

RC 200

Art. no. 3213555en



KTM

DEAR KTM CUSTOMER

1

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 properly.

We hope you enjoy your new vehicle!

Enter the serial numbers of your vehicle below.

Chassis number (📖 p. 20)	Dealer's stamp
Engine number (📖 p. 21)	
Key number (📖 p. 21)	

The Owner's Manual contained the latest information for this model series at the time of going to print. However, minor differences due to further developments in design cannot be ruled out completely.

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

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01/2017

DEAR KTM CUSTOMER

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KTM Sportmotorcycle GmbH
5230 Mattighofen, Austria

This document is valid for the following models:

RC 200 EU (F5103Q1)

RC 200 AR (F5142Q1)

RC 200 MY (F5189Q1)

RC 200 PH (F5182Q1)

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1.1 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 optimally cared for by specially trained experts using the specialist tools required.



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



Indicates information with more details or tips.



Indicates the result of a testing step.

1.2 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.
<u>Underlined terms</u>	Refer to technical details of the vehicle or indicate technical terms that are explained in the glossary.

2.1 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.

2.2 Misuse

The vehicle must only be used as intended.

Dangers can arise for people, property and the environment through use not as intended.

Any use of the vehicle beyond the intended and defined use constitutes misuse.

Misuse also includes the use of operating and auxiliary fluids which do not meet the required specification for the respective use.

2.3 Safety advice

A number of safety instructions need to be followed to operate the vehicle safely. Therefore, read this manual carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



Info

The vehicle has various information and warning labels at prominent locations. Do not remove information/warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 Degrees of risk and symbols



Danger

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



Warning

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



Caution

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

Note

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



Warning

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

2.5 Tampering warning

Tampering with the noise control system is prohibited. Federal law prohibits the following acts or the causing thereof:

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

Among those acts presumed to constitute tampering are the acts listed below:

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

2.6 Safe operation



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Only operate the vehicle when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

An appropriate driver's license is needed to ride the vehicle on public roads.

Have malfunctions that impair safety promptly eliminated by an authorized KTM workshop.

Adhere to the information and warning labels on the vehicle.

2.7 Protective clothing



Warning

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

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.

In the interest of your own safety, KTM recommends that you only operate the vehicle while wearing protective clothing.

2.8 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. E.g.: bearing puller (15112017000)

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.

In some instances, a thread locker (e.g. **Loctite®**) is required. The manufacturer instructions for use must be followed.

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

After you complete the repair or service work, check the operating safety of the vehicle.

2.9 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.

When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

Because motorcycles are not subject to the EU regulations governing the disposal of used vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. Your authorized KTM dealer will be glad to advise you.

2.10 Owner's Manual

It is important that you read this Owner's Manual carefully and completely before making your first trip. The Owner's Manual contains useful information and many tips on how to operate, handle, and maintain your motorcycle. Only then will you find out how to customize the vehicle ideally for your own use and how you can protect yourself from injury.

Keep the Owner's Manual in an accessible place to enable you to refer to it as needed.

If you would like to know more about the vehicle or have questions on the material you read, please contact an authorized KTM dealer.

The Owner's Manual is an important component of the vehicle and must be handed over to the new owner if the vehicle is sold.

3.1 Manufacturer and implied warranty

The work specified in the service schedule may only be performed in an authorized KTM workshop and must be recorded in both the Service & Warranty Booklet and in **KTM Dealer.net**, otherwise any warranty coverage will become void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the warranty.

Additional information on the manufacturer or implied warranty and the procedures involved can be found in the Service & Warranty Booklet.

3.2 Operating and auxiliary substances



Warning

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

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Use operating and auxiliary substances (such as fuel and lubricants) as specified in the Owner's Manual.

3.3 Spare parts, accessories

For your own safety, only use spare parts and accessory products that are 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 or loss.

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

The current **KTM PowerParts** for your vehicle can be found on the KTM website.

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

3.4 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. Incorrect adjustment and tuning of the engine and chassis can lead to damage and breakage of components.

Use of the vehicle under difficult conditions, such in rain, high heat or with a heavy load, can lead to considerably more rapid wear of components such as the drive train, brake system, or suspension components. For this reason, it may be necessary to inspect or replace parts before the next scheduled service.

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

3.5 Figures

The figures contained in the manual may depict special equipment.

In the interest of clarity, some components may be shown disassembled or may not be shown at all. It is not always necessary to disassemble the component to perform the activity in question. Please follow the instructions in the text.

3.6 Customer service

Your authorized KTM dealer will be happy to answer any questions you may have on your vehicle and KTM.

A list of authorized KTM dealers can be found on the KTM website.

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

4 VIEW OF VEHICLE

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4.1 View of vehicle, front left (example)



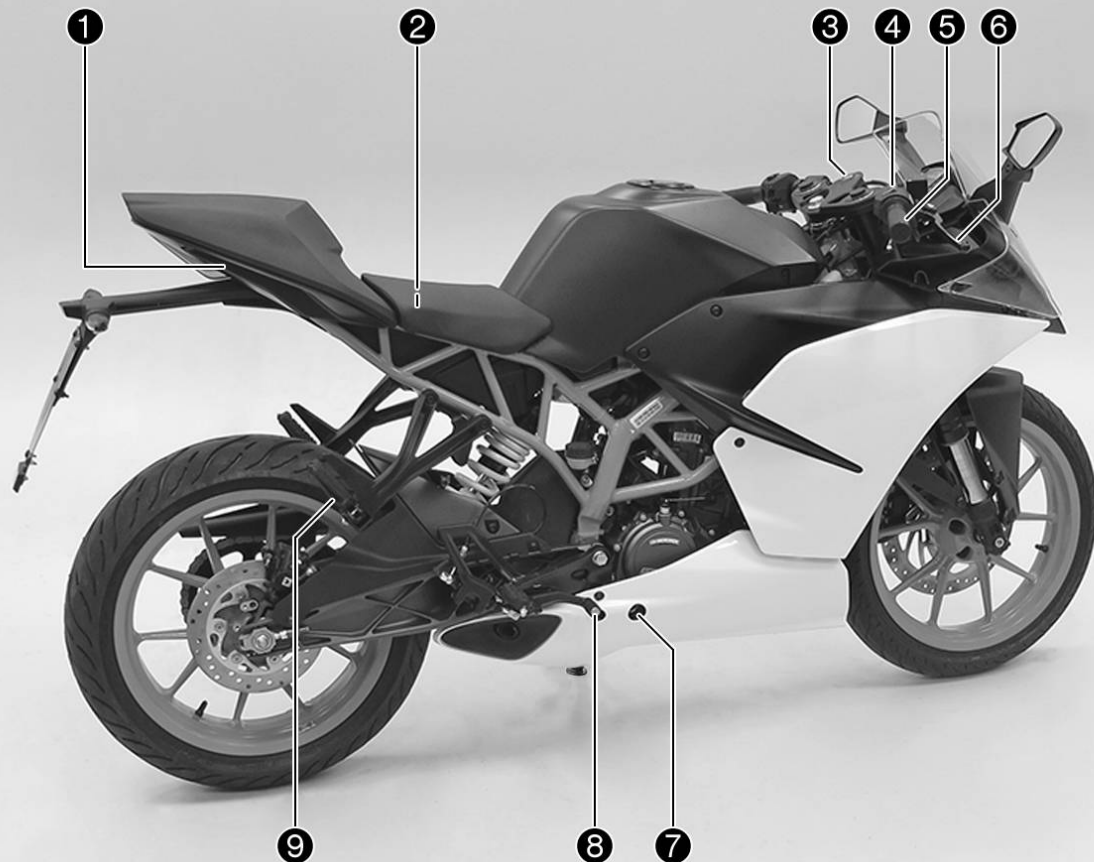
S01643-10

1	Horn button (📖 p. 23)
1	Light switch (📖 p. 24)
1	High beam flasher button (📖 p. 24)
1	Turn signal switch (📖 p. 25)
2	Clutch lever (📖 p. 22)
3	Filler cap
4	Seat lock (📖 p. 30)
5	Shift lever (📖 p. 32)
6	Side stand (📖 p. 33)

4 VIEW OF VEHICLE

18

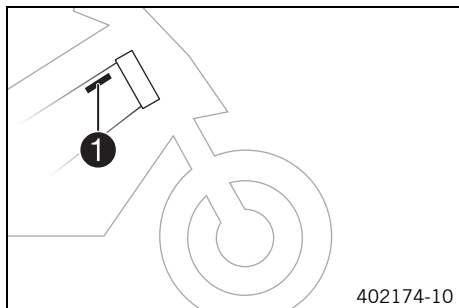
4.2 View of vehicle, rear right (example)



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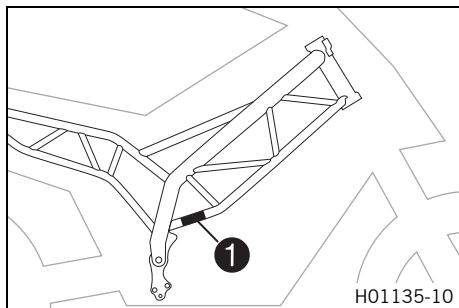
1	Grab handles (📖 p. 31)
2	Tool set (📖 p. 30)
3	Ignition/steering lock (📖 p. 26)
4	Emergency OFF switch (📖 p. 25)
4	Electric starter button (📖 p. 26)
5	Throttle grip (📖 p. 23)
6	Hand brake lever (📖 p. 22)
7	Level viewer, engine oil
8	Foot brake lever (📖 p. 33)
9	Passenger footrests (📖 p. 31)

5.1 Chassis number



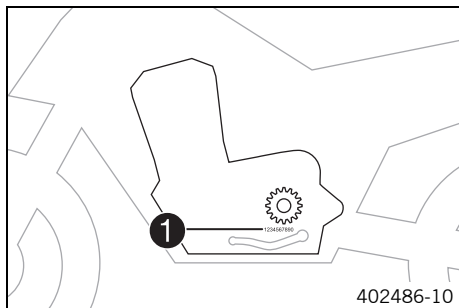
The vehicle chassis number ❶ is stamped on the frame behind the steering head on the right.

5.2 Type label



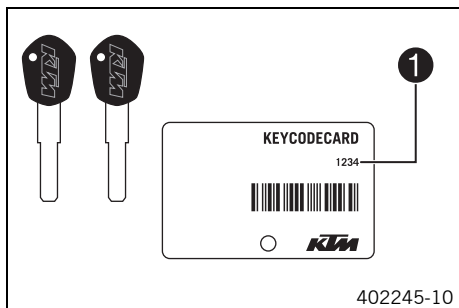
The type label ❶ is located on the right side of the frame.

5.3 Engine number



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

5.4 Key number



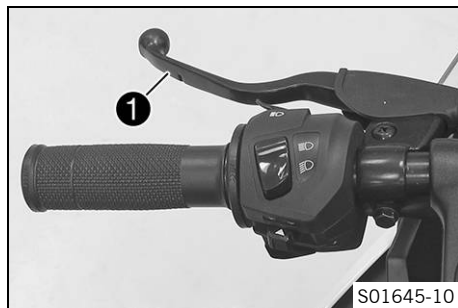
The key number ❶ can be found on the **KEYCODECARD**.



Info

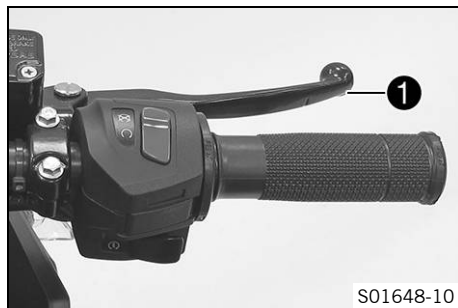
You need the key number to order a spare key. Keep the **KEYCODECARD** in a safe place.

6.1 Clutch lever



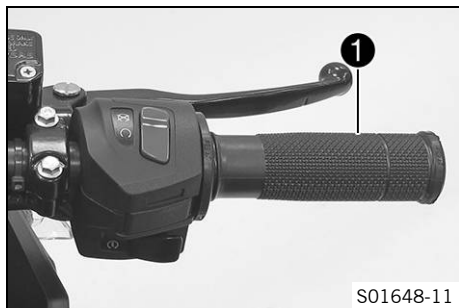
The clutch lever ❶ is fitted on the left side of the handlebar.

6.2 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.

6.3 Throttle grip



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

6.4 Horn button

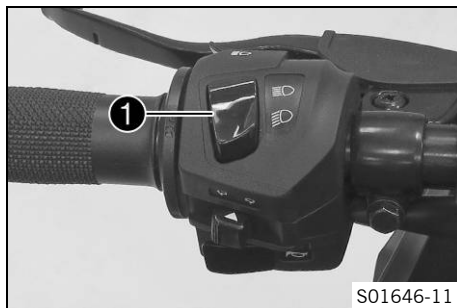


The horn button ❶ is fitted on the left side of the handlebar.

Possible states

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

6.5 Light switch

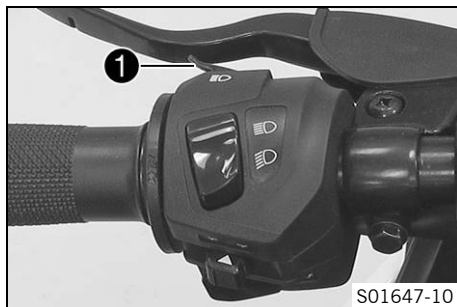


The light switch ❶ is fitted on the left side of the handlebar.

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 – The light switch is turned upwards. In this position, the low beam, the high beam and the tail light are switched on.

6.6 High beam flasher button

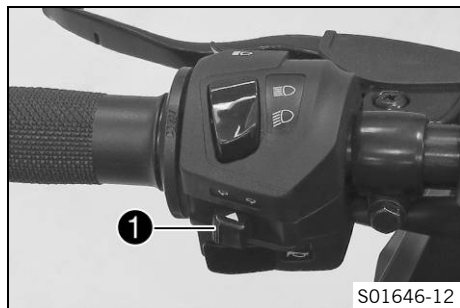


The high beam flasher button ❶ is fitted on the left side of the handlebar.

Possible states

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

6.7 Turn signal switch



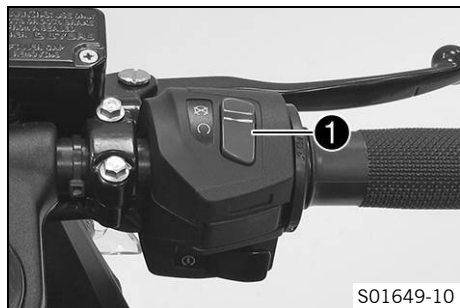
The turn signal switch ❶ is fitted on the left side of the handlebar.

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.

6.8 Emergency OFF switch

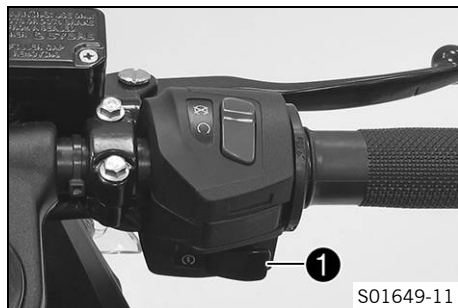


The emergency OFF switch ❶ is fitted on the right side of the handlebar.

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.

6.9 Electric starter button



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.

6.10 Ignition/steering lock



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

Possible states

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

6.11 Locking the steering

Note

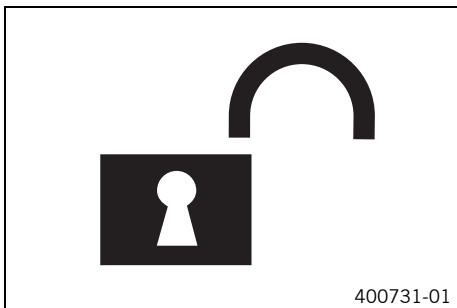
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.



- Park the vehicle.
- Turn the handlebar all the way to the left.
- Insert the key into the ignition/handlebar lock, press in, and turn to the left. Remove the key.
- ✓ Steering is no longer possible.

6.12 Unlocking the steering



- Insert the key into the ignition/handlebar lock, press in, and turn to the right. Remove the key.
- ✓ You can now steer the bike again.

6.13 Opening the filler cap



Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

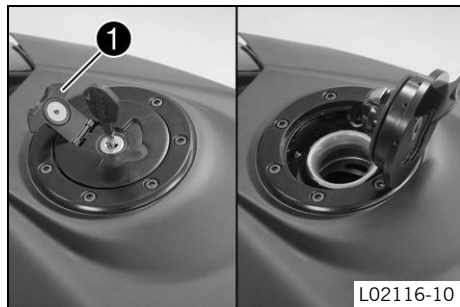
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.
- Keep fuels correctly in a suitable canister, and out of the reach of children.



Warning

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

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



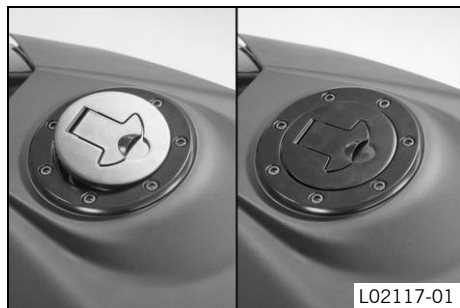
- Lift the cover ❶ of the filler cap and insert the ignition key in the lock.

Note

Danger of damage The ignition key may break if overloaded.
Damaged ignition keys must be replaced.

- Push down on the filler cap to take pressure off the ignition key.
-
- Turn the ignition key 90° clockwise.
 - Open the filler cap.
 - Remove the ignition key.

6.14 Closing the filler cap



Warning

Fire hazard Fuel is highly flammable, toxic and a health hazard.

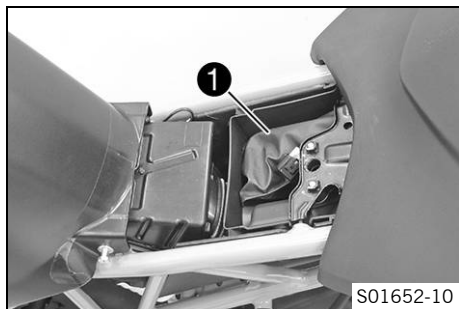
- Check the filler cap is locked correctly after closing.
 - Change your clothing in case of fuel spills on them.
 - Rinse the affected area immediately with plenty of water in the event of contact with the skin.
-
- Close the filler cap.
 - Push down the filler cap until the lock engages.

6.15 Seat lock



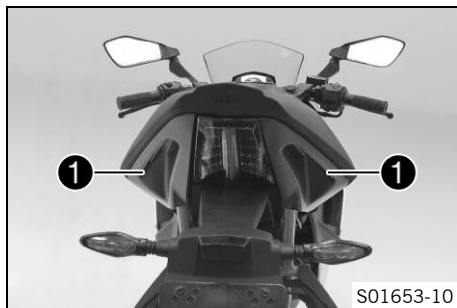
The seat lock ❶ is located to the left of the seat.
The seat lock can be unlocked using the ignition key.

6.16 Tool set



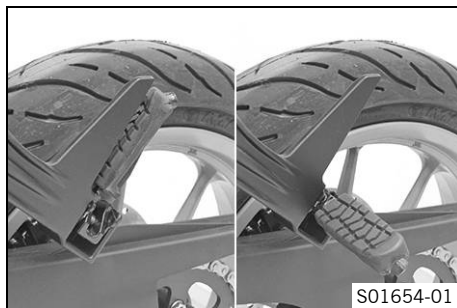
The tool set ❶ is in the storage compartment under the seat.

