

OWNER'S MANUAL 2012

125 Duke EU

125 Duke DE

200 Duke EU

Art. no. 3211800en



KTM

DEAR KTM CUSTOMER

Congratulations on your decision to purchase 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/type label (☛ p. 16)	Dealer's stamp
Engine number (☛ p. 16)	
Key number (☛ p. 17)	

The owner's manual contained the latest information for this model at the time of going to print. Minor differences due to developments in design cannot be ruled out completely.

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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 by 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 typographical formats used in this document are explained below.

Specific name

Identifies a proprietary name.

Name[®]

Identifies a protected name.

Brand[™]

Identifies a brand available on the open market.

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 perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described 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.

Pay careful attention to the prescribed running-in period 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 schedule must be carried out by an authorized KTM workshop only and confirmed in the customer's service record and in the **KTM dealer.net**; otherwise, all warranty claims will be void. No warranty claims can be considered for damage resulting from manipulations and/or alterations 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: magneto extractor (90129009000)

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.

Where thread lockers are used on screw connections (e.g., **Loctite**®), follow the instructions for use from the manufacturer.

After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts.

Following repairs or servicing, the vehicle must be checked for roadworthiness.

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 falling over and rolling away.

Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the 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 many tips on how to operate and handle your motorcycle. Only then will you learn how to best customize the motorcycle for your own use and to 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 (example)



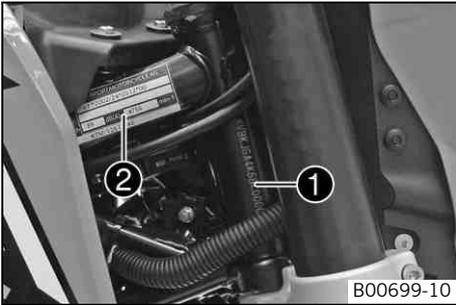
1	Combination instrument
2	Rear mirror
3	Clutch lever (☛ p. 18)
4	Seat
5	Passenger seat
6	Seat lock (☛ p. 46)
7	Grab handles (☛ p. 47)
8	Engine number (☛ p. 16)
9	Side stand (☛ p. 50)
10	Shift lever (☛ p. 48)

View of vehicle, rear right (example)



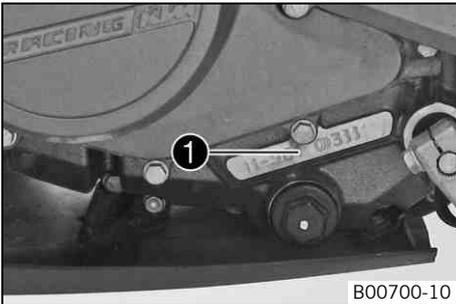
1	Tool set (☛ p. 47)
2	Light switch (☛ p. 19)
2	High beam flasher button (☛ p. 20)
2	Turn signal switch (☛ p. 20)
2	Horn button (☛ p. 21)
3	Filler cap
4	Ignition/steering lock (☛ p. 22)
5	Emergency OFF switch (☛ p. 21)
6	Hand brake lever (☛ p. 18)
7	Electric starter button (☛ p. 22)
8	Chassis number/type label (☛ p. 16)
9	Passenger footrests (☛ p. 48)
10	Foot brake lever (☛ p. 49)

Chassis number/type label



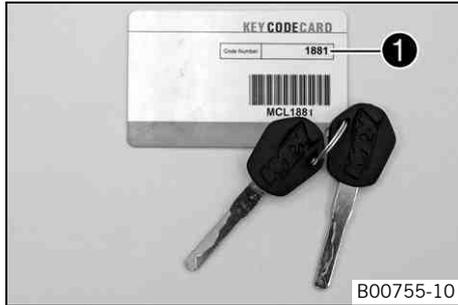
The chassis number ❶ is stamped on the right of the steering head.
The type label ❷ is on the right of the frame behind the steering head.

Engine number



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

Key number



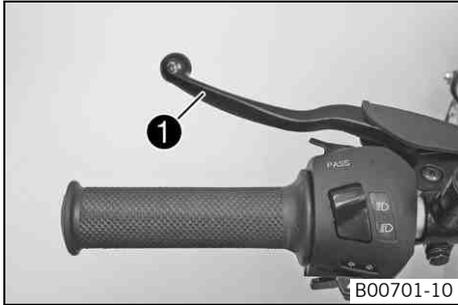
The key number ❶ can be found on the **KEYCODECARD**.



Info

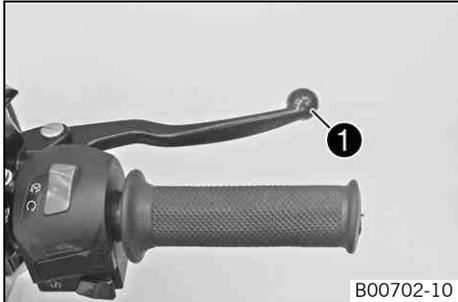
You need the key number to order a spare key. Keep the **KEYCODECARD** in a safe place.

Clutch lever



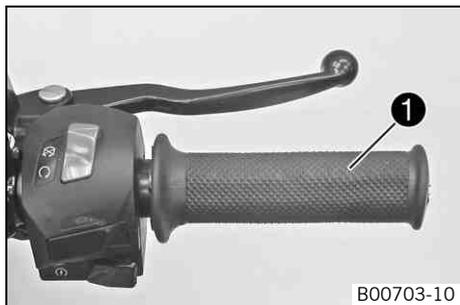
The clutch lever ❶ is fitted on the left side of the handlebar.

Hand brake lever



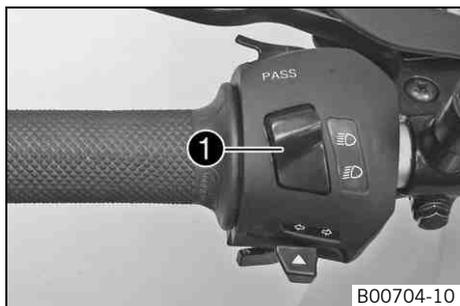
The hand brake lever ❶ is fitted on the right side of the handlebar.
The front brake is engaged using the hand brake lever.

Throttle grip



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

Light switch

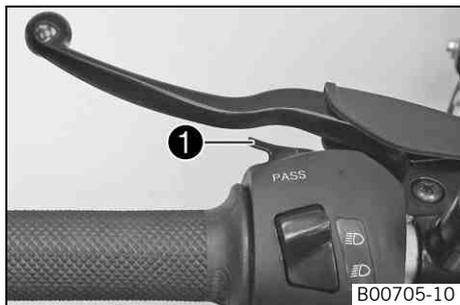


The light switch ❶ is fitted on the left side of the handlebar.

Possible states

	Low beam on – Light switch is turned downward. In this position, the low beam and tail light are switched on.
	High beam on – Light switch is turned upward. In this position, the high beam and the tail light are switched on.

High beam flasher button



The high beam flasher button ❶ is fitted on the left side of the handlebar.

Possible states

- High beam flasher button in neutral position
- High beam flasher button pressed – In this position, the headlight flasher (high beam) is actuated.

Turn signal switch



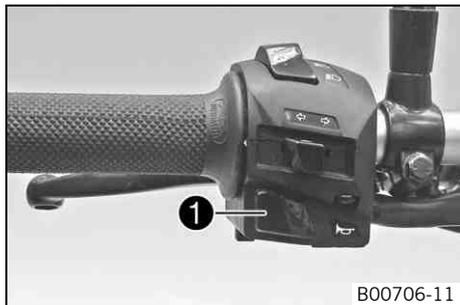
The turn signal switch ❶ is fitted on the left side of the handlebar.

Possible states

	Turn signal off
	Turn signal, left, on – Turn signal switch pressed to the left. The turn signal switch returns automatically to the central position after use.
	Turn signal, 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, press the turn signal switch towards the switch case.

Horn button

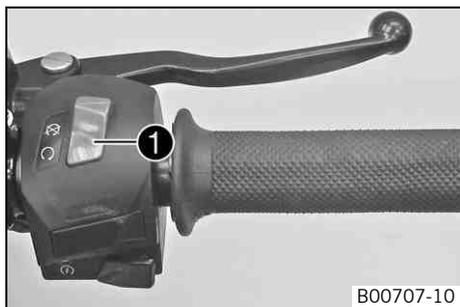


The horn button ❶ is fitted on the left side of the handlebar.

Possible states

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

Emergency OFF switch

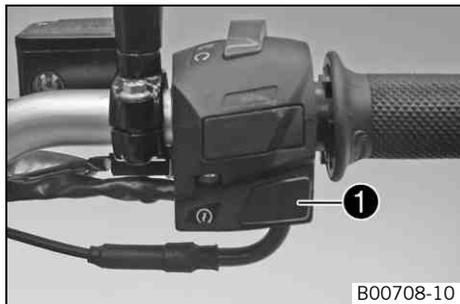


The emergency OFF switch ❶ is fitted on the right side of the handlebar.

Possible states

	Emergency OFF switch off – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine cannot be started.
	Emergency OFF switch on – This position is required for operation; the ignition circuit is closed.

Electric starter button



B00708-10

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

Possible states

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

Ignition/steering lock



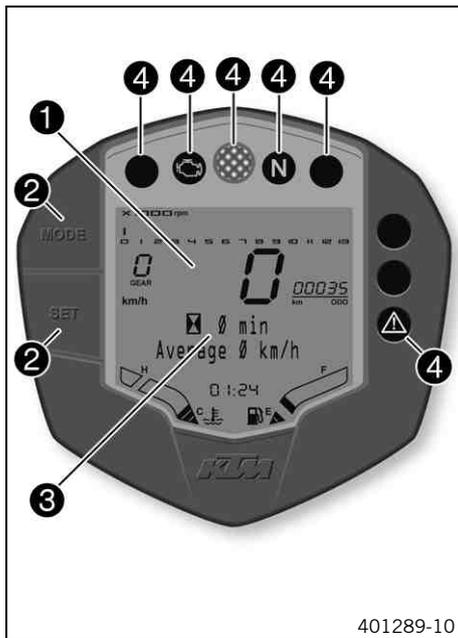
B00709-01

The ignition/steering lock is in front of the upper triple clamp.

Possible states

	<p>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.</p>
	<p>Ignition ON – In this position, the ignition circuit is closed and the engine can be started.</p>
	<p>Steering locked – In this position, the ignition circuit is interrupted and the steering locked. The ignition key can be removed.</p>

Combination instrument - overview



- | | |
|---|---|
| 1 | Combination instrument - display (☛ p. 27) |
| 2 | Combination instrument - function buttons (☛ p. 25) |
| 3 | Combination instrument - info display (☛ p. 31) |
| 4 | Combination instrument - indicator lamps (☛ p. 26) |

Combination instrument - activation and test



Activation

The combination instrument is activated when the ignition is switched on.

Test

The segments of the tachometer and the gear display light up and switch off in sequence.

The speed display counts from 0 to 199 and back.

The remaining display segments outside the info display light up briefly.

The **READY TO RACE >>** logo appears on the info display.

The display then changes to the last selected mode.

Combination instrument - function buttons



401289-12

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

Possible display modes are total distance traveled (**TRIP 1**), distance 1 (**ODO**) and distance 2 (**TRIP 2**).

Pressing and holding the **SET** button ❷ resets the distance 1 (**TRIP 1**) and distance 2 (**TRIP 2**) functions to **0.0** and briefly pressing the **SET** button ❷ changes the info display to the next display mode.

Combination instrument - indicator lamps

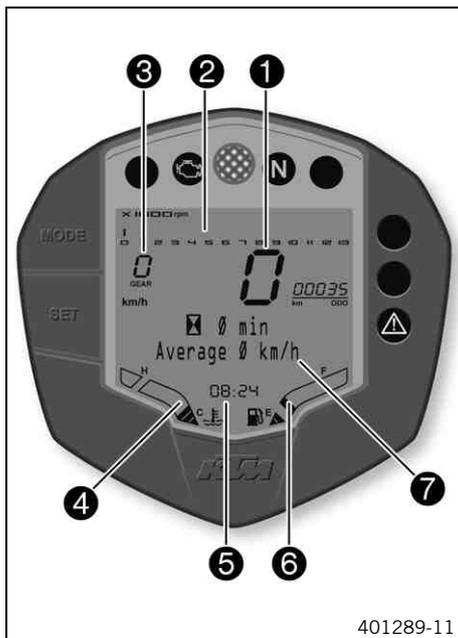


401290-01

Possible states

	<p>The turn signal indicator light flashes green simultaneously with the turn signals – Turn signal is switched on.</p>
	<p>The engine diagnosis warning lamp (MIL) lights up red – The OBD (onboard diagnosis) has identified an emissions- or safety-critical fault.</p>
	<p>The shift warning lights up/flashes red – The set shift speed has been reached.</p>
	<p>The idle speed indicator lamp lights up green – The transmission is switched to idle.</p>
	<p>High beam indicator lamp lights up blue – High beam is switched on.</p>
	<p>The immobilizer indicator lamp lights up or flashes red – Status or error message for immobilizer/alarm system. (OPTIONAL)</p>
	<p>The general warning lights up yellow – An operating safety (warning) message was detected. This is also shown in the info display.</p>

Combination instrument - display



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

The tachometer **2** shows the engine speed in revolutions per minute.

The gear display **3** shows the engaged gear.

The coolant temperature appears in segment **4**.

The time appears in segment **5**.

The filling level in the fuel tank is displaced in segment **6**.

The info display **7** shows additional information.



Info

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

The intensity of the LED display depends on the ambient brightness.

Combination instrument - filling level display in fuel tank



The filling level display consists of 9 bars. The more bars are lit, the more fuel is in the fuel tank.

Combination instrument - TRIP F display



401293-01

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



Info

At the same time as the display mode **TRIP F**, the general warning lamp  lights up and the warning note **Low Fuel Level** appears on the info display.

Combination instrument - coolant temperature indicator



401292-01

The temperature display consists of 13 bars. The more bars that light up, the hotter the coolant. When all bars light up, the following warning note appears on the info display:

High Coolant Temperature.

Possible states

- Engine cold – Up to three bars light up.
- Engine warm – Four to ten bars light up.
- Engine hot – Eleven to thirteen bars light up.

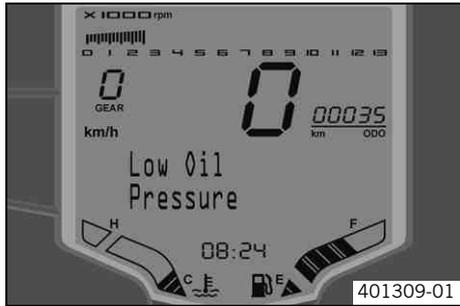
Combination instrument - info display



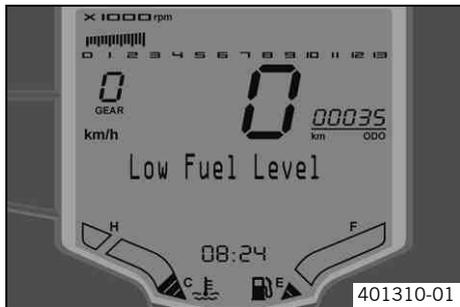
Various warning notes appear on info display ❶.

If the general warning lamp  lights up, the corresponding warning note is shown on the info display.

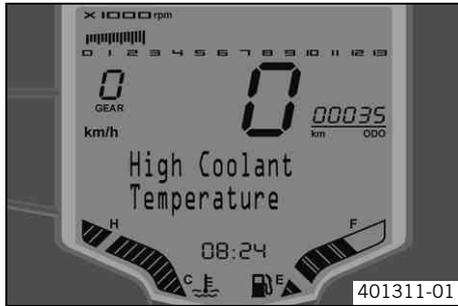
Combination instrument - warning notes



Low Oil Pressure appears on the info display if the oil pressure is too low.

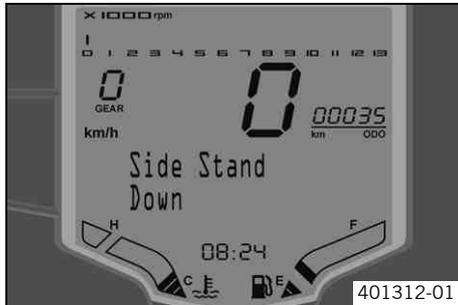


Low Fuel Level appears on the info display if the fuel level reaches the reserve mark.



