the brake caliper by hand on to the brake disc in order to press back the brake piston.
- Remove nut 1. Remove chain adjuster 2.
- Holding the rear wheel, withdraw the wheel spindle 3.

WHEELS, TIRES 91



- Push the rear wheel forwards as far as possible and take the chain off the rear sprocket.



■ Warning

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

- Always lay the wheel down in such a way that the brake disc is not damaged.
- Take the rear wheel out of the swing arm.



Info

Do not operate the foot brake when the rear wheel is removed.

Installing the rear wheel 🔌



Warning

Danger of accidents Reduced braking efficiency due to oil or grease on the brake discs.

- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.

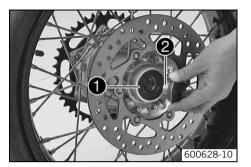


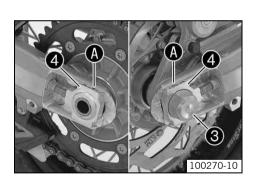
Warning

Danger of accidents No braking effect when operating the rear brake.

- After installing the rear wheel, always operate the foot brake until the pressure point is reached.
 - Check the rear hub rubber dampers. 4 (* p. 93)

WHEELS. TIRES





- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Replace the wheel bearing.
- Remove the bushing ①. Clean and grease the roll surfaces of the bushing and the shaft seal ring ②.

Long-life grease (p. 163)

Clean and grease the thread of the wheel spindle and nut 3.

Long-life grease (p. 163)

- Install the rubber damper and rear sprocket carrier in the rear wheel.
- Place the rear wheel in the swingarm and bring the brake disc on the brake caliper into contact.
- Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.
- Mount the wheel spindle, chain adjusters and nuts.

Guideline

In order that the rear wheel is correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to the reference marks **3**.



Info

Mount the left and right chain adjusters **4** in the same position.

Tighten nut 3.

Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm
		(66.4 lbf ft)

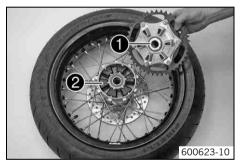
 Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. - Take the motorcycle off of the rear wheel stand. (** p. 62)

Checking the rear hub rubber dampers 🔏

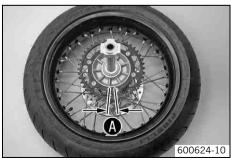


Info

The engine power is transmitted from the rear sprocket to the rear wheel via 6 rubber dampers. They eventually wear out during operation. If the rubber dampers are not changed in time, the rear sprocket carrier and the rear hub will be damaged.



- Remove the rear wheel. **◄** (**•** p. 90)
- Check bearing ①.
 - » If the bearing is damaged or worn:
 - Replace the bearings.
- Check rubber dampers ② of the rear hub for damage and wear.
 - » If the rubber dampers of the rear hub are damaged or worn:
 - Change all rubber dampers in the rear hub.



- Lay the rear wheel on a workbench with the rear sprocket facing upwards and insert the wheel spindle in the hub.
- To check play
 O, hold the rear wheel tight and try to rotate the rear sprocket.



Info

Measure the play on the outside of the rear sprocket.

Play in rubber dampers, rear wheel	≤ 5 mm (≤ 0.2 in)
------------------------------------	-------------------

If play $oldsymbol{\Omega}$ is larger than the specified value:

- Change all rubber dampers in the rear hub.
- Install the rear wheel.
 [▲] (p. 91)

Checking the tire condition



Warning

Danger of accidents Uncontrollable vehicle handling in the event of a flat tire.

- In the interest of safety, replace damaged or worn tires immediately. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of crashing Poor vehicle handling due to different tire tread patterns on front and rear wheels.

The front and rear wheels must be fitted with tires with similar tread patterns to prevent loss of control over the vehicle.



Warning

Danger of accidents Uncontrollable handling characteristic due to non-approved and/or non-recommended tires/wheels.

Only tires/wheels approved by KTM and with the corresponding speed index should be used.



Warning

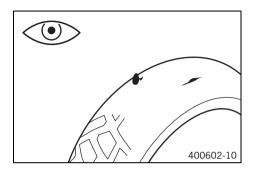
Danger of accidents Reduced road grip with new tires.

New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.



Info

The type, condition and air pressure of the tires all have a major impact on the handling characteristics of the motorcycle. Worn tires have a negative effect on riding behavior, especially on wet surfaces.



- Check the front and rear tires for cuts, run-in objects and other damage.
 - » If the tires exhibit cuts, run-in objects or other damage:
 - Change the tires.
- Check the depth of the tread.



Info

Note local national regulations concerning the minimum tread depth.

Minimum tread depth	≥ 2 mm (≥ 0.08 in)
---------------------	--------------------

- » If the tread depth is less than the minimum permissible depth:
 - Change the tires.
- Check the tire age.



Info

The tire's date of the manufacture is usually part of the tire markings and is indicated by the last four digits of the **DOT** marking. The first two digits refer to the week of manufacture and last two digits refer to the year of manufacture. KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

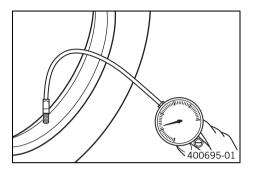
- » If a tire is more than 5 years old:
 - Change the tires.

Checking the tire air pressure



Info

Low tire air pressure leads to abnormal wear and overheating of the tire. Correct tire air pressure ensures optimal riding comfort and maximum tire service life.



- Remove dust cap.
- Check tire air pressure when tires are cold.

Tire air pressure, solo	
Front	2.0 bar (29 psi)
Rear	2.0 bar (29 psi)

Tire air pressure with passenger / fully loaded	
Front	2.0 bar (29 psi)
Rear	2.2 bar (32 psi)

- » If the tire pressure does not meet specifications:
 - Correct tire pressure.
- Mount dust cap.

Checking the spoke tension



Warning

Danger of accidents Instable handling due to incorrect spoke tension.

Ensure that the spoke tension is correct. (Your authorized KTM workshop will be glad to help.)

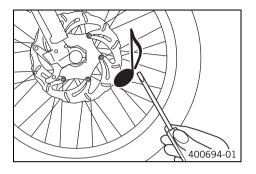


Info

A loose spoke causes wheel imbalance and rapidly leads to more loose spokes.

If the spokes are too tight, they can break due to local overload.

Check the spoke tension regularly, especially on a new motorcycle.



Briefly strike each spoke with a screwdriver blade.



Info

The frequency of the tone is a function of the spoke length and spoke diameter. If you hear different tone frequencies from individual spokes of the same length and thickness, this is an indication of different spoke tensions.

You should hear a high note.

- If the spoke tensions differ:
 - Correct the spoke tension.



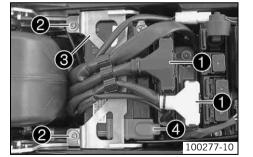
Removing the battery 🔌



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.



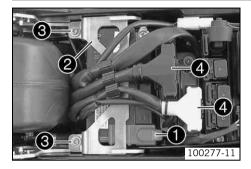
- Switch off all power consumers and switch off the engine.
- Remove the seat. (* p. 63)
- Disconnect the negative (minus) cable of the battery.
- Pull off the plug connector upwards.
- Remove screws ②.
- Pull the retaining bracket 3 of the battery forward and remove it.
- Take off the positive pole cover 4.
- Disconnect the positive (plus) cable of the battery.
- Push the wiring harness to the side and pull the battery out of the battery rack.