6.17 Grab handles



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.

6.18 Passenger footrests

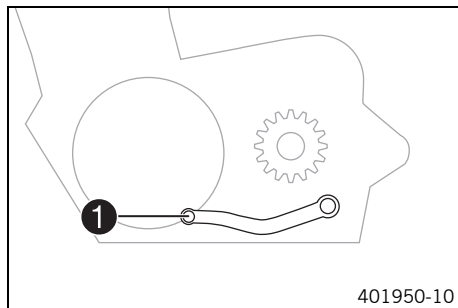


The passenger footrests can be folded in and out.

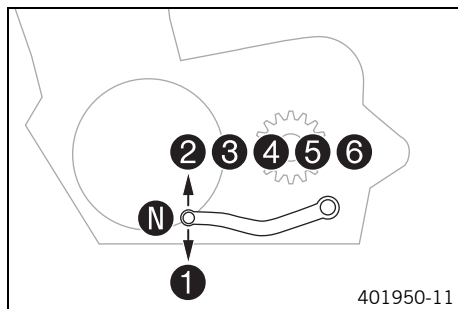
Possible states

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

6.19 Shift lever

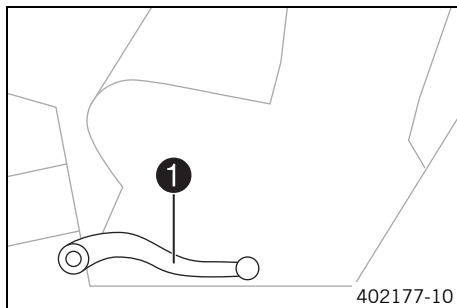


Shift lever ❶ is mounted on the left side of the engine.



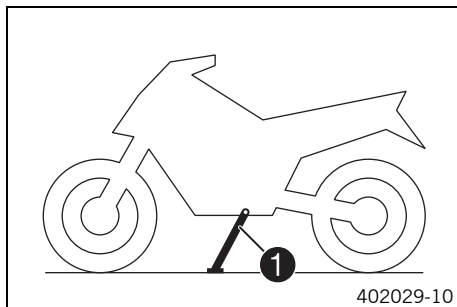
The gear positions can be seen in the photograph.
The neutral or idle position is between the first and second gears.

6.20 Foot brake lever



Foot brake lever **1** is located in front of the right footrest. The foot brake lever is used to activate the rear brake.

6.21 Side stand



The side stand **1** is on the left side of the vehicle. The side stand is used to park the motorcycle.



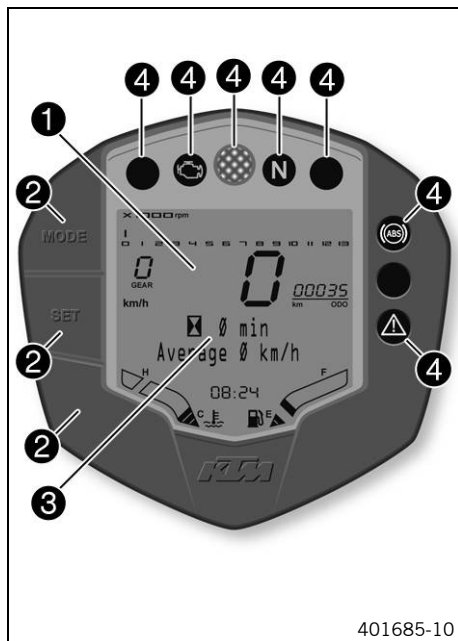
Info

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.

7.1 Overview



- | | |
|---|----------------------------|
| 1 | Display (📖 p. 41) |
| 2 | Function buttons (📖 p. 39) |
| 3 | Info display (📖 p. 45) |
| 4 | Indicator lamps (📖 p. 40) |

7.2 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.

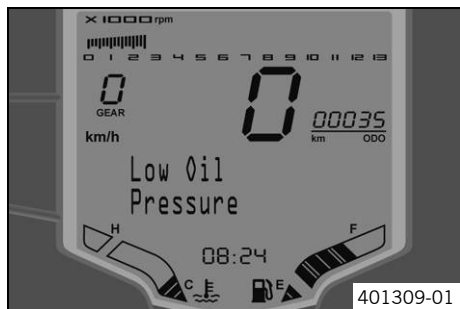
The speed display counts from 0 to 199 and back.

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

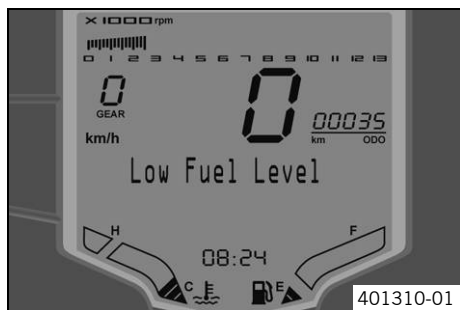
The **READY TO RACE >>** logo appears on the info display.

The display then changes to the last selected mode.

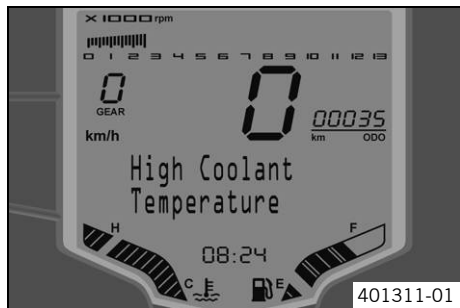
7.3 Warning notes



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

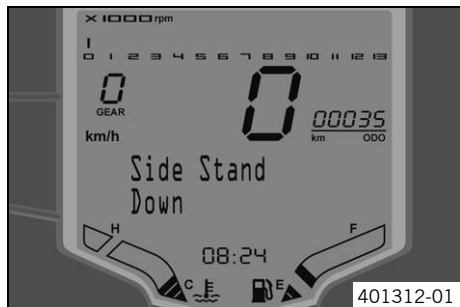


Low Fuel Level appears on the info display if the fuel level reaches the reserve mark.



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

Coolant temperature	110 °C (230 °F)
---------------------	-----------------

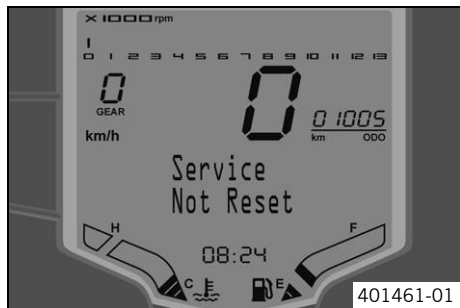


Side Stand Down appears on the info display if the side stand is folded down.



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

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



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.

7.4 Function buttons



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

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

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

Button ③ has no function.

401685-12

7.5 Indicator lamps

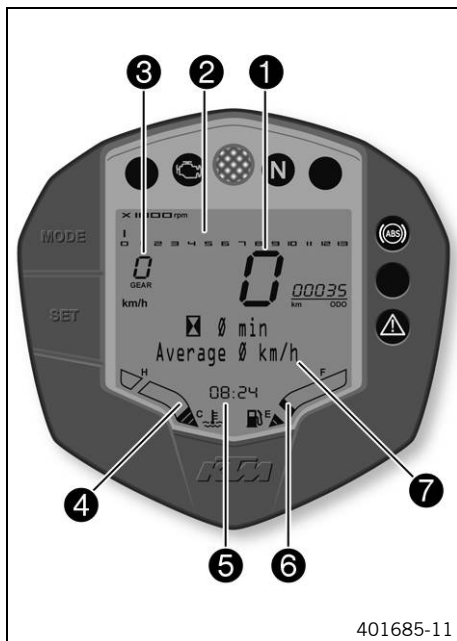


401686-01

Possible states

	The turn signal indicator lamp flashes green simultaneously with the turn signal – The turn signal is switched on.
	Malfunction indicator lamp lights up yellow – The OBD (on-board diagnosis) has detected an emission- or safety-critical error.
	The shift warning lights up/flashes red – The set shift speed has been reached.
	The idle indicator lamp lights up green – The transmission is in idle.
	The high beam indicator lamp lights up blue – The high beam is switched on.
	The immobilizer indicator lamp lights up or flashes red – Status or error message for immobilizer/alarm system (optional).
	The general warning lamp lights up yellow – An operating safety (warning) message was detected. This is also shown in the info display.

7.6 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

The time must be reset after the battery was disconnected or the fuse was removed.

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

7.7 Filling level display of the fuel tank



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

7.8 TRIP F display



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 info display shows the warning note **Low Fuel Level**.

7.9 Coolant temperature indicator



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.

7.10 Info display

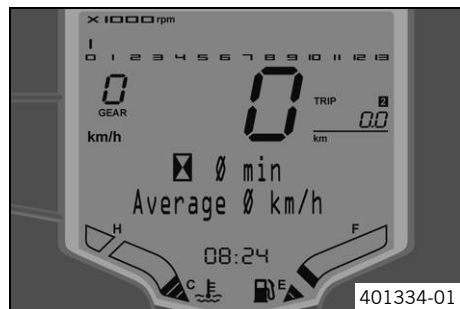


Various warning notes appear on info display ①.

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

401291-10

7.11 Riding time/average speed 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 riding time and average speed are displayed in this menu.



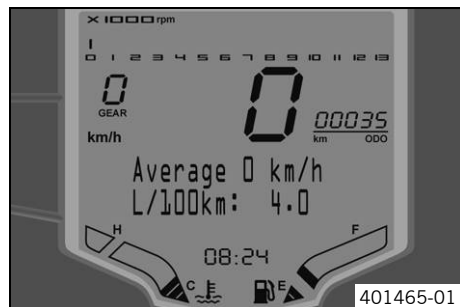
Info

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

7.12 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

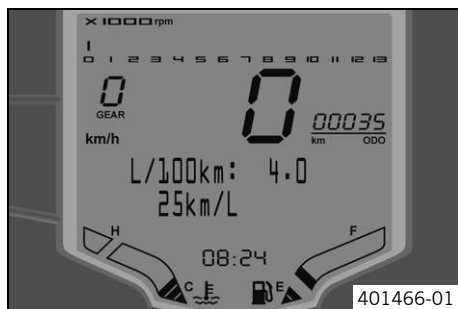
The average fuel consumption 1 is displayed after several 100 meters of travel after the ignition is switched on.

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

7.13 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.



Info

The average fuel consumptions 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
--------------------------------------	---------------------------------------

7.14 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.



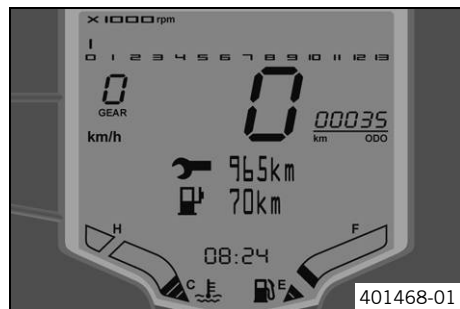
Info

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

7.15 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.

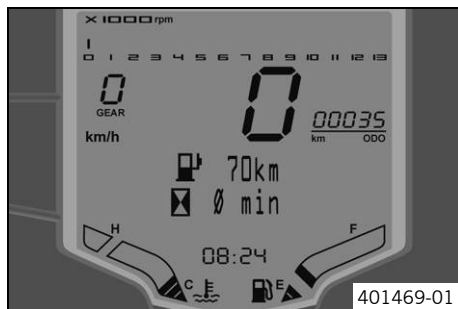
The range is displayed after several 100 meters of travel after the ignition is switched on.

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

7.16 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

7.17 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.



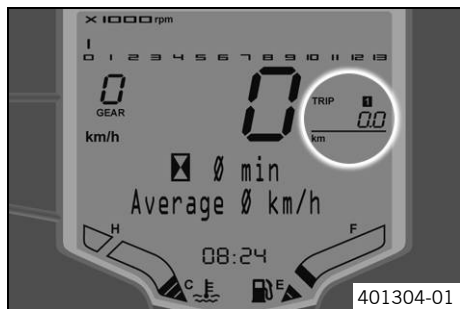
Info

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

Press the **MODE** button.

Next display mode on the display

7.18 Distance menu 1 TRIP 1



Condition

Alternative 1

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

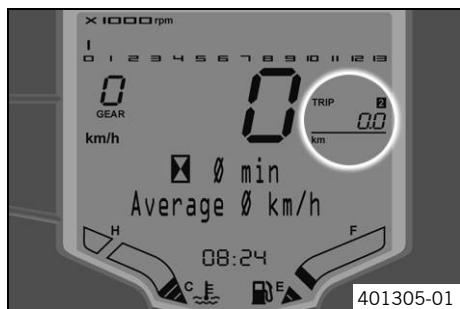
Alternative 2

- 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 since the last reset, such as between two refueling stops. **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

7.19 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 since the last reset, such as between two refueling stops. **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

7.20 Setting kilometers or miles



Info

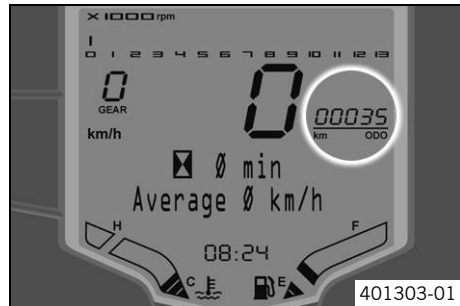
Make the country-specific setting.

Condition

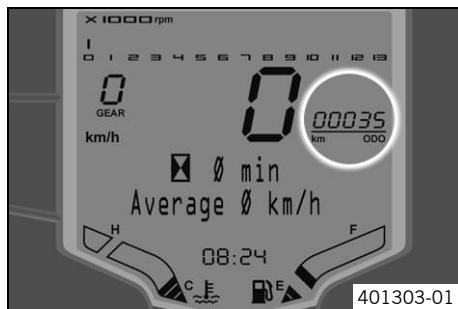
The ignition is on.

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**.



7.21 Setting the time



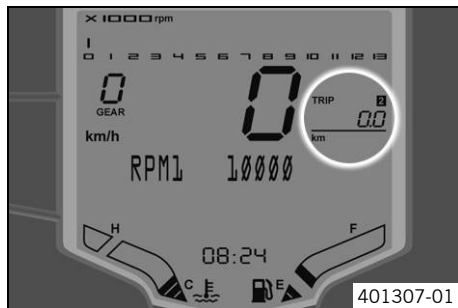
Condition

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.

7.22 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 flashing.

- 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.

7.23 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**.

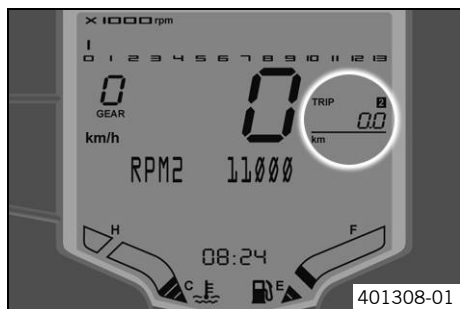
- Set the speed with the **MODE** and **SET** buttons.



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.



8.1 Advice on first use



Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.



Warning

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

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic. Different tire tread patterns can make the vehicle significantly more difficult to control.

- Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.



Warning

Danger of accidents Non-approved or non-recommended tires and wheels impact the handling characteristic.

- Only use tires/wheels approved by KTM with the corresponding speed index.



Warning

Danger of accidents New tires have reduced road grip. The contact surface on new tires is not yet roughened.

- Run in new tires with moderate riding at alternating angles.
Running-in phase

200 km (124 mi)



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 and Warranty Booklet 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. 57)

8.2 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 (620 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. 54)
- Adjust the shift speed **RPM 2.** (📖 p. 55)
- Avoid fully opening the throttle!

8.3 Loading the vehicle



Warning

Danger of accidents Total weight and axle loads influence the handling characteristic.

The overall weight consists of: motorcycle ready for operation and with a full tank, driver and passenger with protective clothing and helmet, and luggage.

- Do not exceed the maximum permissible overall weight or the axle loads.



Warning

Danger of accidents Improper mounting of cases or the tank rucksack impairs the handling characteristic.

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



Warning

Danger of accidents The luggage system will be damaged if it is overloaded.

- Read the manufacturer information on maximum payload when mounting cases.



Warning

Danger of accidents Luggage which has slipped impairs visibility.

If the tail light is covered, you are less visible to traffic behind you, especially when it is dark.

- Check that your luggage is fixed properly at regular intervals.



Warning

Danger of accidents A high payload alters the handling characteristic and increases the stopping distance.

- Adapt your speed to your payload.



Warning

Danger of accidents Pieces of luggage which have slipped impair the handling characteristic.

- Check that your luggage is fixed properly at regular intervals.

8 PREPARING FOR USE

59

- 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	335 kg (739 lb.)
Maximum permissible front axle load	125 kg (276 lb.)
Maximum permissible rear axle load	210 kg (463 lb.)

9.1 Checks and maintenance when preparing for use



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. 156)
- Check the brake fluid level of the front brake. (📖 p. 104)
- Check the rear brake fluid level. (📖 p. 107)
- Check the front brake linings. (📖 p. 106)
- Check the brake linings of the rear brake. (📖 p. 111)
- Check the brake system function.
- Check the coolant level in the compensating tank. (📖 p. 143)
- Check for chain dirt accumulation. (📖 p. 85)
- Check the chain tension. (📖 p. 86)
- Check the tire condition. (📖 p. 122)
- Check the tire air pressure. (📖 p. 124)
- 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.

9.2 Starting



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.



Caution

Danger of accidents Electronic components and safety devices will be damaged if the battery is discharged or missing.

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

Note

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

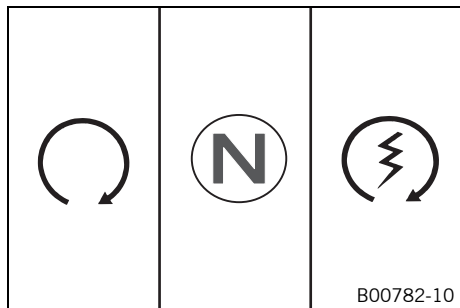
Dust and dirt will enter the engine without an air filter.

- Never start to use the vehicle without an air filter.

Note

Engine damage High revving speed with a cold engine negatively impacts the lifespan of the engine.

- Always run the engine warm at a low speed.



- Unlock the steering. (📖 p. 27)
- 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 check of the combination instrument is run at the same time.
- Shift gear to neutral.
 - ✓ The green idle indicator lamp **N** lights up.
- Press the electric starter button (🔌).

i Info

Do not press the electric starter button until the combination instrument function check 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 starting system. You can only start the engine if the transmission is in neutral or if the clutch lever 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.

9.3 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.

9.4 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.
- Adapt your speed to the road conditions.

 **Warning**
Danger of accidents If you change down at high engine speed, the rear wheel blocks and the engine races.

- Do not change into a low gear at high engine speed.

 **Warning**
Danger of accidents An incorrect ignition key position causes malfunctions.

- Do not change the ignition key position while driving.

 **Warning**
Danger of accidents Adjustments to the vehicle distract attention from traffic activity.

- Make all adjustments when the vehicle is at a standstill.

 **Warning**
Risk of injury The passenger may fall from the motorcycle if they conduct themselves incorrectly.

- Ensure that the passenger sits correctly on the passenger seat, places his or her feet on the passenger foot rest and holds on to the rider or the grab handles.
- Note the regulations governing the minimum age of passengers in your country.