High Coolant Temperature appears on the info display if the coolant temperature rises above the specified value.

Coolant temperature	125 °C (257 °F)
---------------------	-----------------

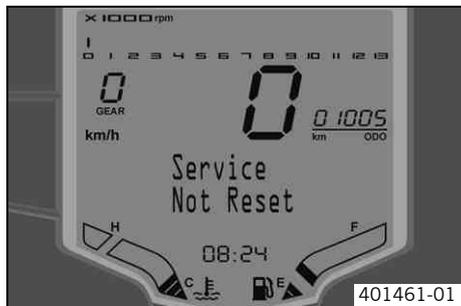


Side Stand Down appears on the info display if the side stand is folded down.



Low Battery appears on the info display if the battery voltage falls below the specified value.

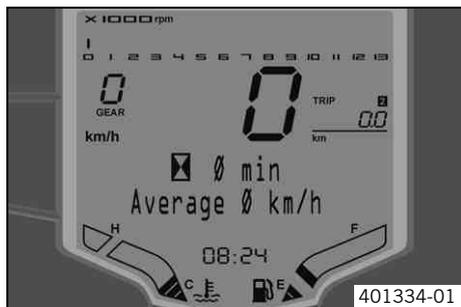
Battery voltage	10.80 V
-----------------	---------



401461-01

Service Not Reset appears on the info display for 10 seconds when the ignition is switched on and the distance interval between service appointments has been exceeded or the service interval display was not reset during a service appointment.

Riding time/average speed menu



401334-01

Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

The riding time and average speed are displayed in this menu.



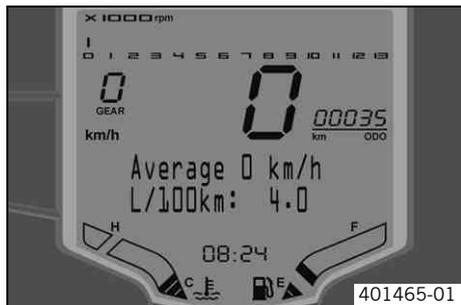
Info

If the ignition was switched off for over 60 minutes, the display is reset to 0.

Press the **SET** button briefly.

Next display mode on the info display

Average speed/average fuel consumption 1 menu



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
- The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

In this menu, the average speed and the average fuel consumption 1 are displayed in L/100 km (or L/100 miles).



Info

The average fuel consumption 1 is displayed after several 100 meters of travel after the ignition is switched on.

If the ignition was switched off for over 60 minutes, the display of the average speed and average fuel consumption 1 is reset to 0.

Press the SET button briefly.	Next display mode on the info display
--------------------------------------	---------------------------------------

Average fuel consumption 1/average fuel consumption 2 menu



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

In this menu, the average fuel consumption 1 in L/100 km (or L/100 miles) and the average fuel consumption 2 in km/L (or miles/L) are displayed.

i Info

The average fuel consumption 1 and 2 are displayed after several 100 meters of travel after the ignition is switched on.
If the ignition was switched off for over 60 minutes, the display of the average fuel consumption 1 and 2 is reset to 0.

Press the **SET** button briefly.

Next display mode on the info display

Average fuel consumption 2/service menu



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

The average fuel consumption 2 in km/L (or miles/L) and the distance to the next service are displayed in this menu.



Info

The average fuel consumption 2 is displayed after several 100 meters of travel after the ignition is switched on.

If the ignition was switched off for over 60 minutes, the display of the average fuel consumption 2 is reset to 0.

Press the **SET** button briefly.

Next display mode on the info display

Service/range menu



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

This menu shows the distance to the next service and the range.



Info

The range depends on the average fuel consumption and the fuel quantity in the fuel tank.

The range is displayed after several 100 meters of travel after the ignition is switched on.

If the ignition was switched off for over 60 minutes, the display of the range and riding time is reset to 0.

Press the **SET** button briefly.

Next display mode on the info display

Range/riding time menu



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **SET** button briefly and repeatedly until the desired info display appears.

The range and the riding time are displayed in this menu.



Info

The range depends on the average fuel consumption and the fuel quantity in the fuel tank.

The range is displayed after several 100 meters of travel after the ignition is switched on.

If the ignition was switched off for over 60 minutes, the display of the range and riding time is reset to 0.

Press the **SET** button briefly.

Next display mode on the info display

Total distance menu ODO



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.

ODO shows the total distance covered.



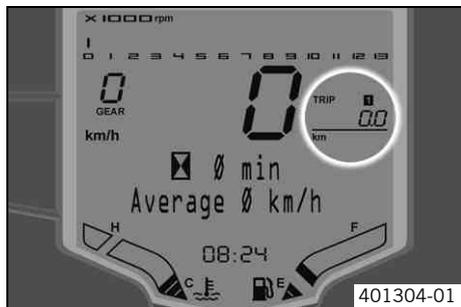
Info

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

Press the **MODE** button.

Next display mode on the display

Distance menu 1 TRIP 1



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
 - The motorcycle is moving.
- Press the **MODE** button briefly and repeatedly until **TRIP 1** appears on the display.

TRIP 1 shows the distance covered since the last reset. For example, the distance from one refueling stop to the next. **TRIP 1** is always running and counts up to **999.9**.

Press the SET button for 5 - 10 seconds.	Display of TRIP 1 is reset
Press the MODE button.	Next display mode on the display

Distance menu 2 TRIP 2



Condition

Alternative 1

- The ignition is on.
- The motorcycle is stationary.

Alternative 2

- The ignition is on.
- The motorcycle is moving.
- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.

TRIP 2 shows the distance covered since the last reset. For example, the distance from one refueling stop to the next. **TRIP 2** is always running and counts up to **999.9**.

Press the SET button for 5 - 10 seconds.	Display of TRIP 2 is reset
Press the MODE button.	Next display mode on the display

Setting kilometers or miles



Info

Make the country-specific setting.

Condition

The ignition is on.

The motorcycle is stationary.

- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** button for 5 - 10 seconds.
 - ✓ The display changes from **km/h** to **mph** or from **mph** to **km/h**.



Setting the time

Condition

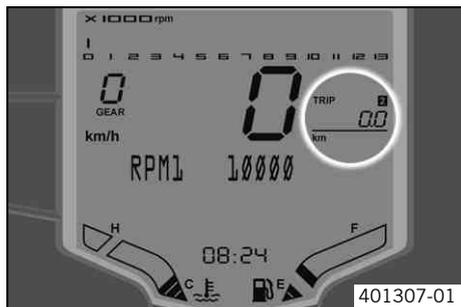
The ignition is on.

The motorcycle is stationary.

- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** and **SET** buttons for 5 - 10 seconds.
 - ✓ The time display begins to flash.
- Set the hours display using the **MODE** button.
- Set the minutes display using the **SET** button.
- Press the **MODE** and **SET** buttons for 5 - 10 seconds.
 - ✓ The time is set.



Adjusting the shift speed RPM 1



Condition

The ignition is on.

The motorcycle is stationary.

- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **MODE** button for 5 - 10 seconds.
- ✓ The display **RPM 1** appears.

Info

The engine speed can be set at intervals of 50.

RPM 1 is the engine speed above which the shift warning light starts to flash.

- Set the speed with the **MODE** and **SET** buttons.

Info

The **MODE** button increases the value.

The **SET** button decreases the value.

- Do not activate the two buttons for approx. 15 seconds.
- ✓ The display **RPM 1** goes out and the set speed is stored.

Info

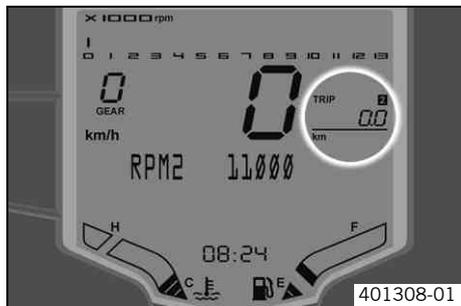
Upon delivery, the speed of **RPM 1** is set to 10000.

Adjusting the shift speed RPM 2

Condition

The ignition is on.

The motorcycle is stationary.



- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **SET** button for 5 - 10 seconds.
- ✓ The display **RPM 2** appears.

Info

The engine speed can be set at intervals of 50.

RPM 2 is the engine speed above which the shift warning light lights up constantly.

The speed **RPM 2** must always be higher than the speed **RPM 1**.

- Set the speed with the **MODE** and **SET** buttons.

Info

The **MODE** button increases the value.

The **SET** button decreases the value.

- Do not activate the two buttons for approx. 15 seconds.
- ✓ The display **RPM 2** goes out and the set speed is stored.

Info

Upon delivery, the speed of **RPM 2** is set to 11000.

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.

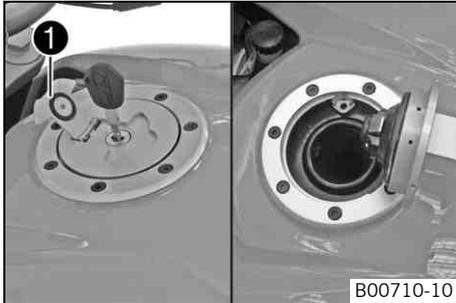
- Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



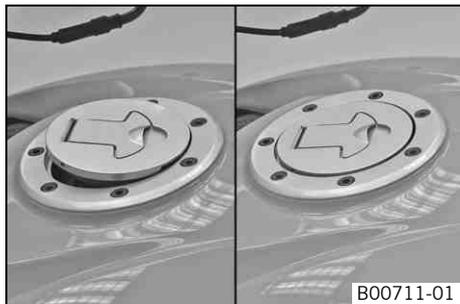
- Lift the cover **1** of the filler cap and insert the ignition key in the lock.

Note

Danger of damage Ignition key breakage.

- To take pressure off of the ignition key, push down on the filler cap. Damaged ignition keys must be replaced.
-
- Turn the ignition key 90° clockwise.
 - Open the filler cap.
 - Remove the ignition key.

Closing the filler cap



Warning

Fire hazard Fuel is highly flammable, poisonous and harmful to your health.

- When closing the filler cap, ensure that it is closed correctly. Change clothing that came into contact with fuel. Immediately clean skin that came into contact with fuel using soap and water.

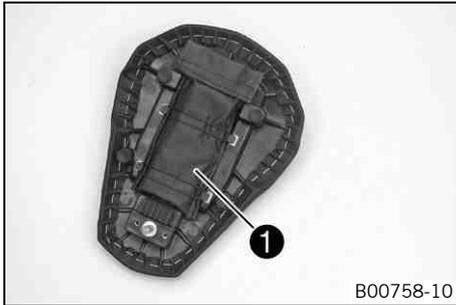
- Close the filler cap.
- Push down the filler cap until the lock engages.

Seat lock



The seat lock ❶ is located to the left of the seat. It can be locked with the ignition key.

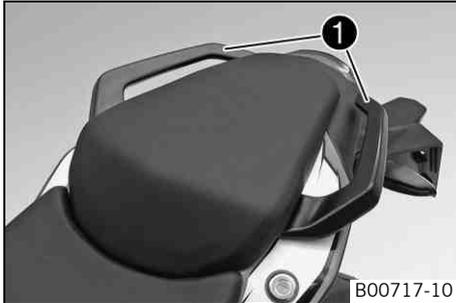
Tool set



B00758-10

The tool set ❶ is located under the passenger seat.

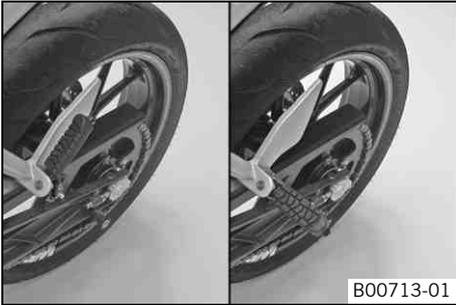
Grab handles



B00717-10

The grab handles ❶ are used for moving the motorcycle around.
If you carry a passenger, the passenger can hold onto the grab handles during the trip.

Passenger footrests

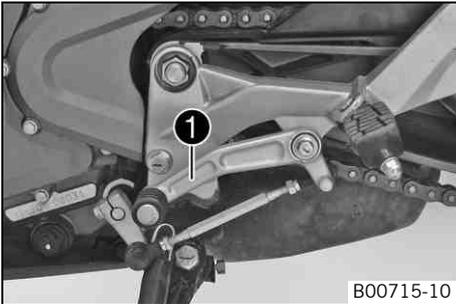


The passenger footrests can be folded in and out.

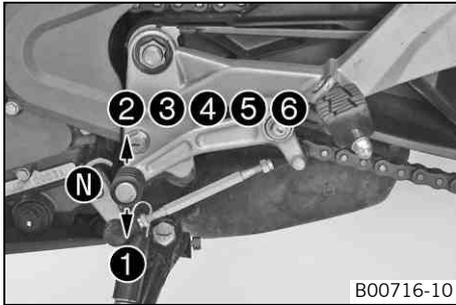
Possible states

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

Shift lever

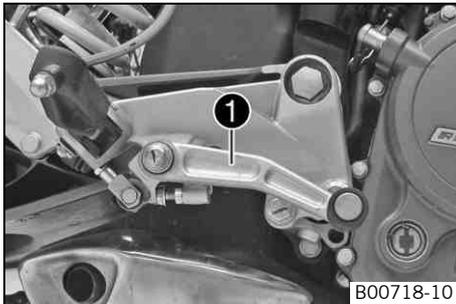


Shift lever ❶ is mounted on the left side of the engine.



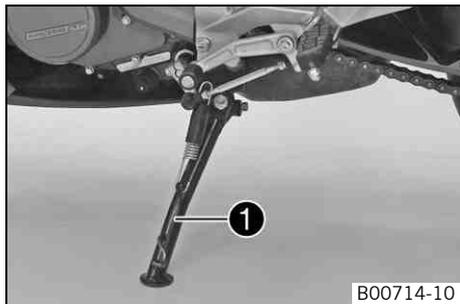
The gear positions can be seen in the photograph.
The neutral or idle position is between the first and second gears.

Foot brake lever



Foot brake lever ❶ is located in front of the right footrest.
The foot brake lever is used to activate the rear brake.

Side stand



The side stand ❶ is on the left side of the vehicle.
The side stand is used to park the motorcycle.



Info

The side stand must be folded up during motorcycle use.
Side stand is coupled with the safety start system; see the riding instructions.

Possible states

- Side stand folded out – The vehicle can be leaned on the side stand. The safety start system is active.
- Side stand folded in – This position is mandatory for all trips. The safety start 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.



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.
- Get used to handling the motorcycle on a suitable piece of land before making a longer trip. Try also to ride as slowly as possible to get a better feel for the vehicle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Run the engine in. (👉 p. 52)

Running in the engine

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

Guideline

Maximum engine speed	
During the first: 1,000 km (621.4 mi)	7,500 rpm



Tip

During the running-in phase, set the shift warning light to the specified engine speed.

- Adjust the shift speed **RPM 1**. (👉 p. 43)
- Adjust the shift speed **RPM 2**. (👉 p. 43)
- 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 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.

 **Warning**
Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.

-
- 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	282 kg (622 lb.)
Maximum permissible front axle load	125 kg (276 lb.)
Maximum permissible rear axle load	210 kg (463 lb.)

Checks and maintenance when preparing for use

i **Info**
Before every trip, check the condition of the vehicle and ensure that it is roadworthy.
The vehicle must be in perfect technical condition when used.

