

1390 SUPER DUKE R EVO

ART. NO. 3214945EN



KTM

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 riding this vehicle!

Enter the serial numbers of your vehicle below.

Vehicle identification number (📖 p. 14)	Dealer's stamp
Engine number (📖 p. 14)	

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

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This document is valid for the following models:

1390 SUPER DUKE R EVO EU (F9903XS, F9903XT)

1390 SUPER DUKE R EVO JP (F9986XS, F9986XT)

1390 SUPER DUKE R EVO CN (F9987XS, F9987XT)



3214945en

12.02.2024

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














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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).
	Indicates work that requires expert knowledge and technical understanding. In the interest of your own safety, have these jobs performed by an authorized KTM workshop! Your motorcycle will be cared for there to the highest degree by specially trained experts using the special 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.
	Indicates the end of an activity, including potential reworking.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name	Indicates a proprietary name.
Name®	Indicates a protected name.
Brand™	Indicates a brand available on the open market.
<u>Underlined terms</u>	Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary.

2.1 Use definition – intended use

The vehicle is designed and constructed to withstand the usual demands of regular traffic and use on race courses. This vehicle is not suitable for offroad use.



Info

This vehicle is only authorized for operation on public roads in its homologated version.

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 product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or 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

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



Warning

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



Caution

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

Note

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



Note

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 servicing, 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 silencers, 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 parts of the vehicle, or parts of the exhaust system 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 effective exhaust extraction when starting or running the engine in an enclosed space.



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, damper, 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.

The vehicle should only be used by trained persons. 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

Unless specified otherwise, the ignition must be turned off during all work (models with ignition lock, models with transponder key) or the motor must be at a standstill (models without ignition lock or transponder key). Special tools are necessary for certain tasks. If these special tools are not included in the scope of supply of the vehicle, the special tools can be ordered using the specified article number. Example: bearing puller (15112017000)

Unless otherwise noted, normal conditions apply to all tasks and descriptions.

Ambient temperature	20 °C (68 °F)
Ambient air pressure	1,013 mbar (14.69 psi)
Relative air humidity	60 ± 5 %

During assembly, use new parts to replace parts which cannot be reused (e.g. self-locking screws and nuts, expansion screws, seals, sealing rings, O-rings, pins, and lock washers).

In the case of certain screw connections, a thread locker (e.g., **Loctite®**) is required. Observe the manufacturer's instructions.

If a thread locker (e.g. **Precote®**) has already been applied to a new part, do not apply any additional thread locker.

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

Ensure that the work area is clean and clean components before disassembly if necessary. Penetrating dirt can lead to increased wear and consequential damage.

After completing a 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

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 service your motorcycle. This is the only way to find out how best to customize the vehicle for your own use and how you can protect yourself from injury.



Tip

Store the Owner's Manual on your terminal device, for example, so that you can read it whenever you need to.

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. If the vehicle is sold, the Owner's Manual must be downloaded again by the new owner.

The Owner's Manual can be downloaded several times using the QR code or the link on the delivery certificate.

The Owner's Manual is also available for download from your authorized KTM dealer and on the KTM website. A printed copy can also be ordered from your authorized KTM dealer.

International KTM Website: KTM.COM

3.1 Manufacturer warranty, implied warranty

The work prescribed in the service schedule must be carried out in an authorized KTM workshop only and confirmed in the electronic proof of service, since otherwise no warranty claims will be recognized. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the manufacturer warranty.

3.2 Fuel, auxiliary substances



Note

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 fuels and auxiliary substances in accordance with the Owner's Manual and specification.

3.3 Spare parts, technical 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 latest news **KTM PowerParts** on your vehicle can be found on the KTM website.

International KTM Website: 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. An incorrect suspension setting can lead to damage and breakage of chassis components.

Use of the vehicle under difficult conditions, such as dusty environments, heavy rain, high heat or with a heavy load, can lead to considerably more rapid wear of components such as the air filter, 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.

The relevant mileage or time interval is whichever occurs first.

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

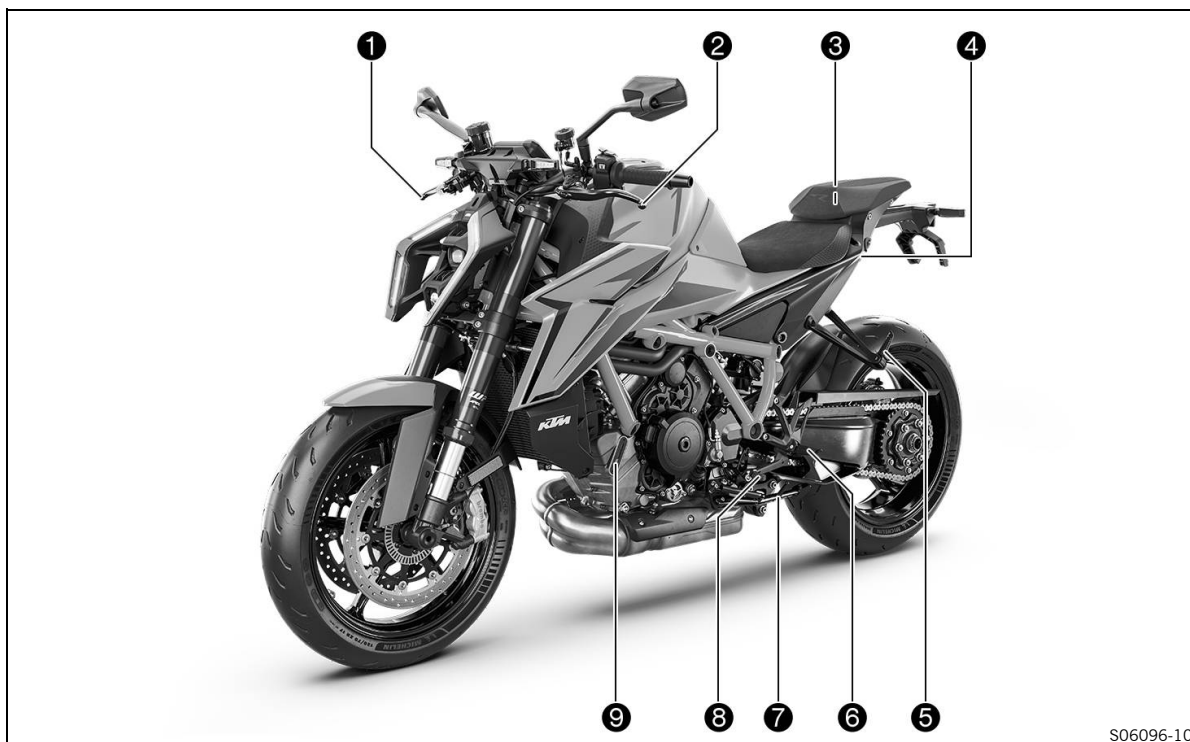
Your authorized KTM dealer will be happy to answer any questions you may have on your vehicle and KTM.

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

International KTM Website: KTM.COM

4 VIEW OF VEHICLE

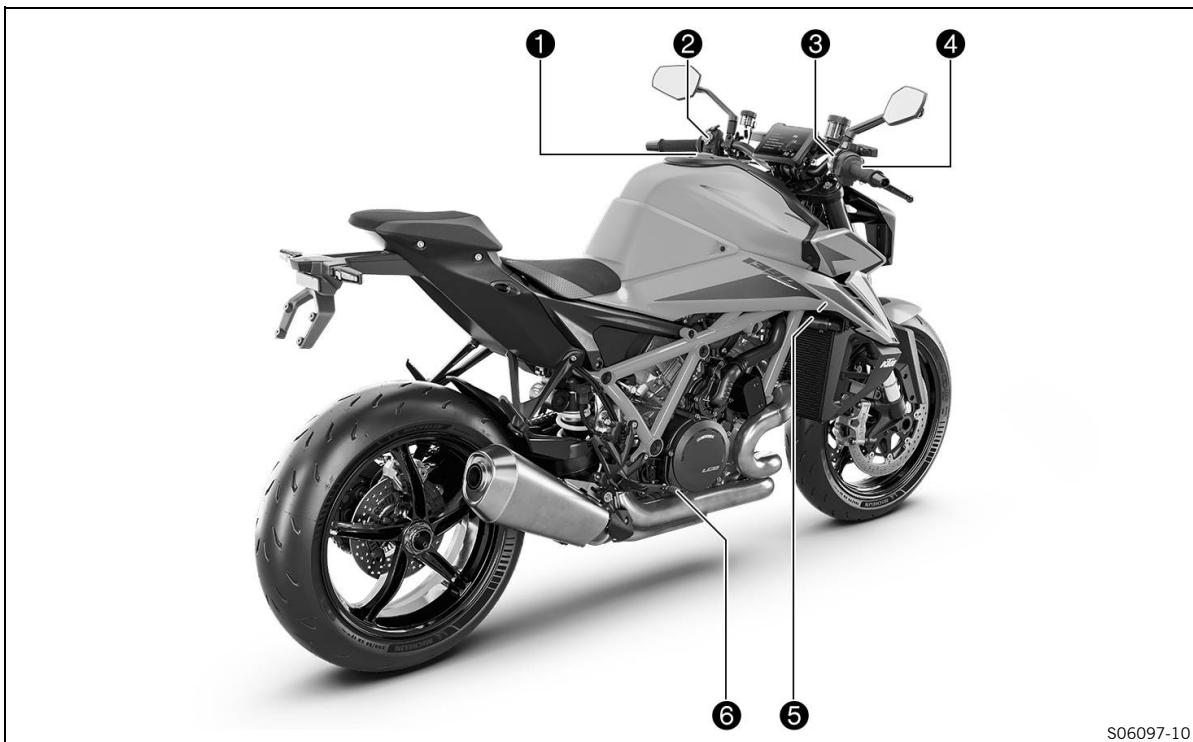
4.1 View of vehicle, front left (example)



S06096-10

- ❶ Hand brake lever (📖 p. 16)
- ❷ Clutch lever (📖 p. 16)
- ❸ Supporting strap (📖 p. 25)
- ❹ Tool set (📖 p. 25)
- ❺ Passenger seat unlocking (📖 p. 25)
- ❻ Passenger foot pegs (📖 p. 26)
- ❼ Rider footrests
- ❽ Side stand (📖 p. 27)
- ❾ Shift lever (📖 p. 26)
- ❿ Engine oil level viewer

4.2 View of vehicle, rear right (example)

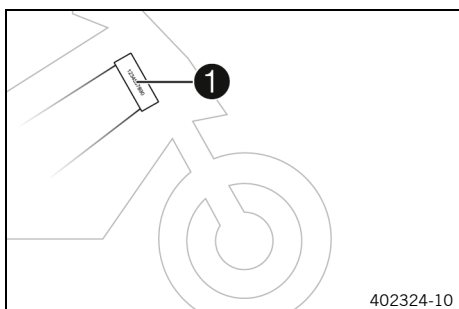


S06097-10

- ❶ Fuel tank filler cap
- ❷ Combination switch, left side (📖 p. 16)
- ❸ Start button/emergency OFF switch (📖 p. 20)
- ❹ Unlock button (📖 p. 21)
- ❺ Hazard warning flasher switch (📖 p. 20)
- ❻ C1 and C2 switch (📖 p. 21)
- ❼ Throttle grip (📖 p. 16)
- ❽ Cooling system compensating tank
- ❾ Foot brake lever (📖 p. 26)

5 SERIAL NUMBERS

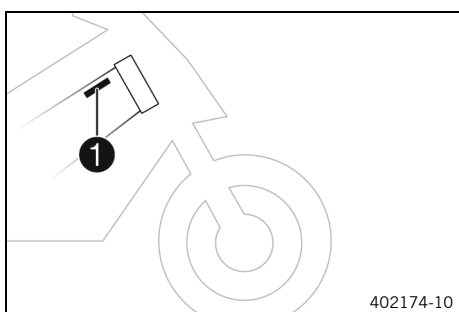
5.1 Vehicle identification number



The vehicle identification number **1** is stamped on the right side of the steering head.

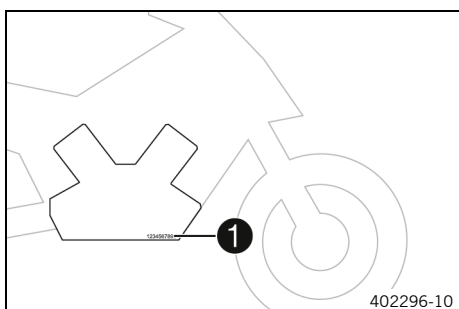
The vehicle identification number is also shown on the type label.

5.2 Type label



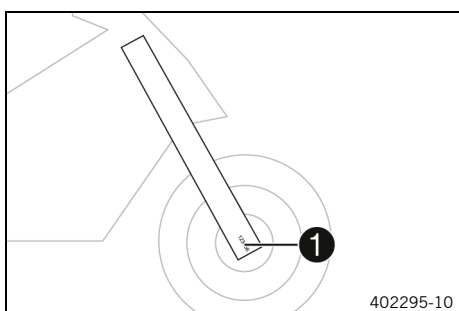
Type label **1** is applied to the right frame tube.