**Warning**

Danger of accidents A risky riding style constitutes a major risk.

- Comply with traffic regulations and ride defensively and with foresight to detect sources of danger as early as possible.

**Warning**

Danger of accidents Cold tires have reduced road grip.

- Ride the first miles carefully on every journey at moderate speed until the tires reach operating temperature.

**Warning**

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

- Run in new tires with moderate riding at alternating angles.
Running-in phase 200 km (124 mi)

**Warning**

Danger of accidents Pieces of luggage which have slipped impair the handling characteristic.

- Check that your luggage is fixed properly at regular intervals.

**Warning**

Danger of accidents A fall can damage the vehicle more seriously than it may first appear.

- Check the vehicle after a fall as you do when preparing for use.

Note

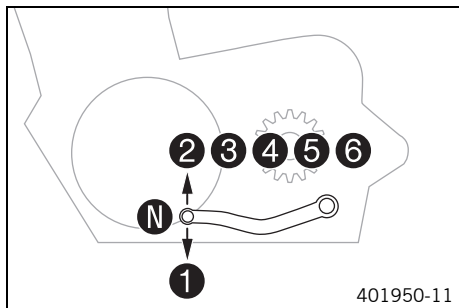
Engine failure Overheating damages the engine.

- If the coolant temperature warning is displayed, stop immediately and take care not to endanger yourself or other traffic participants in the process.
 - Allow the engine and cooling system to cool down.
 - Check and, if necessary, correct the coolant level on the cooling system while it is in a cooled state.
-



Info

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



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



Info

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

The operating temperature is reached when 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.
- Brake if necessary and close the throttle at the same time in order to shift down.
- 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 running at idle or standing for a long time.
- If the malfunction indicator lamp  lights up during a trip, stop immediately, switch off the engine, and contact an authorized KTM workshop.

9.5 Applying the brakes



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.

**Warning**

Danger of accidents A spongy pressure point on the front or rear brake reduces braking efficiency.

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

**Warning**

Danger of accidents The brake system fails in the event of overheating.

If the foot brake lever is not released, the brake linings drag continuously.

- Take your foot off the foot brake lever when you are not braking.

**Warning**

Danger of accidents Higher total weight increases the stopping distance.

- Take the longer stopping distance into account when carrying a passenger or luggage with you.

**Warning**

Danger of accidents Salt on the roads impairs the brake system.

- Brake carefully several times to remove salt from the brake linings and the brake discs.
-

**Warning**

Danger of accidents Excessively forceful application of the brakes blocks the wheels.

- Adjust application of the brakes to the respective riding situation and riding surface conditions.

**Warning**

Danger of accidents The rear wheel can lock due to the engine braking effect.

- Pull in the clutch, if you perform emergency or full braking, or if you brake on a slippery ground.

**Warning**

Danger of accidents Banked or laterally sloping ground reduces the maximum possible delay.

- If possible finish braking before going into a bend.
-

- 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.
- Always finish braking before you go into a bend. Change down to a lower gear appropriate to your road speed.
- Use the braking effect of the engine on long downhill stretches. Change down one or two gears, but do not over-rev the engine. In this way, you have to brake far less and the brakes do not overheat.

9.6 Stopping, parking



Warning

Risk of injury People who act without authorization endanger themselves and others.

- Do not leave the vehicle unattended if the engine is running.
- Protect the vehicle against access by unauthorized persons.
- Lock the steering and remove the ignition key if you leave the vehicle unattended.



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.

-
- Apply the brakes on 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. ( p. 27)

9.7 Transport

Note

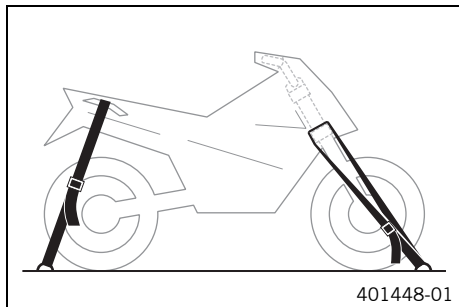
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
 - Allow the vehicle to cool down before covering it.
-



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

9.8 Refueling



Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.

Note

Material damage Inadequate fuel quality causes the fuel filter to quickly become clogged.

In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.

- Refuel only with clean fuel that meets the specified standards. (Your authorized KTM workshop will be glad to help.)



Warning

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

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.
-

9 RIDING INSTRUCTIONS

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- Switch off the engine.
- Open the filler cap. (📖 p. 28)
- Fill the fuel tank with fuel up to the lower edge ❶ of the fuel filler.

Total fuel tank capacity, approx.	10 l (2.6 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (📖 p. 183)
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- Close the filler cap. (📖 p. 29)

10.1 Additional information

Any further work that results from the required work or from the recommended work must be ordered separately and invoiced separately. Different service intervals may apply in your country, depending on the local operating conditions.

10.2 Required work

Every two years					
Every year					
every 15,000 km (9,300 mi)					
every 7,500 km (4,650 mi)					
after 1,000 km (620 mi)					
Read out the fault memory using the KTM diagnostics tool. 🛠️	○	●	●	●	●
Check that the electrical system is functioning properly.	○	●	●	●	●
Change the engine oil and oil filter, clean the oil screen. 🛠️ (📖 p. 156)	○	●	●	●	●
Check the brake discs. (📖 p. 103)	○	●	●	●	●
Check the front brake linings. (📖 p. 106)	○	●	●	●	●
Check the brake linings of the rear brake. (📖 p. 111)	○	●	●	●	●
Check the tire condition. (📖 p. 122)	○	●	●	●	●
Check the tire air pressure. (📖 p. 124)	○	●	●	●	●
Check the brake lines for damage and leakage.	○	●	●	●	●
Check the brake fluid level of the front brake. (📖 p. 104)	○	●	●	●	
Check the rear brake fluid level. (📖 p. 107)	○	●	●	●	
Check the shock absorber and fork for leaks. Perform service as needed and depending on how the vehicle is used. 🛠️	○	●	●	●	●
Clean the dust boots of the fork legs. (📖 p. 81)		●	●		
Check the chain, rear sprocket, and engine sprocket. (📖 p. 90)		●	●	●	●

10 SERVICE SCHEDULE

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					Every two years	
					Every year	
					every 15,000 km (9,300 mi)	
					every 7,500 km (4,650 mi)	
					after 1,000 km (620 mi)	
Check the chain tension. (📖 p. 86)	○	●	●	●	●	
Check the coolant level in the compensating tank. (📖 p. 143)	○	●	●	●	●	
Check that the radiator fan is functioning properly. 🛠️	○	●	●	●	●	
Change the air filter, clean the air filter box. 🛠️		●	●			
Check that the throttle cables are undamaged, routed without sharp bends, and set correctly. 🛠️	○	●	●	●	●	
Check the cables for damage and routing without sharp bends. 🛠️	○	●	●	●	●	
Check the valve clearance. 🛠️	○					
Check the valve clearance, change the spark plugs. 🛠️			●			
Change the front brake fluid. 🛠️					●	
Change the rear brake fluid.					●	
Check the play of the steering head bearing. 🛠️	○	●	●	●	●	
Check the low beam headlight adjustment. (📖 p. 137)	○	●	●			
Check the high beam headlight adjustment. (📖 p. 138)	○	●	●			
Final check: Check the vehicle is roadworthy and take a test ride. 🛠️	○	●	●	●	●	
Read out the error memory after the test ride using the KTM diagnostics tool. 🛠️	○	●	●	●	●	
Reset the service interval display. 🛠️	○	●	●			
Make the service entry in the KTM Dealer.net and in the Service and Warranty Booklet. 🛠️	○	●	●	●	●	

- One-time interval
- Periodic interval

10.3 Recommended work

	Every four years				
	Every year				
	every 30,000 km (18,600 mi)				
	every 7,500 km (4,650 mi)				
	after 1,000 km (620 mi)				
Check the frame. 🛠			•		
Check the swingarm. 🛠			•		
Check the swingarm bearing. 🛠		•	•		
Check the wheel bearings. 🛠		•	•		
Grease all moving parts (e.g. side stand, hand lever, chain, ...) and check for smooth operation. 🛠	○	•	•	•	•
Empty the drainage hoses. 🛠	○	•	•	•	•
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and correct routing. 🛠	○	•	•	•	•
Check the antifreeze. 🛠	○	•	•	•	
Change the coolant. 🛠					•
Check the screws and nuts for tightness. 🛠	○	•	•	•	•

○ One-time interval

• Periodic interval

11.1 Adjusting the spring pretension of the shock absorber



Warning

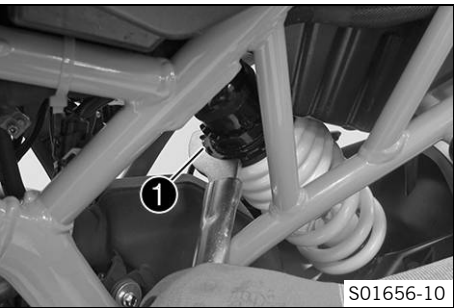
Danger of accidents Modifications to the suspension settings can seriously alter the vehicle's ride behavior.

- Following modifications, ride slowly at first to get the feel of the new ride behavior.



Info

The spring pretension defines the initial status of the spring operation on the shock absorber. The best spring pretension 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.



- Set the spring pretension by turning the adjusting ring **1** using the hook wrench from the tool set.

Guideline

Spring preload	
Standard	5 clicks
Hook wrench, shock absorber (90529077000)	
Extension for hook wrench (90129099025)	



Info

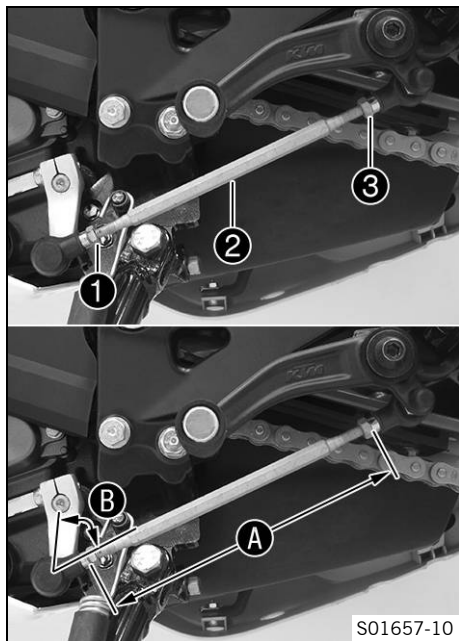
The spring pretension can be set to 10 different positions.

11.2 Adjusting the shift lever



Info

The adjustment range of the shift lever is limited.



- Loosen nut **1**, holding threaded rod **2**.



Info

Nut **1** has a left-handed thread.

- Loosen nut **3**, holding threaded rod **2**.
- Adjust the shift lever by turning shift rod **2**.

Guideline

Shift rod adjustment range A	150... 162 mm (5.91... 6.38 in)
-------------------------------------	---------------------------------



Info

Make the same adjustments on both sides.

At least five screw threads must be screwed into the seating.

- Check adjusting angle **B**.

Guideline

Adjusting angle B shift rod - bell crank - shift lever	75°
---	-----

- Tighten nut **3** while holding threaded rod **2**.

Guideline

Nut, shift rod	M6	10 Nm (7.4 lbf ft)
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- Tighten nut ❶, holding threaded rod ❷.

Guideline

Nut, shift rod	M6LH	10 Nm (7.4 lbf ft)
----------------	------	--------------------

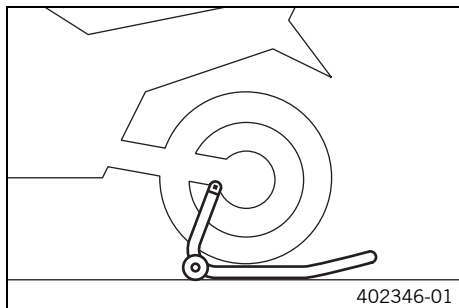
- Check the shift lever to ensure it is functioning properly and can move freely.

12.1 Raising the motorcycle with the rear lifting gear

Note

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

- Park the vehicle on a firm and level surface.



- Mount the supports of the lifting gear.
- Insert the adapter in the rear lifting gear.

Retaining adapter (61029955244)

Lifting gear, rear (69329955000)

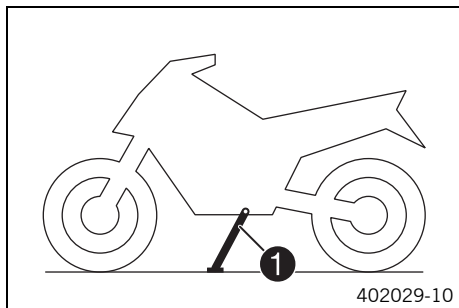
- Stand the motorcycle upright, align the lifting gear with the swingarm and the adapters, and lift the motorcycle.

12.2 Removing the rear of the motorcycle from the lifting gear

Note

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

- Park the vehicle on a firm and level surface.



- Secure the motorcycle against falling over.
- Remove the rear lifting gear and lean the vehicle on side stand **1**.
- Remove bushings kit.

12.3 Lifting the motorcycle with the front lifting gear

Note

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

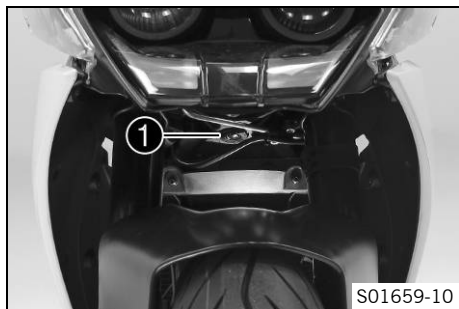
- Park the vehicle on a firm and level surface.

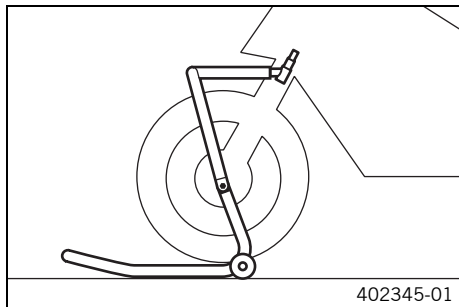
Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

Condition

- Remove protection cap **1**.





- Move the handlebar to the straight-ahead position. Position the lifting gear.

Mounting pin (69329965030)

Lifting gear, front (69329965000)

**Info**

Always raise the motorcycle at the rear first.

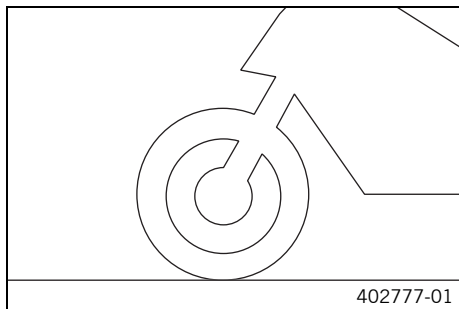
- Raise the motorcycle at the front.

12.4 Taking the motorcycle off of the front wheel stand

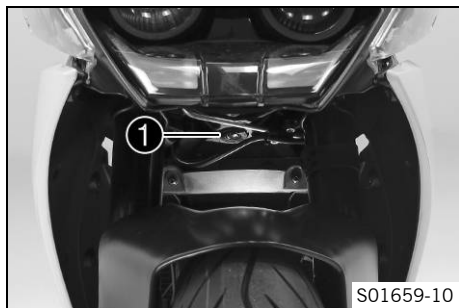
Note

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

- Park the vehicle on a firm and level surface.

**Main work**

- Secure the motorcycle against falling over.
- Remove the front wheel stand.



- Mount protection cap ❶.

Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

12.5 Cleaning the dust boots of the fork legs

Preparatory work

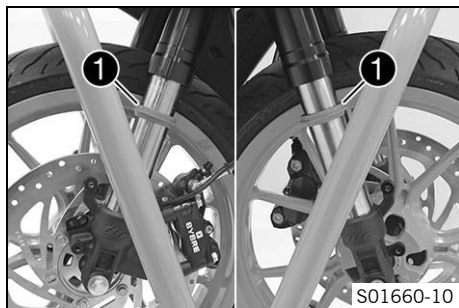
- Remove the front fender. (📖 p. 102)
- Raise the motorcycle with the rear lifting gear. (📖 p. 78)
- Lift the motorcycle with the front lifting gear. (📖 p. 79)

Main work

- Push dust boots ❶ of both fork legs downward.

Info

The dust boots should remove dust and coarse dirt particles from the fork tubes. Over time, dirt can accumulate behind the dust boots. If this dirt is not removed, the oil seals behind can start to leak.





Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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

- Clean and oil the dust boots and inner fork tubes of both fork legs.

Universal oil spray (📖 p. 185)

- Press the dust boots back into their installation position.
- Remove excess oil.

Finishing work

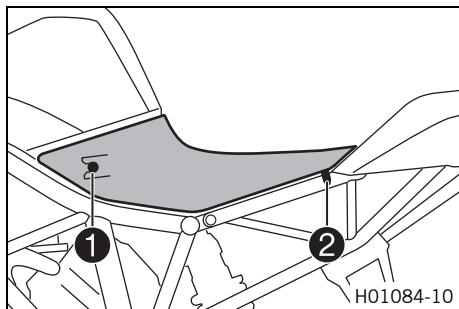
- Take the motorcycle off of the front wheel stand. (📖 p. 80)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)
- Install the front fender. (📖 p. 102)

12.6 Removing the front rider's seat



- Insert the ignition key in seat lock ① and turn it clockwise.
- Raise the rear of the front rider's seat, pull it toward the rear, and remove it upward.
- Remove the ignition key from the seat lock.

12.7 Mounting the front rider's seat



- Attach recesses ❶ on the front rider's seat to the fuel tank, push the front rider's seat forward, and lower at the rear.
- ✓ The pin ❷ locks audibly in place.
- Check that the front rider's seat is correctly mounted.

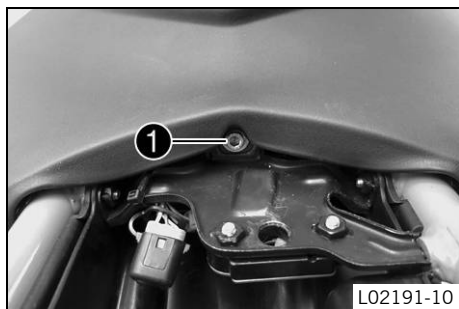
12.8 Removing the passenger seat

Preparatory work

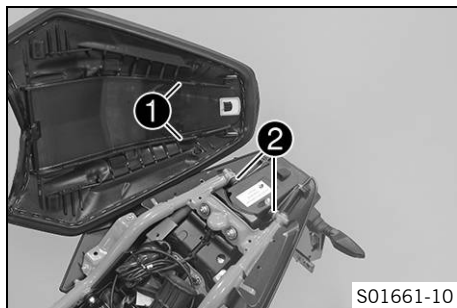
- Remove the front rider's seat. (📖 p. 82)

Main work

- Remove screw ❶ with the washer.
- Lift and take off the passenger seat.