- Check the engine oil level. (☛ p. 130)
- Check the brake fluid level of the front brake. (☛ p. 84)
- Check the rear brake fluid level. (☛ p. 87)
- Check the front brake linings. (☛ p. 87)
- Check the rear brake linings. (☛ p. 92)
- Check the brake system function.
- Check the coolant level. (☛ p. 122)
- Check for chain dirt accumulation. (☛ p. 74)
- Check the chain tension. (☛ p. 75)
- Check the tire condition. (☛ p. 99)
- Check the tire air pressure. (☛ p. 100)
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check the functioning of the electrical equipment.
- 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

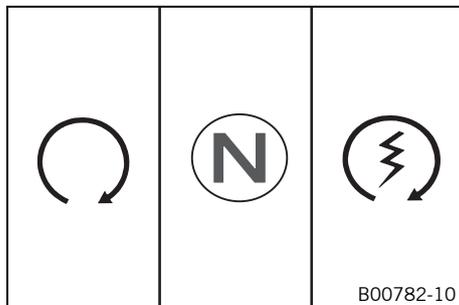
Engine failure Unfiltered intake air has a negative effect on the service life of the engine.

- 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 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.
-



- Sit on the vehicle, take the weight off of the side stand, and move up all the way.
- Turn the emergency OFF switch to the position .
- Switch on the ignition by turning the ignition key to the position .
- ✓ After you switch on the ignition, you can hear the fuel pump working for about two seconds. The function test of the combination instrument is run at the same time.
- Shift gear to neutral.
- ✓ The green idling speed indicator lamp **N** lights up.
- Press the electric starter button .

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 a least 5 seconds before trying again.

This motorcycle is equipped with a safety start system. You can only start the engine if the transmission 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.

Starting off

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

Tip

If the engine dies while starting off, only pull the clutch lever and press the electric starter button. You do not need to shift into neutral.

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.



Warning

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 Falling off of the passenger.

- The passenger must be capable of properly holding onto the driver or the grab handles and of keeping his or her 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.



Warning

Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.



Warning

Danger of accidents Lack of roadworthiness.

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

Note

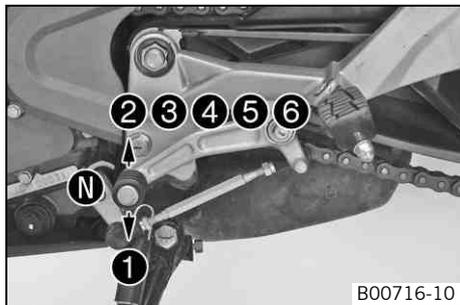
Engine failure Overheating of engine.

- 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.

i 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 4 bars of the temperature indicator light up.

- Accelerate only up to a speed suitable for the road surface and weather conditions. Particularly 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.
- Switch off the engine if you expect to be standing for a long time.
- If the engine diagnosis warning lamp  lights up during a trip, stop immediately, switch off the engine, and contact an authorized KTM workshop.

Applying the brakes



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 Longer stopping distance due to higher overall weight.
- Take the longer stopping distance into account when carrying a passenger and baggage.

-  **Warning**
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.

-
- When braking, release the throttle and apply the front and rear brakes at the same time.
 - 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 the position ☒.



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 LOCK. 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.



Warning

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.

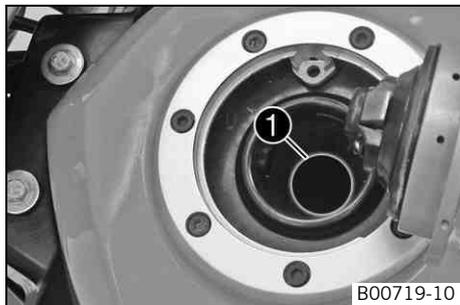
- In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system. (Your authorized KTM workshop will be glad to help.)
- Only refuel with clean fuel that meets the specified standards.



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.



- Switch off the engine.
- Open the filler cap. (☛ p. 44)
- Fill the fuel tank with fuel up to the lower edge ❶ of the fuel filler.

Total fuel tank capacity, approx.	10.5 l (2.77 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (☛ p. 160)
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- Close the filler cap. (☛ p. 46)

Service schedule

	K10N	K50A	K100A
Check the functioning of the electrical equipment.	•	•	•
Read out the fault memory using the KTM diagnostics tool. 🛠️	•	•	•
Change the engine oil and oil filter, clean the oil screen. 🛠️ (📖 p. 130)	•	•	•
Check the front brake linings. (📖 p. 87)	•	•	•
Check the rear brake linings. (📖 p. 92)	•	•	•
Check the brake discs. (📖 p. 84)	•	•	•
Check the brake lines for damage and leakage.	•	•	•
Check the rear brake fluid level. (📖 p. 87)	•	•	•
Check the shock absorber and fork for leaks. Perform a fork and shock absorber service if needed and depending on vehicle use.	•	•	•
Check the swingarm bearing. 🛠️		•	•
Check the wheel bearing for play. 🛠️		•	•
Check the tire condition. (📖 p. 99)	•	•	•
Check the tire air pressure. (📖 p. 100)	•	•	•
Check the chain, rear sprocket, and engine sprocket. (📖 p. 78)		•	•
Check the chain tension. (📖 p. 75)	•	•	•
Grease all moving parts (e.g. side stand, hand lever, chain, ...) and check for smooth operation. 🛠️	•	•	•
Clean the dust boots of the fork legs.		•	•
Check the brake fluid level of the front brake. (📖 p. 84)	•	•	•
Check the steering head bearing play.	•	•	•
Change the spark plugs. 🛠️		•	•
Check the valve clearance. 🛠️	•		•

	K10N	K50A	K100A
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and bellows for cracking, leaks, and correct routing. 	•		•
Check the antifreeze and coolant level. (🔧 p. 120)	•	•	•
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 screws and nuts for tightness. 	•	•	•
Change the front brake fluid. 			•
Change the rear brake fluid. 			•
Check the headlight setting. (🔧 p. 115)	•	•	•
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)

K50A: Every 5,000 km (3,107 mi) or annually

K100A: Every 10,000 km (6,214 mi) or every 2 years

Adjusting the spring preload of the shock absorber

-  **Warning**
Danger of accidents Modifications to the suspension settings can seriously alter the vehicle's ride behavior.
- Following modifications, ride slowly at first to get the feel of the new ride behavior.

 **Info**
 The spring preload defines the initial situation of the spring process on the shock absorber. The best spring preload setting is achieved when it is set for the weight of the rider and that of any baggage and a passenger, thus ensuring an ideal compromise between maneuverability and stability.



- Adjust the spring preload by turning adjustment unit **1**.

Guideline

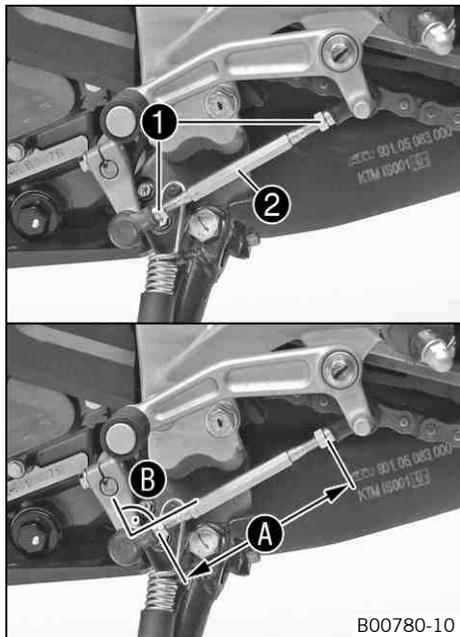
Spring preload	
Standard	3 clicks
Full payload	6 clicks

Hook wrench (T106S)

 **Info**
 The spring preload can be set to 10 different positions.

Adjusting the shift lever

 **Info**
 The adjustment range of the shift lever is limited.



- Loosen nuts ❶.
- Adjust the shift lever by turning shift rod ❷.

Guideline

Shift rod adjustment range ❶	100... 112 mm (3.94... 4.41 in)
------------------------------	---------------------------------

i **Info**

Make the same adjustments on both sides.
At least five screw threads must be screwed into the seating.

- Check adjusting angle ❸.

Guideline

Adjusting angle ❸ shift rod, deflector, shift lever	90°
---	-----

- Tighten nuts ❶.

i **Info**

After the nuts have been tightened, the bearings of the shift rod must be centrally and identically aligned to each other in order to ensure freedom of movement in the bearing shells.

- Check the shift lever to ensure it is functioning properly and can move freely.

Raising the motorcycle with the front wheel stand

Note

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

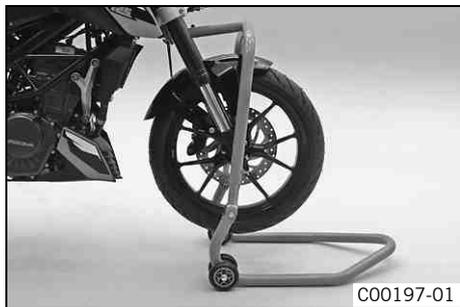
- Always place the vehicle on a firm and even surface.

Preliminary work

- Raise the motorcycle with the rear wheel stand. (🔧 p. 70)

Condition

- Remove cap ❶.



- Move the handlebar to the straight-ahead position. Attach the lifting gear to the steering stem.

Adapter (61029955620)

Front wheel stand (61029055500)



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.



- Mount cap ❶.

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.



- Mount the support of the wheel stand.
- Insert the adapter in the rear wheel stand.

Adapter (61029055130)

Rear wheel stand (61029055400)

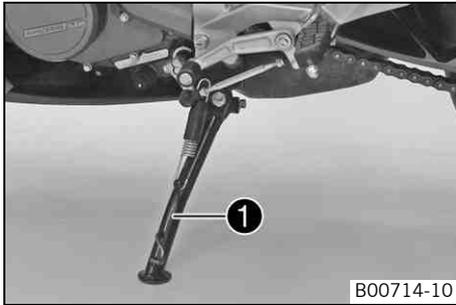
- Stand the motorcycle upright, align the wheel stand with the link fork and the adapters, and lift the motorcycle.

Taking the motorcycle off 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.



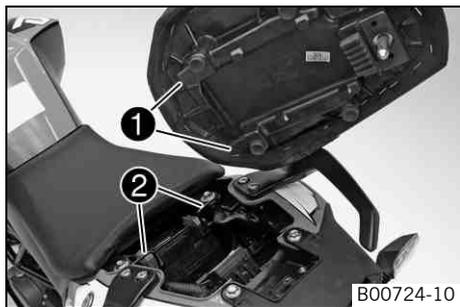
- Secure the motorcycle against falling over.
- Remove the rear wheel stand and lean the vehicle on the side stand ❶.
- Remove the support of the wheel stand.

Removing the passenger seat



- Insert the ignition key in seat lock ❶ and turn it clockwise.
- Raise the rear of the seat, push it towards the rear, and remove it upwards.
- Remove the ignition key from the seat lock.

Mounting the passenger seat



- Attach hooks ❶ on the passenger seat to brackets ❷ on the subframe, and lower it at the rear while pushing forward.
- Press down the passenger seat until it clicks into place.

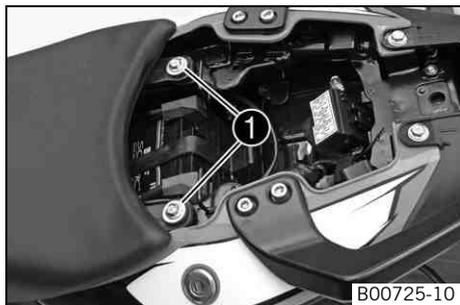


Warning

Danger of accidents The passenger seat can come loose from the anchoring if it is not mounted correctly.

- After mounting the passenger seat, check that it is locked correctly by pulling up.
-
- Finally, check that the passenger seat is correctly mounted.

Removing the seat



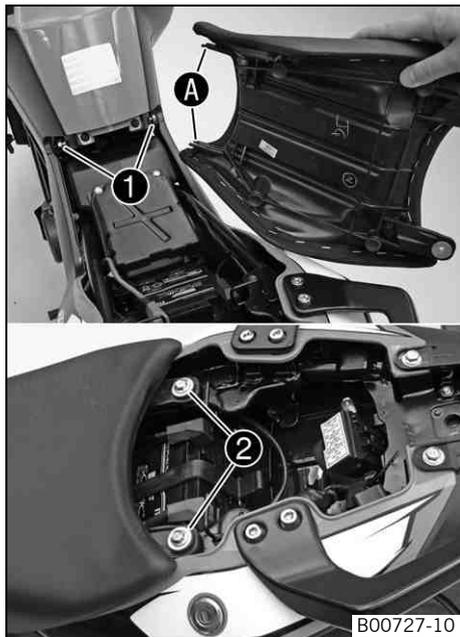
Preliminary work

- Remove the passenger seat. (👉 p. 71)

Main work

- Remove screws ❶.
- Raise the rear of the seat, pull it towards the rear, and remove it upwards.

Mounting the seat



Main work

- Attach seat recesses **A** at screws **1** and lower at the rear.
- Mount and tighten screws **2**.

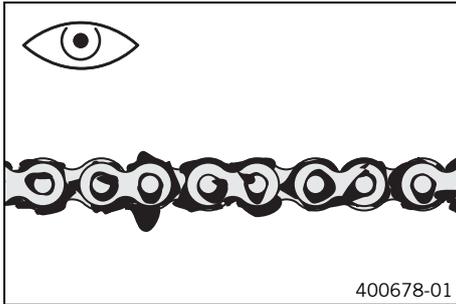
Guideline

Screw, seat	M6	11 Nm (8.1 lbf ft)
-------------	----	--------------------

Subsequent work

- Mount the passenger seat. (👉 p. 72)

Checking for chain dirt accumulation



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (☛ p. 74)

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.



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

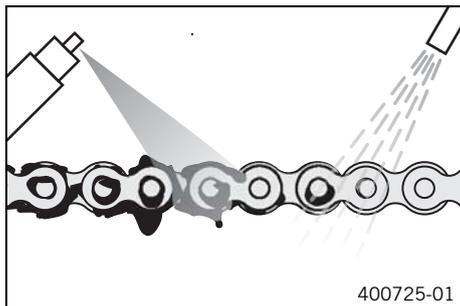
Environmental hazard Hazardous substances cause environmental damage.

- 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. 161)

- After drying, apply chain spray.

Chain lube for road use (☛ p. 161)

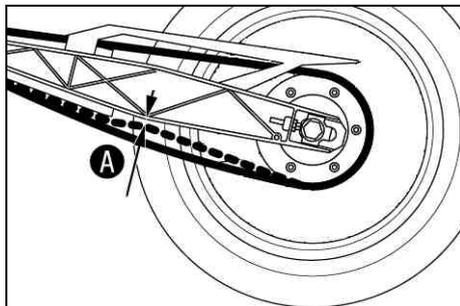
Checking the chain tension



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.
- In the area after the chain sliding guard, press the chain upward toward the link fork and measure chain tension **A**.



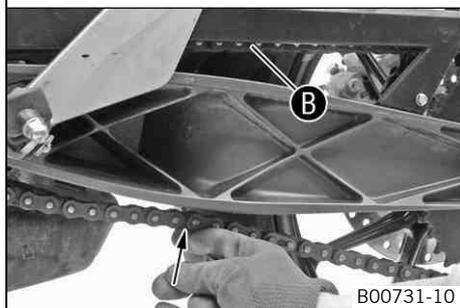
Info

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

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

Chain tension	5... 7 mm (0.2... 0.28 in)
---------------	----------------------------

- » If the chain tension does not meet specifications:
 - Adjust the chain tension. (👉 p. 76)



Adjusting 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.

Preliminary work

- Check the chain tension. (☛ p. 75)

Main work

- Loosen nut ❶.
- Loosen nuts ❷.
- Adjust the chain tension by turning adjusting screws ❸ on the left and right.

Guideline

Chain tension	5... 7 mm (0.2... 0.28 in)
Turn adjusting screws ❸ on the left and right so that the markings on the left and right chain adjuster ❹ are in the same position in relation to reference marks ❺. The rear wheel is then correctly aligned.	

i Info

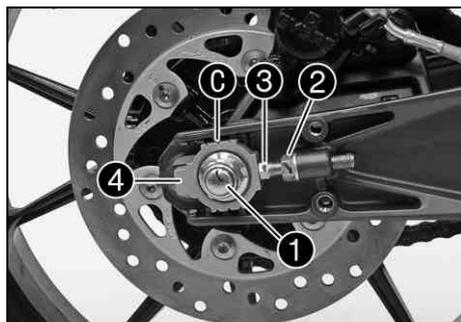
The upper chain section must be taut.