5.3 Engine number



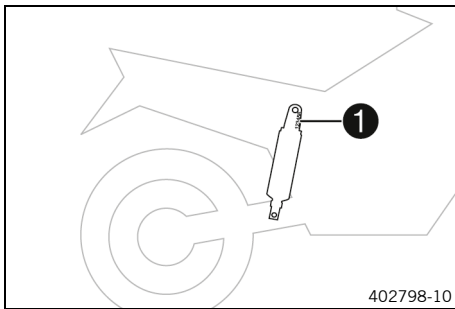
The engine number **1** is stamped on the right side of the engine.

5.4 Fork part number



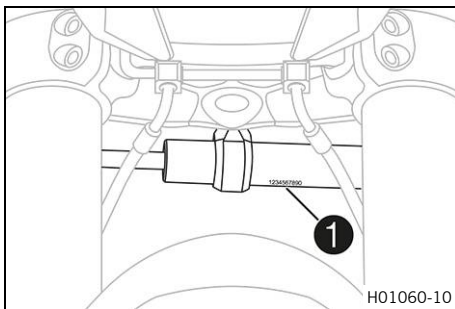
The fork part number **1** is stamped on the inside of the axle clamp.

5.5 Shock absorber article number



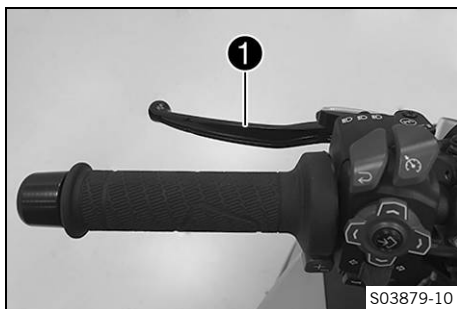
The shock absorber article number **1** is stamped on the top of the shock absorber above the adjusting ring towards the engine side.

5.6 Steering damper article number



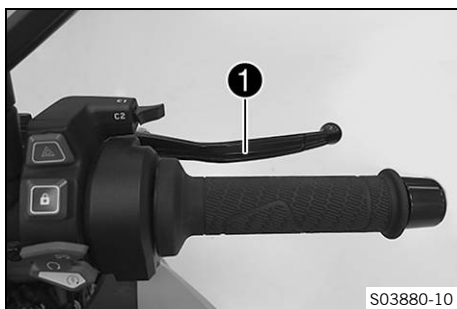
Steering damper item number **1** is embossed on the underside of the steering damper.

6.1 Clutch lever



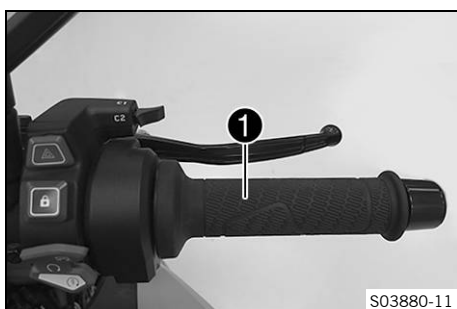
Clutch lever **1** is fitted on the handlebar on the left.
The clutch is activated hydraulically and adjusts itself automatically.

6.2 Hand brake lever



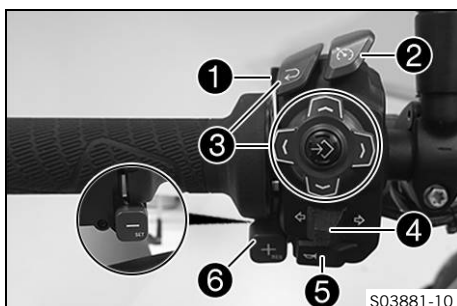
The hand brake lever **1** is fitted on the right side of the handlebar.
The front brake is engaged using the hand brake lever.

6.3 Throttle grip



The throttle grip **1** is fitted on the right side of the handlebar.

6.4 Combination switch, left side

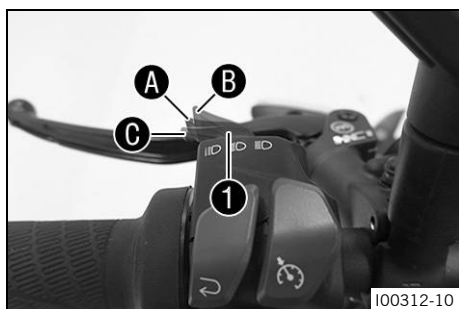


The left combination switch is fitted on the left side of the handlebar.

Overview of the left combination switch

- 1** Light switch (📖 p. 17)
- 2** Cruise control buttons (📖 p. 18)
- 3** Menu buttons (📖 p. 17)
- 4** Turn signal switch (📖 p. 17)
- 5** Horn button (📖 p. 18)
- 6** +RES/-SET button (📖 p. 19)

6.5 Light switch

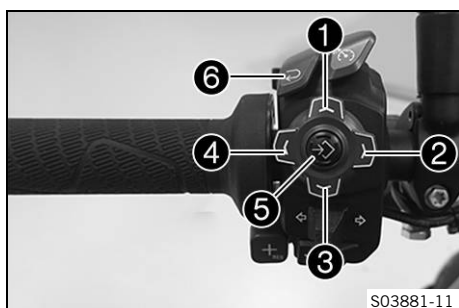


The light switch **1** is fitted on the combination switch on the left.

Possible states

	Low beam on – Light switch in position A . In this position, the low beam and the tail light are switched on.
	High beam on – Light switch in position B . In this position, the high beam and the tail light are switched on.
	Headlight flasher – Light switch in position C . The headlight flasher is operated in this position. The light switch returns automatically to the position A after use.

6.6 Menu buttons



The menu buttons are fitted in the middle of the left combination switch.

The menu buttons are used to control the display on the combination instrument.

Button **1** is the **UP** button.

Button **2** is the **RIGHT** button.

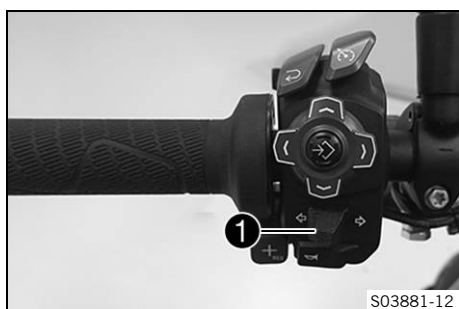
Button **3** is the **DOWN** button.

Button **4** is the **LEFT** button.

Button **5** is the **SET** button.

Button **6** is the **BACK** button.

6.7 Turn signal switch



Turn signal switch **1** is fitted on the combination switch on the left.

Possible states

	Turn signal off – Turn signal switch pushed toward the switch housing.
	Left turn signal, on – Turn signal switch pressed to the left. The turn signal switch returns automatically to the central position after use.
	Right turn signal, on – Turn signal switch pressed to the right. The turn signal switch returns automatically to the central position after use.

i Info

An automatic turn signal switch-off function (**ATIR**) is available as a software feature.

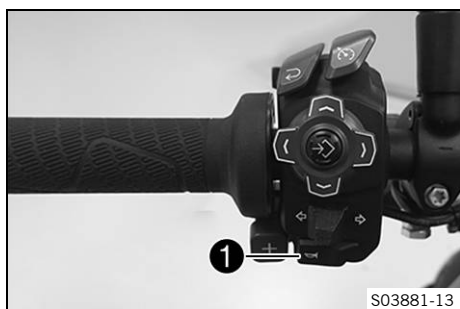
The **ATIR** function uses a time and distance counter.

If the turn signal has been on for at least 10 seconds and 150 meters of riding distance, the turn signal is switched off.

If the vehicle is stationary, both counters are stopped.

If the turn signal switch is reactivated, both counters are reset.

6.8 Horn button

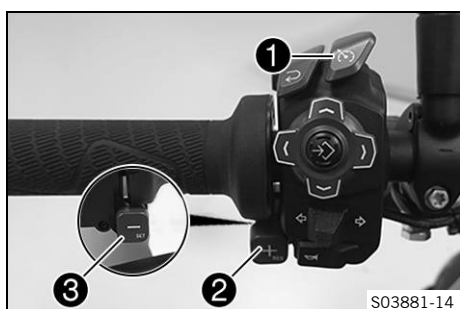


Horn button **1** is fitted on the left side of the handlebar.

Possible states

- The horn button **1** is in the basic position
- The horn button **1** is pressed – The horn is operated in this position.

6.9 Cruise control buttons



The cruise control buttons **1**, **2** and **3** of the are located on the left side of the combination switch.

Possible states

- Cruise control system button **1** in the basic position.
- The **+RES** button is pressed briefly. – The last saved speed is reapplied. Every subsequent brief pressing increases the target speed by 1 km/h or 1 mph.
- Button **+RES** is pressed and held. – The target speed increases in increments of 5 km/h or 5 mph.
- Button **-SET** is pressed. – The cruise control function is activated and the current speed is maintained. Every subsequent brief press reduces the target speed by 1 km/h or 1 mph.
- Button **-SET** is pressed and held. – The target speed decreases in increments of 5 km/h or 5 mph.

i Info

After activating the cruise control function, the throttle grip can be turned back to the basic position. The selected speed will be maintained.

If no target speed has yet been saved, this can be saved once using the **+RES** button.

If the cruise speed is exceeded for less than 30 seconds by turning the throttle grip, the cruise control remains activated.

To switch off the cruise control system function press the cruise control system button again.

In addition, the cruise control system function is deactivated when one of the following events occurs:

- Operating the hand brake lever
- Operating the foot brake lever
- Operating the clutch lever
- Gear change without QUICKSHIFTER+
- Turning the throttle grip beyond the basic position
- Control of the motorcycle traction control (**MTC**)
- Slip at the rear wheel or lifting front wheel
- A malfunction occurring, which impairs the cruise control system function

- Exceeding the target speed for more than 30 seconds when overtaking



Warning

Danger of accidents The cruise control system function is not suitable for all riding situations.

The selected target speed will not be reached, if the engine power is not sufficient for a gradient.

The selected target speed will be exceeded if the engine braking effect is not sufficient on an incline.

- Do not use the cruise control systems function on winding roads.
- Do not use the cruise control systems on slippery road surfaces (e.g. rain, ice or snow), where there is poor visibility or on unpaved surfaces (e.g. sand, stones or gravel).
- Do not use the cruise control systems function if the traffic does not permit a constant speed.

The cruise control system function is only available when motorcycle traction control (**MTC**) is activated.

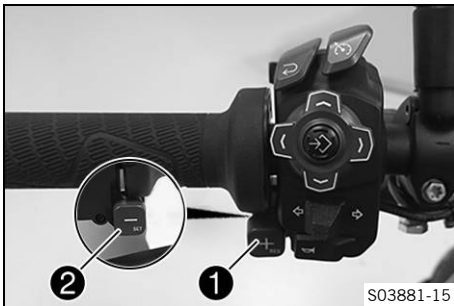
When motorcycle traction control (**MTC**) is switched off, the cruise control system function is also switched off.

The cruise control system function cannot be activated during rapid acceleration.

The cruise control system function can only be activated in third, fourth, fifth and sixth-gear.

The control range is from 40 to 200 km/h or from 25 to 125 mph.

6.10 +RES/-SET button



The **+RES** button ① is fitted on the handlebar, front left.

The **-SET** button ② is fitted on the handlebar, rear left.



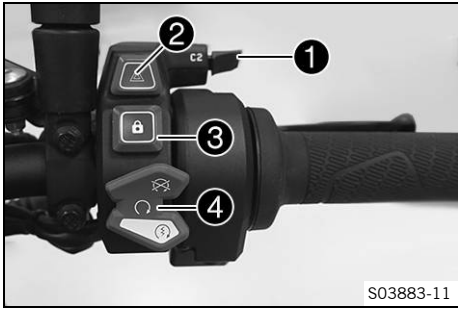
Info

The **+RES** and **-SET** buttons are used to control the cruise control when the cruise control function is activated.

If the cruise control function is disabled and riding mode **Performance** or **Track** is set, the **+RES** and **-SET** buttons are used to adjust the **Slip Adjuster**.

6.11 Combination switch, right

The right combination switch is fitted on the right side of the handlebar.



Overview of the right combination switch

- 1 C1 and C2 switch (p. 21)
- 2 Hazard warning flasher switch (p. 20)
- 3 Unlock button (p. 21)
- 4 Start button/emergency OFF switch (p. 20)

6.12 Hazard warning flasher switch



The hazard warning flasher switch 1 is fitted on the right side of the combination switch.
The hazard warning flasher is used to indicate emergency situations.

i **Info**

The hazard warning flasher can be activated or deactivated while the ignition is switched on or up to 60 seconds after the ignition is switched off.
Only keep the hazard warning flasher activated as long as necessary as it depletes the 12-V battery.