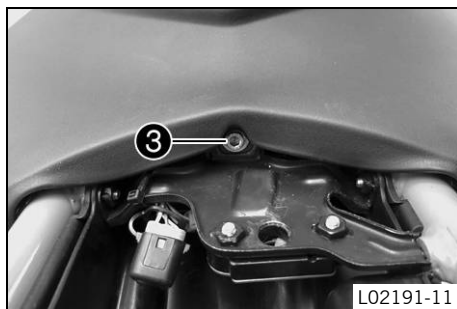


12.9 Mounting the passenger seat



Main work

- Position the passenger seat.
 - ✓ Both hooks ① engage in the holders ②.
- Lower the passenger seat and push back.



- Mount and tighten screw ③ with the washer.

Guideline

Screw, passenger seat	M6	7 Nm (5.2 lbf ft)
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Warning

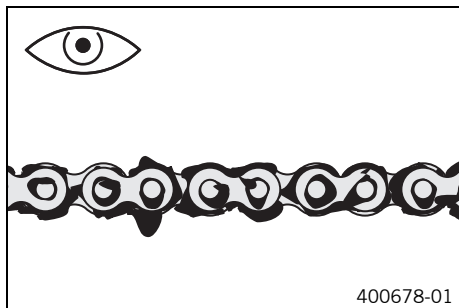
Danger of accidents The passenger seat can come loose from the anchoring if it is not mounted correctly.

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

Finishing work

- Mount the front rider's seat. (📖 p. 83)

12.10 Checking for chain dirt accumulation



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (📖 p. 85)

12.11 Cleaning the chain



Warning

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

- Remove the lubricant from the tires using a suitable cleaning agent.



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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



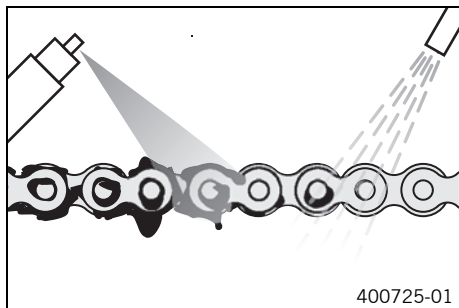
Warning

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

**Info**

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

**Preparatory work**

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

Main work

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

Chain cleaner (📖 p. 184)

- After drying, apply chain spray.

Chain lube for road use (📖 p. 184)

Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

12.12 Checking the chain tension

**Warning**

Danger of accidents Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

Main work

- Shift gear to neutral.
- In the area of the chain sliding guard, press the chain upward toward the swingarm and determine chain tension **A**.

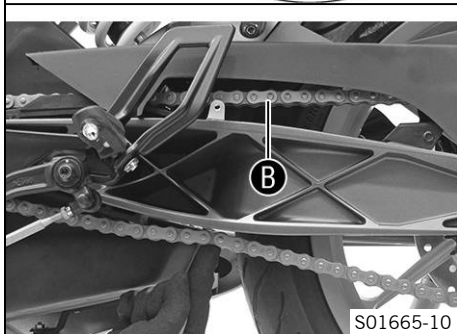
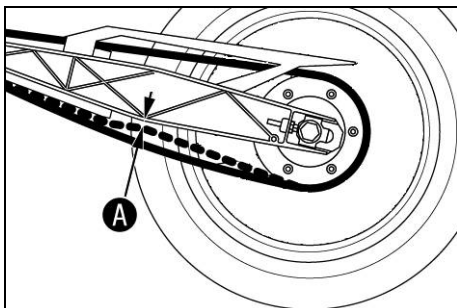
i Info

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 the specification:
 - Adjust the chain tension. (📖 p. 88)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)



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12.13 Adjusting the chain tension



Warning

Danger of accidents Incorrect chain tension damages components and results in accidents.

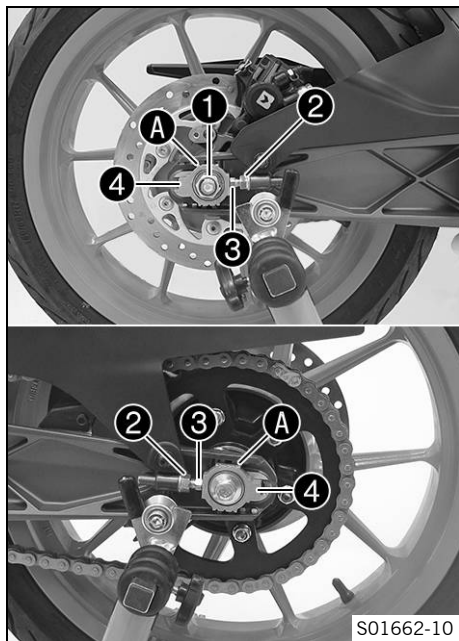
If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)
- Check the chain tension. (📖 p. 86)



Main work

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

Guideline

Chain tension	5... 7 mm (0.2... 0.28 in)
Turn the adjusting screws ③ on the left and right so that the markings on the left and right chain adjusters ④ are in the same position relative to the reference marks A. The rear wheel is then correctly aligned.	



Info

The upper part of the chain must be taut.

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

- Tighten nuts ②.
- Make sure that chain adjusters ④ are fitted correctly on adjusting screws ③.
- Tighten nut ①.

Guideline

Nut, rear wheel spindle	M14x1.5	90 Nm (66.4 lbf ft)
-------------------------	---------	------------------------

Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

12.14 Checking the chain, rear sprocket, and engine sprocket

Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

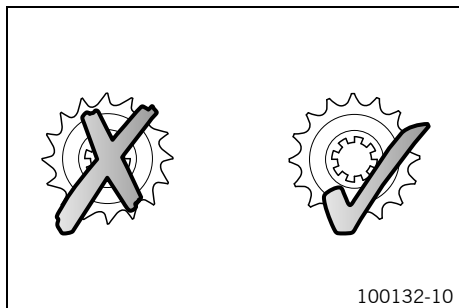
Main work

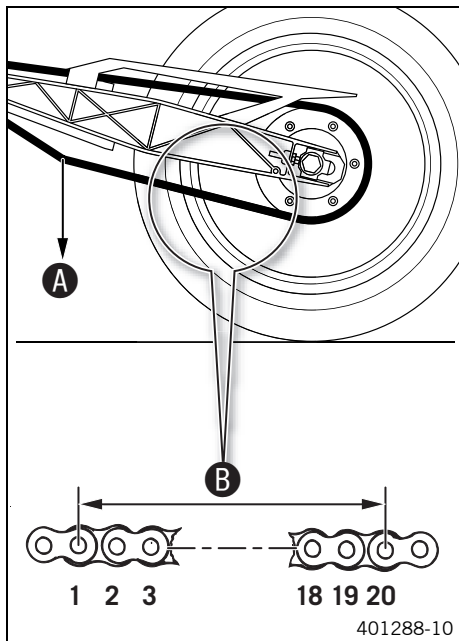
- Shift gear to neutral.
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Change the drivetrain kit. 🛠️



Info

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





- Pull the lower chain section with specified weight **A**.

Guideline

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

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



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 distance **B** is greater than the specified measurement:

- Change the drivetrain kit. 🛠️

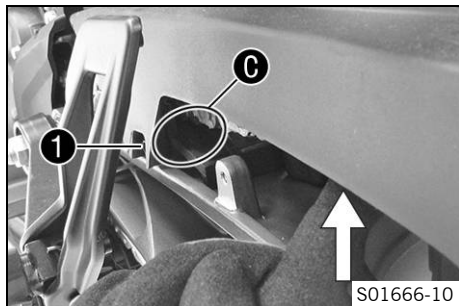


Info

When a new chain is mounted, the rear sprocket and engine sprocket should also be changed.

New chains wear out faster on old, worn sprockets.

- Push the chain up in the area behind the chain guide.
- Check the chain sliding guard for wear.
 - » If the chain sliding guard has lost material due to wear to the extent that, in area **C**, the drilled hole of screw **1** is visible from above:
 - Change the chain sliding guard. 🛠️
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the screws on the chain sliding guard.



Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

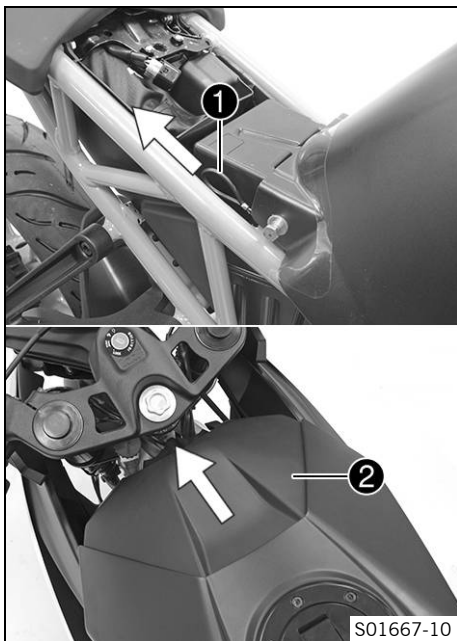
12.15 Removing the battery cover

Preparatory work

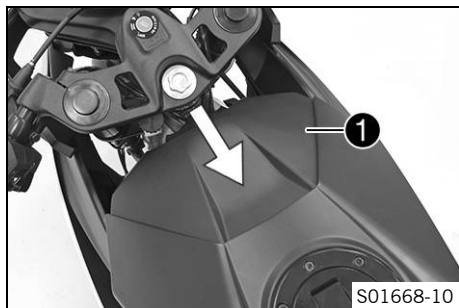
- Remove the front rider's seat. (📖 p. 82)

Main work

- Pull loop ❶ toward the rear.
- Pull battery cover ❷ forward and remove toward the top.



12.16 Mounting the battery cover



Main work

- Position battery cover **1** and pull toward the rear.
 - ✓ The battery cover engages with an audible click.
- Check the battery cover is seated correctly.

Finishing work

- Mount the front rider's seat. (📖 p. 83)

12.17 Removing the front spoiler



Preparatory work

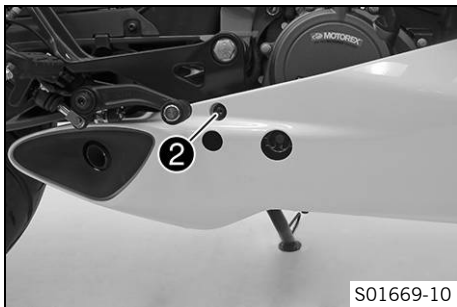
- Remove the right side cover. 🛠 (📖 p. 100)
- Remove the left side cover. 🛠 (📖 p. 97)

Main work

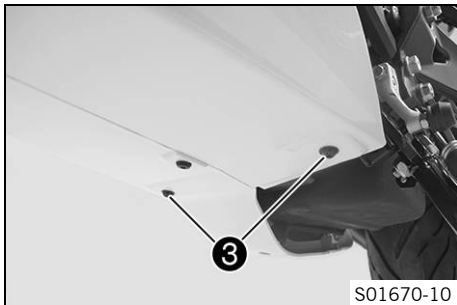
- Remove screws **1**.

12 SERVICE WORK ON THE CHASSIS

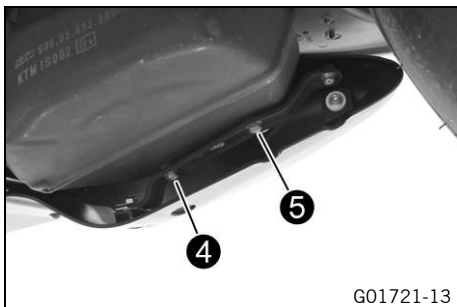
94



- Remove screw ②.

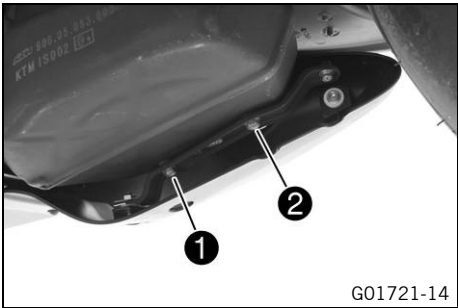


- Remove screws ③.



- Remove screw ④.
- Remove screw ⑤.
- Take off the front spoiler.

12.18 Fitting front spoiler



Main work

- Position the front spoiler.
- Mount and tighten screw ❶.

Guideline

Screw, front spoiler retaining bracket, rear, on engine	M6	9 Nm (6.6 lbf ft)
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- Mount and tighten screw ❷.

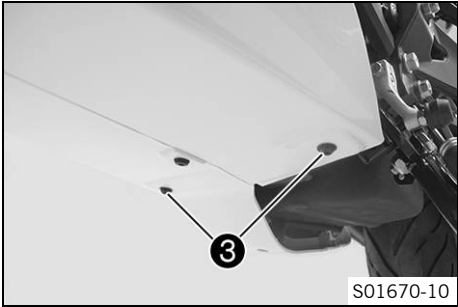
Guideline

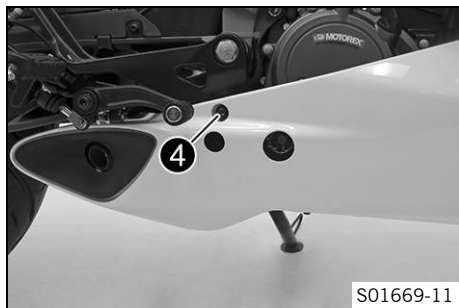
Screw, front spoiler retaining bracket, rear, on engine	M6	9 Nm (6.6 lbf ft)
---	----	-------------------

- Mount and tighten screws ❸.

Guideline

Screw, front spoiler retaining bracket, rear	M6	6 Nm (4.4 lbf ft)
--	----	-------------------

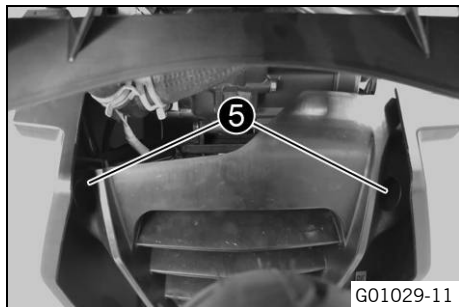




- Mount and tighten screw ④.

Guideline

Screw, front spoiler, right, on footrest bracket	M6	7 Nm (5.2 lbf ft)
--	----	-------------------



- Mount and tighten screws ⑤.

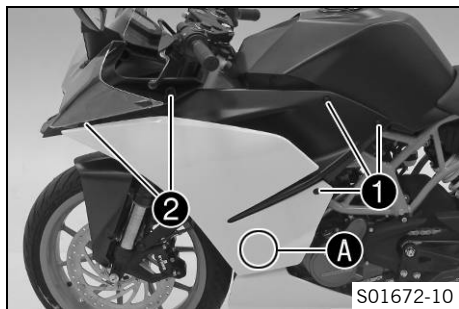
Guideline

Screw, front spoiler	M6	7 Nm (5.2 lbf ft)
----------------------	----	-------------------

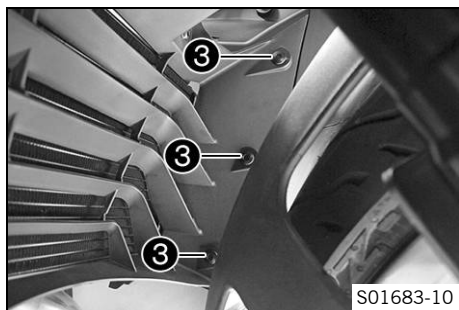
Finishing work

- Install the left side cover. 🛠️ (📖 p. 98)
- Install the right side cover. 🛠️ (📖 p. 101)

12.19 Removing the left side cover



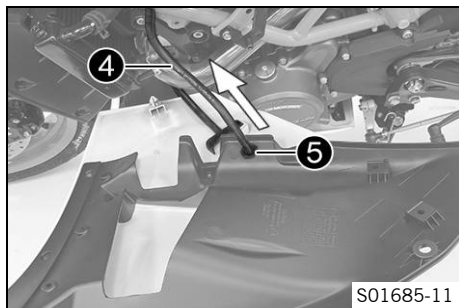
- Remove screws ①.
- Remove screws ②.
- Pull off holding lug in area A.



- Remove expanding rivet ③.

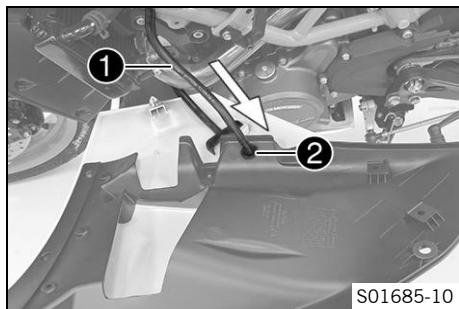
12 SERVICE WORK ON THE CHASSIS

98



- Swing the side cover outward.
- Pull hose ④ out of hose guide ⑤.
- Take off the side cover.

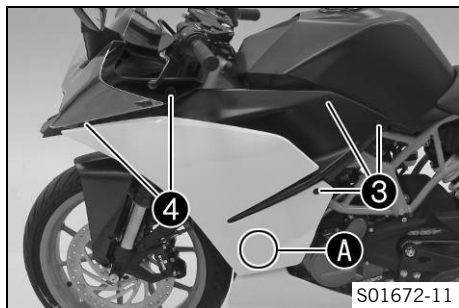
12.20 Installing the left side cover 🐾



- Position hose ① in hose guide ②.

12 SERVICE WORK ON THE CHASSIS

99



- Position the side cover.
- Mount and tighten screws ③.

Guideline

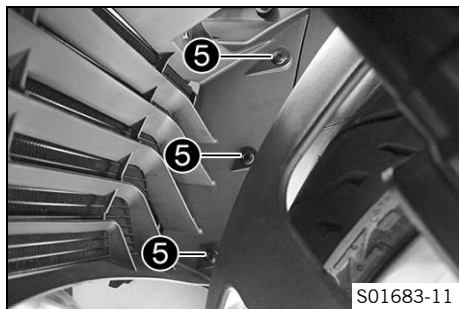
Screw, side cover	M6	7 Nm (5.2 lbf ft)
-------------------	----	-------------------

- Push on the side cover in area ①.
- ✓ The holding lug engages in the drilled hole on the front spoiler.
- Mount and tighten screws ④.

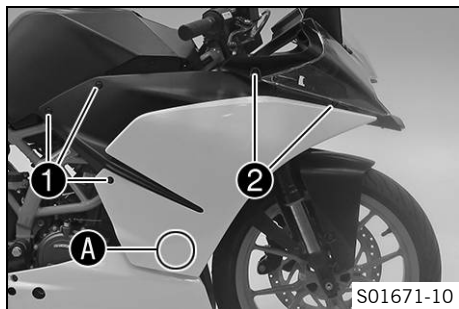
Guideline

Screw, side cover on front mask	M6	6 Nm (4.4 lbf ft)
---------------------------------	----	-------------------

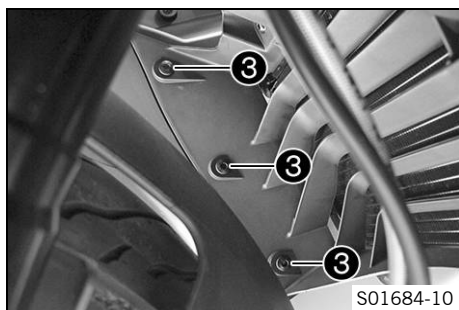
- Mount expanding rivet ⑤.



12.21 Removing the right side cover

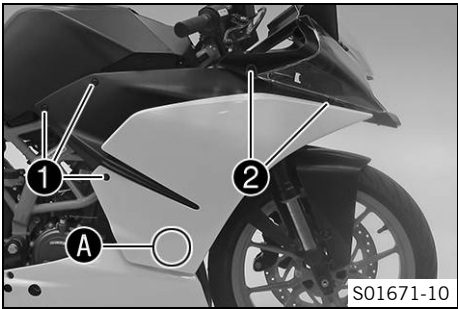


- Remove screws ①.
- Remove screws ②.
- Pull off holding lug in area A.