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

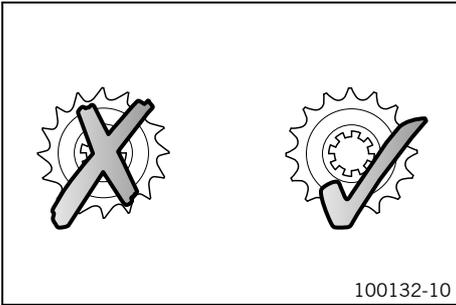
- Tighten nuts ❷.
- Make sure that chain adjusters ❹ are fitted correctly on adjusting screws ❸.
- Tighten nut ❶.

Guideline

Nut, rear wheel spindle	M14x1.5	60 Nm (44.3 lbf ft)
-------------------------	---------	------------------------



Checking the chain, rear sprocket, and engine sprocket

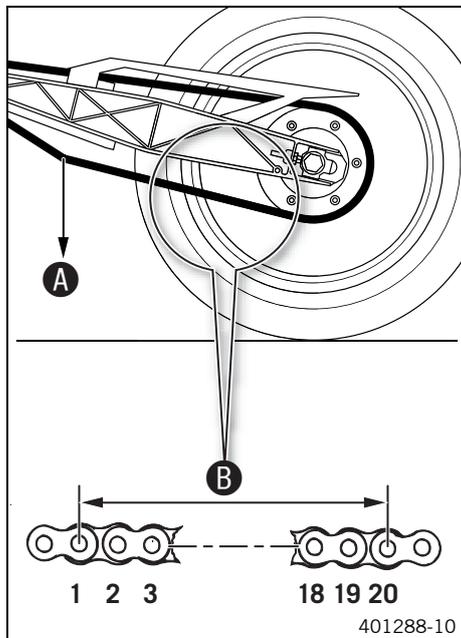


- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Replace the rear sprocket or engine sprocket. 🛠️



Info

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



- Shift gear to neutral.
- Pull the lower chain section with specified weight **A**.

Guideline

Weight, chain wear measurement	15 kg (33 lb.)
--------------------------------	----------------

- Measure the distance **B** of 20 chain links in the lower chain section.

i Info

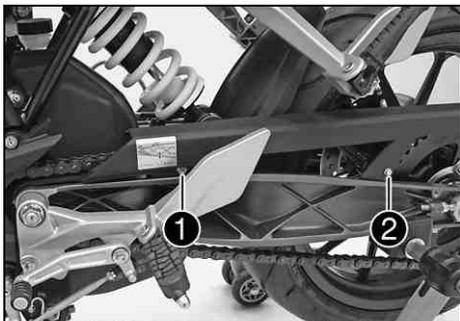
Chain wear is not always even, so you should repeat this measurement at different chain positions.

Maximum distance B at the longest chain section	301.6 mm (11.874 in)
--	----------------------

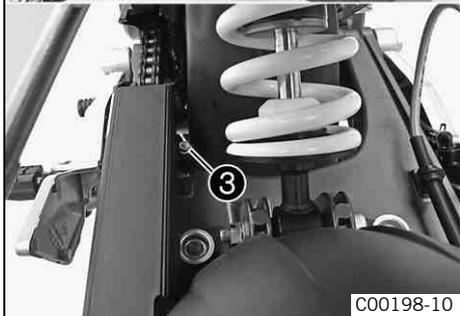
- » If the distance **B** is greater than the specified measurement:
 - Replace the chain.

i Info

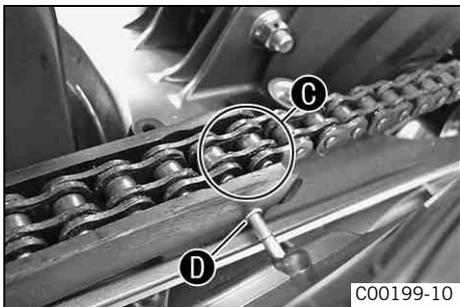
When the chain is replaced, the rear sprocket and engine sprocket should also be changed.
New chains wear out faster on old, worn sprockets.

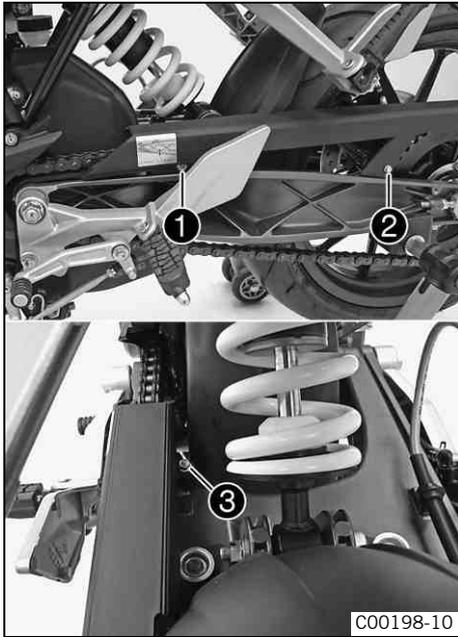


- Remove screws ② and ③ and release screw ①. Push the chain guard aside.



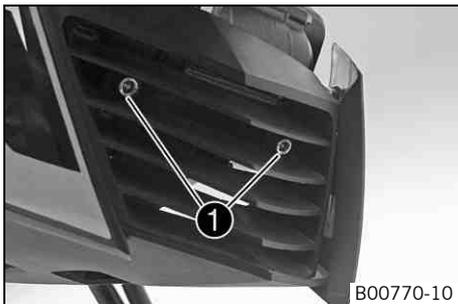
- Check the chain sliding guard for wear.
 - » If drill hole ① becomes visible on the chain sliding guard in area ②:
 - Change the chain sliding guard. 🛠️
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.



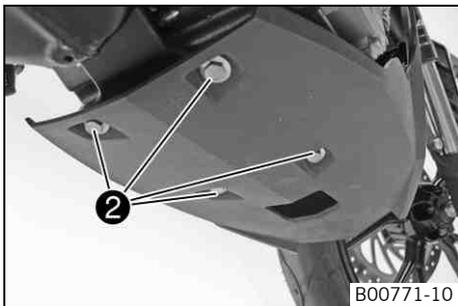


- Position the chain guard and tighten screws ❶, ❷, and ❸.

Removing the front spoiler

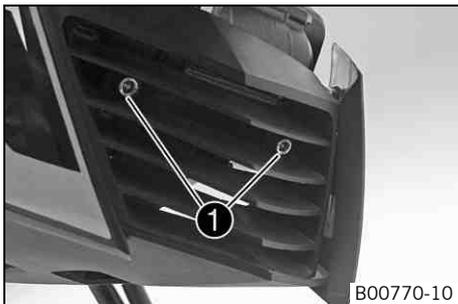


- Remove screws ❶.

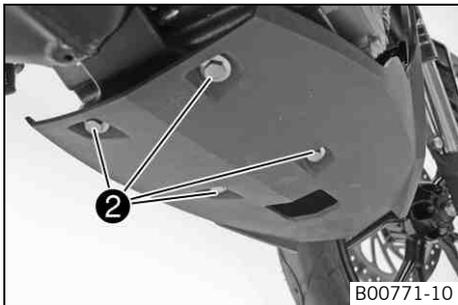


- Remove screws ❷.
- Take off the front spoiler.

Fitting front spoiler



- Position the front spoiler. Mount screws ❶ but do not tighten yet.



- Mount and tighten screws ❷.

Guideline

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

- Tighten screw ❶.

Guideline

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

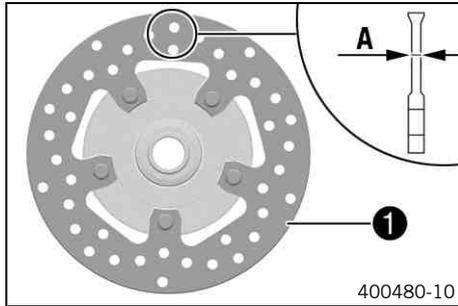
Checking the brake discs



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 at several places on the disk to see if it conforms to measurement **A**.



Info

Wear reduces the thickness of the brake disc in area **1** of the brake disc.

Brake discs - wear limit	
Front	3.6 mm (0.142 in)
Rear	3.6 mm (0.142 in)

- » If the brake disc thickness is less than the specified value:
 - Change the brake discs. 🛠️
- Check the front and rear brake discs for damage, cracking, and deformation.
 - » If the brake disc shows signs of damage, cracking, or deformation:
 - Change the brake discs. 🛠️

Checking the brake fluid level of the front brake



Warning

Danger of accidents Failure of the brake system.

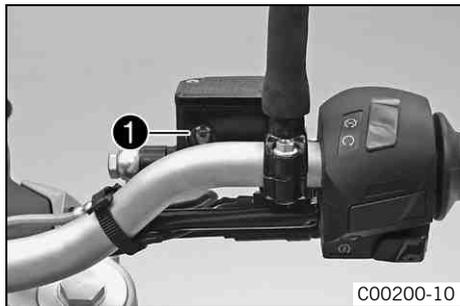
- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking efficiency due to 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 viewer ❶.
 - » If the brake fluid is below the **MIN** marking:
 - Add front brake fluid. 🛠️ (📖 p. 85)

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 efficiency due to 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

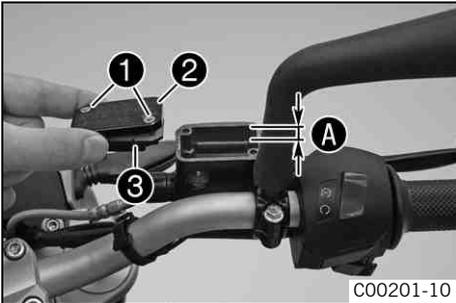
Environmental hazard Hazardous substances cause environmental damage.

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



Info

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 ❶.
- Remove cover ❷ with membrane ❸.
- Add brake fluid to level ❸.

Guideline

Level ❸	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

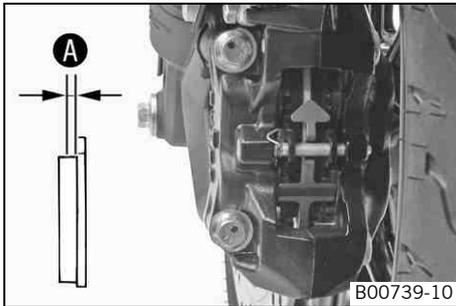
Danger of accidents Reduced braking efficiency caused by worn brake linings.

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

- » 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 rear brake fluid level



Warning

Danger of accidents Failure of the brake system.

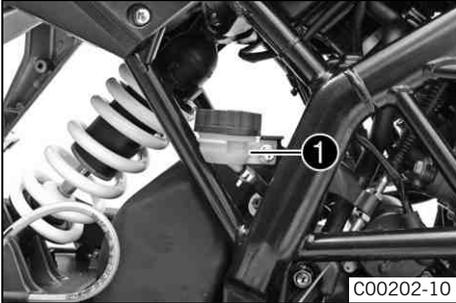
- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking efficiency due to 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** mark ❶:
 - Add rear brake fluid. 🛠️ (📖 p. 88)

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.)



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 efficiency due to 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

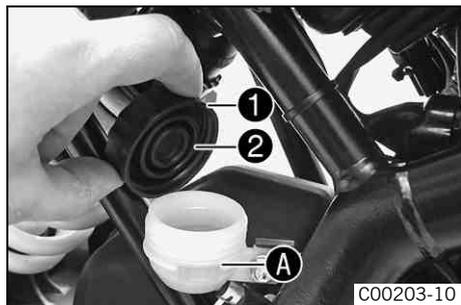
Environmental hazard Hazardous substances cause environmental damage.

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



Info

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 ❶ with membrane ❷.
 - Add brake fluid to level A.
- Brake fluid DOT 4 / DOT 5.1 (↪ p. 158)
- Refit screw cap with membrane.



Info

Clean up overflowed or spilled brake fluid immediately with water.

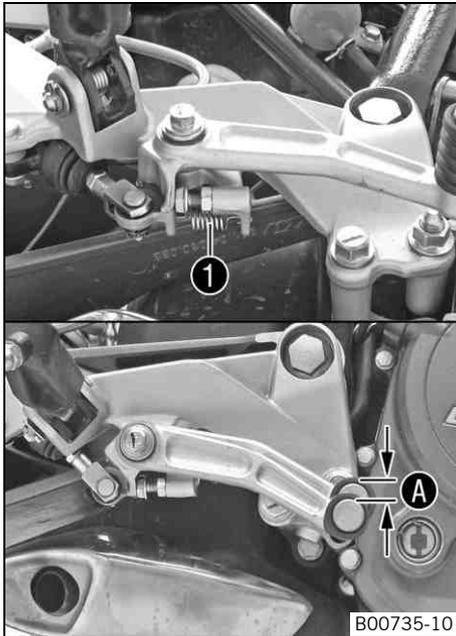
Checking the free travel of foot brake lever



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.



- Disconnect spring ❶.
- 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 ❷.

Guideline

Free travel at foot brake lever	3... 5 mm (0.12... 0.2 in)
---------------------------------	----------------------------

- » If the free travel does not meet specifications:
 - Adjust the free travel of the foot brake lever. 🛠️ (👉 p. 91)
- Reconnect spring ❶.

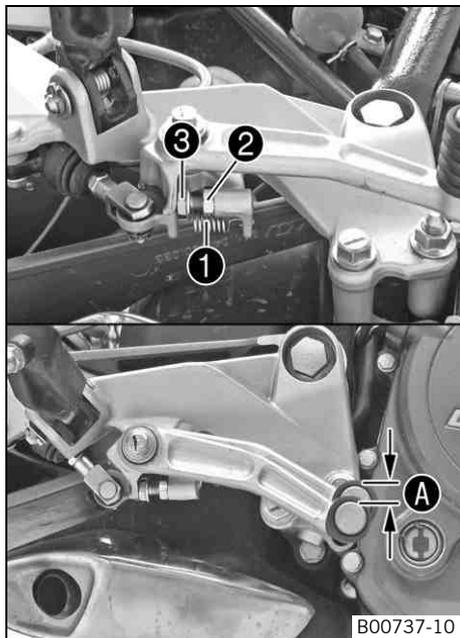
Adjusting the free travel of the foot brake lever



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.



B00737-10

- Disconnect spring **1**.
- Release nut **2** and use screw **3** to adjust the specified free travel **A**.

Guideline

Free travel at foot brake lever	3... 5 mm (0.12... 0.2 in)
---------------------------------	----------------------------



Info

The range of adjustment is limited.

- Hold screw **3** and tighten nut **2**.
- Attach spring **1**.

Checking the rear brake linings



Warning

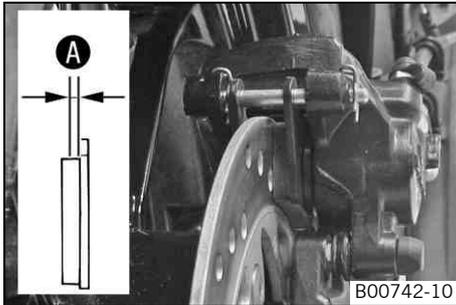
Danger of accidents Reduced braking efficiency caused by worn brake linings.

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

- » 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. 🛠️

Removing the front wheel



Preliminary work

- Raise the motorcycle with the rear wheel stand. ( p. 70)
- Raise the motorcycle with the front wheel stand. ( p. 68)

Main work

- Loosen screw **1** and screws **2**.
- Unscrew screw **1** about six turns and press your hand on the screw to push the wheel spindle out of the axle clamp. Remove screw **1**.



Warning

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

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



Info

Do not pull the hand brake lever when the front wheel is removed.

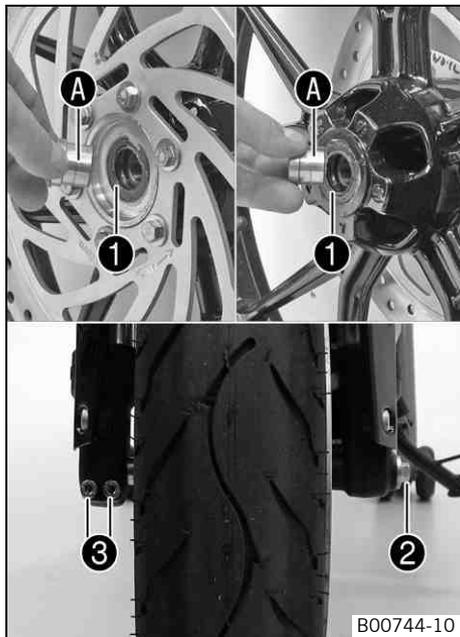
Installing the front wheel



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.