Possible states

	Hazard warning flasher on – All four turn signals and the green turn signal indicator lights in the combination instrument flash.
--	---

6.13 Start button/emergency OFF switch



The start button/emergency OFF switch 1 is fitted on the right side of the combination switch.

Possible states

	Start button/emergency OFF switch off (upper position) – In this position, the ignition circuit is interrupted, a running engine stops, and cannot be started. A message appears on the display.
	Start button/emergency OFF switch on (middle position) – This position is required for operation; the ignition circuit is closed.
	Starter motor on (lower position) – In this position, the starter motor is actuated.

6.14 Unlock button



The Unlock button ① is fitted on the right side of the combination switch.



Info

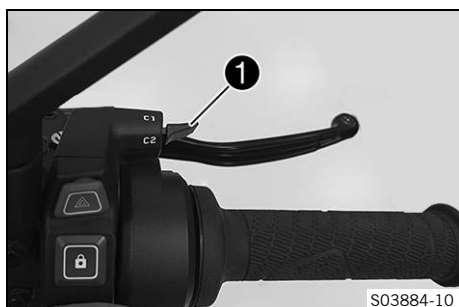
The unlock button performs the ignition lock function on this vehicle.

The steering can only be locked if the handlebar is turned to the left.

Possible states

- Unlock button ① in basic position.
- Briefly pressing Unlock button ① – Pressing briefly switches the ignition on and unlocks the steering lock or switches the ignition off. The immobilizer indicator lamp lights up briefly once for confirmation.
- Pressing and holding Unlock button ① – Pressing and holding switches the ignition off and locks the steering lock.

6.15 C1 and C2 switch



The C1 and C2 switch is fitted on the right of the combination switch.

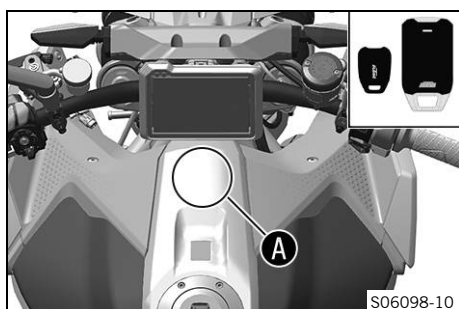


Info

The C1 and C2 switch enables quick access to various menus.

The C1 and C2 switch can be freely configured.

6.16 Steering lock (antenna)



On this vehicle, the ignition and steering lock is replaced by a with transponder key (RACE ON key (p. 22)).

In order to activate the steering lock, the handlebar must be turned fully to the left.

The steering is locked and unlocked electromechanically via the RACE ON button (p. 21).

If the battery voltage of the RACE ON key is too low, hold the RACE ON key or the RACE ON chip in area A on the motorcycle and repeat starting.



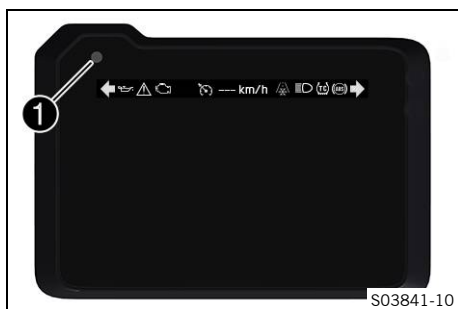
Info

As soon as the engine has been started, safely stow away the RACE ON key or the RACE ON chip again.

Possible states

- Ignition off, steering locked – In this operating mode, the ignition circuit is interrupted and the steering locked.
- Ignition off, steering unlocked – In this operating mode, the ignition circuit is interrupted and the steering unlocked.
- Ignition on, steering unlocked – In this operating mode, the ignition circuit is closed and the steering unlocked.

6.17 immobilizer



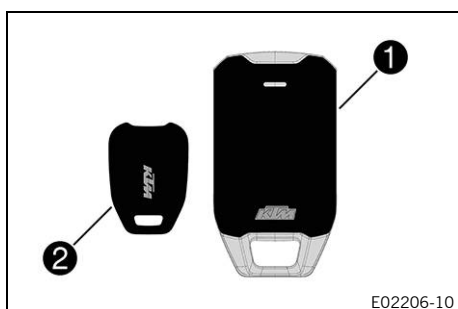
The electronic immobilizer secures the vehicle against unauthorized use.

The immobilizer is activated and the engine electronics are locked as soon as the ignition is switched off via the unlock button (9) (p. 21).

The immobilizer indicator lamp (1) can indicate malfunctions by flashing.

If the optional alarm system is installed, immobilizer indicator lamp (1) flashes when the ignition is switched off and the alarm system is switched on.

6.18 RACE ON key



On this vehicle, the RACE ON key (1) performs all the functions of the conventional ignition key.

If the battery voltage of the RACE ON key is too low, the vehicle can be started by holding the RACE ON key directly to the vehicle antenna (p. 21).

The RACE ON chip (2) is only intended for situations in which the RACE ON key is not available.

Like the RACE ON key, the RACE ON chip can be used to start the vehicle by holding the chip directly to the vehicle antenna (p. 21).

Info

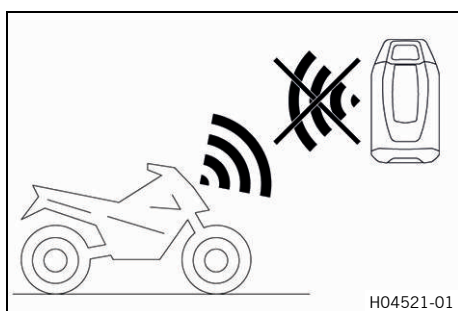
The ignition keys contain electronic components. Always maintain a distance of several centimeters to other devices with electronic components.

A lost ignition key must be deactivated by an authorized KTM workshop to prevent unauthorized persons from operating the vehicle.

The ignition keys supplied are activated when delivered.

Up to four ignition keys in total can be activated by an authorized KTM workshop.

6.19 Anti-relay attack (ARA)



The RACE ON key has the **Anti Relay Attack** function that increases security against theft.

The **Anti Relay Attack (ARA)** function can be activated or deactivated on the combination instrument. If the function is activated, the remote response of the RACE ON key is deactivated five minutes after the ignition is switched off. The combination instrument displays whether anti-relay attack in the ignition key has been successfully activated when the ignition is switched off.

Even if the RACE ON key is within range, the vehicle cannot be contactlessly started with the RACE ON key after the period has expired. The same blink code on the combination instrument is displayed as if the RACE ON key were out of range.

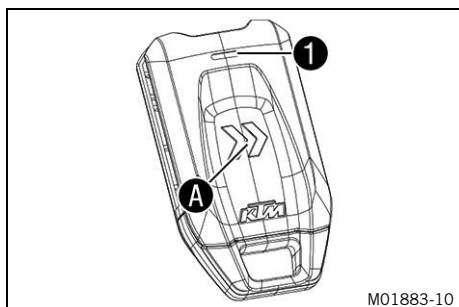
This prevents another person from starting the vehicle at an extended range, although the owner and RACE ON key are not in the vicinity of the vehicle.



Info

If the RACE ON key battery has been replaced, anti-relay attack in the RACE ON key is also deactivated if the **Anti Relay Attack** function is activated in the combination instrument.

Anti-relay attack in the RACE ON key is not activated again until the next time the RACE ON key is in range when the ignition is switched off.



A button is located in the **A** area of the RACE ON key. When this button is pressed and the **1** LED flashes three times, the RACE ON key's anti-relay attack will be deactivated for 10 minutes, allowing the vehicle's contactless start.



Tip

This function can be used, for example, before the RACE ON key is placed in the rider's motorcycle clothing.

If no vehicle start occurs within this period, the RACE ON key's anti-relay attack is reactivated.

Regardless of anti-relay attack, the vehicle can always be started by holding the RACE ON key or the RACE ON chip directly to the vehicle antenna (📖 p. 21).



Info

In this case, anti-relay attack will not be activated the next time the ignition is switched off.

The vehicle activates anti-relay attack when the ignition is switched off in only one RACE ON key each.

It is recommended to carry only one RACE ON key at a time, as it cannot be predicted in which RACE ON key anti-relay attack will be activated.

6.20 Opening fuel tank 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 fuel 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 harmful to health.

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



Note

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

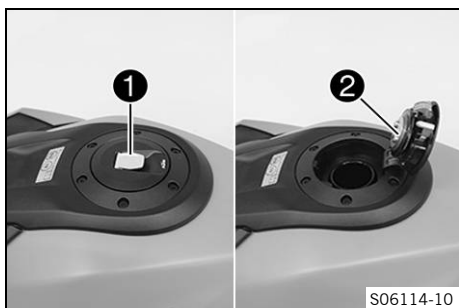
- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

Condition

The motorcycle is stationary.

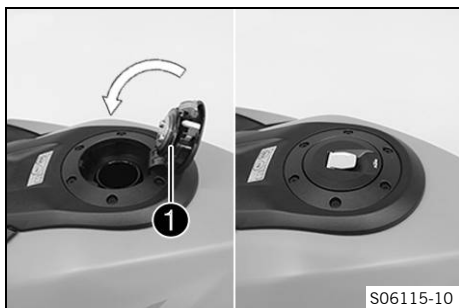
The engine is switched off.

The ignition has been switched on or off for less than 1 minute.



- Fold up cover ❶ slowly.
- ✓ The fuel tank filler cap is unlocked.
- Fold up fuel tank filler cap ❷.

6.21 Closing the fuel tank filler cap



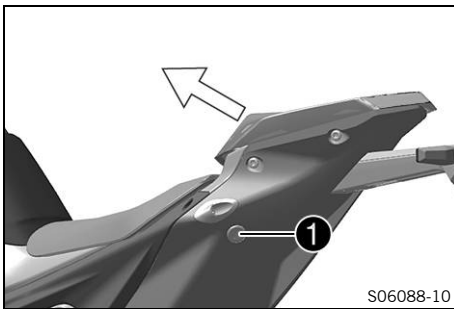
Warning

Fire hazard Fuel is highly flammable and a health hazard.

- Check that the fuel tank filler cap is locked correctly after closing.
- Change your clothing if fuel spills on them.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.

- Fold down fuel tank filler cap ❶ and push it down.
- ✓ The fuel tank filler cap locks audibly in place.

6.22 Passenger seat unlocking

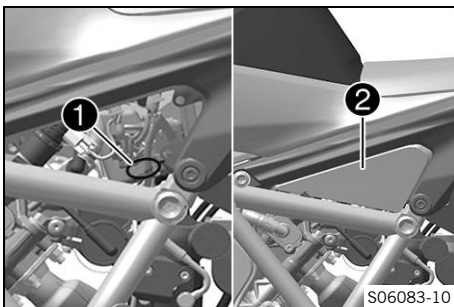


The **1** tip switch of the passenger seat release is located on the left side of the vehicle below the passenger seat.

The passenger seat release tip switch only functions if the motorcycle is stationary, the engine is switched off and the ignition is switched on or switched off for less than 1 minute.

If the passenger seat release tip switch does not work, the passenger seat can be unlocked using the passenger seat emergency release (📖 p. 25).

6.23 Passenger seat emergency release



The passenger seat emergency release **1** is located on the left side of the vehicle below the **2** cover.

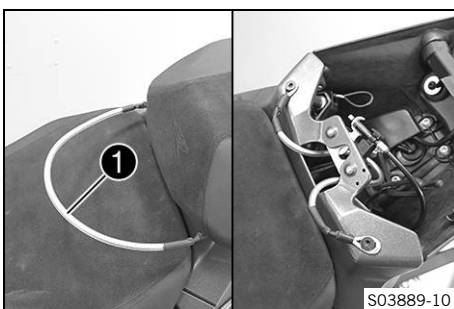
The emergency passenger seat release is used if the seat release tip switch does not work, e.g. because the 12 V battery is discharged.

6.24 Tool set



The tool set **1** is located under the passenger seat.

6.25 Supporting strap



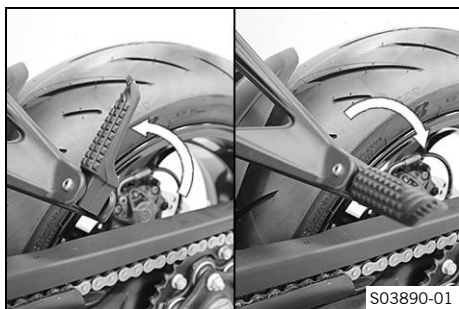
Supporting strap **1** is attached underneath the passenger seat.

i Info

If the supporting strap is not needed, it can be stowed underneath the pillion bench.

The passenger can hold onto the supporting strap **1** during the trip.