- Remove expanding rivet ③.
- Take off the side cover.

12.22 Installing the right side cover 🛠



- Position the side cover.
- Mount and tighten screws ❶.

Guideline

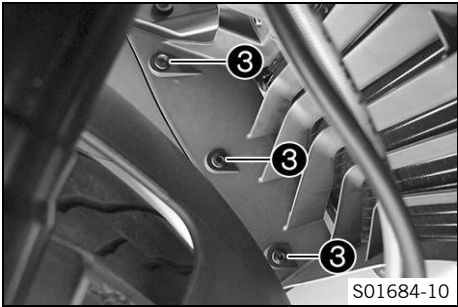
Screw, side cover	M6	7 Nm (5.2 lbf ft)
-------------------	----	-------------------

- Push on the side cover in area A.
- ✓ The holding lug engages in the drilled hole on the front spoiler.
- Mount and tighten screws ❷.

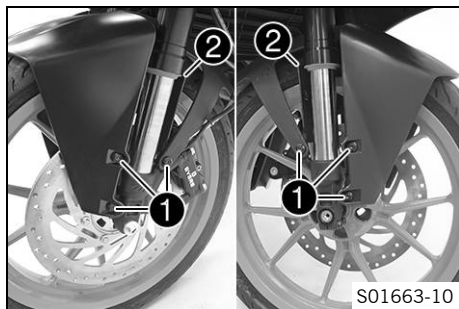
Guideline

Screw, side cover on front mask	M6	6 Nm (4.4 lbf ft)
---------------------------------	----	-------------------

- Mount expanding rivet ❸.

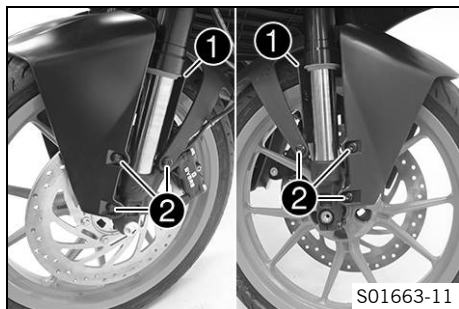


12.23 Removing the front fender



- Remove screws ①.
- Take off front fender and remove fork protector ②.

12.24 Installing the front fender



- Position fork protector ① and front fender.
- Mount and tighten screws ②.

Guideline

Screw, front fender on axle clamp	M6	7 Nm (5.2 lbf ft)
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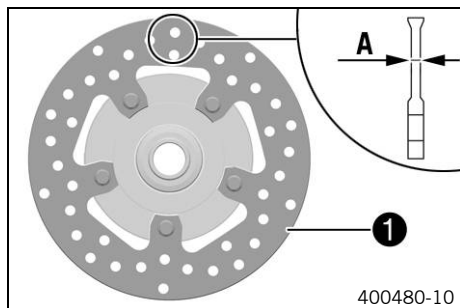
13.1 Checking the brake discs



Warning

Danger of accidents Worn-out brake discs reduce the braking effect.

- Make sure that worn-out brake discs are replaced immediately. (Your authorized KTM workshop will be glad to help.)



- Check the thickness of the front and rear brake discs at multiple points on each brake disc to ensure it is at least thickness **A**.

i Info

Wear will reduce the thickness of the brake disc at contact surface **1** of the brake linings.

Brake discs - wear limit	
Front	4.5 mm (0.177 in)
Rear	3.6 mm (0.142 in)

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

13.2 Checking the brake fluid level of the front brake



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

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



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with 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 level is below the **MIN** marking:
 - Add front brake fluid. 🛠️ (📖 p. 105)

13.3 Adding front brake fluid



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

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



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.

Preparatory work

- Check the front brake linings. (📖 p. 106)

Main work

- 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 A.

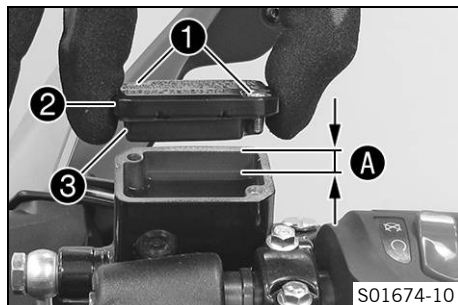
Guideline

Level A	5 mm (0.2 in)
Brake fluid DOT 4 / DOT 5.1 (📖 p. 181)	

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

Info

Clean up overflowed or spilled brake fluid immediately with water.



13.4 Checking the front brake linings

Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

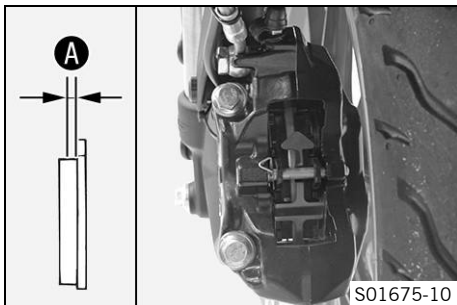


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

If the brake linings are not changed in time, the brake lining carriers grind against the brake disc. As a consequence, the braking effect is greatly reduced and the brake discs are destroyed.

- 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 damage or cracking:

- Change the front brake linings. 🛠️

13.5 Checking the rear brake fluid level



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

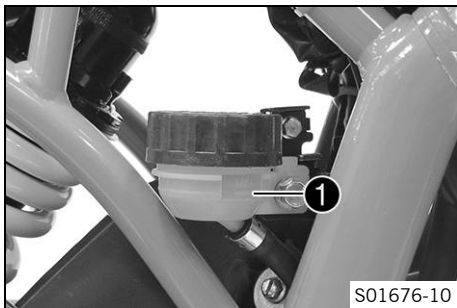
- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



- Stand the vehicle upright.
- Check the brake fluid level in the brake fluid reservoir.
 - » If the fluid level reaches the **MIN** marking ❶:
 - Add rear brake fluid. 🛠️ (📖 p. 108)

13.6 Adding rear brake fluid 🛠️



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the **MIN** marking, the brake system is leaking or the brake linings are worn down.

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



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

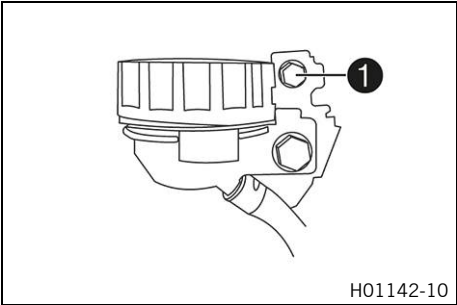


Info

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.
Only use clean brake fluid from a sealed container.

Preparatory work

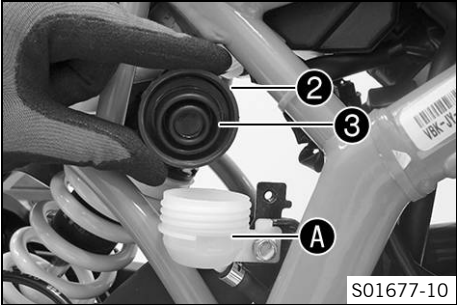
- Check the brake linings of the rear brake. (📖 p. 111)



Main work
Condition

The screw cap is locked.

- Remove screw ① and take off the screw cap lock.



- Stand the vehicle upright.
- Remove screw cap ② with membrane ③.
- Add brake fluid to level A.

Brake fluid DOT 4 / DOT 5.1 (📖 p. 181)

- Mount screw cap with membrane.



Info

Clean up overflowed or spilled brake fluid immediately with water.

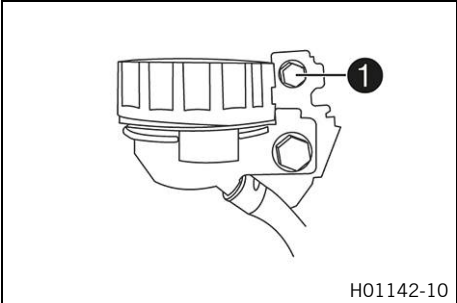
Condition

The screw cap is locked.

- Position the screw cap lock and mount and tighten screw ①.

Guideline

Screw, compensating tank cap lock, rear brake	M5	7 Nm (5.2 lbf ft)
---	----	-------------------



13.7 Checking the brake linings of the rear brake



Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

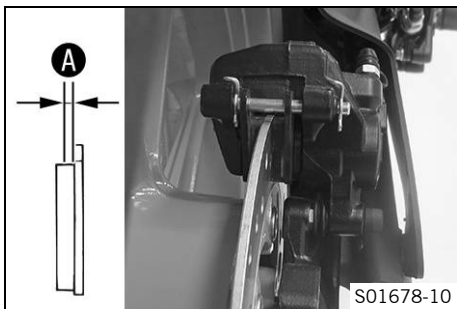


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

If the brake linings are not changed in time, the brake lining carriers grind against the brake disc. As a consequence, the braking effect is greatly reduced and the brake discs are destroyed.

- 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 damage or cracking:
 - Change the rear brake linings. 🛠️

13.8 Checking the free travel of foot brake lever



Warning

Danger of accidents The brake system fails in the event of overheating.

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.

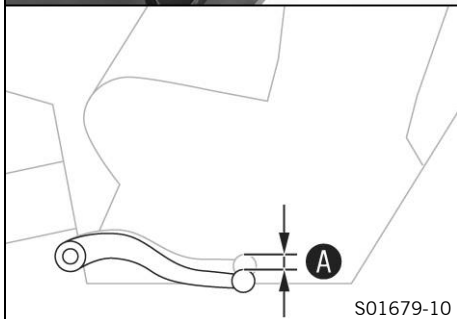


- Disconnect spring ❶.
- Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel ❸.

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. 113)
- Reconnect spring ❶.



13.9 Adjusting the free travel of the foot brake lever

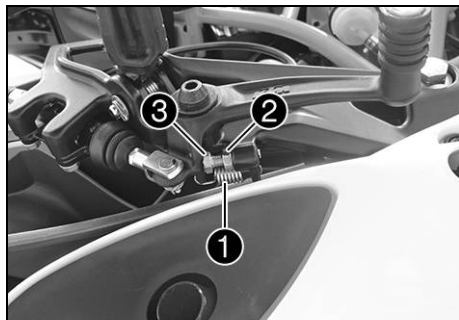


Warning

Danger of accidents The brake system fails in the event of overheating.

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.



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

Guideline

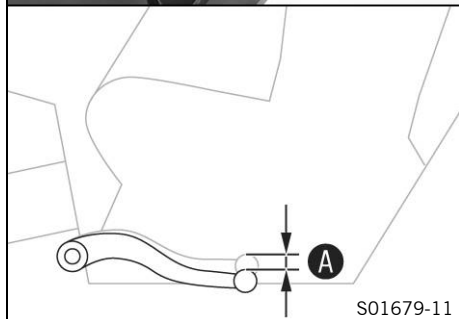
Free travel at foot brake lever	3... 5 mm (0.12... 0.2 in)
---------------------------------	----------------------------



Info

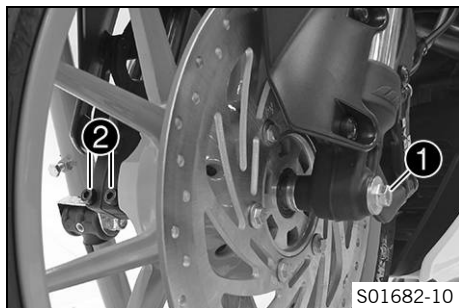
The range of adjustment is limited.

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



S01679-11

14.1 Removing the front wheel 🛠



Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)
- Lift the motorcycle with the front lifting gear. (📖 p. 79)

Main work

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



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.



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**

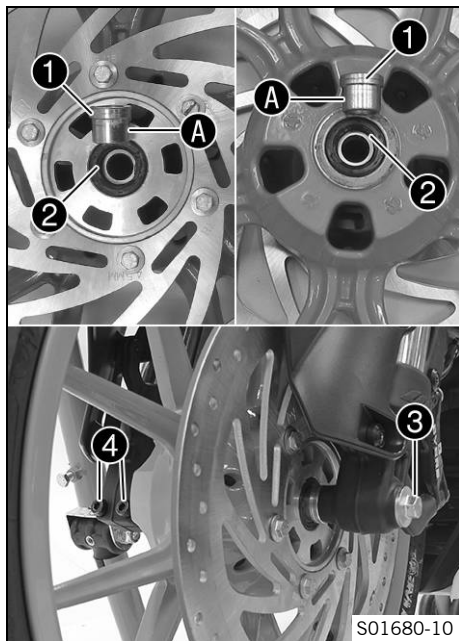
Do not pull the hand brake lever when the front wheel is removed.

14.2 Installing the front wheel

**Warning**

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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



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

Long-life grease (📖 p. 184)

- Insert the spacers.
- Clean the thread of the wheel spindle and screw ❸.
- Clean and grease wheel spindle.

Long-life grease (📖 p. 184)

- Position the front wheel and insert the wheel spindle.
 - ✓ The brake linings are correctly positioned.
- Mount and tighten screw ❸.

Guideline

Screw, front wheel spindle	M8	26 Nm (19.2 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. 80)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)
- Operate the front brake and compress the fork a few times firmly.
 - ✓ The fork legs straighten.
- Tighten screws ❹.

Guideline

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

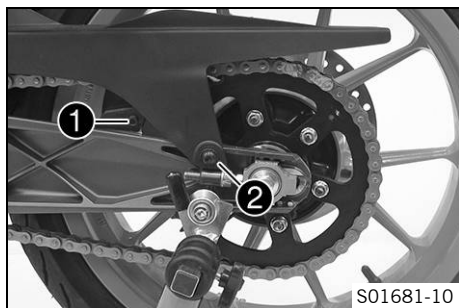
14.3 Removing the rear wheel 🛠️

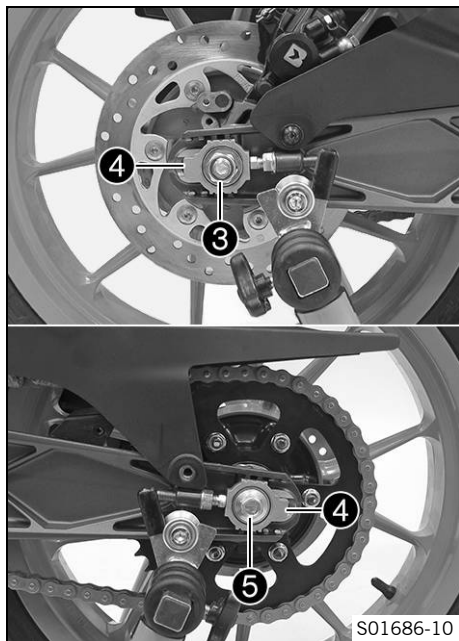
Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

Main work

- Remove screw ❶.
- Remove screw ❷ with the bushing.





- Remove nut ③ and washer. Remove chain adjuster ④.
- Holding the rear wheel, withdraw wheel spindle ⑤ with the washer and chain adjuster ④.
- Push the rear wheel forward as far as possible and take the chain off the rear sprocket.
- Press the chain guard upward and to one side.



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 lever when the rear wheel is removed.

14.4 Installing the rear wheel 🛠️



Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

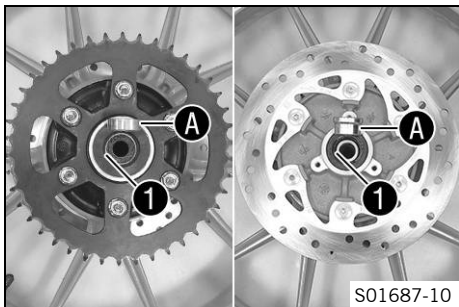
- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Warning

Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.

- Actuate the foot brake several times before going on a ride until you can feel a firm pressure point.



Main work

- Check the rear hub rubber dampers. 🛠️ (📖 p. 121)
- Remove the spacers.
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing. 🛠️
- Clean and grease shaft seal rings **1** and mating surfaces **A** of the spacers.

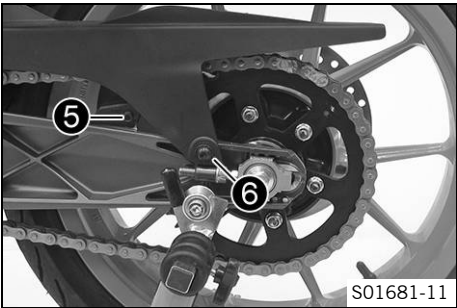
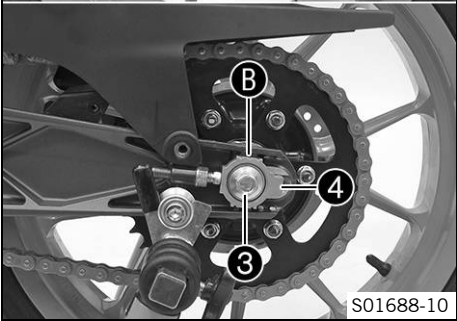
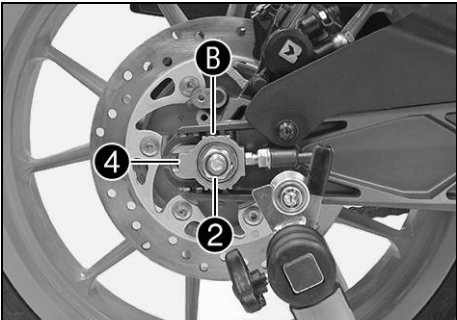
Long-life grease (📖 p. 184)

- Insert the spacers.
- Clean the thread of the wheel spindle and nut **2**.
- Clean and grease wheel spindle.

Long-life grease (📖 p. 184)

- Clean the mating surfaces of the brake caliper support and swingarm.
- Position the rear wheel.
 - ✓ The brake linings are correctly positioned.
- Push chain guard to the side.
- Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.

14 WHEELS, TIRES



- Pull the rear wheel back and mount wheel spindle 3 with the washers and chain adjusters 4.

 **Info**

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

- Mount nut 2, but do not tighten it yet.
- Ensure that the chain adjusters lie flat 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 reference markings B.

Nut, rear wheel spindle	M14x1.5	90 Nm (66.4 lbf ft)
-------------------------	---------	------------------------

- Position the chain guard.
- Mount and tighten screw 5.

Guideline

Screw, chain guard	EJOT PT® K60x30	4 Nm (3 lbf ft)
--------------------	-----------------	-----------------

- Mount and tighten screw 6 with the bushing.

Guideline

Screw, chain guard	M6	7 Nm (5.2 lbf ft)
--------------------	----	-------------------

Finishing work

- Check the chain tension. (📖 p. 86)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

14.5 Checking the rear hub rubber dampers 🛠️



Info

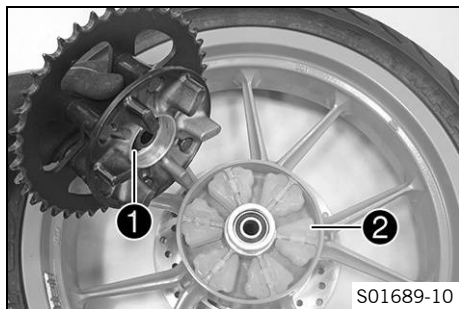
The engine power is transmitted from the rear sprocket to the rear wheel via 6 rubber dampers. They eventually wear out during operation. If the rubber dampers are not changed in time, the rear sprocket carrier and the rear hub become damaged.