Main work

- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the wheel bearing. 🛠️
- Clean and grease the shaft seal rings ❶ and mating surfaces ❸ of the spacers.

Long-life grease (👉 p. 162)

- Clean the thread of the wheel spindle and screw ❷.
- Lift the front wheel into the fork, position it, and insert the wheel spindle. Mount and tighten screw ❷.

Guideline

Screw, front wheel spindle	M8	25 Nm (18.4 lbf ft)
----------------------------	----	------------------------

- Operate the hand 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 front wheel stand. (👉 p. 69)
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Tighten screws ❸.

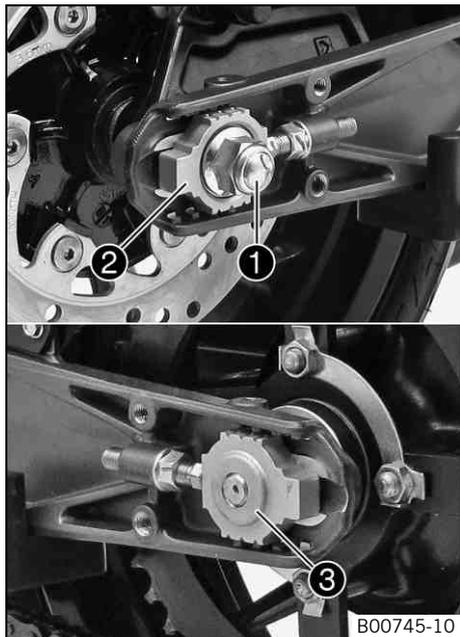
Guideline

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

Subsequent work

- Take the motorcycle off of the rear wheel stand. (👉 p. 70)

Removing the rear wheel



Preliminary work

- Raise the motorcycle with the rear wheel stand. ( p. 70)

Main work

- Remove nut **1** and the washer. Remove chain adjuster **2**.
- Holding the rear wheel, withdraw wheel spindle **3**.
- Push the rear wheel forward as far as possible and take the chain off the rear sprocket.



Warning

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

- Always lay the wheel down in such a way that the brake discs are not damaged.

- Pull the rear wheel back and take it out of the swingarm.



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.

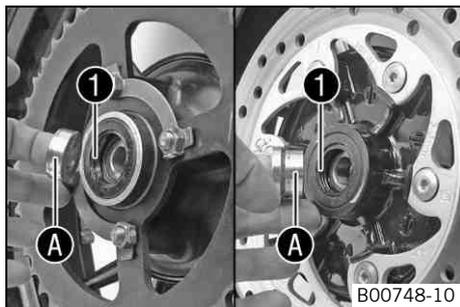
- After installing the rear wheel, always operate the foot brake until the pressure point is reached.

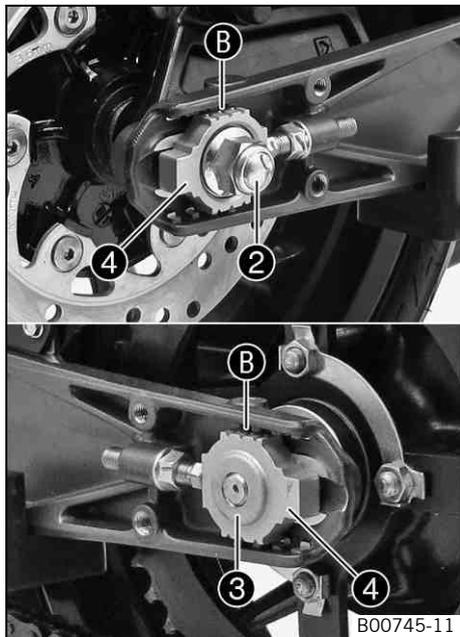
Main work

- Check the rear hub rubber dampers.  ( p. 97)
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the wheel bearing. 
- Clean and grease the shaft seal rings **1** and mating surfaces **A** of the spacers.

Long-life grease ( p. 162)

- Clean the thread of the axle and nut **2**.
- Clean the fixing locations on the brake caliper support and swingarm.
- Install the rubber damper and rear sprocket carrier on the rear wheel.
- Stand the rear wheel in the swingarm and mount the brake caliper on the brake disc.
- Position the rear wheel on the contact surfaces in the swingarm.
- Push the rear wheel as far forward as possible and place the chain on the rear sprocket.





- Pull the rear wheel back and mount wheel spindle ①.



Info

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

- Mount nut ② and washer.
- Push the rear wheel forward so that the chain adjusters are on the screws, and tighten nut ②.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to the reference marks ⑤.

Nut, rear wheel spindle	M14x1.5	60 Nm (44.3 lbf ft)
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Subsequent work

- Take the motorcycle off of the rear wheel stand. (🔧 p. 70)

Checking the rear hub rubber dampers 🔧



Info

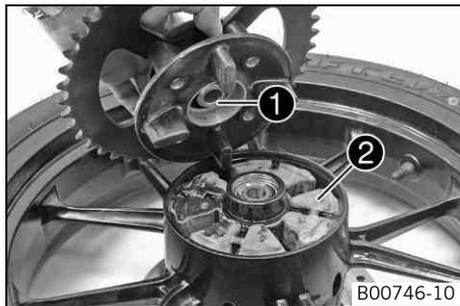
The engine power is transmitted from the rear sprocket to the rear wheel via 6 rubber dampers. They eventually wear out during operation. If the rubber dampers are not changed in time, the rear sprocket carrier and the rear hub will be damaged.

Preliminary work

- Raise the motorcycle with the rear wheel stand. (🔧 p. 70)
- Remove the rear wheel. 🛠️ (🔧 p. 95)

Main work

- Check bearing ❶.
 - » If the bearing is damaged or worn:
 - Change the bearing. 🛠️
- Check the rubber dampers ❷ 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.



B00746-10

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



Info

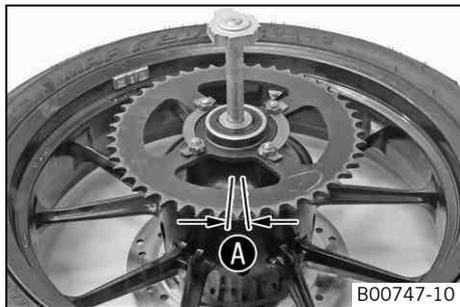
Measure the play ❸ on the outside of the rear sprocket.

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

- » If play ❸ is larger than the specified value:
 - Change all rubber dampers in the rear hub.

Subsequent work

- Install the rear wheel. 🛠️ (🔧 p. 96)
- Take the motorcycle off of the rear wheel stand. (🔧 p. 70)



B00747-10

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

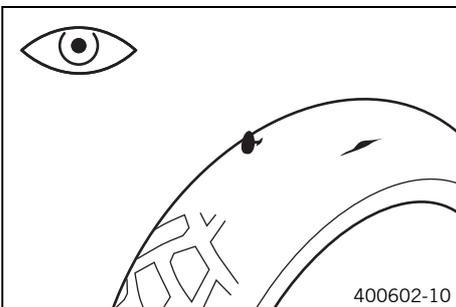
Danger of accidents Uncontrollable handling characteristic due to non-approved and/or non-recommended tires/wheels.

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



Info

The type, condition and air pressure of the tires all have a major impact on the riding behavior 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 age of the tires.

i **Info**

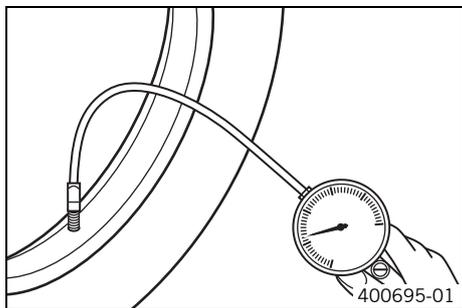
The tire's date of the manufacture is usually part of the tire markings and is indicated by the last four digits of the **DOT** marking. The first two digits refer to the week of manufacture and last two digits refer to the year of manufacture. KTM recommends that the tires are changed regardless of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

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

Checking the tire air pressure

i **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 the dust cap.
- Check tire air pressure when the tires are cold.

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

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

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

Removing the battery



Warning

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

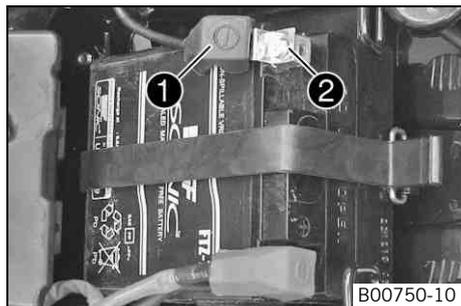
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water.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

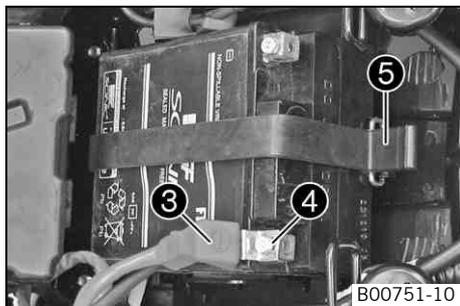
Preliminary work

- Remove the passenger seat. ( p. 71)
- Remove the seat. ( p. 72)

Main work

- Pull back the negative terminal cover **1**.
- Disconnect the negative cable **2** of the battery.



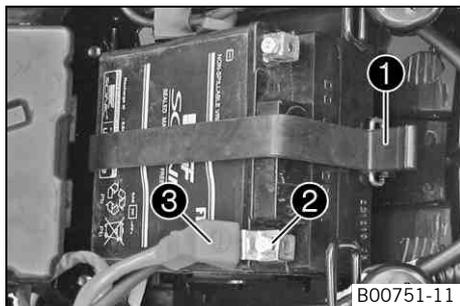


- Pull back the positive terminal cover ⑤.
- Disconnect the positive cable ④ of the battery.
- Detach rubber band ③.
- Pull the battery up and out of the battery rack.

i 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 ↩



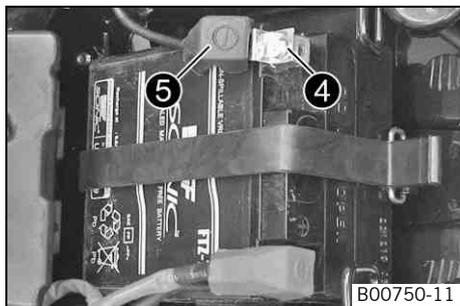
Main work

- Position the battery in the battery rack.

i Info

The battery terminals must be at the top.

- Attach rubber band ①.
- Reconnect the positive cable ② of the battery.
- Position positive terminal cover ③.



- Connect the negative cable ④ of the battery.
- Position the negative terminal cover ⑤.

Subsequent work

- Mount the seat. (👉 p. 73)
- Mount the passenger seat. (👉 p. 72)
- Set the clock. (👉 p. 42)

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 The battery contains elements that 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.
-



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.

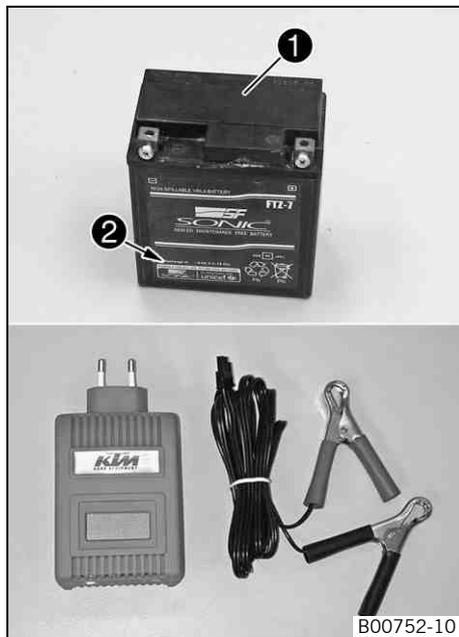
If the battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.

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.

Preliminary work

- Switch off all power consumers and switch off the engine.
- Remove the passenger seat. (☛ p. 71)
- Remove the seat. (☛ p. 72)
- Disconnect the negative cable of the battery to avoid damage to the motorcycle's electronics.



Main work

- 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 battery housing ②.

- Switch off the charger after charging. Disconnect the battery.

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
--	----------

Subsequent work

- Mount the seat. (☛ p. 73)
- Mount the passenger seat. (☛ p. 72)
- Set the clock. (☛ p. 42)

Changing the fuses of individual power consumers

Info

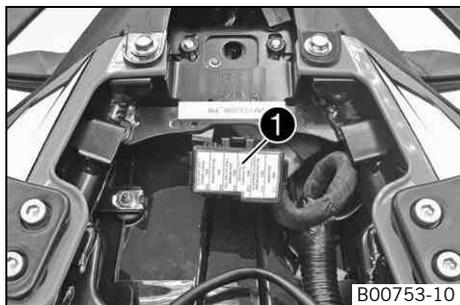
The fuse box with the main fuse and the fuses of the individual power consumers is located under the passenger seat.

Preliminary work

- Switch off all power consumers and switch off the engine.
- Remove the passenger seat. (☛ p. 71)

Main work

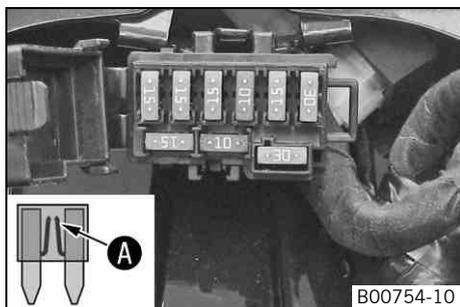
- Open fuse box cover **1**.



- Remove the defective fuse.

Guideline

Fuse 1 - 30 A - main fuse
Fuse 2 - 15 A - combination instrument
Fuse 3 - 10 A - control unit, main relay
Fuse 4 - 15 A - ignition coil, alarm system (OPTIONAL)
Fuse 5 - 15 A - radiator fan
Fuse 6 - 15 A - horn, brake light, turn signal, high beam, low beam, parking light, tail light, license plate lamp



**Info**

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

**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.
- Use spare fuses with the correct rating only.

Fuse (75011088010) (☞ p. 150)
Fuse (75011088015) (☞ p. 150)
Fuse (75011088030) (☞ p. 150)

**Tip**

Replace the spare fuse in the fuse box so that it is available if needed.

- Check that the power consumer is functioning properly.
- Close the fuse box cover.

Follow-up work

- Mount the passenger seat. (☞ p. 72)

Changing the headlight bulb

Note

Damage to reflector Reduced luminance.

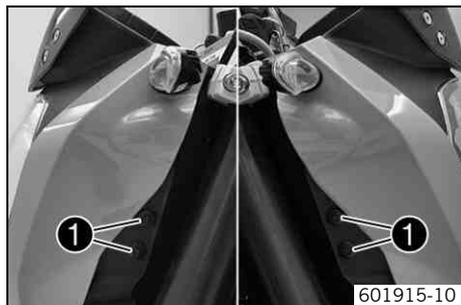
- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.

Preliminary work

- Switch off all power consumers and switch off the engine.

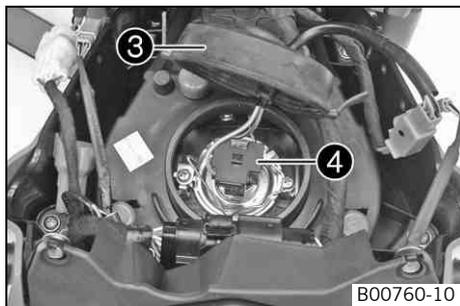
Main work

- Remove expanding rivets ❶.