6.26 Passenger foot pegs

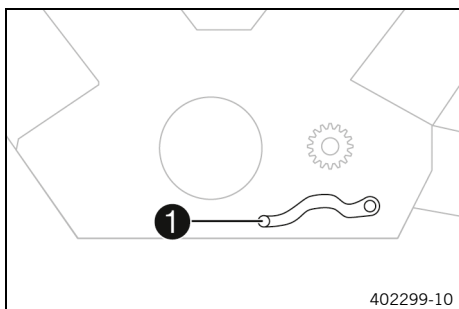


The passenger foot pegs can be folded up and down.

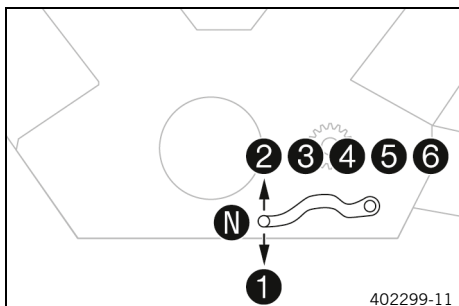
Possible states

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

6.27 Shift lever

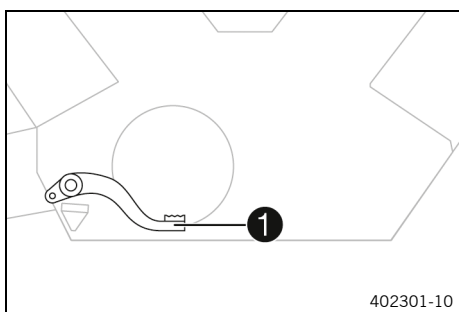


The shift lever ❶ is fitted on the left side of the engine.



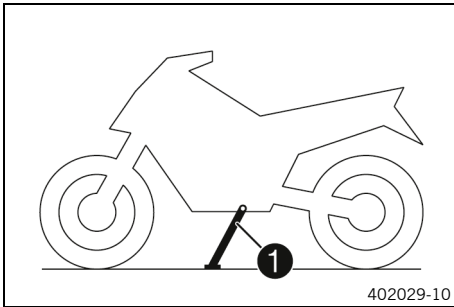
The gear positions can be seen in the figure.
The idle position is between first and second gears.

6.28 Foot brake lever



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

6.29 Side stand



Side stand ❶ is located on the left of the vehicle.
The side stand is used for parking the motorcycle.



Info

The side stand must be folded up during motorcycle use.
The side stand is coupled with the safety starting system;
see the instructions in the "Stopping, parking" chapter.

Possible states

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

7.1 Combination instrument



The combination instrument is attached in front of the handlebar.
The combination instrument is divided into two function areas.

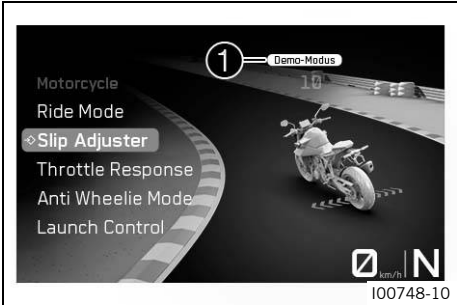
- ① indicator lamps (📖 p. 30)
Display ②

Caution
Danger of burns Parts of the combination instrument become hot in certain situations.

In particular, the display gets hot in ambient temperatures above 55 °C (131 °F), during extended stationary periods, for example, at a traffic light, or in direct sunlight.

- Do not touch the combination instrument with bare hands in the situations referred to.
- Where appropriate protective clothing.
- If you have been burned, hold the area affected under lukewarm water immediately.

7.2 Demo mode



Activation

Demo mode is activated in the factory and allows you to test optional software functions.

Once a distance has been covered, demo mode is automatically deactivated as soon as the ignition is turned off.

Distance until demo mode is deactivated	1,500 km (930 mi)
---	-------------------

The demo modes are shown in area ① of the display.

**Info**

Notifications about the remaining distance until the demo mode is deactivated are displayed at regular intervals.

All optional software functions will be deactivated and no longer displayed when demo mode ends. The optional software functions are available from an authorized KTM dealer.

Functions included in demo mode

- **TECH PACK** including riding mode **TRACK**, MTC+MSR, deactivatable **ABS** on the rear wheel, adjustable characteristics of the throttle response, adjustable motorcycle traction control
- QUICKSHIFTER+
- MSR
- Cruise control system

7.3 Activation and test**Activation**

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



**Info**



The brightness of the displays is controlled by an ambient light sensor in the combination instrument.



Test

The welcome text appears on the display and all indicator lamps are briefly activated for a function check.

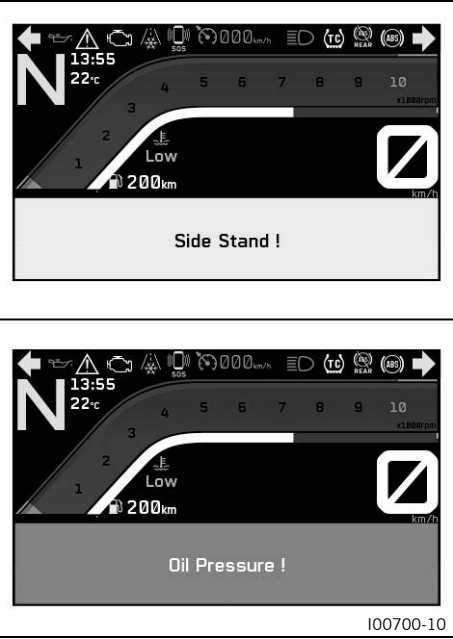
**Info**

The malfunction indicator lamp  always lights up as long as the engine is not running. If the engine is running and the malfunction indicator lamp  lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized KTM workshop.

The oil pressure warning lamp  always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp  lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

The ABS warning lamp  and TC indicator lamp  light up until a speed of approx. 6 km/h (approx. 4 mph) or faster has been reached.

7.4 Warnings




Warnings appear in the middle of the display; these are marked yellow or red depending on their relevance. Yellow warnings indicate a malfunction or information which requires prompt intervention or an adjustment to the riding style. Red warnings indicate a malfunction or information which requires immediate intervention.



i Info
Warnings can be hidden by pressing any button. All the existing warnings are displayed in the **Warning** sub-menu until they are no longer active.



7.5 Indicator lamps



The indicator lamps offer additional information about the operating state of the motorcycle. When the ignition is switched on, all indicator lamps light up briefly, except for the TC indicator lamp .














Info

The malfunction indicator lamp  always lights up as long as the engine is not running. If the engine is running and the malfunction indicator lamp  lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized KTM workshop.

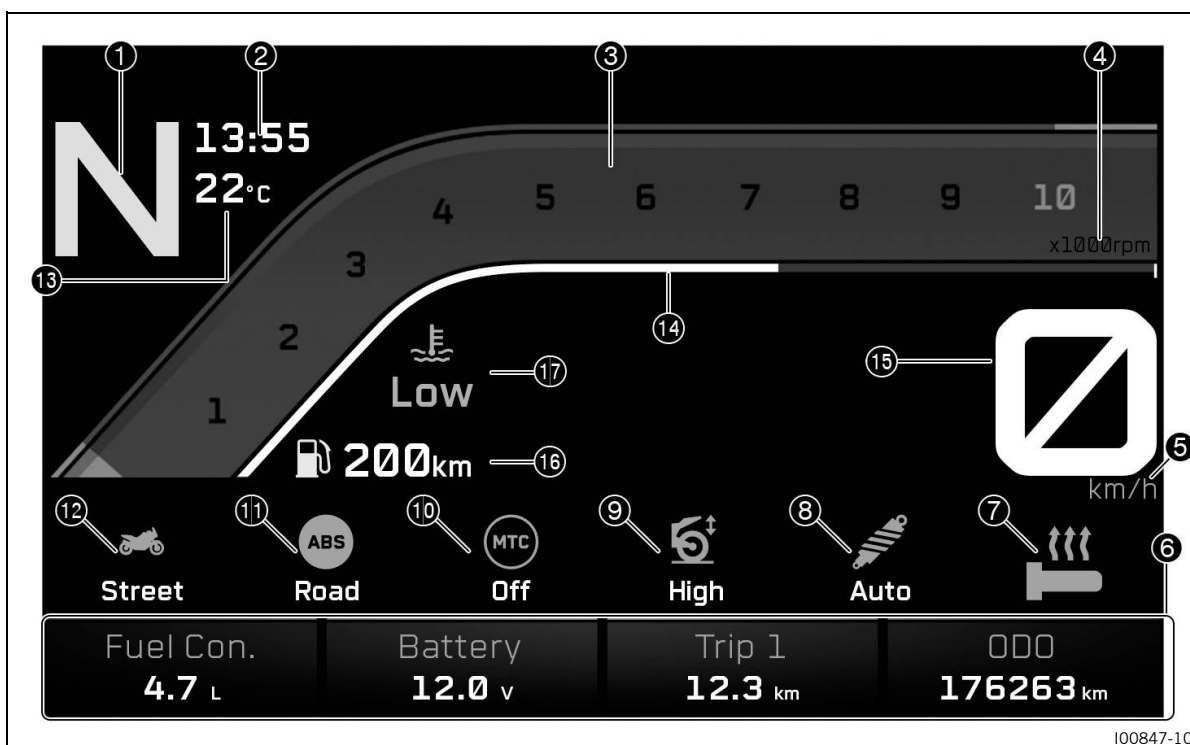
The oil pressure warning lamp  always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp  lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

The ABS warning lamp  and TC indicator lamp  light up until a speed of approx. 6 km/h (approx. 4 mph) or faster has been reached.

Possible states

	The turn signal indicator lamp flashes green with a steady rhythmic flash – The turn signal is switched on.
	The malfunction indicator lamp lights up yellow – The <u>OBD</u> has detected a malfunction in the vehicle electronics. Come safely to a halt, and contact an authorized KTM workshop.
	ABS warning lamp lights up yellow – Status or error messages relating to <u>ABS</u> .
	The ABS rear warning lamp lights up yellow – <u>ABS</u> is deactivated on the rear wheel.
	The idle indicator lamp lights up green – The transmission is in neutral.
	TC indicator lamp lights up/flashes yellow – MTC ( p. 138) is not enabled or is currently intervening. The TC indicator lamp also lights up if a malfunction is detected. Contact an authorized KTM workshop. The TC indicator lamp flashes if MTC makes an active intervention.
	The oil pressure warning lamp lights up red – The oil pressure is too low. Stop immediately, taking care not to endanger yourself or other road users in the process, and switch off the engine.
	The alarm system indicator lamp lights up or flashes red – Status or error message of the alarm system.
	The cruise control system indicator lamp (optional) lights up yellow – The cruise control system function is switched on, but cruise control is not activated.
	The cruise control system indicator lamp (optional) lights up green – The cruise control system function is switched on and cruise control is activated.
	The high beam indicator lamp lights up blue – The high beam is switched on.
	The general warning lamp lights up yellow – A note/warning note on operating safety has been detected. This is also shown in the display.

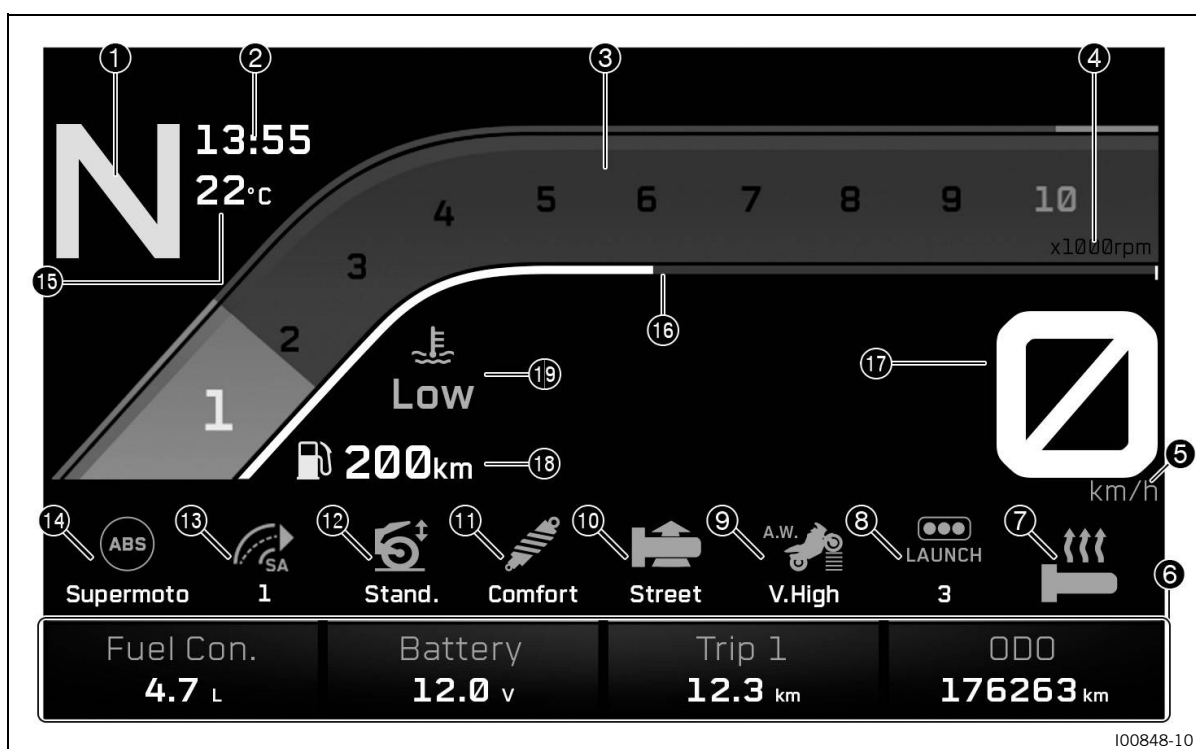
7.6 Display



I00847-10

- ① Gear display
- ② Time (📖 p. 37)
- ③ Engine speed (📖 p. 36)
- ③ Shift warning light (📖 p. 36)
The shift warning light is integrated in the tachometer display.
- ④ Unit for the engine speed display
- ⑤ Unit for the speedometer
- ⑥ **Favorites** display (📖 p. 39)
- ⑦ Heated grip (optional) (📖 p. 39)
- ⑧ **Damp** display (📖 p. 40)
- ⑨ **Load** display (📖 p. 40)
- ⑩ **MTC** display (📖 p. 38)
- ⑪ **ABS** display (📖 p. 38)
- ⑫ **Ride-Mode** display (📖 p. 38)
- ⑬ Ambient air temperature indicator (📖 p. 37)
- ⑭ Fuel level display (📖 p. 39)
- ⑮ Speedometer (📖 p. 37)
- ⑯ Fuel range display
- ⑰ Coolant temperature indicator (📖 p. 38)