Info

Never operate the motorcycle with a discharged battery or without a battery. In both cases, electrical components and safety devices can be damaged. The vehicle is therefore no longer roadworthy.

Installing the battery 🔌



- Slide the battery into the battery rack.



Info

The battery terminals must be at the rear.

- Attach the positive cable and mount positive terminal cover ①.
- Position retaining bracket ②.
- Mount and tighten screws **3**.

Guideline

Remaining screws, chassis M6 10 Nm (7.4 lbf ft)

- Plug in connector 4.
- Attach the minus cable .
- Mount the seat. (* p. 64)
- Set the clock. (* p. 28)

Recharging the battery 🔦



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.



Warning

Environmental hazard Battery parts and acid are harmful to the environment.

Do not discard batteries with the household trash. Dispose of a defective battery in an environmentally compatible manner.
 Give the battery to your KTM dealer or to a recycling center that accepts used batteries.



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

Even when there is no load on the battery, it still loses power steadily.

The charge state and the type of charge are very important for the service life of the battery.

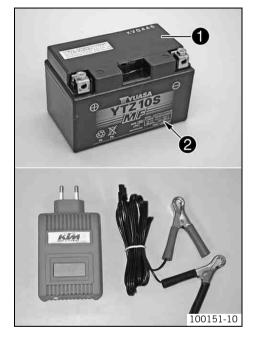
Rapid recharging with a high charging current shortens the battery's service life.

If the charging current, charging voltage and charging time are exceeded, electrolyte escapes through the safety valves. This reduces the battery capacity.

If the battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.

If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfate, destroying the battery. The battery is maintenance-free, which means that the acid level does not need to be checked.

- Switch off all power consumers and switch off the engine.
- Remove the battery. 4 (* p. 98)



- Connect the battery charger to the battery. Switch on the battery charger.

Battery charger (58429074000)

You can also use the battery charger to test rest potential and start potential of the battery, and to test the alternator. With this device, you cannot overcharge the battery.



Info

Never remove lid 1.

Charge the battery with a maximum of 10% of the capacity specified on the battery housing ②.

Switch off and disconnect the charger after charging.

Guideline

The charge current, charge voltage and charge time must not be exceeded.

Charge the battery regularly when the motorcycle is not in use

 $3 \ months$

- Install the battery. 🔌 (🕶 p. 99)

Changing the main fuse



Warning

Fire hazard The electrical system can be overloaded if the wrong fuses are used.

- Use only fuses with the prescribed amperage. Never by-pass or repair fuses.

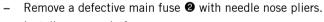


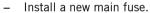
Info

The main fuse protects all power consumers in the vehicle. It is in the housing of the starter relay next to the battery.



- Switch off all power consumers and switch off the engine.
- Remove the seat. (* p. 63)
- Remove protection covers 1.





Fuse (58011109130) (* p. 150)



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Info

A reserve fuse 3 is located in the starter relay.

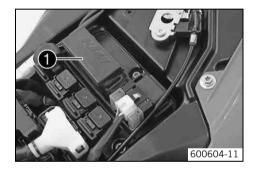
- Check that the electrical equipment is functioning properly.
- Mount the protection covers.
- Mount the seat. (* p. 64)
- Set the clock. (* p. 28)

Changing fuses of individual power consumers

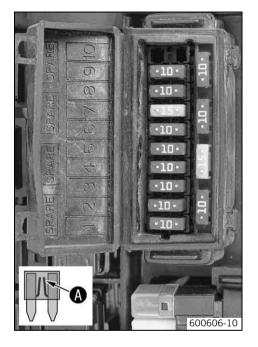


Info

The fuse box containing the fuses of individual power consumers is located under the seat.



- Switch off all power consumers and switch off the engine.
- Remove the seat. (♥ p. 63)
- Open fuse box cover ①.



Remove the defective fuse.

Guideline

Fuse 1 - 10 A - ignition, combination instrument

Fuse 2 - 10 A - clock, ignition (EFI control unit)

Fuse 3 - 10 A - throttle valve control unit

Fuse **4** - 10 A - fuel pump

Fuse 5 - 10 A - radiator fan

Fuse 6 - 10 A - horn, brake light, turn signal

Fuse 7 - 15 A - high beam, low beam, parking light, tail light, license plate lamp

Fuse ${\bf 8}$ - 10 A - for supplementary equipment (accessories connected with ignition switch)

Fuse 9 - 10 A - for accessories (permanent positive)

Fuse 10 - not used

Fuse **SPARE** - 10 A/15 A - spare fuses



Info

A defective fuse is indicated by a burned-out fuse wire **4**.



Warning

Fire hazard The electrical system can be overloaded if the wrong fuses are used.

- Use only fuses with the prescribed amperage. Never by-pass or repair fuses.
- Replace with a spare fuse of the right rating.

Fuse (75011088010) (p. 150)

Fuse (75011088015) (p. 150)

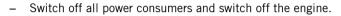


Tip

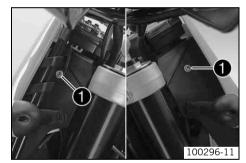
Put a new spare fuse in the fuse box for future use if needed.

- Check the function of power consumers.
- Close the fuse box cover.
- Mount the seat. (p. 64)

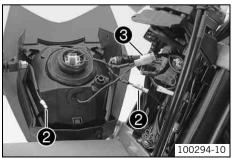
Removing the headlight mask with the headlight



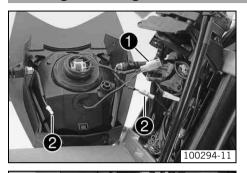
- Cover the fender with a cloth to protect it from damage.
- Remove screws **1** on the left and right.
- Tip the headlight mask forward and pull it off in an upward direction.



- Disconnect the connectors of turn signals 2 and headlight 3. Put down the headlight mask.



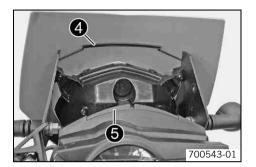
Installing the headlight mask with the headlight



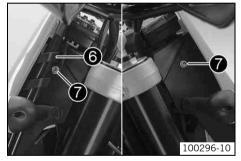
- Connect the connectors of headlight **1** and turn signal lights **2**.
- Check lighting function.



 Remove the cloth from the fender, attach the headlight mask to points 3 on the fender and swing it up to the steering head.



Position groove 4 on counterpiece 5.



Position brake-hose guide 6. Mount and tighten screws 7.
 Guideline

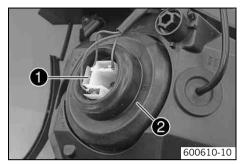
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Changing the headlight bulb

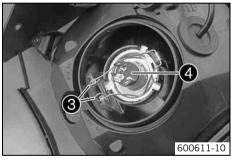
Note

Damage to reflector Reduced luminance.

- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.
 - Remove the headlight mask with the headlight. (* p. 105)



- Pull off connector ①.
- Take off rubber cap ② of the headlight bulb.



- Detach spring bar 3.
- Remove headlight bulb 4.
- Insert a new headlight bulb into the headlight housing.

Headlight (H4 / socket P43t) (* p. 150)

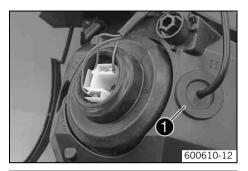
- Fix the headlight bulb in the headlight using the spring bar.
- Replace the rubber cap. Attach the connector.
- Install the headlight mask with the headlight. (* p. 106)

Changing the parking light bulb

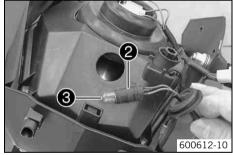
Note

Damage to reflector Reduced luminance.

- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before
 mounting.
 - Remove the headlight mask with the headlight. (* p. 105)



Remove rubber cap ①.



- Pull bulb socket 2 out of the reflector.
- Pull parking light bulb 3 out of the bulb socket.
- Insert a new parking light bulb in the bulb socket.

Parking light (W5W / socket W2.1x9.5d) (p. 150)

- Insert the bulb socket in the reflector.
- Insert the rubber cap.
- Install the headlight mask with the headlight. (p. 106)

Changing the turn signal bulb

Note

Damage to reflector Reduced luminance.

Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before
mounting.



- Remove the screw on the rear of the turn signal housing.
- Tilt headlamp diffuser forward carefully and take it off.
- Press the turn signal bulb carefully into the socket, turn it counterclockwise by about 30°, and take it out of the socket.



Info

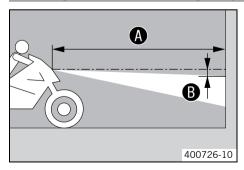
Do not touch the reflector with your fingers, and keep it free from grease.

 Press the new turn signal bulb carefully into the socket and turn it clockwise until it stops.

Turn signal (RY10W / socket BAU15s) (p. 150)

- Position the diffuser.
- Insert the screw and turn it counterclockwise first until it engages in the thread. Tighten the screw slightly.
- Check the turn signal system function.

Checking the low beam headlight adjustment



- Stand the vehicle upright on a horizontal surface in front of a light wall and make a mark at the height of the center of the low beam headlight.
- Make another mark at a distance
 • under the first mark.

Guideline

Distance **3** 5 cm (2 in)

 Position the vehicle vertically at a distance (a) in front of the wall and switch on the low beam.

Guideline

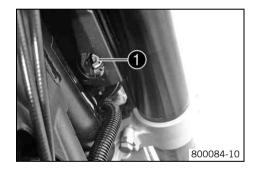
|--|

- The rider, with luggage and a passenger if applicable, now sits down on the motorcycle.
- Check the low beam headlight adjustment.

For a ready-to-operate motorcycle with a rider, and with luggage and a passenger if applicable, the light-dark boundary must lie exactly on the lower mark.

- » If the boundary between light and dark does not meet specifications:
 - Adjust the light range of the low beam headlight.

Adjusting the headlight range



- Check the headlight setting.
- Turn adjusting screw to adjust the headlight range.
 Guideline

For a motorcycle with rider, the light/dark boundary must be exactly on the lower mark (made in: Checking headlight adjustment).



Info

Turn clockwise to increase the headlight range; turn counterclockwise to reduce the headlight range.

If you have a heavy payload, you will need to correct the headlight range.

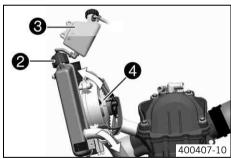
Cooling system



The water pump • in the engine forces the coolant to flow.

The pressure in the cooling system resulting from heat is regulated by a valve in the radiator cap ②. The heat expansion causes the surplus coolant to flow into the compensating tank ③. When the temperature falls, this surplus coolant is sucked back into the cooling system. This permits the specified coolant temperature without causing any malfunctions.

125 °C (257 °F)



Cooling takes place by means of the air stream and a radiator fan **4**, which is controlled by a thermoswitch.

The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect.

Checking the antifreeze and coolant level



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

 Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact
a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately.
Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



Condition

Engine is cold.

- Stand the motorcycle on its side stand on a horizontal surface.
- Remove the cap of the compensating tank ①.
- Check antifreeze of coolant.

- » If the antifreeze of the coolant does not meet specifications:
 - Correct the antifreeze of the coolant.
- Check the coolant level in the compensating tank.

The coolant level must be within the range shown in the figure.

- » If the coolant level does not meet specifications:
 - Correct the coolant level.

Alternative 1

Coolant (* p. 158)

Alternative 2

Coolant (mixed ready to use) (p. 158)

Mount the cap of the compensating tank.



- Screw off the radiator cap ②.
- Check antifreeze of coolant.

» If the antifreeze of the coolant does not meet specifications:

114

- Correct the antifreeze of the coolant.
- Check the coolant level in the radiator.

The radiator must be completely filled.

- » If the coolant level does not meet specifications:
 - Correct the coolant level and find out the cause of the loss.

Alternative 1

Alternative 2

Coolant (mixed ready to use) (* p. 158)

Mount the radiator cap.

Checking the coolant level



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

 Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

Avoid contact between coolant and skin, eves and clothing. If it gets into your eves, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.





Condition

Engine is cold.

- Stand the motorcycle on its side stand on a horizontal surface.
- Check the coolant level in the compensating tank 1.

The coolant level must be within the range shown in the figure.

- If the coolant level does not meet specifications:
 - Correct the coolant level

Alternative 1

Coolant (* p. 158)

Alternative 2

Coolant (mixed ready to use) (p. 158)

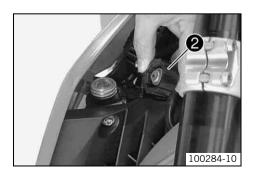
Screw off the radiator cap 2 and check the coolant level in the radiator.

The radiator must be completely filled.

- If the coolant level does not meet specifications:
 - Correct the coolant level and find out the cause of the loss.

Alternative 1

Coolant (* p. 158)



Alternative 2

Coolant (mixed ready to use) (p. 158)

Mount the radiator cap.

Draining the coolant &



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

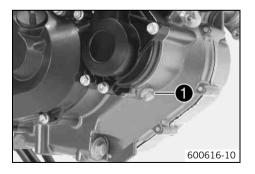
Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine
and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact
a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately.
Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



- Stand the motorcycle upright.
- Place a suitable container under the engine.
- Remove screw ①. Remove the radiator cap.
- Completely drain the coolant.
 - Mount screw with a new seal ring and tighten it.
 Guideline

Plug, drain hole of water pump	M10x1	15 Nm (11.1 lbf ft)
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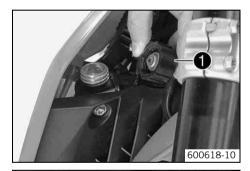
Filling the cooling system 🔌



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact
a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately.
Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



- Stand the motorcycle on its side stand on a horizontal surface.
- Remove radiator cap ①.



Refill the coolant.

Alternative 1

Coolant (* p. 158)

Alternative 2

Coolant (mixed ready to use) (p. 158)

Fill the radiator completely with coolant. Mount radiator cap ①.

COOLING SYSTEM



- Remove the cap from compensating tank ② and add coolant to the level shown in the figure.
- Mount the cap of the compensating tank.

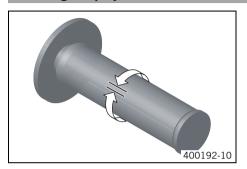


Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and run it until the 5th bar of the temperature indicator lights up.
- Switch off the engine and allow it to cool down.
- After the engine has cooled down, check the coolant level in the radiator and in the compensating tank again and add more coolant if necessary.

Checking the play in the throttle cable



 Move the handlebar to the straight-ahead position. Move the throttle grip backwards and forwards to ascertain the play in the throttle cable.