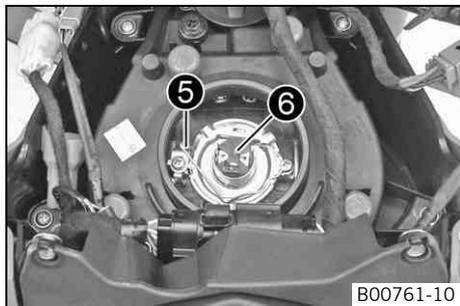


- Remove screws ❷.
- Lift the headlight mask slightly and swing forward.





- Take off rubber cap ③.
- Disconnect plug-in connector ④.

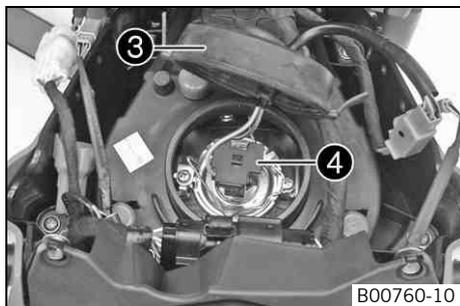


- Detach retaining clamp ⑤.
- Remove headlight bulb ⑥.
- Position the new headlight bulb in the headlight housing.

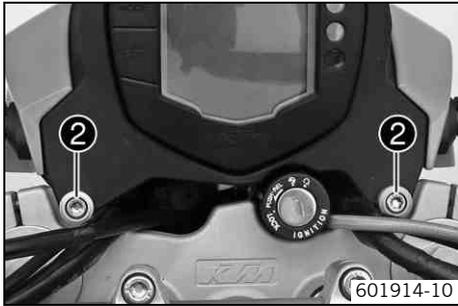
Headlight (H4/socket P43t) (☛ p. 150)

i Info

Insert the headlight bulb so that the bayonet lugs latch into the slots.



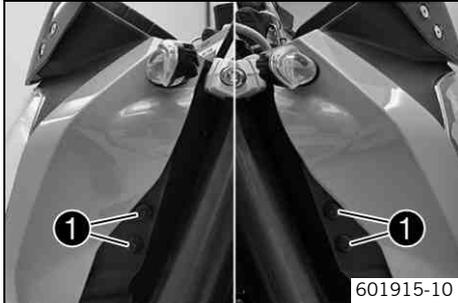
- Attach retaining clamp ⑤.
- Connect plug-in connection ④.
- Mount rubber cap ③.



- Fold the headlight mask up.
- Mount and tighten screws ②.

Guideline

Screw, headlight mask	M6	11 Nm (8.1 lbf ft)
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- Mount expanding rivets ① on both sides.
- Check that the lighting is functioning properly.

Changing the parking light bulb

Note

Damage to reflector Reduced luminance.

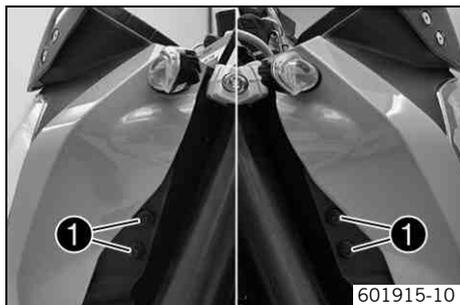
- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.

Preliminary work

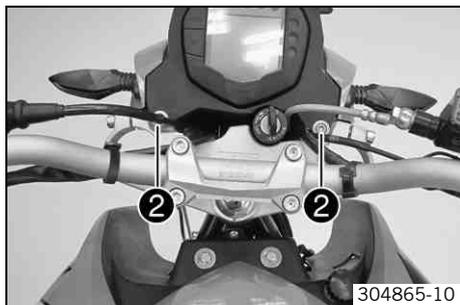
- Switch off all power consumers and switch off the engine.

Main work

- Remove expanding rivets ❶.

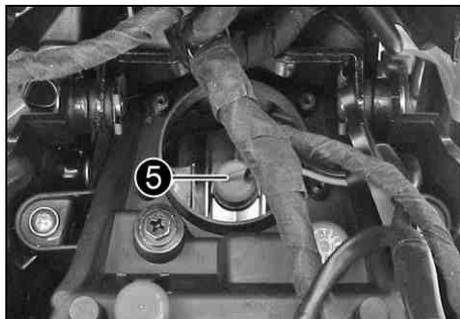


- Remove screws ❷.
- Lift the headlight mask slightly and swing forward.





- Remove screws ②.
- Take off cover ④.

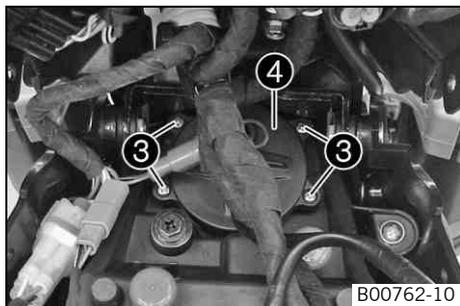


- Pull the socket with lamp ⑤ out of the bracket.
- Remove the bulb.
- Position a new light bulb in the socket.

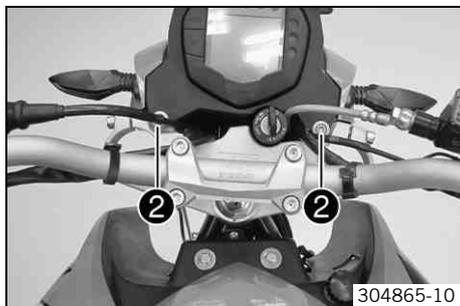
Parking light (W5W/socket W2.1x9.5d) (☛ p. 150)



- Carefully position the socket with bulb ⑤ into the bracket in the headlight.



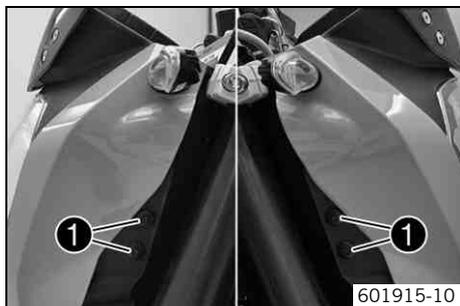
- Position cover ④.
- Mount and tighten screws ③.



- Fold the headlight mask up.
- Mount and tighten screws ②.

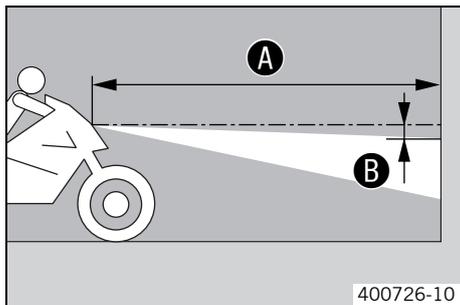
Guideline

Screw, headlight mask	M6	11 Nm (8.1 lbf ft)
-----------------------	----	--------------------



- Mount expanding rivets ① on both sides.
- Check that the lighting is functioning properly.

Checking the headlight setting



- Position 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 **B** under the first mark.

Guideline

Distance B	5 cm (2 in)
-------------------	-------------

- Position the vehicle vertically at a distance **A** in front of the wall and switch on the low beam.

Guideline

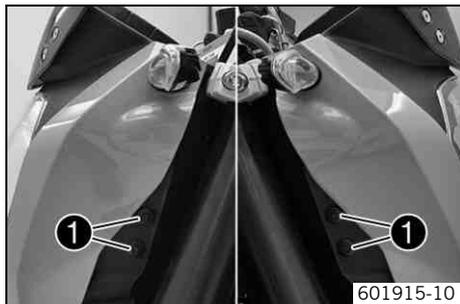
Distance A	5 m (16 ft)
-------------------	-------------

- The rider, with luggage and passenger if applicable, now mounts the motorcycle.
- Check the headlight setting.

The light-dark boundary must lie exactly on the lower mark when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.

- » If the boundary between light and dark does not meet specifications:
 - Adjust the headlight range. (☛ p. 116)

Adjusting the headlight range

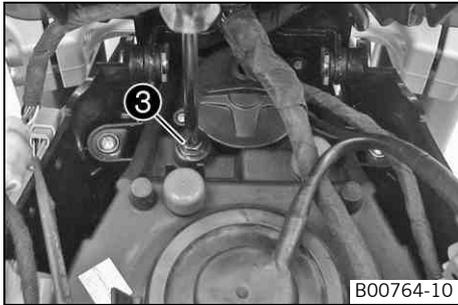


Main work

- Remove expanding rivets ❶.



- Remove screws ❷.
- Lift the headlight mask slightly and swing forward.



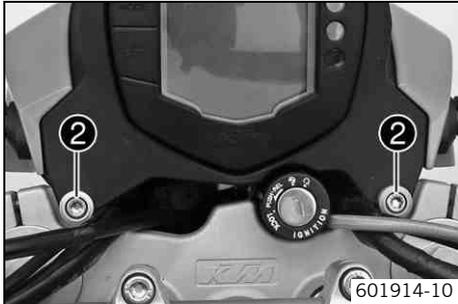
- Adjust the beam distance of the headlight by turning screw ③.

Guideline

For a motorcycle with rider, and with luggage and a passenger if applicable, the light/dark boundary must be exactly on the lower mark (applied in: Checking headlight adjustment).

i Info

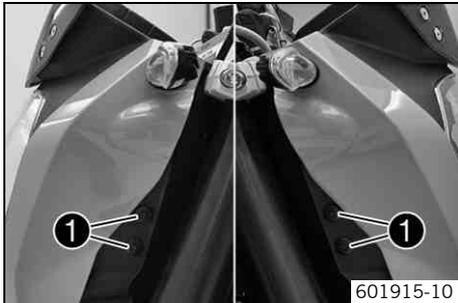
Turn clockwise to increase the headlight range; turn counterclockwise to reduce the headlight range.



- Fold the headlight mask up.
- Mount and tighten screws ②.

Guideline

Screw, headlight mask	M6	11 Nm (8.1 lbf ft)
-----------------------	----	--------------------

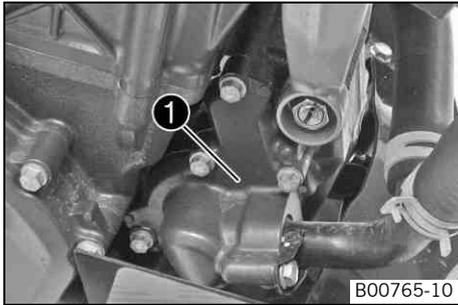


- Mount expanding rivets ① on both sides.

Subsequent work

- Check the headlight setting. (☛ p. 115)

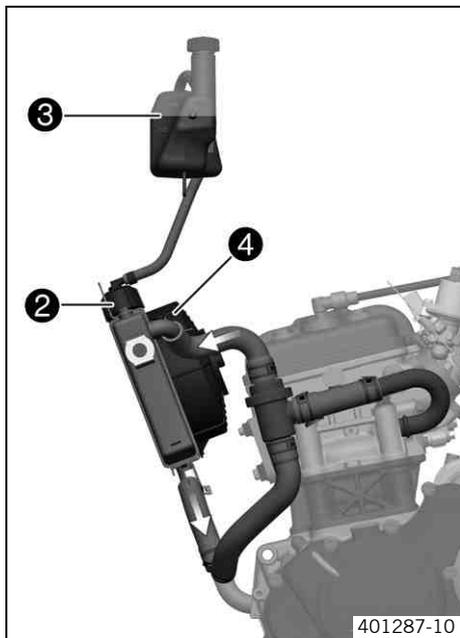
Cooling system



Water pump ❶ in the engine circulates the coolant.

The pressure resulting from the warming of the cooling system is regulated by a valve in radiator cap ❷. Heat expansion causes excess coolant to flow into compensating tank ❸. When the temperature falls, this surplus coolant is sucked back into the cooling system. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

125 °C (257 °F)



The coolant is cooled by the air stream and a radiator fan ④, which is controlled by a thermostat.

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

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.
- Remove the cap of the compensating tank ❶.
- Check the coolant antifreeze.

-25... -45 °C (-13... -49 °F)

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

- Check the coolant level in the compensating tank.

The coolant level must be between **MIN** and **MAX**.

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

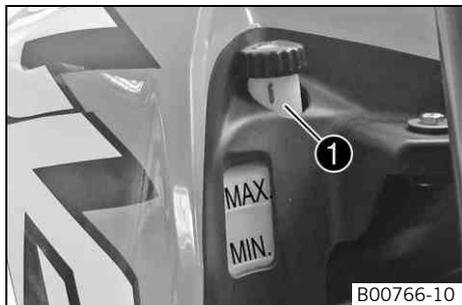
Alternative 1

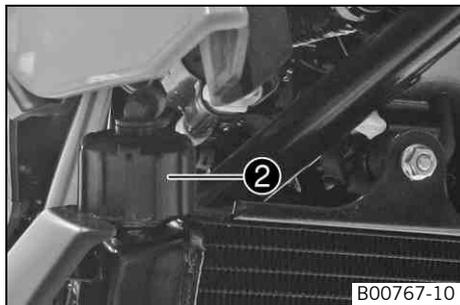
Coolant (☛ p. 158)

Alternative 2

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

- Mount the cap of the compensating tank.





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

-25... -45 °C (-13... -49 °F)

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

- 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)

- » If you had to add more coolant than the specified amount:
 - > 0.20 l (> 0.21 qt.)
 - Fill/bleed the cooling system. 🛠 (☞ p. 125)
- 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, 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

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.
- Check the coolant level in the compensating tank ❶.

The coolant level must be between **MIN** and **MAX**.

- » 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)

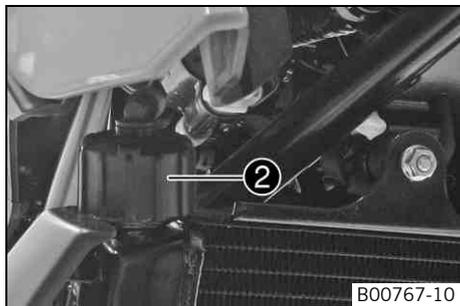
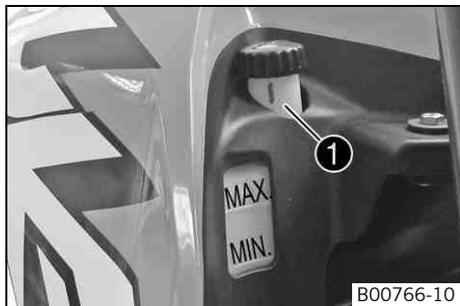
- Screw off radiator cap ❷ and check the coolant level in the radiator.

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)

- » If you had to add more coolant than the specified amount:
 - > 0.20 l (> 0.21 qt.)
 - Fill/bleed the cooling system. 🛠️ (☞ p. 125)
- 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.

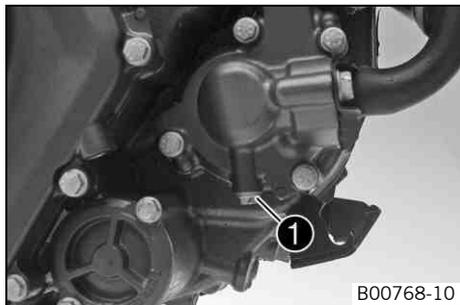
- Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come into contact with coolants.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

Condition

The engine is cold.

Preliminary work

- Remove the front spoiler. (☞ p. 82)



Main work

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

Guideline

Plug, water pump drain hole	M6	8 Nm (5.9 lbf ft)
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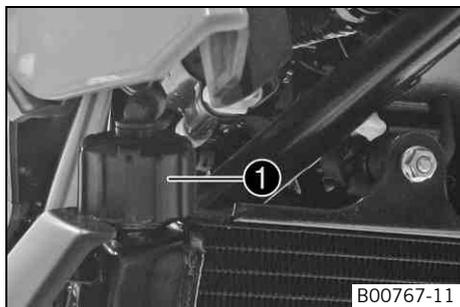
Filling/bleeding the cooling system 🛠️



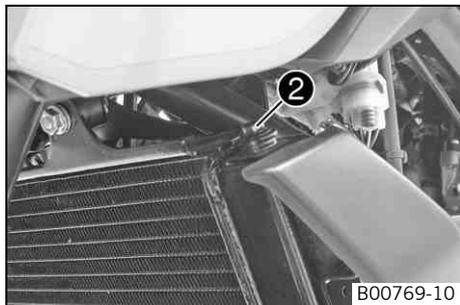
Warning

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.