7.7 Performance display (optional)



I00848-10

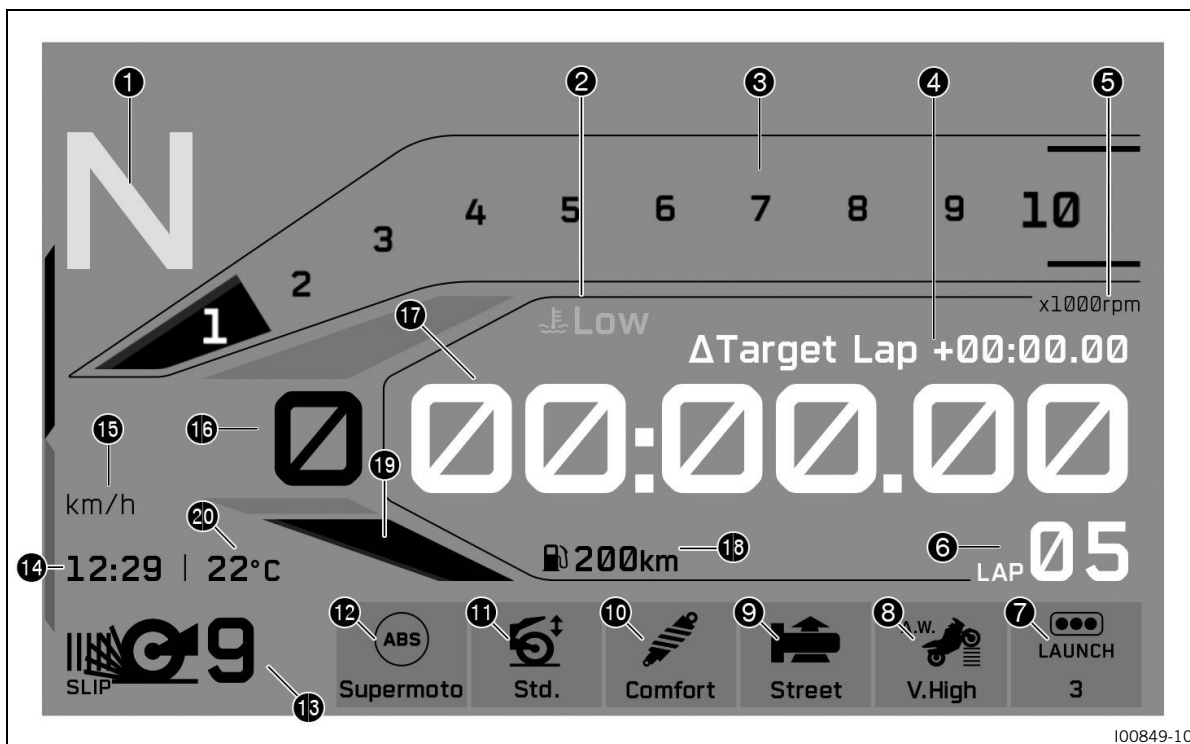
**Info**

The figure shows the start screen of the combination instrument when the **Performance** riding mode (optional) is active. If the menu is open, the speed and the selected gear are still displayed.

- ① Gear display
- ② Time (📖 p. 37)
- ③ Engine speed (📖 p. 36)
- ④ Shift warning light (📖 p. 36)
- ⑤ The shift warning light is integrated in the tachometer display.
- ⑥ Unit for the engine speed display
- ⑦ Unit for the speedometer
- ⑧ **Favorites** display (📖 p. 39)
- ⑨ Heated grip (optional) (📖 p. 39)
- ⑩ Launch control (optional)
- ⑪ Anti wheelie mode (optional)
- ⑫ Throttle response (optional)
- ⑬ **Damp** display (📖 p. 40)
- ⑭ **Load** display (📖 p. 40)
- ⑮ Slip adjuster (optional)
- ⑯ **ABS** display (📖 p. 38)
- ⑰ Ambient air temperature indicator (📖 p. 37)
- ⑱ Fuel level display (📖 p. 39)
- ⑲ Speedometer (📖 p. 37)

- 18 Fuel range display
- 19 Coolant temperature indicator (📖 p. 38)

7.8 Track display (optional)



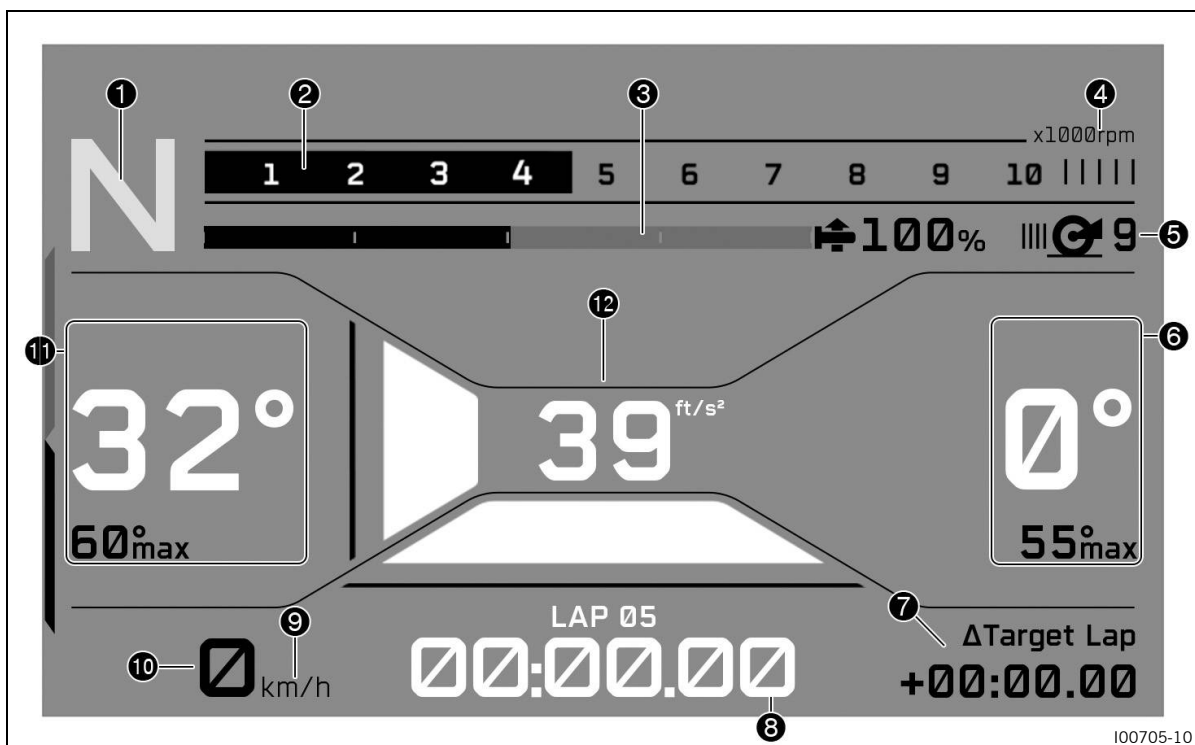
i Info

The figure shows the start screen of the combination instrument when the **TRACK** riding mode (optional) is active. If the menu is open, the speed and the selected gear are still displayed.

- 1 Gear display
- 2 Coolant temperature indicator (📖 p. 38)
- 3 Engine speed (📖 p. 36)
- 3 Shift warning light (📖 p. 36)
The shift warning light is integrated in the tachometer display.
- 4 Delta for target lap, best lap or last lap
- 5 Unit for the engine speed display
- 6 Lap indicator
- 7 Launch control (optional)
- 8 Anti wheelie mode (optional)
- 9 Throttle response (optional)
- 10 **Damp** display (📖 p. 40)
- 11 **Load** display (📖 p. 40)
- 12 **ABS** display (📖 p. 38)
- 13 Slip adjuster (optional)
- 14 Time (📖 p. 37)

- 15 Unit for the speedometer
- 16 Speedometer (📖 p. 37)
- 17 Lap time (optional)
- 18 Fuel range display
- 19 Fuel level display (📖 p. 39)
- 20 Ambient air temperature indicator (📖 p. 37)

7.9 Telemetry display (optional)

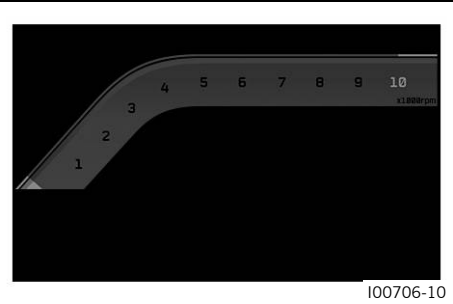


i Info The figure shows the start screen of the combination instrument when the **TRACK** riding mode (optional) is active. If the menu is open, the speed and the selected gear are still displayed.

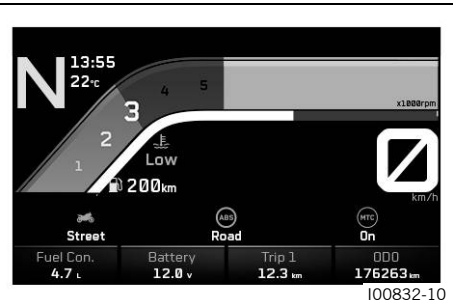
- 1 Gear display
- 2 Engine speed (📖 p. 36)
- 2 The shift warning light (📖 p. 36)
- 3 Throttle response (optional)
- 4 Unit for the engine speed display
- 5 Slip adjuster (optional)
- 6 Lean angle right (optional)
- 7 Delta for target lap, best lap or last lap
- 8 Lap time (optional)
- 9 Unit for the speedometer
- 10 Speedometer (📖 p. 37)

- 11 Lean angle left (optional)
- 12 Acceleration indicator (optional)

7.10 Engine speed

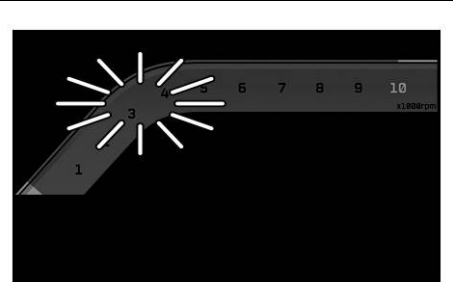


The engine speed is displayed in revolutions per minute.



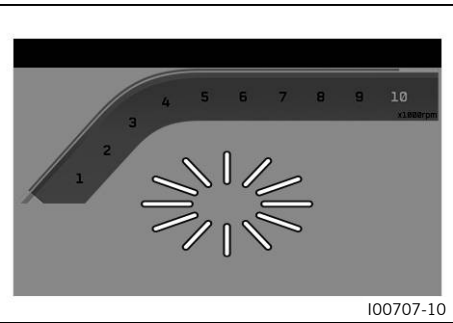
While the motorcycle is not at operating temperature, the maximum engine speed is limited to 6500 rpm. On the combination instrument, the speed range after 6500 rpm has a blue background.

7.11 Shift warning light



The shift warning light is integrated in the display. In the **Shift Light** submenu, the engine speed for the shift warning light can be set. The shift warning light is always active during the running-in time (up to 1000 km / 621 mi). The shift warning light can only be deactivated, and the values for **RPM1** and **RPM2** can only be adjusted after this. At **RPM1**, the engine speed display flashes and at **RPM2**, the display flashes.