Throttle cable play

3... 5 mm (0.12... 0.2 in)

- » If the throttle cable play does not meet specifications:
 - Adjust the play in the throttle cable. 🔌 (🕶 p. 120)



Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

- » If the idle speed changes:
 - Adjust the play in the throttle cable. ⁴ (▼ p. 120)

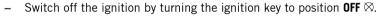
Adjusting the play in the throttle cable 🔌



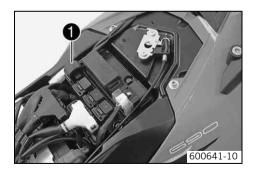
- Move the handlebar to the straight-ahead position.
- Use the KTM diagnostics tool to set the motor drive to the basic position.
- Loosen counter nut ①.
- Set the play in the throttle cable by turning the adjusting screw ②.
 Guideline

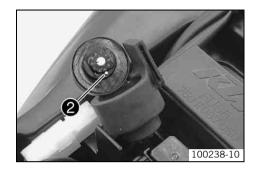
- Tighten counter nut **①**.

Adjusting the engine characteristic



- Remove the seat. (* p. 63)
- Pull the **Map-Select** switch and holder **1** upward off of the retaining bracket.
- Pull the Map-Select switch out of the holder.





- Turn the adjusting wheel until the desired digit is next to marking 2.

Set the Map-Select switch to Soft.

- Set the adjusting wheel to position 1.
 - ✓ Soft reduced homologated peak performance for better driveability.

Set the Map-Select switch to Advanced.

- Set the adjusting wheel to position 2.
 - ✓ Advanced homologated performance with extremely direct responsiveness.

Set the Map-Select switch to Standard.

- Set the adjusting wheel to position 3, 4, 5, 6, 7, 8 or 9.
 - ✓ Standard homologated performance with balanced responsiveness.

Set the Map-Select switch to poor fuel quality.

- Set the adjusting wheel to position **0**.
 - ✓ Poor fuel quality homologated performance is reduced in accordance with the fuel quality, use for no more than 1 tank of fuel
- Position the Map-Select switch in the holder.
- Slide the **Map-Select** switch with the holder downward onto the retaining bracket.
- Mount the seat. (* p. 64)

Checking the engine oil level



Info

The engine oil level must be checked when the engine is warm.

Condition

The engine is at operating temperature.

- Stand the motorcycle upright on a horizontal surface.
- Check the engine oil level.



Info

After switching off the engine, wait one minute before checking the level.

The engine oil must be between the lower and upper edge of the oil level viewer.

- » If the engine oil level is not at the specified level:
 - Add the engine oil. (* p. 129)



Changing the engine oil and filter, cleaning the oil screens 🔏



- Drain the engine oil. 🔌 (🕶 p. 123)
- Remove the oil filter. 🔌 (🕶 p. 124)
- Clean the oil screens. 🔌 (🕶 p. 126)
- Install the oil filter. 🔌 (* p. 128)
- Fill up with engine oil. 🔌 (🕶 p. 128)

Draining the engine oil 🔌



Warning

Danger of scalding Engine oil and gear oil get very hot when the motorcycle is ridden.

- Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.



Warning

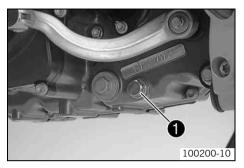
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

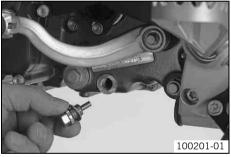


Info

Drain the engine oil only when the engine is warm.



- Place a suitable container under the engine.
- Remove the oil drain plug with the magnet and seal ring.
- Completely drain the engine oil.



- Thoroughly clean the oil drain plug with a magnet.
- Mount the oil drain plug with the magnet and seal ring and tighten it.
 Guideline

Oil drain plug with magnet	M12x1.5	20 Nm
		(14.8 lbf ft)

Removing the oil filter 🔌



Warning

Danger of scalding Engine oil and gear oil get very hot when the motorcycle is ridden.

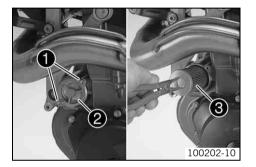
- Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.



Warning

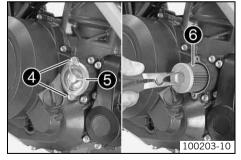
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



- Place a suitable container under the engine.
- Remove screws **1**. Remove the oil filter cover **2** with the O-ring.
- Pull oil filter 3 out of the oil filter housing.

Circlip pliers reverse (51012011000)



- Remove screws **4**. Remove oil filter **5** with the O-ring.
- Pull oil filter 6 out of the oil filter housing.

Circlip pliers reverse (51012011000)

- Completely drain the engine oil.
- Thoroughly clean the parts and sealing area.

Cleaning the oil screens 🔦



Warning

Danger of scalding Engine oil and gear oil get very hot when the motorcycle is ridden.

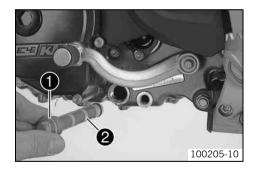
Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.



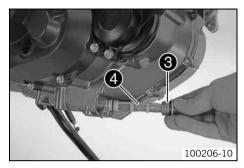
Warning

Environmental hazard Hazardous substances cause environmental damage.

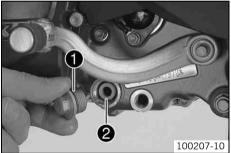
Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



- Place a suitable container under the engine.
- Remove plug with oil screen and the O-rings.

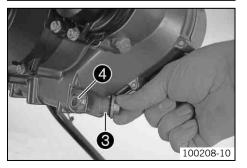


- Remove plug 3 with oil screen 4 and the O-rings.
- Completely drain the remaining engine oil.
- Thoroughly clean the parts and sealing area.



- Position oil screen ② with the O-rings.
- Mount and tighten screw plug with the O-ring.
 Guideline

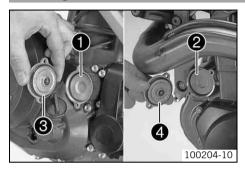
Plug, oil screen	M20x1.5	15 Nm
		(11.1 lbf ft)



- Position oil screen 4 with the O-rings.
- Mount and tighten screw plug with the O-ring.
 Guideline

Plug, oil screen	M20x1.5	15 Nm
		(11.1 lbf ft)

Installing the oil filter 🔌



- Insert oil filters 1 and 2.
- Oil the O-rings of the oil filter covers. Mount oil filter covers 3 and 4.
- Mount and tighten the screws.

Guideline

Filling up with engine oil 🔌



Info

Too little engine oil or poor-quality engine oil results in premature wear to the engine.



Remove filler plug with O-ring • from the clutch cover and add engine oil.

	Engine oil (SAE 10W/60) (00062010035) (* p. 159)	
	Alternative engine oil	Engine oil (SAE 10W/50) (* p. 159)

- Refit plug with O-ring • and tighten it.



Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

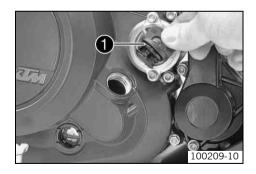
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and check that it is oil-tight.
- Check the engine oil level. (♥ p. 122)

Adding engine oil



Info

Too little engine oil or poor-quality engine oil results in premature wear to the engine.



Remove the oil filler plug with O-ring • from the clutch cover and fill up with engine oil.

Engine oil (SAE 10W/60) (00062010035) (* p. 159)

Engine oil (SAE 10W/50) (p. 159)



Info

For optimal performance of the engine oil, do not mix different types of engine oil.

If appropriate, change the engine oil.

Install and tighten the oil filler plug with O-ring ①.



Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and check that it is oil-tight.
- Check the engine oil level. (* p. 122)

Cleaning the motorcycle

Note

Material damage Damage and destruction of components by high-pressure cleaning equipment.

 Never clean the vehicle with high-pressure cleaning equipment or a strong water-jet. The excessive pressure can penetrate electrical components, socket connects, throttle cables, and bearings, etc., and can damage or destroy these parts.



Warning

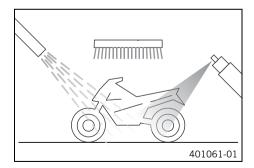
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

If you clean the motorcycle regularly, its value and appearance will be maintained over a long period. Avoid direct sunshine on the motorcycle during cleaning.



- Seal the exhaust system to keep water out.
- First remove coarse dirt particles with a gentle spray of water.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a brush.

Motorcycle cleaner (* p. 163)



Info

Clean the vehicle using a soft sponge and warm water containing normal motor-cycle cleaner.

If the vehicle was operated in road salt, clean it with cold water. Warm water enhances the corrosive effects of salt.

After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.



Warning

Danger of accidents Reduced braking efficiency due to wet or dirty brakes.

- Clean or dry dirty or wet brakes by riding and braking gently.
- After cleaning, ride the vehicle a short distance until the engine is warm, applying the brakes occasionally.



Info

The heat produced causes water at inaccessible locations in the engine and the brakes to evaporate.

- Push back the protection covers of the handlebar controls to allow any water that has penetrated to evaporate.
- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (* p. 66)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Cleaning and preserving materials for metal, rubber and plastic (** p. 162)

Treat all painted parts with a mild paint polish.

High-luster polish for paint (* p. 162)

- Treat all plastic parts and powder-coated parts with a mild cleaning and care agent.

Paint cleaner and polish for high-gloss and matte finishes, bare metal and plastic surfaces (p. 163)

Oil the ignition/steering lock.

Universal oil spray (* p. 163)

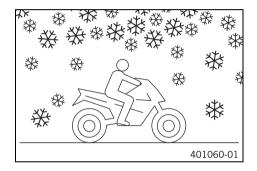
Protective treatment for winter operation



Info

If you use the motorcycle in winter, you must expect salt on the roads. You should therefore take precautions against aggressive road salt.

If the vehicle was operated in road salt, clean it with cold water. Warm water enhances the corrosive effects of salt.



- Clean the motorcycle. (♥ p. 131)
- Treat the engine, the swingarm, and all other bare or galvanized parts (except brake discs) with a wax-based anti-corrosion substance.



Info

To prevent serious reduction of the braking efficiency, make sure no anti-corrosion substance gets on to the brake discs.

After use on salted roads, clean the motorcycle thoroughly with cold water and dry it properly.

Clean the chain. (* p. 66)

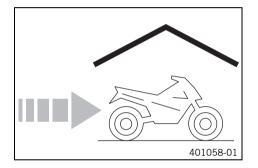
Storage



Info

If you want to garage the motorcycle for a longer period, take the following actions.

Before storing the motorcycle, check all parts for function and wear. If service, repairs or replacements are necessary, you should do this during the storage period (less workshop overload). In this way, you can avoid long workshop waiting times at the start of the new season.



- Make sure the tank is as empty as possible so that you can fill up with fresh fuel when you put the motorcycle back into operation.
- Clean the motorcycle. (* p. 131)
- Change the engine oil and filter, clean the oil screens. 🔌 (p. 123)
- Check the antifreeze and coolant level. (* p. 112)
- Check the tire air pressure. (* p. 95)
- Remove the battery. 🔌 (🕶 p. 98)
- Recharge the battery. 🔌 (🕶 p. 99)

Guideline

Storage temperature of battery without direct sunshine 0... 35 °C (32... 95 °F)

Store the vehicle in a dry location that is not subject to large fluctuations in temperature.



Info

KTM recommends jacking up the motorcycle.

- Raise the motorcycle with the rear wheel stand. (* p. 62)
- Raise the motorcycle with the front wheel stand. (* p. 61)

- Cover the motorcycle with a tarp or cover that is permeable to air.

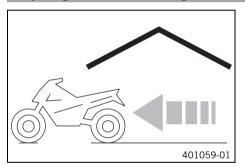


Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion.

Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and exhaust system to rust.

Preparing for use after storage



- Take the motorcycle off of the front wheel stand. (* p. 61)
- Take the motorcycle off of the rear wheel stand. (▼ p. 62)
- Recharge the battery. 🔌 (* p. 99)
- Install the battery. 🔌 (🕶 p. 99)
- Set the clock. (* p. 28)
- Refuel. (** p. 49)
- Perform checks and vehicle care when preparing for use. (* p. 41)
- Take a test ride.

Faults	Possible cause	Action
The engine does not turn when the	Operating error	 Carry out the start procedure. (* p. 42)
starter button is pressed	Battery is discharged	- Recharge the battery. ◀ (p. 99)
	Fuse 1, 2, 3 or 4 is blown	 Change the fuses of individual power consumers. (▼ p. 103)
	Main fuse burned out	 Change the main fuse. (♥ p. 101)
	No ground connection present.	Check the ground connection.
Engine turns only if the clutch lever is	The vehicle is in gear	- Shift gear to neutral.
drawn	The vehicle is in gear and the side stand is folded out	- Shift gear to neutral.
Engine turns but does not start.	Operating error	 Carry out the start procedure. (* p. 42)
	Fuse 4 blown	 Change the fuses of individual power consumers. (♥ p. 103)
	Coupling of fuel hose connection not connected	Reconnect coupling of fuel hose connection.
	Socket connector of wiring harness is oxidized	Clean the socket connector and treat it with contact spray.
	Defect in fuel injection system	 Read out the fault memory using the KTM diagnostics tool.
Engine has too little power.	Air filter is very dirty	 Remove the air filter. → (▼ p. 64)
		 Install the air filter. ♣ (▼ p. 65)
	Fuel filter is very dirty	 Check the fuel pressure.
	Defect in fuel injection system	 Read out the fault memory using the KTM diagnostics tool.
Engine overheats.	Too little coolant in cooling system	Check the cooling system for leakage.
		 Check the coolant level. (* p. 114)

Faults	Possible cause	Action
Engine overheats.	Radiator fins very dirty	Clean radiator fins.
	Foam formation in cooling system	- Drain the coolant. 🌂 (♥ p. 116)
		- Fill the cooling system. ♣ (p. 117)
	Buckled or damaged radiator hose	- Change the radiator hose.
	Thermostat is faulty	- Check the thermostat. 4
	Fuse 5 blown	- Change the fuses of individual power consumers. (♥ p. 103)
	Defect in radiator fan system	- Check the radiator fan system
	Air in cooling system	- Fill the cooling system. ♣ (p. 117)
FI warning lamp (MIL) lights/flashes	Defect in fuel injection system	 Read out the fault memory using the KTM diagnostics tool.
Engine dies during the journey	Lack of fuel	- Refuel. (* p. 49)
	Fuse 1, 2 or 4 blown	 Change the fuses of individual power consumers. (♥ p. 103)
High oil consumption	Engine vent hose bent	Route the vent hose without bends or change it if necessary.
	Engine oil level too high	- Check the engine oil level. (* p. 122)
	Engine oil too thin (low viscosity)	 Change the engine oil and filter, clean the oil screens. [↑] (* p. 123)
Headlight and parking light not functioning	Fuse 7 blown	 Change the fuses of individual power consumers. (▼ p. 103)
Turn signal, brake light and horn not functioning	Fuse 6 blown	 Change the fuses of individual power consumers. (₱ p. 103)

Faults	Possible cause	Action
Time is not (correctly) displayed	Fuse 2 blown	 Change the fuses of individual power consumers. (▼ p. 103)
		- Set the clock. (♥ p. 28)
Battery discharged	Ignition not switched off when vehicle was parked	- Recharge the battery. ♣ (p. 99)
	Battery is not charged by alternator	- Check the charging voltage.
		- Check the quiescent current.
Combination instrument shows nothing in the display	Fuse 1 blown	 Change the fuses of individual power consumers. (▼ p. 103)
Speedometer in combination instrument not functioning	Speedometer wiring harness is damaged or plug-in connection is oxidized	Check the wiring harness and plug-in connection.