- Remove radiator cap ❶.



- Remove bleeder screw ②.
- Tilt the vehicle slightly to the right.
- Pour in coolant until it emerges without bubbles at the vent hole, and then mount and tighten the bleeder screw immediately.

Alternative 1

Coolant (☞ p. 158)

Alternative 2

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

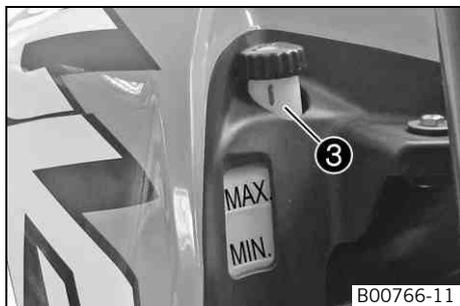
- Fill the radiator completely with coolant. Mount the radiator cap.
- Rest the vehicle on the side stand.



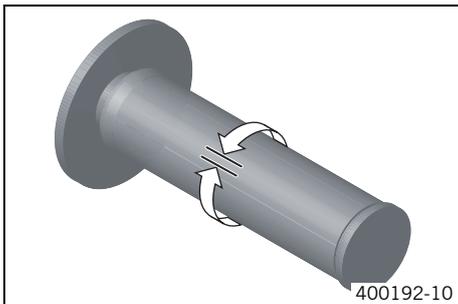
Danger

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 warm.
 - Stop the engine and allow it to cool down.
 - When the engine is cool, check the coolant level in the radiator and, if necessary, add coolant.
 - Remove the cap of the compensating tank ③ and add coolant until the coolant level is up to the **MAX** mark.
 - Mount the cap of the compensating tank.
 - Fit the front spoiler. (☞ p. 83)



Checking the play in the throttle cable



- Check the throttle grip for smooth operation.
- 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. 128)

Danger

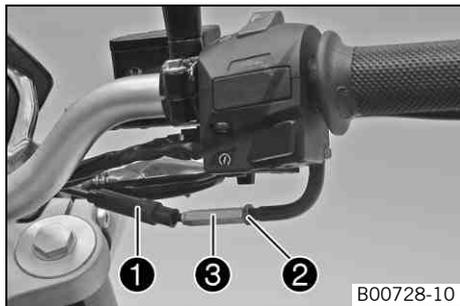
Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- 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:
 - Check the throttle cable routing.

Adjusting the play in the throttle cable



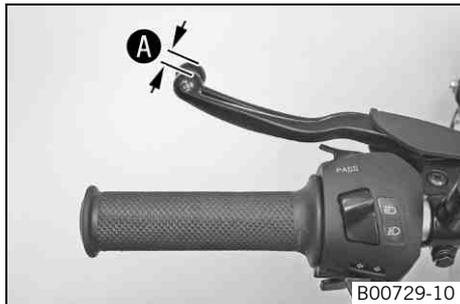
- Move the handlebar to the straight-ahead position.
- Push back sleeve ❶.
- Loosen lock nut ❷.
- Adjust the play in the throttle cable by turning adjusting screw ❸.

Guideline

Throttle cable play	3... 5 mm (0.12... 0.2 in)
---------------------	----------------------------

- Tighten lock nut ❷.
- Slide on sleeve ❶.

Checking the clutch lever play



- Check the clutch lever for smooth operation.
- Move the handlebar to the straight-ahead position. Lightly pull the clutch lever and ascertain the clutch lever play A.

Clutch lever play	1... 3 mm (0.04... 0.12 in)
-------------------	-----------------------------

- » If the clutch lever play does not meet specifications:
 - Adjust the clutch cable play.  (p. 129)

Note

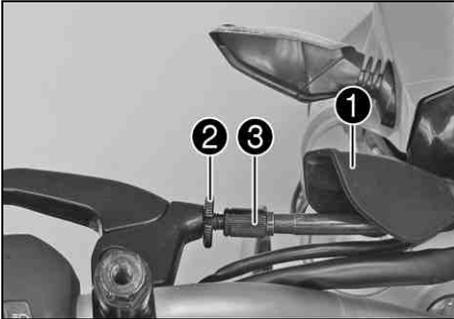
Clutch damage If there is no play on the clutch lever, the clutch will begin to slip.

- When operating the motorcycle, always check the clutch lever play.
- Move the handlebar to and fro over the entire steering range.

The clutch lever play must not change.
--

- » If the clutch lever play changes:
 - Check the routing of the clutch cable.

Adjusting the clutch cable play

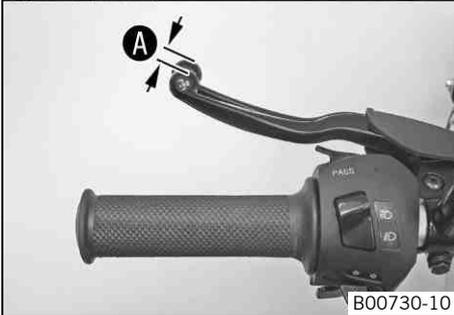


- Move the handlebar to the straight-ahead position.
- Push back sleeve ①.
- Loosen lock nut ②.
- Adjust the play in the clutch level ④ by turning adjusting screw ③.

Guideline

Clutch lever play	1... 3 mm (0.04... 0.12 in)
-------------------	-----------------------------

- Tighten lock nut ②.
- Slide on sleeve ①.



Checking the engine oil level

Condition

The engine is at operating temperature.

Preliminary work

- Stand the motorcycle upright on a horizontal surface.

Main work

- Check the engine oil level.

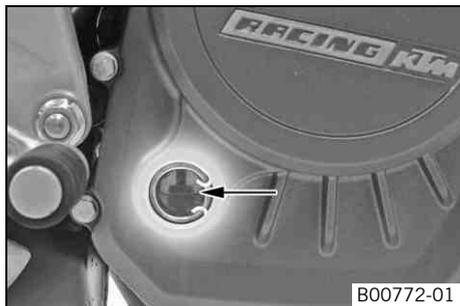


Info

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. 133)



Changing the engine oil and oil filter, cleaning the oil screen 🛠️



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.

Preliminary work

- Remove the front spoiler. (☞ p. 82)
- Stand the motorcycle on its side stand on a horizontal surface.

Main work

- Place a suitable container under the engine.
- Remove the oil drain plug ❶ with the O-ring.
- Remove oil screen ❷ with the O-ring.
- Completely drain the engine oil.
- Clean the oil drain plug and oil screen thoroughly.
- Position oil screen ❷ and mount and tighten oil drain plug ❶ with the O-ring.

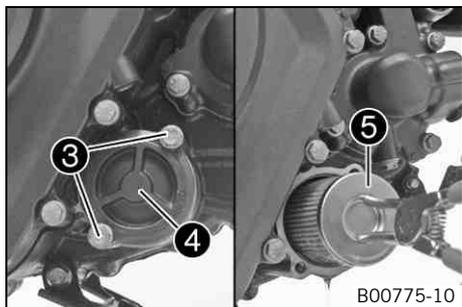
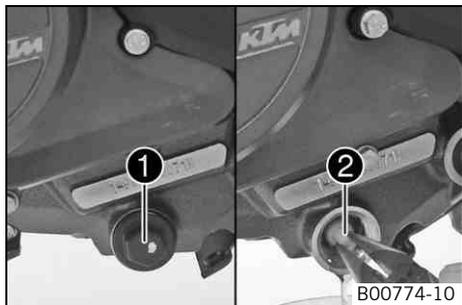
Guideline

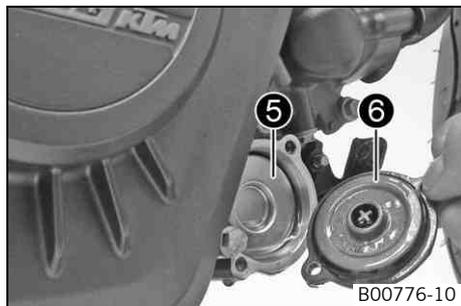
Oil drain plug	M24	20 Nm (14.8 lbf ft)
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- Remove screws ❸. Remove the oil filter cover ❹ with the O-ring.
- Pull oil filter ❺ out of the oil filter housing.

Circlip pliers reverse (51012011000)

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





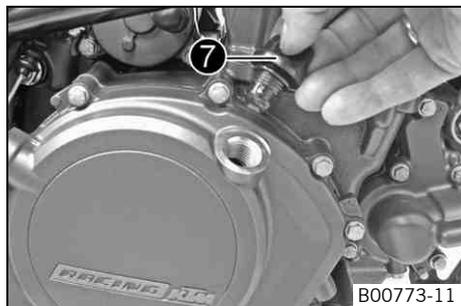
- Insert oil filter ⑤.
- Oil the O-ring of the oil filter cover. Mount oil filter cover ⑥.
- Mount and tighten the screws.

Guideline

Screw, oil filter cover	M5	8 Nm (5.9 lbf ft)	Loctite® 243™
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i Info

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



- Remove the oil filler plug ⑦ with the O-ring from the clutch cover and fill up with engine oil.

Engine oil	1.50 l (1.59 qt.)	External temperature: 0... 50 °C (32... 122 °F)	Engine oil (SAE 15W/50) (☛ p. 159)
		External temperature: -10... 40 °C (14... 104 °F)	Engine oil (SAE 10W/40) (☛ p. 159)

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

! Danger

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

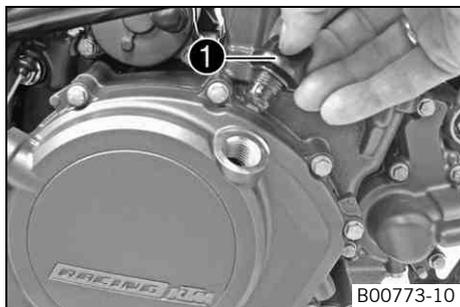
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
-
- Start the engine and check that it is oil-tight.

Follow-up work

- Fit the front spoiler. (🔧 p. 83)
- Check the engine oil level. (🔧 p. 130)

Adding engine oil

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



Main work

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

Engine oil (SAE 15W/50) (🔧 p. 159)

Engine oil (SAE 10W/40) (🔧 p. 159)

- i** **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.



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.

Subsequent work

- Check the engine oil level. (☛ p. 130)

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

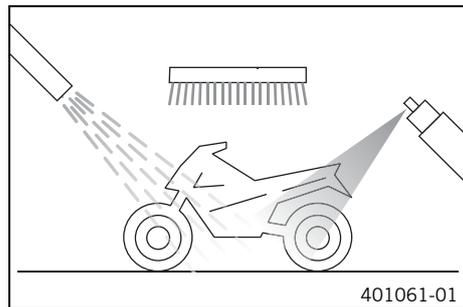
Environmental hazard Hazardous substances cause environmental damage.

- 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 paint-brush.

Motorcycle cleaner (☛ p. 162)



Info

Clean the vehicle with warm water containing normal motorcycle cleaner and a soft sponge.

If the vehicle was operated in road salt, clean it with cold water. Warm water would enhance 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 warms up, and then apply the brakes.



Info

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

- Push back the sleeves 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. 74)
- 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. 161)

- Treat all painted parts with a mild paint polish.

High-luster polish for paint (🔧 p. 161)

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

Paint cleaner and polish for high-gloss and matte finishes, bare metal and plastic surfaces (🔧 p. 162)

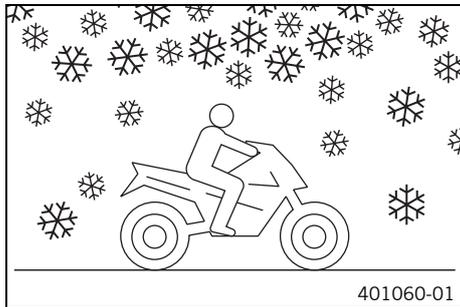
- Oil the ignition/steering lock.

Universal oil spray (🔧 p. 162)

Checks and maintenance steps for winter operation

i Info

If the motorcycle is used in the winter, salt can be expected on the roads. Precautions need to be taken against road salt corrosion. If the vehicle was operated in road salt, clean it with cold water after riding. Warm water would enhance the corrosive effects of salt.



- Clean the motorcycle. (☛ p. 135)
- Clean the brakes.

i Info

After **EVERY** trip on salted roads, thoroughly wash the brake calipers and brake linings with cold water and dry carefully. This should be done after the parts are cooled down and while they are installed.
After riding on salted roads, thoroughly wash the motorcycle with cold water and dry it well.

- Treat the engine, swingarm, and all other bright and zinc-plated parts (except for the brake discs) with a wax-based corrosion inhibitor.

i Info

Corrosion inhibitor is not permitted to come in contact with the brake discs as this would greatly reduce the braking force.

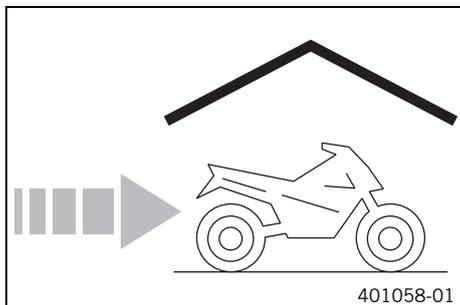
- Clean the chain. (☛ p. 74)

Storage

i Info

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

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. 135)
- Change the engine oil and oil filter, clean the oil screen. 🛠️ (☞ p. 130)
- Check the antifreeze and coolant level. (☞ p. 120)
- Check the tire air pressure. (☞ p. 100)
- Remove the battery. 🛠️ (☞ p. 102)
- Recharge the battery. 🛠️ (☞ p. 104)

Guideline

Storage temperature of battery without direct sunlight	0... 35 °C (32... 95 °F)
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- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

i Info

KTM recommends jacking up the motorcycle.

- Raise the motorcycle with the rear wheel stand. (☞ p. 70)
- Raise the motorcycle with the front wheel stand. (☞ p. 68)

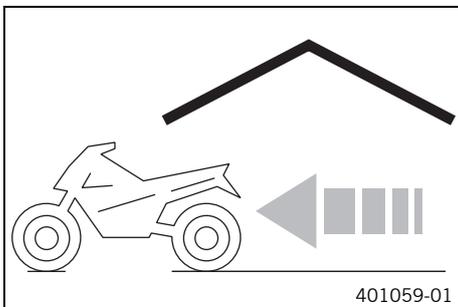
- Cover the motorcycle with a tarp or similar cover that is permeable to air.

i 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. 69)
- Take the motorcycle off of the rear wheel stand. (🔧 p. 70)
- Recharge the battery. 🔌 (🔧 p. 104)
- Install the battery. 🔌 (🔧 p. 103)
- Set the clock. (🔧 p. 42)
- Refuel. (🔧 p. 62)
- Perform checks and maintenance steps when preparing for use. (🔧 p. 54)
- Take a test ride.

Faults	Possible cause	Action
Engine does not crank when the electric starter button is pressed	Operating error	– Go through the steps of starting the engine. (☞ p. 55)
	Battery discharged	– Recharge the battery. 🛠️ (☞ p. 104)
	Fuse 1 , 2 , 3 , or 4 is blown	– Change the fuses of individual power consumers. (☞ p. 107)
	No ground connection present	– Check the ground connection.
Engine turns only if the clutch lever is drawn	The vehicle is in gear	– Shift gear to neutral.
	The vehicle is in gear and the side stand is folded out	– Shift gear to neutral.
Engine turns but does not start	Operating error	– Go through the steps of starting the engine. (☞ p. 55)
	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	– Change the air filter.
	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. 122)
	Radiator fins very dirty	– Clean the radiator fins.
	Foam formation in cooling system	– Drain the coolant. 🛠️ (☞ p. 124) – Fill/bleed the cooling system. 🛠️ (☞ p. 125)
	Thermostat defective	– Check the thermostat. 🛠️
	Fuse 5 blown	– Change the fuses of individual power consumers. (☞ p. 107)

Faults	Possible cause	Action
Engine overheats	Defect in radiator fan system	– Check the radiator fan system. 🛠️
The engine diagnosis warning lamp (MIL) lights up red	Defect in fuel injection system	– Read out the fault memory using the KTM diagnostics tool. 🛠️
Engine dies during the trip	Lack of fuel	– Refuel. (🔧 p. 62)
	Fuse 1 , 2 , 3 , or 4 is blown	– Change the fuses of individual power consumers. (🔧 p. 107)
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. 130)
	Engine oil too thin (low viscosity)	– Change the engine oil and oil filter, clean the oil screen. 🛠️ (🔧 p. 130)
Headlight and parking light not functioning	Fuse 6 blown	– Change the fuses of individual power consumers. (🔧 p. 107)
Turn signal, brake light, and horn are not functional	Fuse 6 blown	– Change the fuses of individual power consumers. (🔧 p. 107)
Time is not (correctly) displayed	Fuse 2 blown	– Change the fuses of individual power consumers. (🔧 p. 107)
		– Set the clock. (🔧 p. 42)
Battery discharged	Ignition not switched off when vehicle was parked	– Recharge the battery. 🛠️ (🔧 p. 104)
	Battery is not being charged by alternator	– Check the charging voltage. 🛠️ – Check the open-circuit current. 🛠️
Combination instrument shows nothing on the display	Fuse 2 blown	– Change the fuses of individual power consumers. (🔧 p. 107)
		– Set the clock. (🔧 p. 42)

Faults	Possible cause	Action
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.