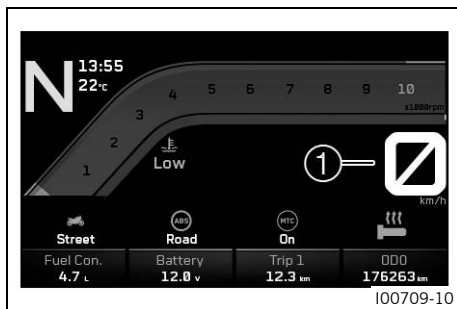
i Info
After the first service, the shift warning light is deactivated when the engine is warm and in sixth-gear.



Coolant temperature	≤ 35 °C (≤ 95 °F)
ODO	< 1,000 km (< 620 mi)
The shift warning light always flashes at	6,500 rpm

Coolant temperature	> 35 °C (> 95 °F)
ODO	> 1,000 km (> 620 mi)
RPM1 shift warning light	the speed indicator flashes
RPM2 shift warning light	the display flashes

7.12 Speedometer

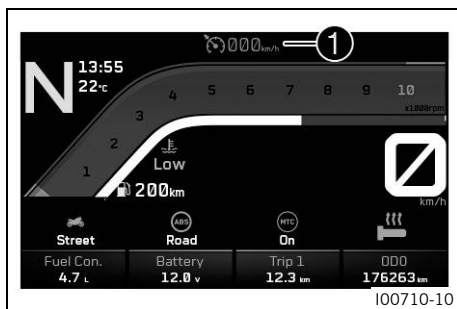


The speed is shown in area ❶ of the display.

Speed is shown in kilometers per hour **km/h** or in miles per hour **mph**.

The unit of speed can be configured in the **Distance** submenu.

7.13 Cruise control indicator (optional)



The operating state of the active cruise control is shown in the area ❶ of the display.

Cruise control is operated using the cruise control tip switch.

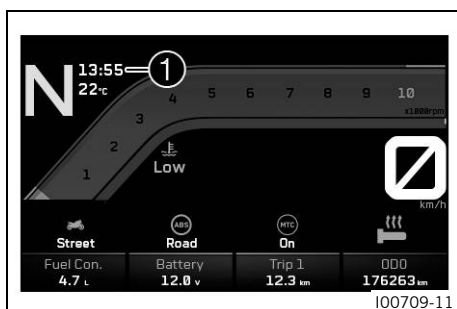


Info

If the cruise control system function is switched on but cruise control is not activated, the cruise control system indicator lamp lights up yellow.

If the cruise control system function is switched on and cruise control is activated, the cruise control system indicator lamp lights up green.

7.14 Time



The time is shown in area ❶ of the display.

The time can be displayed in 24-hour format or 12-hour format in all languages.

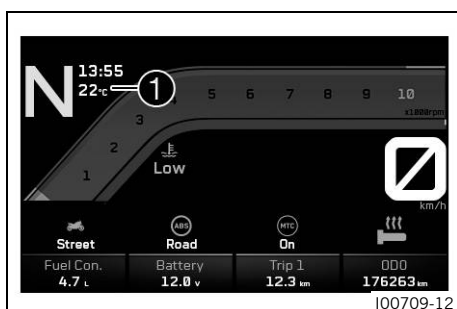
The format of the time can be configured in the **Clock Format** menu.



Info

The time must be reset if the 12-V battery was disconnected from the vehicle or the fuse was removed.

7.15 Ambient air temperature indicator

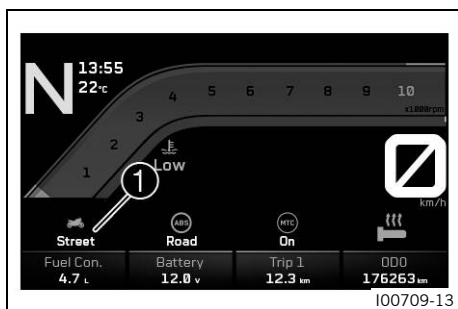


The ambient temperature is shown in area ❶ of the display.

The ambient air temperature is displayed in **°C** or **°F**.

The unit of the ambient air temperature can be configured in the **Temperature** submenu.

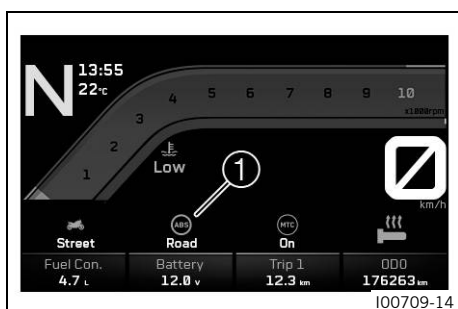
7.16 Ride-Mode display



The **Ride Mode** (p. 138) setting is shown in area **1** of the display.

The drive mode can be configured in the **Ride Mode** submenu.

7.17 ABS display



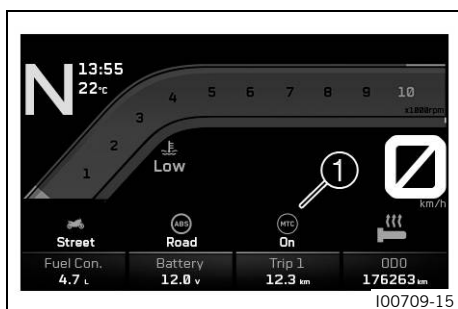
The ABS mode setting is shown in the **1** area of the display. ABS can be configured separately in the **ABS** submenu.

Info

When the ABS mode **Road** is active, ABS controls both wheels.

When the **Supermoto** ABS mode is active, ABS only controls the front wheel. The rear wheel is not controlled by ABS and may lock during braking maneuvers.

7.18 MTC display



The **1** area of the display indicates whether **MTC** (p. 138) is switched on or off.

The motorcycle traction control can be switched on or off in the **MTC** submenu.

7.19 Coolant temperature indicator



The coolant temperature is displayed by a symbol. The symbol changes between **LOW**, **OK** and **HOT** depending on the temperature.

Note

Engine failure Overheating damages the engine.

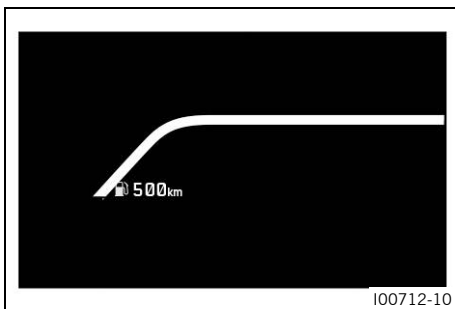
- If the coolant temperature warning is displayed, stop immediately and take care not to endanger yourself or other traffic participants in the process.
- Allow the engine and cooling system to cool down.
- Check and, if necessary, correct the coolant level on the cooling system while it is in a cooled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

**Info**

If the coolant temperature indicator shows **HOT**, the display also starts to flash and a warning is displayed.
If the cooling system overheats, the maximum engine speed is limited.

Possible states

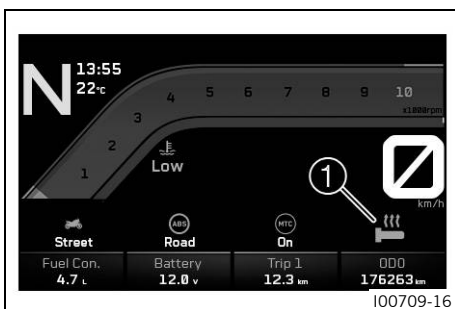
- The engine is cold – The coolant temperature indicator shows **LOW**.
- Engine warm – The coolant temperature indicator shows **OK**.
- Engine hot – The coolant temperature indicator shows **HOT**.

7.20 Fuel level display

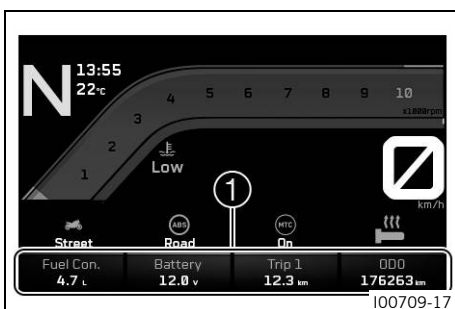
The fuel level display consists of the fuel range display and a bar. The higher the bar is filled, the more fuel is in the fuel tank

**Info**

If the fuel level is getting low, the last segment flashes red and the following warning **LOW FUEL** also appears.
The fuel level is displayed with a slight delay to prevent the indicator from constantly moving while riding.
The fuel level display is not updated while the side stand is folded out or the emergency OFF switch is switched off.
Once the side stand is folded up and the emergency OFF switch is switched on, the fuel level display is next updated after 2 minutes.
The fuel level display flashes if the combination instrument does not receive a signal from the fuel level sensor.

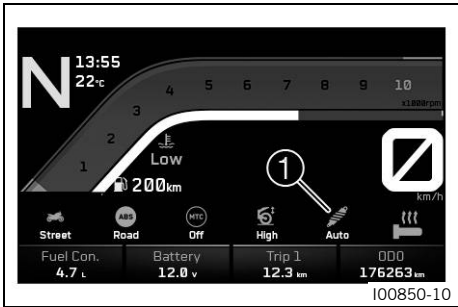
7.21 Heated grip (optional)

The status of the heated grip is shown in area **1** of the display.
The heated grip can be configured in the **Heated Grip** menu.

7.22 Favorites display

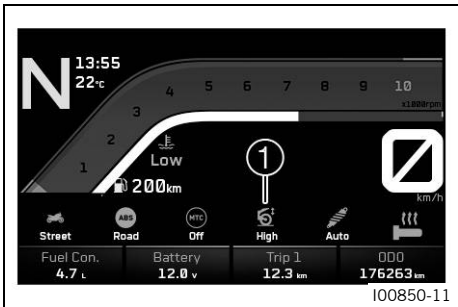
Up to four items of information are displayed in the **Favorites** display **1**.
The **Favorites** indicator can be freely configured in the **Favorites** submenu.

7.23 Damp display



The **Damping** mode setting is shown in the ❶ area of the display. The damping can be configured in the **Suspension** menu under **Damping**.

7.24 Load display



The payload setting is shown in area ❶ of the display. The payload can be configured in the **Suspension** menu under **Load**. Only configure the payload in an unloaded state.

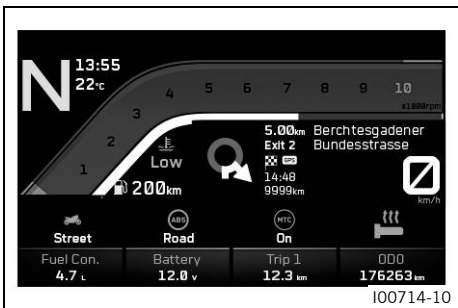
7.25 Custom Switch display



Pressing the **C1** or **C2** button calls up the configured menu. Press the **BACK** button to close the **Custom Switch** display.

i Info
The **Custom Switch** display can be configured in the **Settings** menu under **Custom Switch**. Any information can be selected.

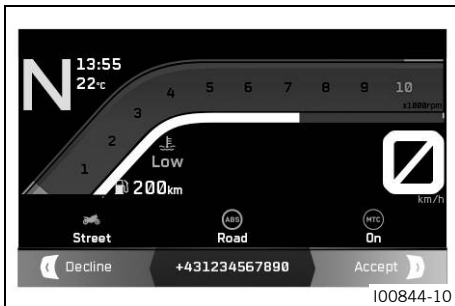
7.26 Navigation display (optional)



The **Navigation** display (optional) appears when the navigation function is activated. In the **Navigation** display (optional), the direction arrow, the distance from the destination, the estimated arrival time of the cellphone, the distance to the next waypoint, and the street name are displayed. The **Navigation** display (optional) can be switched on or off in the **Navigation** submenu (optional).

Conditions for use:

- The combination instrument is connected to a suitable phone.
- The **KTMconnect** app (optional) is installed and connected on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 14 and higher).

7.27 Call display**Warning**

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

The **Call** indicator appears for incoming or active calls.

Press the **RIGHT** button to accept an incoming call.

Press the **LEFT** button to reject an incoming call.

Press the **UP** button to increase the audio volume.

Press the **DOWN** button to reduce the audio volume.

**Info**

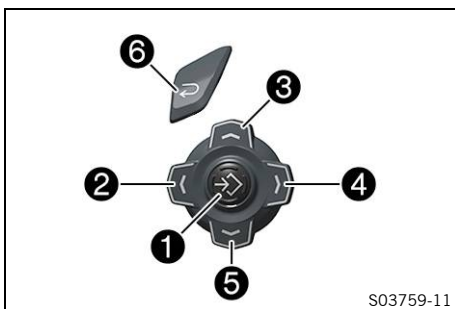
It is not possible to change the audio volume using the combination switch with every cellphone.