Blink code FI of warning lamp	(F)
(MIL)	
	02 FI warning lamp (MIL) flashes briefly 2x
Error level condition	Crankshaft position sensor - circuit fault
Blink code FI of warning lamp (MIL)	(FI)
	06 FI warning lamp (MIL) flashes briefly 6x
Error level condition	Throttle position sensor circuit A - input signal too low
	Throttle position sensor circuit A - input signal too high
Blink code FI of warning lamp	
(MIL)	(F)
	08 FI warning lamp (MIL) flashes briefly 8x
Error level condition	Accelerator position sensor - input signal too low
	Accelerator position sensor - input signal too high
Blink code FI of warning lamp (MIL)	(F)
	09 FI warning lamp (MIL) flashes briefly 9x
Error level condition	Manifold absolute pressure sensor cylinder 1 - input signal too low
	Manifold absolute pressure sensor cylinder 1 - input signal too high
Blink code FI of warning lamp (MIL)	(F)
	12 FI warning lamp (MIL) flashes 1x long, 2x short
Error level condition	Engine coolant temperature sensor - input signal too low
	Engine coolant temperature sensor - input signal too high

Blink code FI of warning lamp (MIL)	(F)
	13 FI warning lamp (MIL) flashes 1x long, 3x short
Error level condition	Intake air temperature sensor - input signal too low
	Intake air temperature sensor - input signal too high
Blink code FI of warning lamp (MIL)	(FI)
	14 FI warning lamp (MIL) flashes 1x long, 4x short
Error level condition	Ambient air pressure sensor - input signal too low
	Ambient air pressure sensor - input signal too high
Blink code FI of warning lamp (MIL)	(F)
	15 FI warning lamp (MIL) flashes 1x long, 5x short
Error level condition	Rollover sensor - input signal too low
	Rollover sensor - input signal too high
Blink code FI of warning lamp (MIL)	F
	17 FI warning lamp (MIL) flashes 1x long, 7x short
Error level condition	Lambda sensor cylinder 1, sensor 1 - circuit fault
Blink code FI of warning lamp (MIL)	(FI)
	24 FI warning lamp (MIL) flashes 2x long, 4x short
Error level condition	System voltage - circuit fault

Blink code FI of warning lamp (MIL)	(FI)
	25 FI warning lamp (MIL) flashes 2x long, 5x short
Error level condition	Side stand switch - circuit fault
Blink code FI of warning lamp (MIL)	(F)
	26 FI warning lamp (MIL) flashes 2x long, 6x short
Error level condition	Motor drive hall sensor - circuit fault
Blink code FI of warning lamp (MIL)	(F)
	37 FI warning lamp (MIL) flashes 3x long, 7x short
Error level condition	Ignition coil 1, cylinder 1 - circuit fault
Blink code FI of warning lamp (MIL)	(FI)
	41 FI warning lamp (MIL) flashes 4x long, 1x short
Error level condition	Fuel pump controller - short circuit to ground or open circuit
	Fuel pump controller - input signal too high
Blink code FI of warning lamp (MIL)	(F)
	45 FI warning lamp (MIL) flashes 4x long, 5x short
Error level condition	Lambda sensor heater cylinder 1, sensor 1 - short circuit to ground or open circuit
	Lambda sensor heater cylinder 1, sensor 1 - input signal too high

Blink code FI of warning lamp (MIL)	(FI)
(WIIL)	
	54 FI warning lamp (MIL) flashes 5x long, 4x short
Error level condition	Secondary air valve - short circuit to ground or open circuit
Blink code FI of warning lamp (MIL)	(FI)
	58 FI warning lamp (MIL) flashes 5x long, 8x short
Error level condition	EPT motor drive relay permission - signal fault
Blink code FI of warning lamp (MIL)	(FI)
	60 FI warning lamp (MIL) flashes 6x long
Error level condition	Motor drive - circuit fault
Blink code FI of warning lamp	
(MIL)	
	90 FI warning lamp (MIL) flashes 9x long
Error level condition	Throttle position - circuit fault
Blink code FI of warning lamp	
(MIL)	
	91 FI warning lamp (MIL) flashes 9x long, 1x short
Error level condition	CAN bus communication error

Blink code FI of warning lamp (MIL)	(F)
	92 FI warning lamp (MIL) flashes 9x long, 2x short
Error level condition	Motor drive voltage (internal) - circuit fault

Γ		
Design	1-cylinder 4-stroke engine, water-cooled	
Displacement	654 cm ³ (39.91 cu in)	
Stroke	80 mm (3.15 in)	
Bore	102 mm (4.02 in)	
Compression ratio	11.8:1	
Idle speed		
Coolant temperature: ≥ 70 °C (≥ 158 °F)	1,550 1,650 rpm	
Control	OHC, 4 valves controlled via rocker arm, chain drive	
Valve diameter, intake	40 mm (1.57 in)	
Valve diameter, exhaust	34 mm (1.34 in)	
Valve play, cold	0.07 0.13 mm (0.0028 0.0051 in)	
Crankshaft bearing	2 roller bearings	
Conrod bearing	Needle bearing	
Piston pin bearing	Bronze bush	
Pistons	Forged light alloy	
Piston rings	1 L-ring, 1 tapered compression piston ring, 1 oil scraper ring	
Engine lubrication	Semi-dry sump lubrication with two rotor pumps	
Primary transmission	36:79	
Clutch	APTC™ Antihopping clutch in oil bath / hydraulically operated	
Gearbox	6-gears, claw-shifted	
Transmission ratio		
1st gear	14:35	
2nd gear	16:28	
3rd gear	21:28	
4th gear	21:23	

5th gear	23:22	
6th gear	23:20	
Mixture preparation	Electronic fuel injection	
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment	
Alternator	12 V, 224 W	
Spark plug	NGK LKAR 8AI - 9	
Spark plug electrode gap	0.9 mm (0.035 in)	
Cooling	Water cooling, permanent circulation of coolant by water pump	
Starting aid	Electric starter, automatic decompressor	

Capacity - engine oil

Engine oil	1.70 l (1.8 qt.)	Engine oil (SAE 10W/60) (00062010035) (* p. 159)	
		Alternative engine oil	Engine oil (SAE 10W/50) (* p. 159)

Capacity - coolant

Coolant	1.20 l (1.27 qt.)	Coolant (* p. 158)
		Coolant (mixed ready to use) (* p. 158)