125 Duke

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	125 cm ³ (7.63 cu in)
Stroke	47.2 mm (1.858 in)
Bore	58 mm (2.28 in)
Compression ratio	12.8:1
Control	DOHC, 4 valves controlled via cam lever, chain drive
Valve diameter, intake	22.5 mm (0.886 in)
Valve diameter, exhaust	19 mm (0.75 in)
Valve clearance, intake, cold	0.08... 0.12 mm (0.0031... 0.0047 in)
Valve clearance, exhaust, cold	0.13... 0.17 mm (0.0051... 0.0067 in)
Crankshaft bearing	Two ball bearings
Conrod bearing	Sleeve bearing
Pistons	Cast light alloy
Piston rings	1 L-ring, 1 tapered compression piston ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication with one rotary pump
Primary transmission	22:72
Clutch	Clutch in oil bath/mechanically activated
Transmission	6-gear, claw shifted
Transmission ratio	
1st gear	12:34
2nd gear	15:31
3rd gear	18:28
4th gear	21:26

5th gear	22:23
6th gear	24:22
Mixture preparation	Electronically controlled fuel injection
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V, 238 W
Spark plug	BOSCH VR 5 NE
Spark plug electrode gap	0.8 mm (0.031 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Idle speed	1,350... 1,450 rpm
Starting aid	Electric starter

200 Duke

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	200 cm ³ (12.2 cu in)
Stroke	49 mm (1.93 in)
Bore	72 mm (2.83 in)
Compression ratio	11,5:1
Control	DOHC, 4 valves controlled via cam lever, chain drive
Valve diameter, intake	28.5 mm (1.122 in)
Valve diameter, exhaust	24 mm (0.94 in)
Valve clearance, intake, cold	0.08... 0.12 mm (0.0031... 0.0047 in)
Valve clearance, exhaust, cold	0.13... 0.17 mm (0.0051... 0.0067 in)
Crankshaft bearing	Two ball bearings
Conrod bearing	Sleeve bearing

Pistons	Cast light alloy
Piston rings	1 L-ring, 1 tapered compression piston ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication with one rotary pump
Primary transmission	22:72
Clutch	Clutch in oil bath/mechanically activated
Transmission	6-gear, claw shifted
Transmission ratio	
1st gear	12:34
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Mixture preparation	Electronically controlled fuel injection
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V, 238 W
Spark plug	BOSCH VR 5 NE
Spark plug electrode gap	0.8 mm (0.031 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Idle speed	1,350... 1,450 rpm
Starting aid	Electric starter

Capacity - engine oil

Engine oil	1.50 l (1.59 qt.)	External temperature: 0... 50 °C (32... 122 °F)	Engine oil (SAE 15W/50) (☛ p. 159)
		External temperature: -10... 40 °C (14... 104 °F)	Engine oil (SAE 10W/40) (☛ p. 159)

Capacity - coolant

Coolant	0.85 l (0.9 qt.)	Coolant (☛ p. 158)
		Coolant (mixed ready to use) (☛ p. 158)

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Oil jet	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, engine vent plate	M5	7 Nm (5.2 lbf ft)	Loctite® 243™
Screw, oil filter cover	M5	8 Nm (5.9 lbf ft)	Loctite® 243™
Screw, retaining bracket	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, retaining bracket, stator cable	M5	8 Nm (5.9 lbf ft)	Loctite® 243™
Screw, stator	M5	8 Nm (5.9 lbf ft)	Loctite® 243™
Cylinder head screw	M6	12 Nm (8.9 lbf ft)	–
Nut, water pump impeller	M6	8 Nm (5.9 lbf ft)	–
Plug, water pump drain hole	M6	8 Nm (5.9 lbf ft)	–
Screw, alternator cover	M6	12 Nm (8.9 lbf ft)	–
Screw, bearing retainer	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, camshaft bearing bridge	M6	11 Nm (8.1 lbf ft)	–
Screw, chain securing guide	M6	11 Nm (8.1 lbf ft)	Loctite® 243™
Screw, clutch cover	M6	12 Nm (8.9 lbf ft)	–
Screw, engine case	M6x40	12 Nm (8.9 lbf ft)	–
Screw, engine case	M6x60	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, freewheel gear retaining bracket	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, locking lever	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, oil pump	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, retaining bracket, shaft seal ring, clutch cover	M6	11 Nm (8.1 lbf ft)	Loctite® 243™
Screw, shift drum locating	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, starter motor	M6	12 Nm (8.9 lbf ft)	–
Screw, timing chain tensioner	M6	12 Nm (8.9 lbf ft)	–

TECHNICAL DATA - ENGINE TIGHTENING TORQUES

Screw, timing chain tensioning rail	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, valve cover	M6	12 Nm (8.9 lbf ft)	–
Screw, water pump cover	M6	12 Nm (8.9 lbf ft)	–
Nut, connecting rod screw	M7	24 Nm (17.7 lbf ft)	–
Nut, exhaust flange	M8	22 Nm (16.2 lbf ft)	–
Screw, balancer shaft gear	M8	20 Nm (14.8 lbf ft)	Loctite® 243™
Screw, camshaft drive sprocket	M8	20 Nm (14.8 lbf ft)	Loctite® 243™
Screw, return spring, quick shifter	M8	12 Nm (8.9 lbf ft)	Loctite® 243™
Stud, exhaust flange	M8	22 Nm (16.2 lbf ft)	–
Cylinder head screw	M10	Step 1 20 Nm (14.8 lbf ft) Step 2 40 Nm (29.5 lbf ft)	Thread is oiled, head flat is greased
Oil pressure sensor	M10	14 Nm (10.3 lbf ft)	–
Rotor screw	M10	46 Nm (33.9 lbf ft)	Loctite® 243™
Water temperature sensor	M10	14 Nm (10.3 lbf ft)	–
Spark plug	M12	15 Nm (11.1 lbf ft)	–
Nut, inner clutch hub	M14LH	60 Nm (44.3 lbf ft)	Loctite® 243™
Nut, primary gear	M14	55 Nm (40.6 lbf ft)	–
Nut, timing chain sprocket	M14	55 Nm (40.6 lbf ft)	Loctite® 243™
Oil drain plug	M24	20 Nm (14.8 lbf ft)	–

Frame	Lattice frame of steel tubes, powder-coated
Fork	WP Suspension
Shock absorber	WP Suspension
Brake system	
Front	Disc brake with four-pot brake caliper
Rear	Disc brake with single-piston brake caliper, floating
Suspension travel	
Front	150 mm (5.91 in)
Rear	150 mm (5.91 in)
Brake discs - diameter	
Front	280 mm (11.02 in)
Rear	230 mm (9.06 in)
Brake discs - wear limit	
Front	3.6 mm (0.142 in)
Rear	3.6 mm (0.142 in)
Tire air pressure, solo	
Front	2.0 bar (29 psi)
Rear	2.0 bar (29 psi)
Tire air pressure with passenger/full payload	
Front	2.0 bar (29 psi)
Rear	2.2 bar (32 psi)
Secondary ratio	14:45
Chain	5/8 x 1/4" (520) O-ring
Steering head angle	65°
Wheelbase	1,361±15 mm (53.58±0.59 in)

Seat height, unloaded	810 mm (31.89 in)
Ground clearance, unloaded	170 mm (6.69 in)
Weight without fuel, approx.	125 kg (276 lb.)

Battery	FTZ-7	Battery voltage: 12 V Nominal capacity: 6 Ah Maintenance-free
Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	75011088030	30 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	LED	
Brake/tail light	LED	
License plate lamp	LED	

Tires

Front tire	Rear tire
110/70 R 17 M/C 54S TL MRF revz FC	150/60 R 17 M/C 66S TL MRF revz C
Additional information is available in the Service section under: http://www.ktm.com	

Capacity - fuel

Total fuel tank capacity, approx.	10.5 l (2.77 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (☛ p. 160)
Fuel reserve, approx.	1.5 l (1.6 qt.)	

TECHNICAL DATA - FORK

Fork part number	90101000044	
Fork	WP Suspension	
Fork length	736 mm (28.98 in)	
Fork oil	450 ml (15.21 fl. oz.)	Fork oil (SAE 5) (☛ p. 160)

TECHNICAL DATA - SHOCK ABSORBER

Shock absorber part number	90604010000
Shock absorber	WP Suspension
Spring preload	
Standard	3 clicks
Full payload	6 clicks
Static sag	25 mm (0.98 in)
Riding sag	45... 50 mm (1.77... 1.97 in)
Fitted length	300 mm (11.81 in)

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, headlight	EJOT	4 Nm (3 lbf ft)	–
Remaining screws, chassis	M4	4 Nm (3 lbf ft)	–
Screw, EFI control unit	M4	4 Nm (3 lbf ft)	–
Screw, trim, subframe, bottom	M4	2 Nm (1.5 lbf ft)	–
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)	–
Screw, brake fluid reservoir of rear brake	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, chain guard	M5	4 Nm (3 lbf ft)	–
Screw, fuel pump	M5	5 Nm (3.7 lbf ft)	–
Screw, fuel tank closure flange	M5	3 Nm (2.2 lbf ft)	–
Screw, fuel tank cover	M5	4 Nm (3 lbf ft)	–
Screw, fuel tank trim	M5	5 Nm (3.7 lbf ft)	–
Screw, license plate holder	M5	11 Nm (8.1 lbf ft)	–
Screw, rollover sensor	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, side stand switch	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, spoiler	M5	5 Nm (3.7 lbf ft)	–
Screw, subframe cover, bottom	M5	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, windshield	M5	3 Nm (2.2 lbf ft)	–
Nut, foot brake lever adjustment	M6	9 Nm (6.6 lbf ft)	–
Nut, radiator	M6	5 Nm (3.7 lbf ft)	–
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)	–
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	–
Screw, air filter box	M6	6 Nm (4.4 lbf ft)	–
Screw, bottom of rear part	M6	11 Nm (8.1 lbf ft)	–
Screw, brake fluid reservoir of rear brake	M6	9 Nm (6.6 lbf ft)	–

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, cable holder, side stand switch	M6	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, chain sliding guard	M6	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, compensating tank	M6	11 Nm (8.1 lbf ft)	–
Screw, foot brake cylinder	M6	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, front fender	M6	11 Nm (8.1 lbf ft)	–
Screw, front seat fixing	M6	5 Nm (3.7 lbf ft)	–
Screw, fuel tank	M6	11 Nm (8.1 lbf ft)	–
Screw, headlight holder	M6	11 Nm (8.1 lbf ft)	–
Screw, headlight mask	M6	11 Nm (8.1 lbf ft)	–
Screw, ignition coil	M6	9 Nm (6.6 lbf ft)	–
Screw, license plate holder	M6	14 Nm (10.3 lbf ft)	–
Screw, magnetic holder on side stand	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, radiator bracket	M6	6 Nm (4.4 lbf ft)	–
Screw, radiator holder	M6	9 Nm (6.6 lbf ft)	–
Screw, rear splash protector	M6	9 Nm (6.6 lbf ft)	–
Screw, rollover sensor holder	M6	11 Nm (8.1 lbf ft)	–
Screw, seat	M6	11 Nm (8.1 lbf ft)	–
Screw, shift activation	M6	11 Nm (8.1 lbf ft)	Loctite® 243™
Screw, voltage regulator	M6	10 Nm (7.4 lbf ft)	–
Screw, voltage regulator holder	M6	15 Nm (11.1 lbf ft)	–
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	15 Nm (11.1 lbf ft)	–
Screw, engine bearer on frame	M8	26 Nm (19.2 lbf ft)	–

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, foot brake lever	M8	15 Nm (11.1 lbf ft)	Loctite® 243™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	–
Screw, front brake disc	M8	29 Nm (21.4 lbf ft)	Loctite® 243™
Screw, front wheel spindle	M8	25 Nm (18.4 lbf ft)	–
Screw, handlebar clamp	M8	21 Nm (15.5 lbf ft)	–
Screw, handrail	M8	31 Nm (22.9 lbf ft)	–
Screw, horn	M8	21 Nm (15.5 lbf ft)	–
Screw, rear brake disc	M8	29 Nm (21.4 lbf ft)	Loctite® 243™
Screw, rear footrest bracket	M8	26 Nm (19.2 lbf ft)	Loctite® 243™
Screw, shift lever	M8	15 Nm (11.1 lbf ft)	Loctite® 243™
Screw, top triple clamp	M8	11 Nm (8.1 lbf ft)	–
Screw, front brake caliper	M8x1	30 Nm (22.1 lbf ft)	Loctite® 243™
Nut, mirror	M10	16 Nm (11.8 lbf ft)	–
Nut, turn signal	M10	6 Nm (4.4 lbf ft)	–
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Screw cap, side stand	M10	34 Nm (25.1 lbf ft)	–
Screw connection, engine mounting bracket	M10	46 Nm (33.9 lbf ft)	–
Nut, rear sprocket screw	M10x1.25	32 Nm (23.6 lbf ft)	–
Screw connection, handlebar support	M10x1.25	21 Nm (15.5 lbf ft)	–
Screw, front footrest bracket	M10x1.25	46 Nm (33.9 lbf ft)	–
Screw, side stand bracket	M10x1.25	25 Nm (18.4 lbf ft)	Loctite® 243™
Screw, top shock absorber	M10x1.25	50 Nm (36.9 lbf ft)	–

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Nut, rear wheel spindle	M14x1.5	60 Nm (44.3 lbf ft)	–
Nut, swingarm pivot	M14x1.5	98 Nm (72.3 lbf ft)	–
Screw, top steering head	M16x1.5	52 Nm (38.4 lbf ft)	–
Swingarm bearing adjusting ring	M22x1	Tighten and ensure that there is no play	–
Nut, steering head	M30x1	Step 1 50 Nm (36.9 lbf ft) 2nd stage (loosen, counter-clockwise) 2 turns Step 3 5 Nm (3.7 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: -25... -45 °C (-13... -49 °F)	50 % corrosion inhibitor/antifreeze 50 % distilled water
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Coolant (mixed ready to use)

Antifreeze	-40 °C (-40 °F)
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Supplier

Motorex®

- **COOLANT G48**

Engine oil (SAE 15W/50)

According to

- JASO T903 MA (☛ p. 163)
- SAE (☛ p. 163) (SAE 15W/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.

Partially synthetic engine oil

Supplier

Motorex®

- **Formula 4T**

Engine oil (SAE 10W/40)

According to

- JASO T903 MA (☛ p. 163)
- SAE (☛ p. 163) (SAE 10W/40)

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.

Partially synthetic engine oil

Supplier

Motorex®

- **Formula 4T**

Fork oil (SAE 5)

According to

- SAE (☛ p. 163) (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**

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

According to

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

Guideline

- Only use unleaded super fuel that matches or is equivalent to the specified fuel grade.
- Fuel with an ethanol content of up to 10 % (E10 fuel) is safe to use.



Info

Do **not** use fuel containing methanol (e. g. M15, M85, M100) or more than 10 % ethanol (e. g. E15, E25, E85, E100).

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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