The call duration and contact are displayed. Depending on the cellphone settings, the contact is shown by name.

You cannot navigate in the menu during an active phone conversation.

Conditions for use:

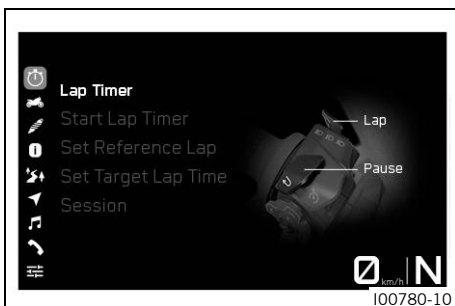
- The combination instrument is connected to a suitable phone.

7.28 Menu**Info**

Press the **SET** button **1** in the start screen to open the menu.

Use the **LEFT** button **2**, the **UP** button **3**, the **RIGHT** button **4** and the **DOWN** button **5** to navigate in the menu.

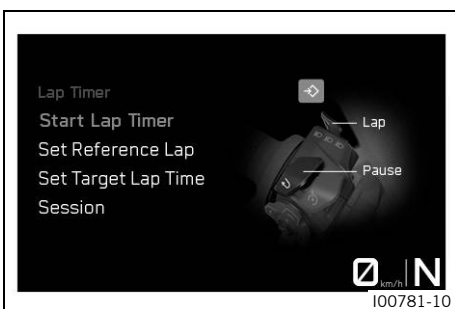
Press the **BACK** button **6** to close the current menu or the menu overview.

7.28.1 Lap Timer**Condition**

- Riding mode **TRACK** activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Lap Timer** is highlighted. Press the **SET** button to open the menu.

The timed laps can be displayed and reference laps can be set in the **Lap Timer** menu.

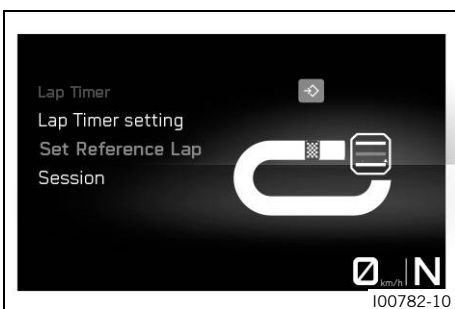
7.28.2 Lap Timer Settings



Condition

- Riding mode **TRACK** activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Lap Timer** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Lap Timer Settings** is highlighted. Press the **RIGHT** or **LEFT** button to switch **Lap Timer** on and off.

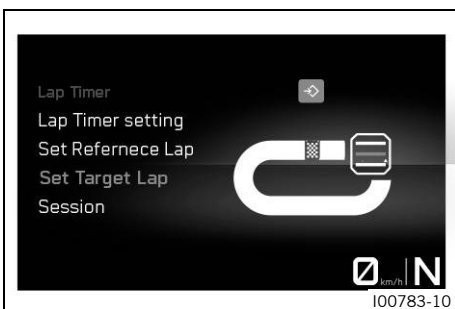
7.28.3 Set Reference Lap



Condition

- Riding mode **TRACK** activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Lap Timer** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Set Reference Lap** is highlighted. A reference lap can be set.

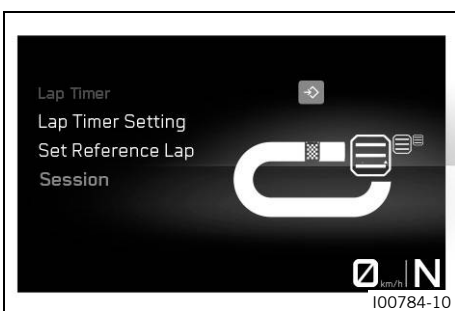
7.28.4 Set Target Lap Time



Condition

- Riding mode **TRACK** activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Lap Timer** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Set Target Lap Time** is highlighted. A target lap can be set.

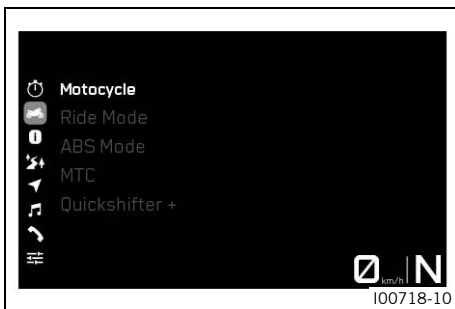
7.28.5 Session



Condition

- Riding mode **TRACK** activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Lap Timer** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Session** is highlighted. All lap times are displayed here.

7.28.6 Motorcycle



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.

In **Motorcycle**, motorcycle-relevant settings can be made, such as the riding mode, ABS mode, slip adjustment and MTC.

7.28.7 Ride Mode



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.

**Warning**

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

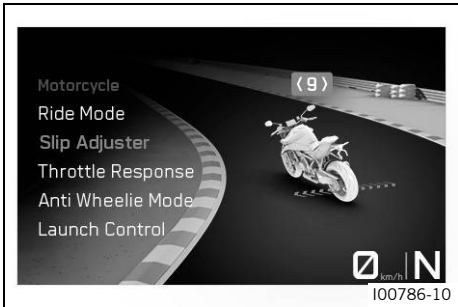
The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Ride Mode** is marked. Press the **SET** button to open the menu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to select the riding mode, which changes coordinated settings for the engine and motorcycle traction control.
 - ✓ **Street** - Homologated performance with balanced response; the motorcycle traction control allows normal slip on the rear wheel.
 - ✓ **Rain** - Reduced homologated performance for better rideability; the motorcycle traction control allows less slip on the rear wheel.
 - ✓ **Sport** - Homologated performance with very direct response; the motorcycle traction control allows greater slip on the rear wheel.
 - ✓ **Track** (optional) - Throttle response and motorcycle traction control can be adjusted individually.
 - ✓ **Performance** (optional) - Throttle response and motorcycle traction control can be adjusted individually.

The riding mode of the vehicle can be configured in the **Ride Mode** menu.

7.28.8 Slip Adjuster (optional)



Condition

- The **Track** riding mode (optional) or **Performance** (optional) is activated.
- **MTC+MSR** is activated.
- Press the **SET** button when the menu is closed.



Warning

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Motorcycle** is marked on the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Slip Adjuster** is highlighted. Press **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to set the maximum permitted slip of the motorcycle traction control.



Info

Do not open the throttle during the selection.

The spin adjuster is a motorcycle traction control function. The slip adjustment allows the motorcycle traction control to be tuned through nine levels to the desired characteristic map. Level 0 allows the maximum slip on the rear wheel, and level 9 the minimum.

If the cruise control function is deactivated, the **RIGHT** and **LEFT** buttons or the **+RES** and **-SET** buttons in the main display or in the **Slip Adjuster** menu can be used to set the **Slip Adjuster**.

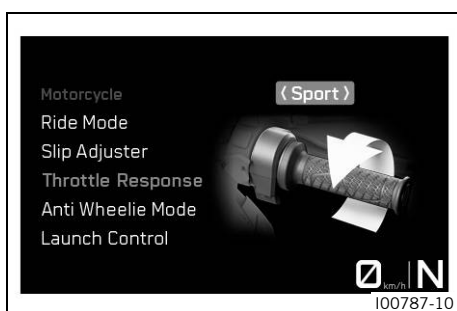


Info

The slip adjustment is only available in **Track** riding mode (optional) or **Performance**(optional). The slip adjustment is only available when motorcycle traction control is activated.

Press and hold the LEFT button or -SET button for approximately 2 seconds.	Slip adjustment level 0 is activated.
--	---------------------------------------

7.28.9 Throttle Response (optional)

**Condition**

- The **Track** riding mode (optional) or **Performance** (optional) is activated.
- Press the **SET** button when the menu is closed.

**Warning**

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

The riding modes are each only suitable for certain conditions.

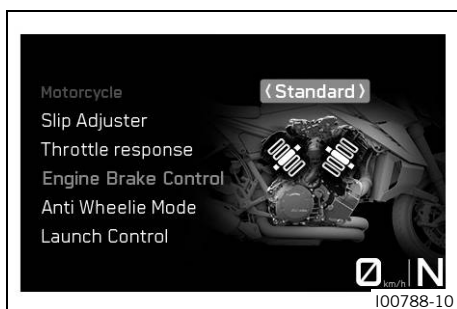
- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Motorcycle** is marked on the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Throttle Response** is marked on the display. Press the **SET** button to open the submenu.
- The characteristic map of the throttle response can be adjusted by pressing the **RIGHT** or **LEFT** button.
 - ✓ Street – balanced response.
 - ✓ Sport – extremely direct response.
 - ✓ Track – very direct response.

**Info**

Do not open the throttle when adjusting the throttle response.

7.28.10 Engine Brake Control (optional)

**Condition**

- The **Track** riding mode (optional) or **Performance** (optional) is activated.
- Press the **SET** button when the menu is closed.

**Warning**

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

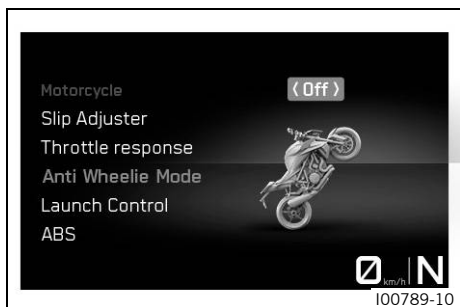
The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Motorcycle** is marked on the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Engine Brake Control** is marked. Press the **SET** button to open the menu.

- The **Engine Brake Control** can be adjusted by pressing the **RIGHT** or **LEFT** button.

7.28.11 Anti Wheelie Mode (Optional)



Condition

- The **Track** riding mode (optional) or **Performance** (optional) is activated.
- Press the **SET** button when the menu is closed.



Warning

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Motorcycle** is marked on the display. Press the **SET** button to open the menu.



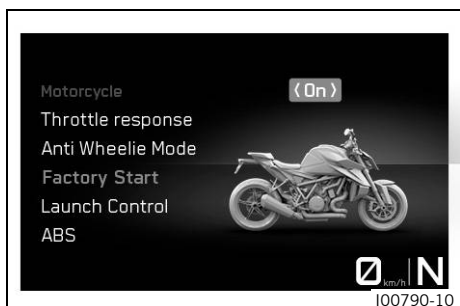
Warning

Danger of accidents When Anti Wheelie Mode is disabled, the motorcycle traction control no longer counteracts the raising of the front wheel.

- Only switch off the Anti Wheelie Mode if you have the appropriate experience.

- Press the **UP** or **DOWN** button until **Anti Wheelie Mode** is highlighted. Press the **SET** button to open the menu.
- The **Anti Wheelie Mode** can be adjusted by pressing the **RIGHT** or **LEFT** button.

7.28.12 Factory Start (optional)



Condition

- The **Track** riding mode (optional) or **Performance** (optional) is activated.
- Press the **SET** button when the menu is closed.



Warning

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

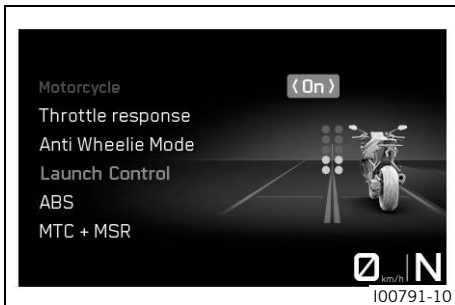
The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

- Press the **UP** or **DOWN** button until **Motorcycle** is marked on the display. Press the **SET** button to open the menu.

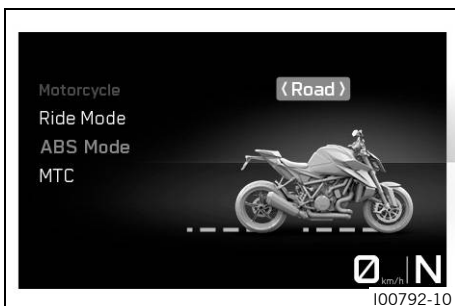
- Press the **UP** or **DOWN** button until **Factory Start** is highlighted. Press the **SET** button to open the menu.
- The **Factory Start** can be adjusted by pressing the **RIGHT** or **LEFT** button.

7.28.13 Launch Control (optional)



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Launch Control** is highlighted. Press the **SET** button to open the submenu.
- Use the **RIGHT** or **LEFT** button to switch **Launch Control** on or off.

7.28.14 ABS



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **ABS** is highlighted. Press the **SET** button to open the submenu.



Warning

Danger of accidents An incorrectly selected ABS mode makes control of the vehicle considerably more difficult.

The ABS modes are each only suitable for certain conditions.

- Always select an ABS mode that is compatible with the surface of the ground.

- Press the **RIGHT** or **LEFT** button to select the desired ABS mode.



Info

The ABS mode can be switched during the journey. Do not open the throttle during the selection.

When the ABS mode **Road** is active, ABS controls both wheels.