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Oil hole plug	self-tapping	9 Nm (6.6 lbf ft)	Loctite [®] 243 [™]
Screw, membrane fixation	M3	2.5 Nm (1.84 lbf ft)	Loctite® 243™
Hose clamp, intake flange	M4	1.5 Nm (1.11 lbf ft)	-
Oil jet, conrod lubrication	M4	2 Nm (1.5 lbf ft)	Loctite [®] 243 [™]
Locking screw for bearing	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, breather cover on valve cover	M5	3 Nm (2.2 lbf ft)	Loctite® 243™
Screw, clutch spring	M5	6 Nm (4.4 lbf ft)	-
Screw, cover plate for oil return line	M5	6 Nm (4.4 lbf ft)	-
Screw, gear sensor	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)	-
Screw, oil pump cover	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243 [™]
Plug, vacuum connection	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243 [™]
Screw in alternator cover	M6	10 Nm (7.4 lbf ft)	-
Screw, alternator cover (chain shaft through-hole)	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, autodecompression	M6	3 4 Nm (2.2 3 lbf ft)	Loctite [®] 243 [™]
Screw, axial lock of camshaft	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch slave cylinder	M6x20	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, clutch slave cylinder	M6x35	10 Nm (7.4 lbf ft)	-
Screw, cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, cylinder head	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, engine case	M6	10 Nm (7.4 lbf ft)	-
Screw, ignition pulse generator	M6	10 Nm (7.4 lbf ft)	Loctite® 243™

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Screw, locking lever	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, rocker arm shaft	M6	12 Nm (8.9 lbf ft)	-
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	10 Nm (7.4 lbf ft)	Loctite® 222
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, stator bracket	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, thermostat housing	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, timing chain guide rail	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, timing chain tensioning rail	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)	-
Screw, water pump cover	M6	10 Nm (7.4 lbf ft) –	
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft) Loctite[®] 243™	
Oil jet, piston cooling	M6x0.75	4 Nm (3 lbf ft)	Loctite [®] 243™
Plug, crankshaft location	M8	20 Nm (14.8 lbf ft)	-
Stud, exhaust flange	M8	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Cylinder head screw	M10	Tightening sequence: Tighten diagonally, beginning with the rear screw on the chain shaft. Step 1 15 Nm (11.1 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 45 Nm (33.2 lbf ft) Step 4 60 Nm (44.3 lbf ft)	Lubricated with engine oil

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Oil hole plug	M10x1	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Plug, drain hole of water pump	M10x1	15 Nm (11.1 lbf ft)	_
Plug, oil bore for oil radiator	M10x1	15 Nm (11.1 lbf ft)	-
Screw, unlocking of timing chain tensioner	M10x1	10 Nm (7.4 lbf ft)	-
Spark plug	M12x1.25	17 Nm (12.5 lbf ft)	_
Coolant temperature sensor on cylinder head	M12x1.5	12 Nm (8.9 lbf ft)	-
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	-
Oil pressure regulator valve plug	M12x1.5	20 Nm (14.8 lbf ft)	_
Plug, oil bore	M14x1.5	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Engine case stud	M16x1.5	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Rotor nut	M18x1.5	100 Nm (73.8 lbf ft)	_
Nut, engine sprocket	M20x1.5	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Nut, inner clutch hub	M20x1.5	100 Nm (73.8 lbf ft)	Loctite [®] 243™
Nut, primary gear	M20LHx1.5	90 Nm (66.4 lbf ft)	Loctite [®] 243™
Plug, oil screen	M20x1.5	15 Nm (11.1 lbf ft)	_
Plug, timing chain tensioner	M20x1.5	25 Nm (18.4 lbf ft)	_
Plug, oil thermostat	M24x1.5	15 Nm (11.1 lbf ft)	-
Screw in alternator cover	M24x1.5	8 Nm (5.9 lbf ft)	-

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated	
Fork	WP Suspension Up Side Down 4860 ROMA	
Shock absorber	WP Suspension 4618 with Pro-Lever deflector	
Suspension travel		
Front	275 mm (10.83 in)	
Rear	265 mm (10.43 in)	
Brake system		
Front	Disc brake with radially screwed four-piston brake caliper, floating brake disc	
Rear	Disc brake with single-piston brake caliper, floating	
Brake discs - diameter		
Front	320 mm (12.6 in)	
Rear	240 mm (9.45 in)	
Brake discs - wear limit		
Front	4.0 mm (0.157 in)	
Rear	4.5 mm (0.177 in)	
Tire air pressure, solo		
Front	2.0 bar (29 psi)	
Rear	2.0 bar (29 psi)	
Tire air pressure with passenger / fully loaded		
Front	2.0 bar (29 psi)	
Rear	2.2 bar (32 psi)	
Secondary drive ratio	16:42	
Chain	5/8 x 1/4" X-ring	

Steering head angle	63°	
Wheelbase	1,480±15 mm (58.27±0.59 in)	
Seat height unloaded	910 mm (35.83 in)	
Ground clearance unloaded	290 mm (11.42 in)	
Weight without fuel approx.	139.5 kg (307.5 lb.)	
Maximum permissible front axle load	150 kg (331 lb.)	
Maximum permissible rear axle load	200 kg (441 lb.)	
Maximum permissible overall weight	350 kg (772 lb.)	

Battery	YTZ10S	Battery voltage: 12 V Nominal capacity: 8.6 Ah maintenance-free
Fuse	58011109130	30 A
Fuse	75011088015	15 A
Fuse	75011088010	10 A

Lighting equipment

Headlight	H4 / socket P43t	12 V 60/55 W
Parking light	W5W / socket W2.1x9.5d	12 V 5 W
Instrument lights and indicator lamps	LED	
Turn signal	RY10W / socket BAU15s	12 V 10 W
Brake/tail light	LED	

License plate lamp	W5W / socket W2.1x9.5d	12 V
		5 W

Tires

Front tire	Rear tire
120/70 ZR 17 M/C 58W TL Pirelli Dragon Supercorsa Pro	160/60 ZR 17 M/C 69W TL Pirelli Dragon Supercorsa Pro
Additional information is available in the Service section under: http://www.ktm.com	

Capacity - fuel

Total fuel tank capacity, approx.	12 (3.2 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (₱ p. 161)
Fuel reserve, approx.		2.5 l (2.6 qt.)

Fork part number		14.18.7K.12	
Fork		WP Suspension Up Side Down 4860 ROMA	
Compression damping			
Comfort		20 clicks	
Standard		15 clicks	
Sport		10 clicks	
Full payload		10 clicks	
Rebound damping			
Comfort		15 clicks	
Standard		10 clicks	
Sport		5 clicks	
Full payload		5 clicks	
Spring length with preload spacer(s)		480 mm (18.9 in)	
Spring rate			
Soft		5.0 N/mm (28.6 lb/in)	
Medium (standard)		5.2 N/mm (29.7 lb/in)	
Hard		5.4 N/mm (30.8 lb/in)	
Air chamber length		100±20 mm (3.94±0.79 in)	
Fork length		915 mm (36.02 in)	
Fork oil per fork leg	634 ml (21.44 fl. oz.)	Fork oil (SAE 5) (p. 160)	

Shock absorber part number	15.18.7E.12
Shock absorber	WP Suspension 4618 with Pro-Lever deflector
Compression damping, high-speed	
Comfort	1.5 turns
Standard	1 turn
Sport	0.5 turn
Full payload	0.5 turn
Compression damping, low-speed	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Spring preload	18 mm (0.71 in)
Spring rate	
Soft	80 N/mm (457 lb/in)
Medium (standard)	85 N/mm (485 lb/in)
Hard	90 N/mm (514 lb/in)
Spring length	220 mm (8.66 in)
Gas pressure	10 bar (145 psi)
Static sag	20 mm (0.79 in)