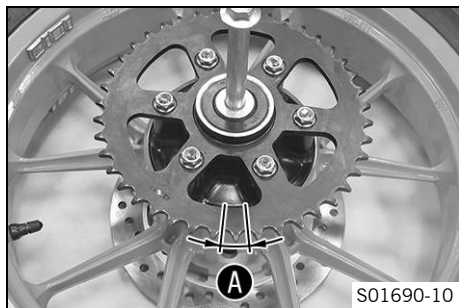
Preparatory work

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)
- Remove the rear wheel. 🛠️ (📖 p. 117)

Main work

- Check bearing ❶.
 - » If the bearing is damaged or worn:
 - Change the rear wheel bearing. 🛠️
- Check 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.





Warning

Danger of accidents Damaged brake discs reduce the braking effect.

- Always lay the wheel down in such a way that the brake disc is not damaged.

- 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 **A**, hold the rear wheel tight and try to rotate the rear sprocket.



Info

Measure the play on the outside of the rear sprocket.

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

- » If the clearance **A** is larger than the specified value:
 - Change all rubber dampers in the rear hub.

Finishing work

- Install the rear wheel. (📖 p. 118)
- Check the chain tension. (📖 p. 86)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)

14.6 Checking the tire condition



Warning

Danger of accidents If a tire bursts while riding, the vehicle becomes uncontrollable.

- Ensure that damaged or worn tires are replaced immediately. (Your authorized KTM workshop will be glad to help.)

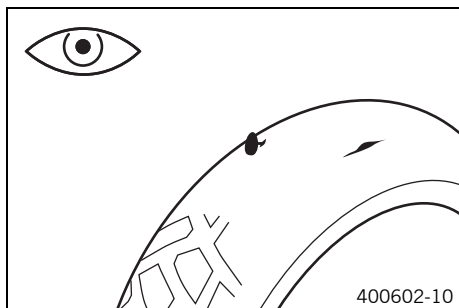
 **Warning**
Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic. Different tire tread patterns can make the vehicle significantly more difficult to control.

- Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.

 **Warning**
Danger of accidents Non-approved or non-recommended tires and wheels impact the handling characteristic.

- Only use tires/wheels approved by KTM with the corresponding speed index.

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

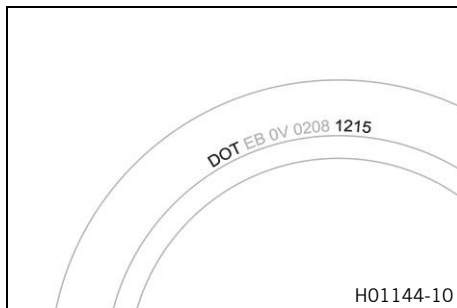


- Check the front and rear tires for cuts, run-in objects, and other damage.
 - » If the tires have cuts, run-in objects, or other damage:
 - Change the tires.
- Check the tread depth.

 **Info**
Adhere to the legally required minimum tread depth.

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

- » If the tread depth is less than the minimum tread depth:
 - Change the tires.



- Check the tire age.



Info

The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture. KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

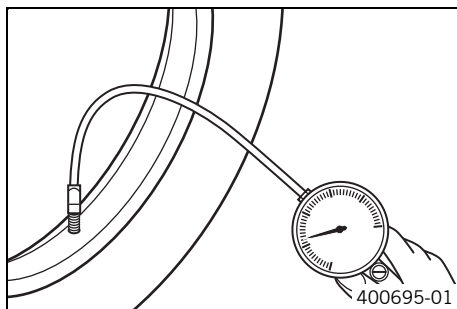
- » If the tires are more than 5 years old:
 - Change the tires.

14.7 Checking the tire air pressure



Info

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



- Remove 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:

14 WHEELS, TIRES

125

- Correct the tire air pressure.
- Mount the dust cap.

15.1 Removing the battery



Warning

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

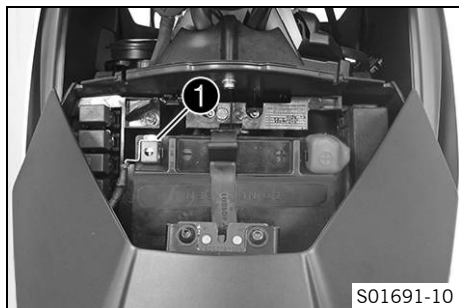
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.

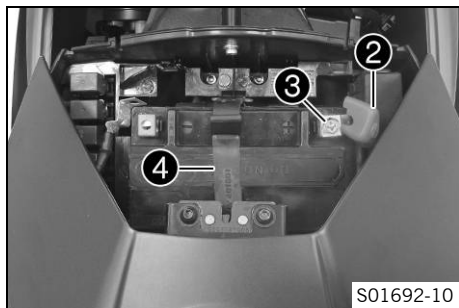
Preparatory work

- Switch off the ignition by turning the ignition key to the position
- Remove the front rider's seat. (p. 82)
- Remove the battery cover. (p. 92)

Main work

- Disconnect negative cable **1** from the battery.





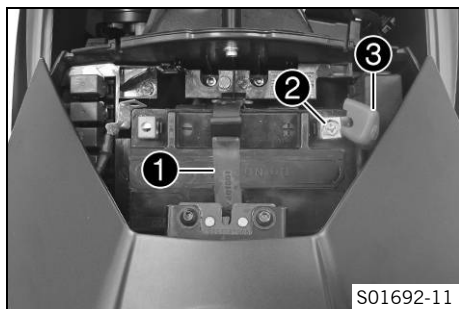
- Pull back positive terminal cover ②.
- Disconnect positive cable ③ from the battery.
- Detach rubber band ④.
- Pull the battery up and out of the battery holder.



Info

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

15.2 Installing the battery 🔧



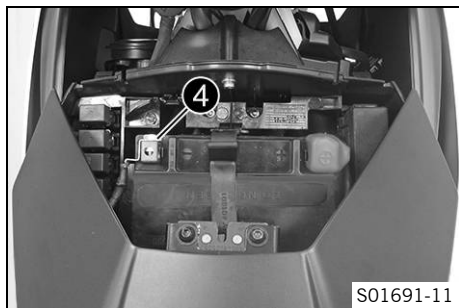
Main work

- Position the battery in the battery holder.

Guideline

The terminals of the battery must face upwards.

- Reconnect rubber band ①.
- Position positive cable ② and mount and tighten the screw.
- Position positive terminal cover ③.



- Position negative cable ④; mount and tighten the screw.

Finishing work

- Mount the battery cover. (📖 p. 93)
- Mount the front rider's seat. (📖 p. 83)
- Set the clock. (📖 p. 54)

15.3 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 safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.



Warning

Environmental hazard Batteries contain environmentally-hazardous materials.

- Do not dispose of batteries as household waste.
 - Dispose of batteries at a collection point for used batteries.
-



Info

Even when there is no load on the battery, it discharges steadily.

The charging level and the method of charging are very important for the service life of the battery.

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

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

If the battery is depleted by repeated starting, 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 sulfated, destroying the battery.

The battery is maintenance-free. The acid level does not have to be checked.

Preparatory work

- Switch off the ignition by turning the ignition key to the position ☒.
- Remove the front rider's seat. (📖 p. 82)
- Remove the battery cover. (📖 p. 92)
- Disconnect the negative cable of the battery to avoid damage to the onboard 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 the open-circuit voltage and start potential of the battery, and to test the alternator. With this device, you cannot overcharge the battery.



Info

Never remove cover ①.

- Switch off the battery charger after charging and disconnect from the battery.

Guideline

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

Charge the battery regularly when the motorcycle is not in use

3 months

- Position the negative cable and mount and tighten the screw.

Finishing work

- Mount the battery cover. (📖 p. 93)
- Mount the front rider's seat. (📖 p. 83)
- Set the clock. (📖 p. 54)

15.4 Changing the fuses of individual power consumers



Info

The fuse box with the main fuse and fuses of the individual power consumers is located next to the positive terminal of the battery.

Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the front rider's seat. (📖 p. 82)
- Remove the battery cover. (📖 p. 92)

Main work

- Open fuse box cover.
- Remove the defective fuse.

Guideline

Fuse **1** - 30 A - main fuse

Fuse **2** - 15 A - diagnostics connector, high beam, combination instrument, alarm system (optional)

Fuse **3** - 15 A - fuel pump, power relay

Fuse **4** - 15 A - ignition coil, starter relay

Fuse **5** - 15 A - radiator fan

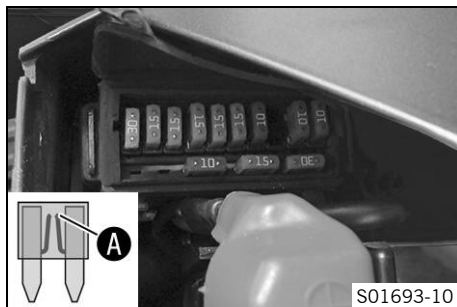
Fuse **6** - 15 A - horn, brake light, turn signal, low beam, parking light, tail light, license plate lamp

Fuse **7** - 10 A - combination instrument, control unit

Fuse **8** - not assigned

Fuse **9** - 10 A - auxiliary equipment

Fuse **10** - 10 A - auxiliary equipment



**Info**

You can recognize a faulty fuse by a burned-out fuse wire **A**.

**Warning**

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
 - Do not bypass or repair fuses.
-
- Use spare fuses with the correct rating only.

Fuse (75011088010) (📖 p. 174)
Fuse (75011088015) (📖 p. 174)
Fuse (75011088030) (📖 p. 174)

**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.

Finishing work

- Mount the battery cover. (📖 p. 93)
- Mount the front rider's seat. (📖 p. 83)

15.5 Changing the low beam bulb

Note

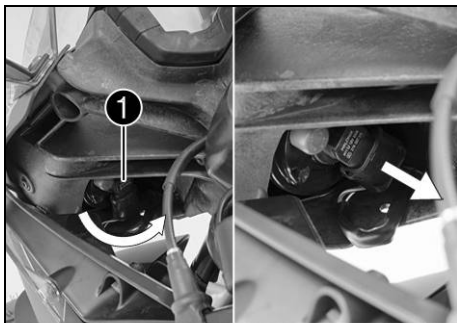
Damage to reflector Grease on the reflector reduces the brightness.

Grease on the bulb will evaporate due to the heat and be deposited on the reflector.

- Clean and degrease the bulbs before mounting.
- Do not touch the bulbs with your bare hands.

Preparatory work

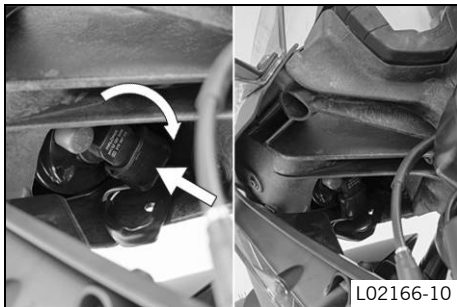
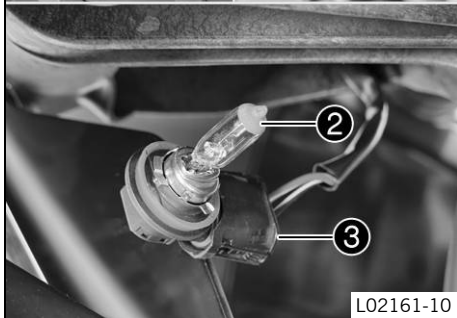
- Switch off the ignition by turning the ignition key to the position ⌘.



Main work

- Turn socket ❶ counterclockwise.
- Pull the socket with low beam bulb ❷ out of the headlight housing.
- Disconnect the socket with the low beam bulb from connector ❸ and remove.
- Connect the new socket with the low beam bulb to the connector.

Low beam (H11/socket PGJ19-2) (📖 p. 174)



- Position the socket with the low beam bulb in the headlight housing.
- Turn the socket clockwise.
- Check that the lighting is functioning properly.

Finishing work

- Check the low beam headlight adjustment. (📖 p. 137)

15.6 Changing the high beam bulb

Note

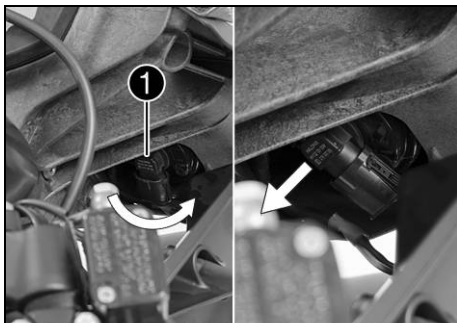
Damage to reflector Grease on the reflector reduces the brightness.

Grease on the bulb will evaporate due to the heat and be deposited on the reflector.

- Clean and degrease the bulbs before mounting.
- Do not touch the bulbs with your bare hands.

Preparatory work

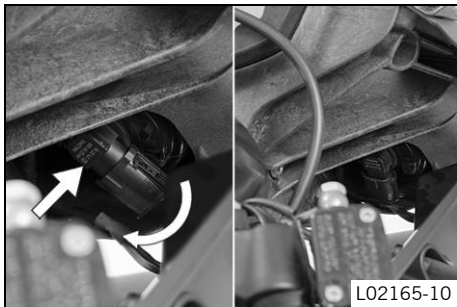
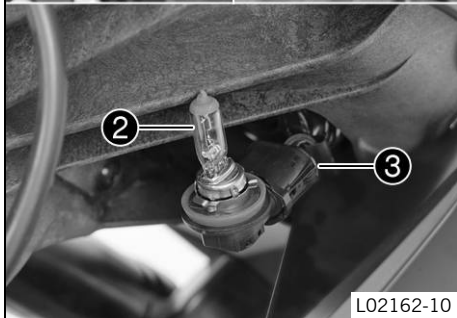
- Switch off the ignition by turning the ignition key to the position ⏏.



Main work

- Turn socket ❶ counterclockwise.
- Pull the socket with high beam bulb ❷ out of the headlight housing.
- Disconnect the socket with the high beam bulb from connector ❸ and remove.
- Connect the new socket with the high beam bulb to the connector.

High beam (H9/socket PGJ19-5) (📖 p. 175)

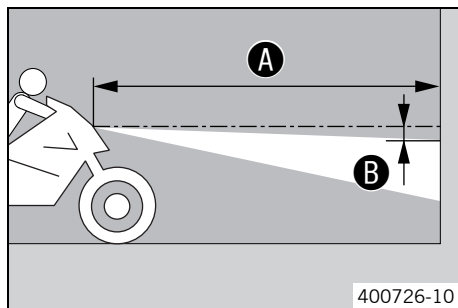


- Position the socket with the high beam bulb in the headlight housing.
- Turn the socket clockwise.
- Check that the lighting is functioning properly.

Finishing work

- Check the high beam headlight adjustment. (📖 p. 138)

15.7 Checking the low beam headlight adjustment



- 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 perpendicular to the wall at a distance **A** from the wall and switch on the low beam.

Guideline

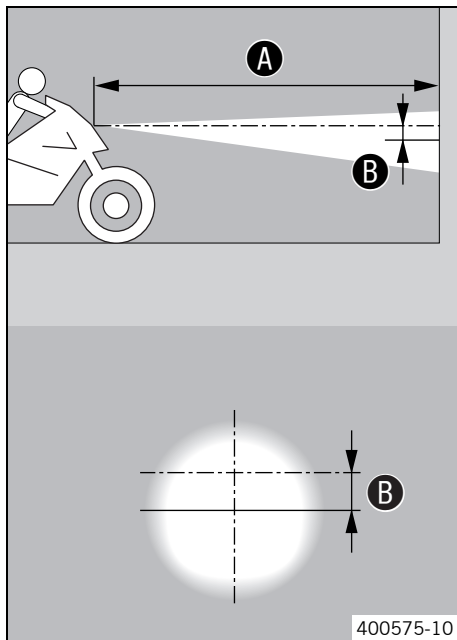
Distance A	5 m (16 ft)
-------------------	-------------

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

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 light-dark border does not meet specifications:
 - Adjust the headlight range of the low beam. (📖 p. 139)

15.8 Checking the high beam headlight adjustment



- 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 perpendicular to the wall at a distance **A** from the wall and switch on the high beam.

Guideline

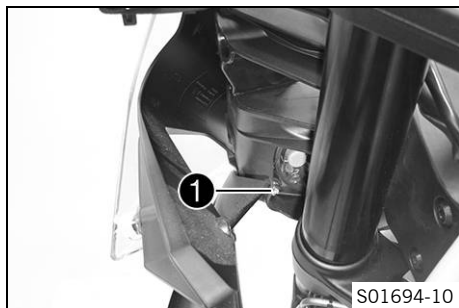
Distance A	5 m (16 ft)
-------------------	-------------

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

The center of the light cone 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 center of the light cone is not located where specified:
 - Adjust the headlight range of the high beam. (📖 p. 139)

15.9 Adjusting the headlight range of the low beam



S01694-10

Main work

- Adjust the beam range of the low beam by turning screw ①.

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 the low beam headlight setting).



Info

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

Finishing work

- Check the low beam headlight adjustment. (📖 p. 137)

15.10 Adjusting the headlight range of the high beam



S01695-10

Main work

- Adjust the beam distance of the high beam by turning screw ①.

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 the high beam headlight setting).



Info

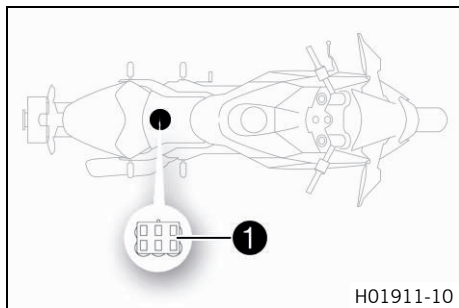
Turn clockwise to increase the headlight range; turn counterclockwise to reduce the headlight range.

Finishing work

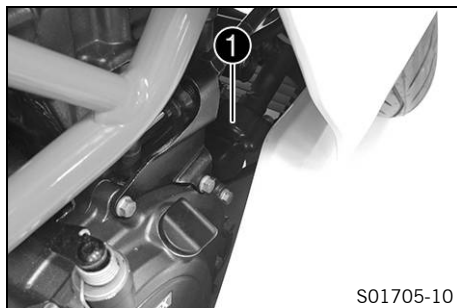
- Check the high beam headlight adjustment. (📖 p. 138)

15.11 Diagnostics connector

Diagnostics connector ❶ is located under the front rider's seat.



16.1 Cooling system

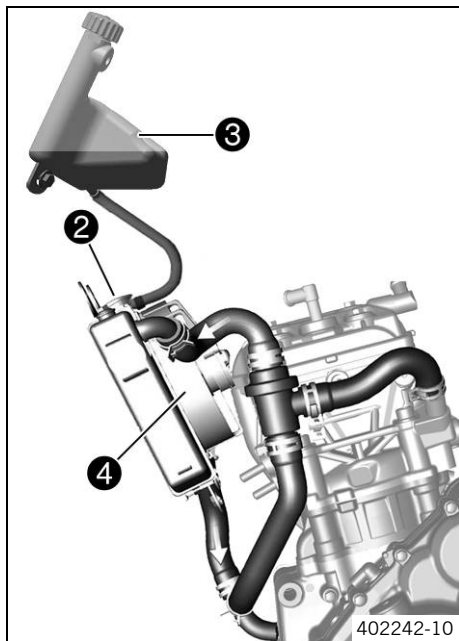


Water pump ❶ in the engine ensures forced circulation of the coolant. The pressure resulting from the warming of the cooling system is regulated by a valve in the radiator cap ❷. Heat expansion causes excess coolant to flow into compensating tank ❸. When the temperature falls, this surplus coolant is 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.