Riding sag	70 80 mm (2.76 3.15 in)
Fitted length	400 mm (15.75 in)
Shock absorber fluid	Shock absorber oil (SAE 2,5) (50180342S1) (₱ p. 160)

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, license plate holder, bottom	EJOT	3 Nm (2.2 lbf ft)	_
Screw, side stand switch	EJOT	2 Nm (1.5 lbf ft)	_
Screw, SLS valve	EJOT	2 Nm (1.5 lbf ft)	-
Spoke nipple, front wheel	M4.5	4 Nm (3 lbf ft)	_
Bolt, foot brake lever stub	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)	-
Screw, electrical holder	M5	3 Nm (2.2 lbf ft)	_
Screw, exhaust heat shield	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, fuel level sensor	M5	3 Nm (2.2 lbf ft)	_
Screw, fuel pump	M5	6 Nm (4.4 lbf ft)	_
Screw, headlight mask	M5	5 Nm (3.7 lbf ft)	_
Screw, starter cable on starter	M5	3 Nm (2.2 lbf ft)	_
Spoke nipple, rear wheel	M5	4 Nm (3 lbf ft)	_
Nut, foot brake cylinder screw	M6	10 Nm (7.4 lbf ft)	_
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)	_
Remaining screws on fuel tank	M6	5 Nm (3.7 lbf ft)	_
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	_
Screw, air filter box top	M6	2 Nm (1.5 lbf ft)	_
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite® 243 TM
Screw, brake fluid reservoir of rear brake	M6	5 Nm (3.7 lbf ft)	-
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, ignition lock	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, lower radiator bracket	M6	8 Nm (5.9 lbf ft)	_

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, magnetic holder on side stand	M6	12 Nm (8.9 lbf ft)	Loctite [®] 243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, seat lock	M6	5 Nm (3.7 lbf ft)	Loctite® 222
Screw, side cover	M6	5 Nm (3.7 lbf ft)	-
Screw, upper radiator bracket	M6	12 Nm (8.9 lbf ft)	-
Screw, voltage regulator	M6	8 Nm (5.9 lbf ft)	-
Nut, manifold on cylinder head	M8	25 Nm (18.4 lbf ft)	Copper paste
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	-
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	-
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)	-
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)	-
Screw, connection lever on frame	M8	30 Nm (22.1 lbf ft)	Loctite [®] 243™
Screw, exhaust clamp on main silencer	M8	25 Nm (18.4 lbf ft)	-
Screw, foot brake lever	M8	28 Nm (20.7 lbf ft)	Loctite [®] 243™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	-
Screw, front footrest bracket	M8	25 Nm (18.4 lbf ft)	-
Screw, fuel tank, bottom	M8	28 Nm (20.7 lbf ft)	Loctite [®] 243™
Screw, fuel tank, top	M8	28 Nm (20.7 lbf ft)	Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	-
Screw, handrail	M8	20 Nm (14.8 lbf ft)	-
Screw, license plate holder, top	M8	20 Nm (14.8 lbf ft)	-
Screw, main silencer holder	M8	25 Nm (18.4 lbf ft)	-
Screw, main silencer holder on fuel tank	M8	25 Nm (18.4 lbf ft)	_

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, rear footrest bracket	M8x16	25 Nm (18.4 lbf ft)	_
Screw, side stand bracket	M8	28 Nm (20.7 lbf ft)	Loctite [®] 243™
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	Loctite [®] 243™
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)	-
Engine carrying screw	M10	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	-
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	-
Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Screw, engine bearer on frame	M10	45 Nm (33.2 lbf ft)	-
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	-
Screw, side stand	M10	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Screw, swingarm pivot	M12	80 Nm (59 lbf ft)	-
Lambda sensor	M12x1.25	25 Nm (18.4 lbf ft)	Copper paste
Nut, linkage lever on swingarm	M14x1.5	100 Nm (73.8 lbf ft)	-
Nut, linkage lever to rocker arm	M14x1.5	100 Nm (73.8 lbf ft)	-
Screw, bottom steering head	M20x1.5	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)	-
Screw, front wheel spindle	M24x1.5	40 Nm (29.5 lbf ft)	-
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	-

Brake fluid DOT 4 / DOT 5.1

According to

DOT

Guideline

Use only brake fluid that complies with the specified standard (see specifications on the container) and that possesses the corresponding properties. KTM recommends Castrol and Motorex® products.

Supplier

Castrol

RESPONSE BRAKE FLUID SUPER DOT 4

Motorex[®]

Brake Fluid DOT 5.1

Coolant

Guideline

Use only suitable coolant (also in countries with high temperatures). Use of low-quality antifreeze can lead to corrosion and foaming.
 KTM recommends Motorex® products.

Mixture ratio

Antifreeze protection: -2545 °C (-13	50 % corrosion inhibitor/antifreeze
−49 °F)	50 % distilled water

Coolant (mixed ready to use)

Antifreeze	-40 °C (-40 °F)

Supplier

Motorex[®]

Anti Freeze

Engine oil (SAE 10W/60) (00062010035)

According to

- JASO T903 MA (▼ p. 164)
- SAE (* p. 164) (SAE 10W/60)
- KTM LC4 2007+

Guideline

Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties. KTM recommends Motorex® products.

Synthetic engine oil

Supplier

Motorex[®]

Motorex[®] KTM Cross Power 4T

Engine oil (SAE 10W/50)

According to

- JASO T903 MA (♥ p. 164)
- SAE (♥ p. 164) (SAE 10W/50)

Guideline

Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties. KTM recommends Motorex® products.

Fully synthetic engine oil

Supplier

Motorex[®]

- Power Synt 4T

Fork oil (SAE 5)

According to

SAE (* p. 164) (SAE 5)

Guideline

Use only oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties. KTM recommends Motorex® products.

Supplier

Motorex[®]

- Racing Fork Oil

Hydraulic fluid (15)

According to

ISO VG (15)

Guideline

Use only hydraulic oil that complies with the specified standard (see specifications on the container) and that possesses the corresponding properties. KTM recommends Motorex[®] products.

Supplier

Motorex[®]

Hydraulic Fluid 75

Shock absorber oil (SAE 2,5) (50180342S1)

According to

SAE (p. 164) (SAE 2,5)

Guideline

Use only oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties.

Super unleaded (ROZ 95 / RON 95 / PON 91)

According to

DIN EN 228 (ROZ 95 / RON 95 / PON 91)

Chain cleaner

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Chain Clean

Chain lube for road use

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Chainlube Road

Cleaning and preserving materials for metal, rubber and plastic

Guideline

KTM recommends Motorex® products.

Supplier

Motorex[®]

- Protect & Shine

High-luster polish for paint

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Moto Polish

Long-life grease

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Bike Grease 2000

Motorcycle cleaner

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Moto Clean 900

Paint cleaner and polish for high-gloss and matte finishes, bare metal and plastic surfaces

Guideline

KTM recommends Motorex® products.

Supplier

Motorex[®]

- Clean & Polish

Universal oil spray

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

Joker 440 Synthetic

JASO T903 MA

Different technical development directions required a new specification for 4-stroke motorcycles – the JASO T903 MA Standard. Earlier, engine oils from the automobile industry were used for 4-stroke motorcycles because there was no separate motorcycle specification. Whereas long service intervals are demanded for automobile engines, high performance at high engine speeds are in the foreground for motorcycle engines. With most motorcycles, the gearbox and the clutch are lubricated with the same oil as the engine. The JASO MA Standard meets these special requirements.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

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