115 °C (239 °F)

16 COOLING SYSTEM

142



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.

16.2 Checking the coolant level in the compensating tank



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

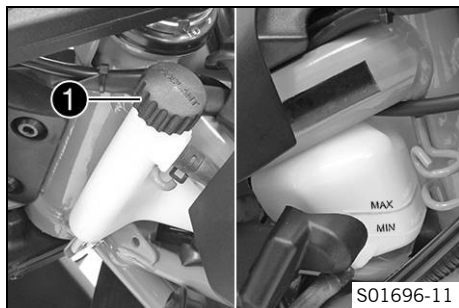
Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

The radiator is completely full.



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

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

- » If there is no coolant in the compensating tank:
 - Check the cooling system for leaks. 🛠️



Info

Do not start up the motorcycle!

- Fill/bleed the cooling system. 🛠️ (📖 p. 150)
- » If the coolant in the compensating tank is not at the required level, but the tank is not empty:
 - Correct the coolant level in the compensating tank. (📖 p. 147)

16.3 Checking the antifreeze and coolant level



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

Preparatory work

- Remove the right side cover. 🛠️ (📖 p. 100)

Main work

- Stand the motorcycle upright on a horizontal surface.
- Take off the cover ❶ of the compensating tank.
- Check the antifreeze in the coolant.

–25... -45 °C (-13... -49 °F)

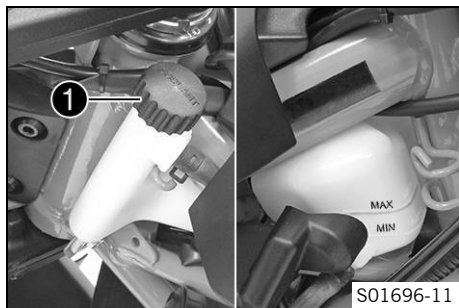
- » If the antifreeze in the coolant does not match the specified value:
 - Correct the antifreeze in the coolant.

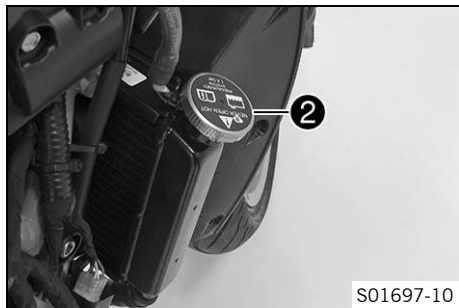
- Check the coolant level in the compensating tank.

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

- » If the coolant level does not match the specified value:
 - Correct the coolant level.

Coolant (📖 p. 181)





- Mount the cover of the compensating tank.
- Take off radiator cap ②.
- Check the antifreeze in the coolant.

-25... -45 °C (-13... -49 °F)

- » If the antifreeze in the coolant does not match the specified value:
 - Correct the antifreeze in the coolant.

- Check the coolant level in the radiator.

The radiator must be filled completely.

- » If the coolant level does not match the specified value:
 - Check the coolant level and the reason for the loss.

Coolant (📖 p. 181)

- » If you had to add more coolant than the specified amount:
 - > 0.20 l (> 0.21 qt.)
 - Fill/bleed the cooling system. 🛠️ (📖 p. 150)

- Mount the radiator cap.

Finishing work

- Install the right side cover. 🛠️ (📖 p. 101)

16.4 Correcting the coolant level in the compensating tank



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

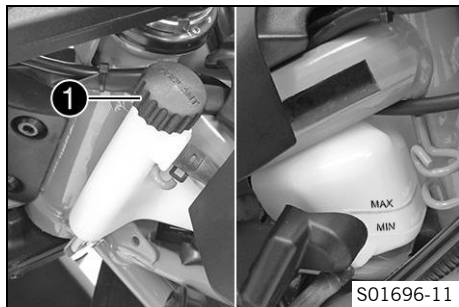
Condition

The engine is cold.

The radiator is completely full.

Preparatory work

- Check the coolant level in the compensating tank. (📖 p. 143)



Main work

- Remove cover **1** of the compensating tank.
- Add coolant to the **MAX** marking.

Coolant (📖 p. 181)

- Mount the cover of the compensating tank.

16.5 Draining the coolant 🛠



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.

Preparatory work

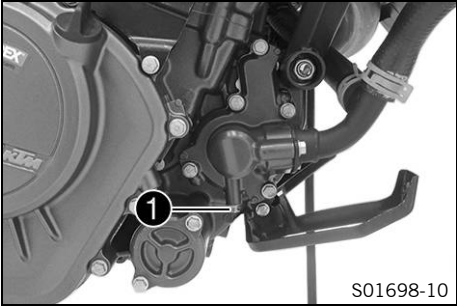
- Remove the right side cover. 🛠️ (📖 p. 100)
- Remove the left side cover. 🛠️ (📖 p. 97)
- Remove the front spoiler. (📖 p. 93)

Main work

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

Guideline

Screw plug, water pump drain hole	M6	10 Nm (7.4 lbf ft)
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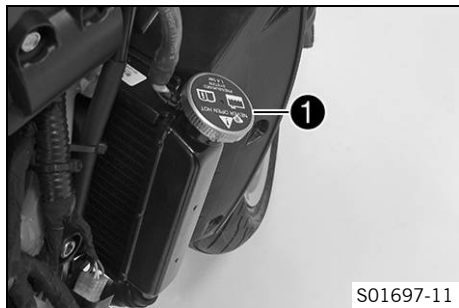
16.6 Filling/bleeding the cooling system



Warning

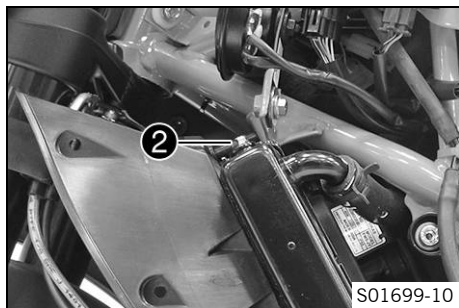
Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.



Main work

- Remove radiator cap **1**.



- Loosen bleeder screw **2**.

Guideline

3 turns

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

Coolant (📖 p. 181)

- Completely fill the radiator with coolant. Mount the radiator cap.
- Rest the vehicle on the side stand.

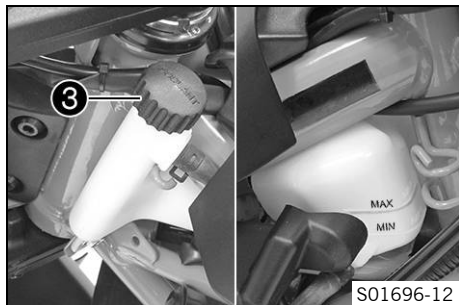


Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.

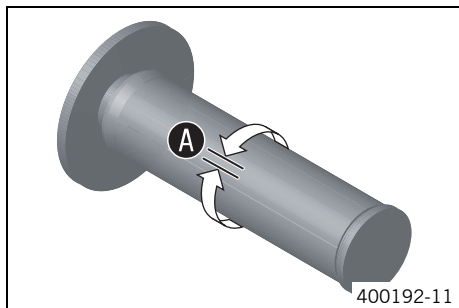
- Start the engine and let it warm up.
- Stop the engine and allow it to cool down.
- When the engine is cool, check the coolant level in the radiator and, if necessary, add coolant.
- Remove the cover **3** of the compensating tank and top up the coolant level up to the **MAX** marking.
- Mount the cap of the compensating tank.



Finishing work

- Fit the front spoiler. (📖 p. 95)
- Install the left side cover. 🛠️ (📖 p. 98)
- Install the right side cover. 🛠️ (📖 p. 101)

17.1 Checking the play in the throttle cable



- Check the throttle grip for smooth operation.
- Move the handlebar to the straight-ahead position. Turn the throttle grip back and forth slightly and determine the play in throttle cable **A**.

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

- » If the throttle cable play does not meet the specified value:
 - Adjust the play in the throttle cable. 🛠️ (📖 p. 154)



Danger

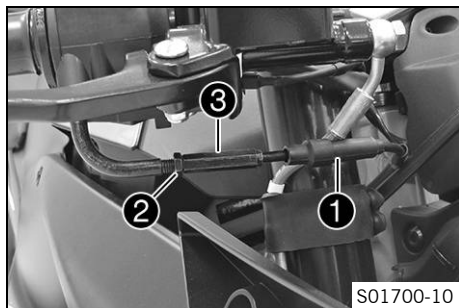
Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
 - Use an effective exhaust extraction system when starting or running the engine in an enclosed space.
-
- 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 throttle cable routing.

17.2 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)
---------------------	----------------------------

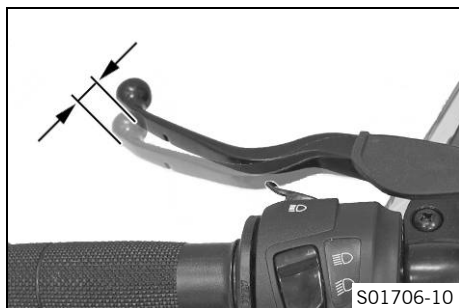
- Tighten lock nut ❷.
- Slide on sleeve ❶.

17.3 Checking the clutch lever play

Note

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

- Before operating the motorcycle, always check the clutch lever play.



- Check the clutch lever for smooth operation.
- Move the handlebar to the straight-ahead position.
- Pull the clutch lever until resistance is perceptible, and determine the play in the clutch lever A.

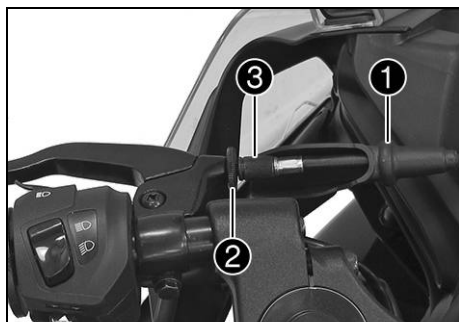
Clutch lever play A	1... 3 mm (0.04... 0.12 in)
---------------------	-----------------------------

- » If the clutch lever play does not meet the specified value:
 - Adjust play in the clutch lever. 🛠️ (📖 p. 155)
- 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.

17.4 Adjusting play in the clutch lever 🛠️



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

Guideline

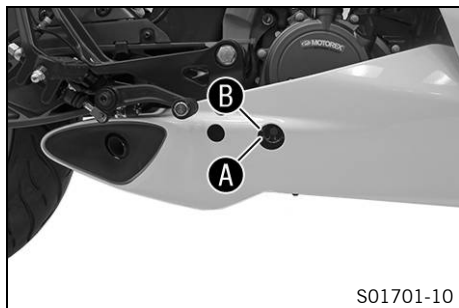
Clutch lever play A	1... 3 mm (0.04... 0.12 in)
---------------------	-----------------------------

- Tighten lock nut ❷.
- Position bellows ❶.



S01707-10

18.1 Checking the engine oil level



Condition

The engine is at operating temperature.

Preparatory 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 **A** and **B** markings .

- » When the engine oil level is below the **A** marking:
 - Add the engine oil. (📖 p. 159)
- » When the engine oil level is above the **B** marking:
 - Correct the engine oil level.

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



Warning

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

- Wear suitable protective clothing and safety gloves.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Warning

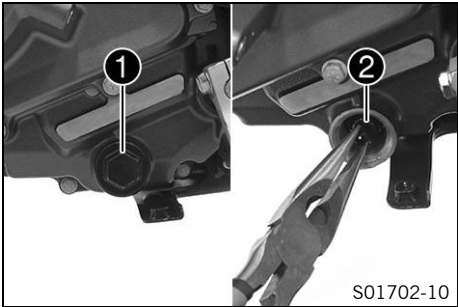
Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



Info

Drain the engine oil while the engine is at operating temperature.



Preparatory work

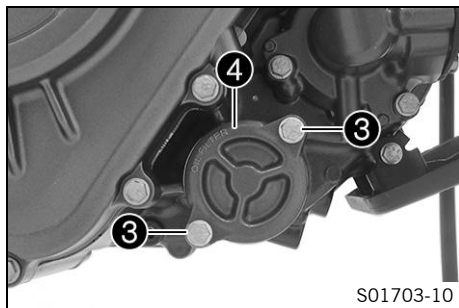
- Remove the right side cover. 🛠️ (📖 p. 100)
- Remove the left side cover. 🛠️ (📖 p. 97)
- Remove the front spoiler. (📖 p. 93)
- Stand the motorcycle on its side stand on a horizontal surface.

Main work

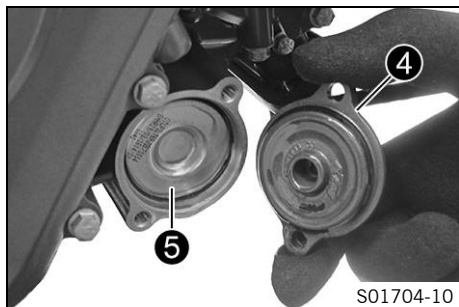
- Place a suitable container under the engine.
- Remove oil drain plug ❶ with the O-ring.
- Remove oil screen ❷ with the O-ring.
- Completely drain the engine oil.
- Clean the oil drain plug and oil screen thoroughly.
- Position oil screen ❷ and mount and tighten oil drain plug ❶ with the O-ring.

Guideline

Oil drain plug	M24x1.5	15 Nm (11.1 lbf ft)
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- Remove screws (3). Remove oil filter cover (4) with the O-ring.



- Pull oil filter (5) out of the oil filter housing.
- Completely drain the engine oil.
- Thoroughly clean the parts and sealing surface.
- Insert new oil filter (5).
- Lubricate the O-ring of the oil filter cover. Mount oil filter cover (4).
- Mount and tighten screws (3).

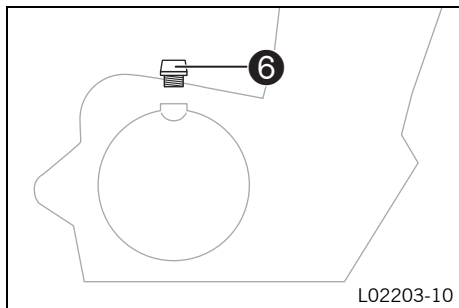
Guideline

Screw, oil filter cover	M6	12 Nm (8.9 lbf ft)
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Info

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



- Remove filler plug **6** and the O-ring from the clutch cover, and fill up with engine oil.

Engine oil	1.5 l (1.6 qt.)	Outside temperature: 0... 50 °C (32... 122 °F)	Engine oil (SAE 15W/50) (📖 p. 182)
		Outside temperature: -10... 40 °C (14... 104 °F)	Engine oil (SAE 10W/40) (📖 p. 182)

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



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.

- Start the engine and check that it is oil-tight.

Finishing work

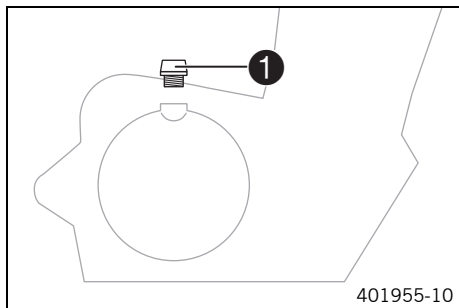
- Fit the front spoiler. (📖 p. 95)
- Install the left side cover. 🛠️ (📖 p. 98)
- Install the right side cover. 🛠️ (📖 p. 101)
- Check the engine oil level. (📖 p. 156)

18.3 Adding engine oil



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. 182)

Engine oil (SAE 10W/40) (📖 p. 182)



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 the O-ring.



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.

- Start the engine and check that it is oil-tight.

Finishing work

- Check the engine oil level. (📖 p. 156)

19.1 Cleaning the motorcycle

Note

Material damage Components become damaged or destroyed if a pressure cleaner is used incorrectly.

The high pressure forces water into the electrical components, connectors, throttle cables, and bearings, etc. Pressure which is too high causes malfunctions and destroys components.

- Do not direct the water jet directly on to electrical components, connectors, throttle cables or bearings.
- Maintain a minimum distance between the nozzle of the pressure cleaner and the component.

Minimum clearance 60 cm (23.6 in)



Warning

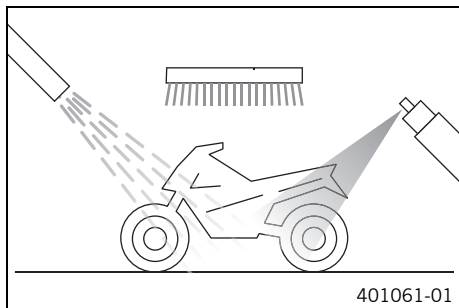
Environmental hazard Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the 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. 184)



Info

Use warm water containing normal motorcycle cleaner and a soft sponge. Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first. 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.
- Remove the closure of the exhaust system.



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- After cleaning, ride the vehicle a short distance until the engine warms up.



Info

The heat produced causes water at inaccessible locations in the engine and on the brake system 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. 85)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Preserving materials for paints, metal and rubber (📖 p. 185)

- Treat all painted parts with a mild paint polish.

Perfect Finish and high gloss polish for paints (📖 p. 185)



Info

Do not polish parts that were matte when delivered as this would strongly impair the material quality.

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

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces
(📖 p. 185)

- Oil the ignition/steering lock.

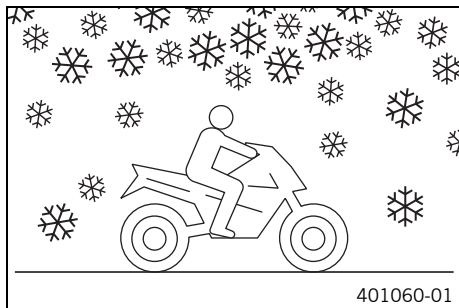
Universal oil spray (📖 p. 185)

19.2 Checks and maintenance steps for winter operation



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. 161)
- Clean the brakes.



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.



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. 85)

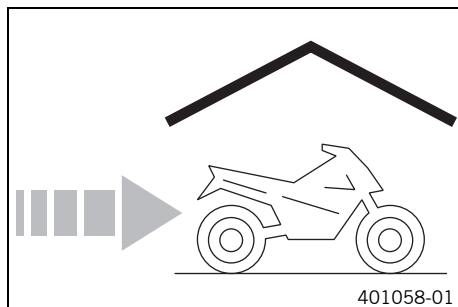
20.1 Storage



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.



- When refueling for the last time before taking the motorcycle out of service, add fuel additive.

Fuel additive (📖 p. 184)

- Refuel. (📖 p. 69)
- Clean the motorcycle. (📖 p. 161)
- Change the engine oil and oil filter, clean the oil screen. 🛠️ (📖 p. 156)
- Check the antifreeze and coolant level. (📖 p. 144)
- Check the tire air pressure. (📖 p. 124)
- Remove the battery. 🛠️ (📖 p. 126)
- Recharge the battery. 🛠️ (📖 p. 128)

Guideline

Storage temperature of battery without direct sunlight

0... 35 °C (32... 95 °F)

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



Info

KTM recommends jacking up the motorcycle.

- Raise the motorcycle with the rear lifting gear. (📖 p. 78)

- Lift the motorcycle with the front lifting gear. (📖 p. 79)
- Cover the motorcycle with a tarp or similar cover that is permeable to air.

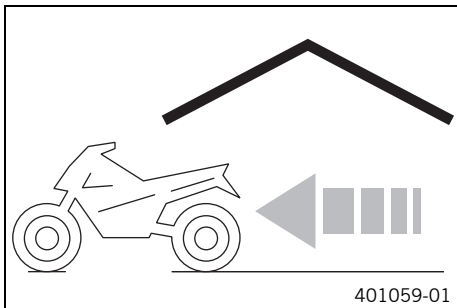


Info

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

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

20.2 Preparing for use after storage



- Take the motorcycle off of the front wheel stand. (📖 p. 80)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 78)
- Install the battery. 🛠️ (📖 p. 127)
- Set the clock. (📖 p. 54)
- Perform checks and maintenance steps when preparing for use. (📖 p. 60)
- Take a test ride.

Faults	Possible cause	Action
Engine does not crank when the electric starter button is pressed	Operating error	– Carry out the start procedure. (📖 p. 61)
	Battery discharged	– Recharge the battery. 🛠️ (📖 p. 128)
	Fuse 1 , 3 , 4 , or 7 is blown	– Change the fuses of individual power consumers. (📖 p. 131)
	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	– Carry out the start procedure. (📖 p. 61)
	Fault 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. 🛠️
	Fault 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 in the compensating tank. (📖 p. 143)
	Radiator fins very dirty	– Clean the radiator fins.
	Foam formation in cooling system	– Drain the coolant. 🛠️ (📖 p. 148) – Fill/bleed the cooling system. 🛠️ (📖 p. 150)
	Thermostat defective	– Check the thermostat. 🛠️
	Fuse 5 blown	– Change the fuses of individual power consumers. (📖 p. 131)
	Defect in radiator fan system	– Check the radiator fan system. 🛠️

Faults	Possible cause	Action
Malfunction indicator lamp lights up yellow	Fault in fuel injection system	– Read out the fault memory using the KTM diagnostics tool. 🛠️
Engine dies during the trip	Lack of fuel	– Refuel. (📖 p. 69)
	Fuse 1 , 3 , 4 , or 7 is blown	– Change the fuses of individual power consumers. (📖 p. 131)
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. 156)
	Engine oil too thin (low viscosity)	– Change the engine oil and oil filter, clean the oil screen. 🛠️ (📖 p. 156)
Headlight and parking light are not functioning	Fuse 6 blown	– Change the fuses of individual power consumers. (📖 p. 131)
Turn signal, brake light, and horn are not functional	Fuse 6 blown	– Change the fuses of individual power consumers. (📖 p. 131)
Battery discharged	Ignition was not switched off when vehicle was parked	– Recharge the battery. 🛠️ (📖 p. 128)
	Battery is not being charged by alternator	– Check the charging voltage. 🛠️ – Check the open-circuit current. 🛠️
The combination instrument shows nothing on the display	Fuse 2 blown	– Change the fuses of individual power consumers. (📖 p. 131) – Set the clock. (📖 p. 54)
Speedometer in combination instrument not functioning	Speedometer wiring harness is damaged or plug-in connector is oxidized	– Check the wiring harness and plug-in connector.

22.1 Engine

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 compression 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, 296 W
Spark plug	BOSCH Super R6 VR 5 NE
Spark plug electrode gap	0.8 mm (0.031 in)
Spark plug	BOSCH Super R6 VR 5 NEW
Spark plug electrode gap	1 mm (0.04 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Idle speed	1,450... 1,550 rpm
Starting aid	Electric starter

22.2 Engine tightening torques

Oil nozzle	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, engine vent plate	M5	7 Nm (5.2 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	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw plug, water pump drain hole	M6	10 Nm (7.4 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 support	M6	10 Nm (7.4 lbf ft)	–
Screw, chain securing guide	M6	10 Nm (7.4 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, engine sprocket	M6	12 Nm (8.9 lbf ft)	–
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 filter cover	M6	12 Nm (8.9 lbf ft)	–
Screw, oil pump	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, retaining bracket	M6	12 Nm (8.9 lbf ft)	Loctite® 243™
Screw, retaining bracket, shaft seal ring, clutch cover	M6	12 Nm (8.9 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)	–
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)	–
Screw, conrod bearing	M7	24 Nm (17.7 lbf ft)	–
Nut, exhaust flange	M8	22 Nm (16.2 lbf ft)	–
Nut, manifold on cylinder head	M8	8 Nm (5.9 lbf ft)	–
Screw, balancer shaft gear	M8	40 Nm (29.5 lbf ft)	Loctite® 243™

Screw, camshaft drive sprocket	M8	32 Nm (23.6 lbf ft)	Loctite® 243™
Screw, return spring, quick shifter	M8	20 Nm (14.8 lbf ft)	Loctite® 243™
Stud, exhaust flange	M8	22 Nm (16.2 lbf ft)	–
Oil pressure sensor	M10	14 Nm (10.3 lbf ft)	–
Rotor screw	M10	70 Nm (51.6 lbf ft)	Loctite® 243™
Screw, cylinder head	M10	Step 1 25 Nm (18.4 lbf ft) Step 2 50 Nm (36.9 lbf ft)	Thread is oiled, head flat is greased
Water temperature sensor	M10	14 Nm (10.3 lbf ft)	–
Screw plug, cam lever axis	M10x1	10 Nm (7.4 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/timing chain sprocket	M14	55 Nm (40.6 lbf ft)	Loctite® 243™
Oil drain plug	M24x1.5	15 Nm (11.1 lbf ft)	–

22.3 Capacities

22.3.1 Engine oil

Engine oil	1.5 l (1.6 qt.)	Outside temperature: 0... 50 °C (32... 122 °F)	Engine oil (SAE 15W/50) (📖 p. 182)
		Outside temperature: –10... 40 °C (14... 104 °F)	Engine oil (SAE 10W/40) (📖 p. 182)

22.3.2 Coolant

Coolant	1 l (1 qt.)	Coolant (📖 p. 181)
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22.3.3 Fuel

Total fuel tank capacity, approx.	10 l (2.6 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (📖 p. 183)
Fuel reserve, approx.	1.5 l (1.6 qt.)	

22.4 Chassis

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	125 mm (4.92 in)	
Rear	150 mm (5.91 in)	
Brake discs - diameter		
Front	300 mm (11.81 in)	
Rear	230 mm (9.06 in)	
Brake discs - wear limit		
Front	4.5 mm (0.177 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	14:42
Chain	5/8 x 1/4" (520) O-ring
Steering head angle	66.5°
Wheelbase	1,340±15 mm (52.76±0.59 in)
Seat height, unloaded	820 mm (32.28 in)
Ground clearance, unloaded	178 mm (7.01 in)
Dry weight	137.5 kg (303.1 lb.)
Maximum permissible front axle load	125 kg (276 lb.)
Maximum permissible rear axle load	210 kg (463 lb.)
Maximum permissible overall weight	335 kg (739 lb.)

22.5 Electrical system

Battery	ETZ-9-BS	Battery voltage: 12 V Nominal capacity: 8 Ah Maintenance-free
Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	90111088025	25 A
Fuse	75011088030	30 A
Low beam	H11/socket PGJ19-2	12 V 55 W

High beam	H9/socket PGJ19-5	12 V 65 W
Parking light	LED	
Instrument lights and indicator lamps	LED	
Turn signal	LED	
Brake/tail light	LED	
License plate lamp	LED	

22.6 Tires

Front tires	Rear tires
110/70 R 17 M/C 54S TL MRF revz FC	150/60 R 17 M/C 66S TL MRF revz C
110/70 R 17 M/C 54H TL Michelin Pilot Power Street	150/60 R 17 M/C 66H TL Michelin Pilot Power Street
The tires specified represent one of the possible series production tires. Additional information is available in the Service section under: http://www.ktm.com	

22.7 Fork

Fork article number	93501001000	
Fork	WP Suspension	
Fork length	736 mm (28.98 in)	
Fork oil	460 ml (15.55 fl. oz.)	Fork oil (SAE 5) (📖 p. 183)

22.8 Shock absorber

Shock absorber article number	90504010100
Shock absorber	WP Suspension
Spring preload	
Standard	5 clicks
Static sag	15 mm (0.59 in)
Riding sag	45... 50 mm (1.77... 1.97 in)
Fitted length	300 mm (11.81 in)

22.9 Chassis tightening torques

Exhaust clamp	-	19 Nm (14 lbf ft)	–
Screw, chain guard	EJOT PT® K60x30	4 Nm (3 lbf ft)	–
Remaining nuts, chassis	M4	3 Nm (2.2 lbf ft)	–
Remaining screws, chassis	M4	4 Nm (3 lbf ft)	–
Screw, engine electronics control unit	M4	3 Nm (2.2 lbf ft)	–
Nut, reflector on retaining plate	M5	7 Nm (5.2 lbf ft)	–
Nut, retaining plate on license plate holder	M5	4 Nm (3 lbf ft)	–
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)	–
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)	–
Screw, anti-rotation lock, handlebar stub	M5	4 Nm (3 lbf ft)	–
Screw, battery compartment	M5	4 Nm (3 lbf ft)	–
Screw, chain guard	M5	7 Nm (5.2 lbf ft)	Loctite® 204™

Screw, cover in front of battery compartment	M5	4 Nm (3 lbf ft)	–
Screw, fuel pump	M5	5 Nm (3.7 lbf ft)	–
Screw, fuel tank cover	M5	5 Nm (3.7 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, tail end lower part	M5	4 Nm (3 lbf ft)	–
Cap bolt, footrest	M6	9 Nm (6.6 lbf ft)	–
Nut, foot brake lever adjustment	M6	9 Nm (6.6 lbf ft)	–
Nut, license plate bracket	M6	8.5 Nm (6.27 lbf ft)	–
Nut, shift rod	M6	10 Nm (7.4 lbf ft)	–
Nut, shift rod	M6LH	10 Nm (7.4 lbf ft)	–
Nut, tail light	M6	7 Nm (5.2 lbf ft)	–
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	–
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	–
Screw, air filter box lid	M6	3 Nm (2.2 lbf ft)	–
Screw, air filter box, on frame	M6	6 Nm (4.4 lbf ft)	–
Screw, battery compartment	M6	6 Nm (4.4 lbf ft)	–
Screw, brake fluid container, front brake	M6	8 Nm (5.9 lbf ft)	–
Screw, brake fluid container, rear brake	M6	7 Nm (5.2 lbf ft)	–
Screw, brake line guide on bottom triple clamp	M6	7 Nm (5.2 lbf ft)	Loctite® 243™
Screw, cable holder, side stand switch	M6	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, chain guard	M6	7 Nm (5.2 lbf ft)	–
Screw, chain sliding guard	M6	7 Nm (5.2 lbf ft)	–

Screw, compensating tank	M6	9 Nm (6.6 lbf ft)	–
Screw, engine sprocket cover on frame	M6	7 Nm (5.2 lbf ft)	–
Screw, foot brake cylinder	M6	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, footrest bracket	M6	7 Nm (5.2 lbf ft)	–
Screw, front fender on axle clamp	M6	7 Nm (5.2 lbf ft)	–
Screw, front fender, top side	M6	7 Nm (5.2 lbf ft)	–
Screw, front mask	M6	7 Nm (5.2 lbf ft)	–
Screw, front mask structure on headlight bracket	M6	6 Nm (4.4 lbf ft)	–
Screw, front seat fixing	M6	6 Nm (4.4 lbf ft)	–
Screw, front spoiler	M6	7 Nm (5.2 lbf ft)	–
Screw, front spoiler retaining bracket, rear	M6	6 Nm (4.4 lbf ft)	–
Screw, front spoiler retaining bracket, rear, on engine	M6	9 Nm (6.6 lbf ft)	–
Screw, front spoiler, right, on footrest bracket	M6	7 Nm (5.2 lbf ft)	–
Screw, ground cable, on frame	M6	7 Nm (5.2 lbf ft)	–
Screw, handlebar stub	M6	7 Nm (5.2 lbf ft)	Loctite® 243™
Screw, ignition coil	M6	9 Nm (6.6 lbf ft)	–
Screw, ignition lock	M6	11 Nm (8.1 lbf ft)	–
Screw, license plate holder on license plate bracket	M6	7 Nm (5.2 lbf ft)	–
Screw, magnetic holder on side stand	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, mirror holder	M6	9 Nm (6.6 lbf ft)	–
Screw, passenger seat	M6	7 Nm (5.2 lbf ft)	–

Screw, radiator air inlet, on frame	M6	6 Nm (4.4 lbf ft)	–
Screw, radiator holder	M6	6 Nm (4.4 lbf ft)	–
Screw, rear fender	M6	7 Nm (5.2 lbf ft)	–
Screw, retaining bracket, EFI control unit	M6	6 Nm (4.4 lbf ft)	–
Screw, shift lever linkage	M6	11 Nm (8.1 lbf ft)	Loctite® 243™
Screw, side cover	M6	7 Nm (5.2 lbf ft)	–
Screw, side cover on front mask	M6	6 Nm (4.4 lbf ft)	–
Screw, voltage regulator	M6	11 Nm (8.1 lbf ft)	–
Screw, voltage regulator holder	M6	11 Nm (8.1 lbf ft)	–
Screw, windshield	M6	9 Nm (6.6 lbf ft)	–
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	–
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	–
Screw, chain guard	M8	11 Nm (8.1 lbf ft)	–
Screw, engine bearer on frame	M8	24 Nm (17.7 lbf ft)	–
Screw, foot brake lever	M8	17 Nm (12.5 lbf ft)	Loctite® 243™
Screw, front brake disc	M8	30 Nm (22.1 lbf ft)	Loctite® 243™
Screw, front wheel spindle	M8	26 Nm (19.2 lbf ft)	–
Screw, fuel tank attachment, rear, on frame	M8	16 Nm (11.8 lbf ft)	–
Screw, horn	M8	7 Nm (5.2 lbf ft)	–
Screw, main silencer	M8	24 Nm (17.7 lbf ft)	–
Screw, passenger footrest bracket	M8	26 Nm (19.2 lbf ft)	Loctite® 243™
Screw, rear brake disc	M8	30 Nm (22.1 lbf ft)	Loctite® 243™
Screw, shift lever	M8	17 Nm (12.5 lbf ft)	Loctite® 243™

Screw, top triple clamp	M8	15 Nm (11.1 lbf ft)	–
Screw, front brake caliper	M8x1	30 Nm (22.1 lbf ft)	Loctite® 204™
Banjo bolt, brake line	M10	24 Nm (17.7 lbf ft)	–
Fitting, engine mounting bracket	M10	45 Nm (33.2 lbf ft)	–
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Fitting, shock absorber, bottom	M10x1.25	50 Nm (36.9 lbf ft)	Loctite® 243™
Nut, rear sprocket screw	M10x1.25	27 Nm (19.9 lbf ft)	Loctite® 243™
Screw, front footrest bracket / engine bearer	M10x1.25	49 Nm (36.1 lbf ft)	–
Screw, side stand bracket	M10x1.25	33 Nm (24.3 lbf ft)	Loctite® 243™
Stud, rear sprocket	M10x1.25	50 Nm (36.9 lbf ft)	–
Nut, rear wheel spindle	M14x1.5	90 Nm (66.4 lbf ft)	–
Screw, top steering head	M16x1.5	52 Nm (38.4 lbf ft)	Loctite® 204™
Lambda sensor	M18x1.5	20 Nm (14.8 lbf ft)	–

Brake fluid DOT 4 / DOT 5.1

Standard/classification

- DOT

Guideline

- Use only brake fluid that complies with the specified standard (see specifications on the container) and that exhibits the corresponding properties.

Recommended supplier

Castrol

- REACT PERFORMANCE DOT 4

Motorex®

- Brake Fluid DOT 5.1

Coolant

Guideline

- Only use high-grade, silicate-free coolant with corrosion inhibitor additive for aluminum motors. Low grade and unsuitable antifreeze causes corrosion, deposits and frothing.
- Do not use pure water as only coolant is able to meet the requirements needed in terms of corrosion protection and lubrication properties.
- Only use coolant that complies with the requirements stated (see specifications on the container) and that has the relevant properties.

Antifreeze protection to at least	–25 °C (–13 °F)
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The mixture ratio must be adjusted to the necessary antifreeze protection. Use distilled water if the coolant needs to be diluted.

The use of premixed coolant is recommended.

Observe the coolant manufacturer specifications for antifreeze protection, dilution and miscibility (compatibility) with other coolants.

Recommended supplier

Motorex®

- COOLANT M3.0

Engine oil (SAE 15W/50)

Standard/classification

- JASO T903 MA (📖 p. 186)
- SAE (📖 p. 186) (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.

Partially synthetic engine oil

Recommended supplier

Motorex®

- Formula 4T

Engine oil (SAE 10W/40)

Standard/classification

- JASO T903 MA (📖 p. 186)
- SAE (📖 p. 186) (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.

Partially synthetic engine oil

Recommended supplier

Motorex®

- Formula 4T

Fork oil (SAE 5)

Standard/classification

- SAE (📖 p. 186) (SAE 5)

Guideline

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

Recommended supplier

Motorex®

- Racing Fork Oil

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

Standard/classification

- 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

Recommended supplier

Motorex®

- Chain Clean

Chain lube for road use

Guideline

Recommended supplier

Motorex®

- Chainlube Road

Fuel additive

Recommended supplier

Motorex®

- Fuel Stabilizer

Long-life grease

Recommended supplier

Motorex®

- Bike Grease 2000

Motorcycle cleaner

Recommended supplier

Motorex®

- Moto Clean

Perfect Finish and high gloss polish for paints

Recommended supplier

Motorex®

- Moto Polish & Shine

Preserving materials for paints, metal and rubber

Recommended supplier

Motorex®

- Moto Protect

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces

Recommended supplier

Motorex®

- Quick Cleaner

Universal oil spray

Recommended supplier

Motorex®

- Joker 440 Synthetic

JASO T903 MA

Different technical development directions required a separate 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, the focus for motorcycle engines is on high performance at high engine speeds.

In most motorcycle engines, the transmission and the clutch are lubricated with the same oil.

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.

26 LIST OF ABBREVIATIONS

187

Art. no.	Article number
ca.	circa
cf.	compare
e.g.	for example
etc.	et cetera
i.a.	inter alia
no.	number
poss.	possibly

27.1 Red symbols

Red symbols indicate an error condition that requires immediate intervention.

	The immobilizer indicator lamp lights up or flashes red – Status or error message for immobilizer/alarm system (optional).
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27.2 Yellow and orange symbols

Yellow and orange symbols indicate an error condition that requires prompt intervention. Active driving aids are also represented by yellow or orange symbols.

	Malfunction indicator lamp lights up yellow – The OBD (on-board diagnosis) has detected an emission- or safety-critical error.
	The general warning lamp lights up yellow – An operating safety (warning) message was detected. This is also shown in the info display.

27.3 Green and blue symbols

Green and blue symbols reflect information.

	The turn signal indicator lamp flashes green simultaneously with the turn signal – The turn signal is switched on.
	The idle indicator lamp lights up green – The transmission is in idle.
	The high beam indicator lamp lights up blue – The high beam is switched on.

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KTM Sportmotorcycle GmbH
5230 Mattighofen/Austria
<http://www.ktm.com>

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