When the **Supermoto** ABS mode is active, ABS only controls the front wheel. The rear wheel is no longer controlled by ABS and may lock during braking maneuvers. The indicator lamp **ABS REAR** lights up.

7.28.15 MTC



Condition

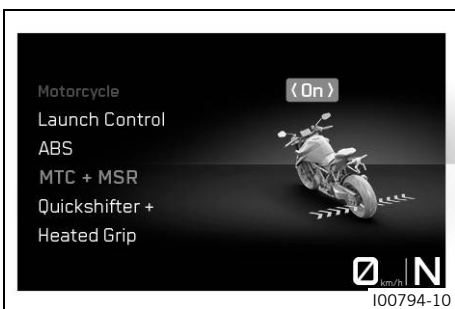
- Speed limiter function deactivated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **MTC** is highlighted. Press the **SET** button to open the submenu.
- Use the **RIGHT** or **LEFT** button to switch **MTC** on or off.



Info

Do not open the throttle when switching on or off.
Press the **SET** button briefly when activating the motorcycle traction control.
Hold down the **SET** button when switching off the motorcycle traction control.
After the ignition is switched on, motorcycle traction control is enabled again.

7.28.16 MTC+MSR (optional)



Condition

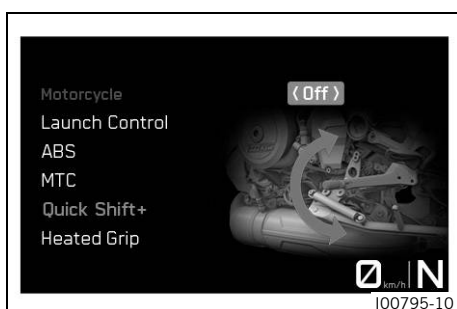
- Model with **MTC+MSR**.
- Cruise control system function (optional) deactivated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **MTC+MSR** is highlighted. Press **SET** button to open the menu.
- Use the **RIGHT** or **LEFT** button to switch **MTC+MSR** on or off.



Info

Do not open the throttle when switching on or off.
Press the **SET** button briefly when activating the motorcycle traction control and the engine traction torque control.
Hold down the **SET** button when switching off the motorcycle traction control and engine traction torque control.
When ABS mode **Supermoto** is active, the **MSR** is not active.
After the ignition is switched on, the motorcycle traction control and engine traction torque control are enabled again.

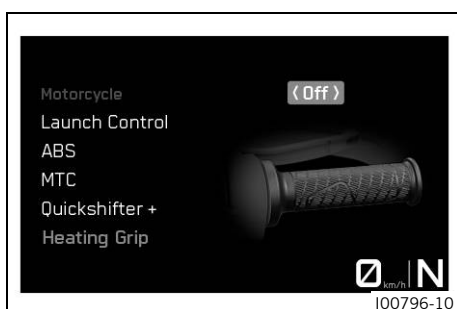
7.28.17 QUICKSHIFTER+ (optional)



Condition

- Model with QUICKSHIFTER+.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **QUICKSHIFTER+** is highlighted. Press the **SET** button to open the submenu.
- Use the **RIGHT** or **LEFT** button to switch QUICKSHIFTER+ on or off.

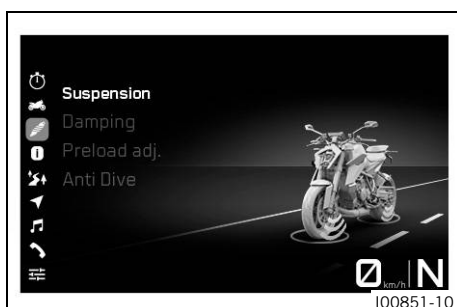
7.28.18 Grip Heating (optional)



Condition

- Model with heated grip.
- **Heated Grip** menu (optional) activated in Settings.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Heating** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Grip Heating** is highlighted. Press **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to select the heating level or to switch the heated grip on or off.

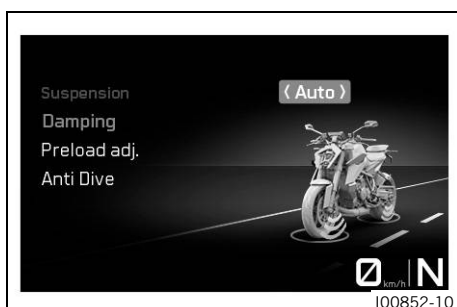
7.28.19 Suspension



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press **RIGHT** button to open the menu.

The suspension mode and other chassis settings can be configured in **Suspension**.

7.28.20 Damping



- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **RIGHT** button to open the menu.
- Press the **UP** or **DOWN** button until **Damping** is highlighted.
- The **Damping Mode** can be selected by pressing the **RIGHT** or **LEFT** button.

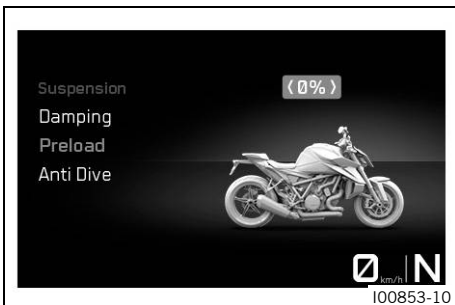
Various settings for the damping of the suspension components can be selected in the **Damping** menu. Settings **Auto** (optional), **Rain** (optional), **Comfort**, **Street**, **Track 1** (optional), **Track 2** (optional), **Track 3** (optional), **Pro 1** (optional), **Pro 2** (optional) and **Pro 3** (optional) are available.

i Info

In **Damping Mode Auto** (optional) the damping of the fork and shock absorber is automatically adjusted to the riding style of the rider.

In **Damping Mode Track** (optional) and **Pro** the damping of the fork and the shock absorber can be configured individually in the **Track** (optional) or **Pro** (optional) menu.

7.28.21 Preload Adjuster



Condition

- The rear wheel is under load.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **RIGHT** button to open the menu.
- Press the **UP** or **DOWN** button until **Preload Adjuster** is highlighted.
- The **Preload Adjuster** can be selected by pressing the **RIGHT** or **LEFT** button.

The spring preload can be adjusted to the load in the **Preload Adjuster** menu. 21 manual settings (0% to 100%) and 3 automatic settings **Low** (optional), **Standard** (optional) and **High** (optional) are available.

The rebound setting is automatically adapted to the payload detected by the system.

i Info

The preload adjuster is only adjusted with the engine running.

In the **Low** (optional), **Standard** (optional) and **High** (optional) automatic settings, the spring preload is automatically adjusted to the payload detected by the system while riding.

In the **Low** (optional), **Standard** (optional) and **High** (optional) automatic settings, it is possible that no adjustment of the spring preload can be detected when stationary.

7.28.22 Anti Dive (optional)



Condition

- Model with **Suspension Pro**.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **RIGHT** button to open the menu.
- Press the **UP** or **DOWN** button until **Anti Dive** is highlighted.
- Press the **RIGHT** or **LEFT** button to select **Anti Dive** on or off.

When **Anti Dive** is activated, the damping is automatically adjusted during braking to prevent the fork dipping strongly.

7.28.23 Pro Options (optional)

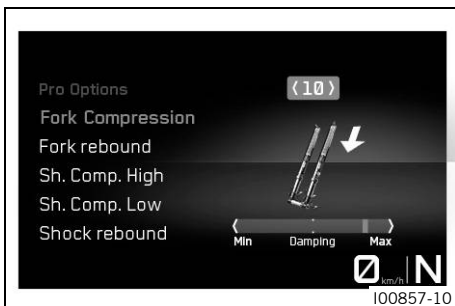


Condition

- The **Damping Mode Pro** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **RIGHT** button to open the menu.
- Press the **UP** or **DOWN** button until **Pro Options** is highlighted.
- ✓ Press the **SET** button to open the menu.

Fork compression damping, fork rebound damping, low-speed shock absorber compression damping, high-speed shock absorber compression damping and shock absorber rebound damping can be adjusted in the **Pro Options** menu.

7.28.24 Fork compression damping (optional)

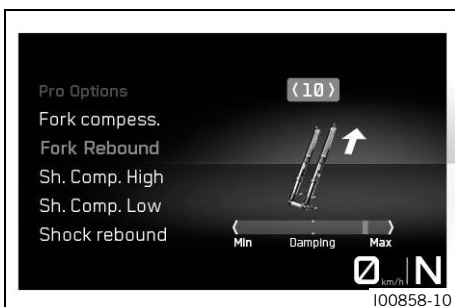


Condition

- The **Suspension Mode Pro** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Pro** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until fork compression damping (optional) is marked.
- Fork compression damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The compression damping of the fork can be selected in the fork compression damping menu (optional). 20 settings are possible.

7.28.25 Fork rebound damping (optional)

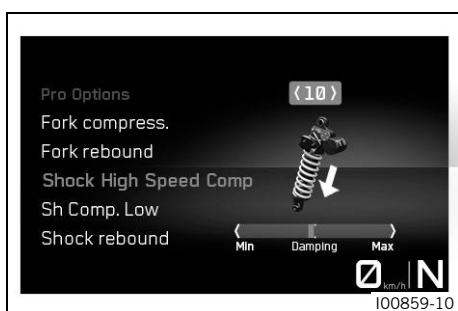


Condition

- The **Suspension Mode Pro** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Pro** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until fork rebound damping (optional) is marked.
- Fork rebound damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The rebound of the fork can be selected in the fork rebound damping menu (optional). 20 settings are possible.

7.28.26 High shock absorber compression damping (optional)

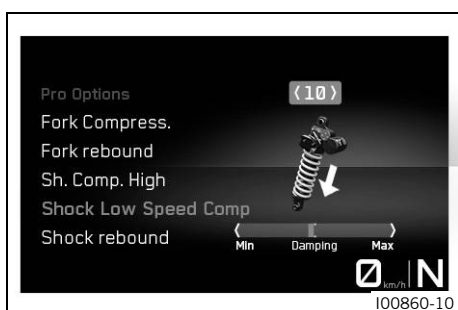


Condition

- The **Suspension Mode Pro** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Pro** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until the high shock absorber compression damping (optional) is marked.
 - High shock absorber compression damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The high compression of the shock absorber can be selected in the high shock absorber compression damping menu (optional). 20 settings are possible.

7.28.27 Low shock absorber compression damping (optional)

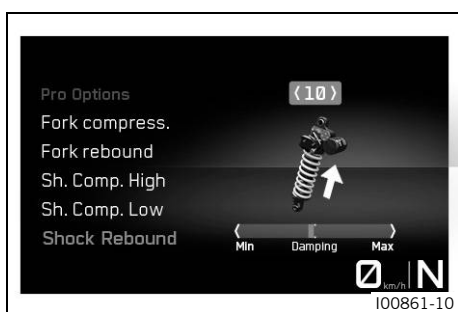


Condition

- The **Suspension Mode Pro** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Pro** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until low shock absorber compression damping (optional) is marked.
 - Low shock absorber compression damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The compression of the shock absorber can be selected in the low shock absorber compression damping menu (optional). 20 settings are possible.

7.28.28 Shock absorber rebound damping (optional)



Condition

- The **Suspension Mode Pro** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Pro** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until shock absorber rebound damping (optional) is marked.
 - Shock absorber rebound damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The rebound of the shock absorber can be selected in the shock absorber rebound damping menu. 20 settings are possible.

7.28.29 Track Options (optional)

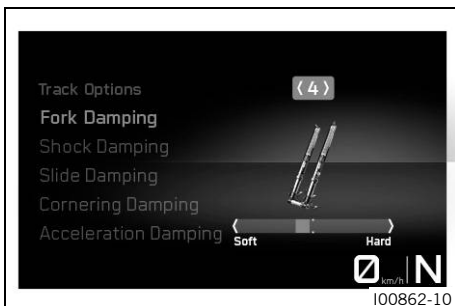


Condition

- The **Damping Mode Track** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **RIGHT** button to open the menu.
- Press the **UP** or **DOWN** button until **Track Options** is highlighted.
- ✓ Press the **SET** button to open the menu.

In the **Track Options** menu, you can adjust fork damping, shock absorber, **Slide Damping**, cornering damping and acceleration damping.

7.28.30 Fork damping (optional)

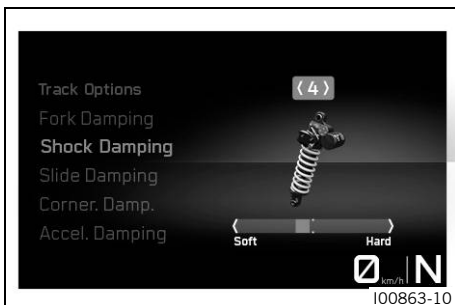


Condition

- The **Suspension Mode Track** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until fork damping (optional) is marked.
- Fork damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The damping of the fork can be selected in the fork damping menu (optional). 8 settings are possible from soft to hard.

7.28.31 Shock absorber damping (optional)

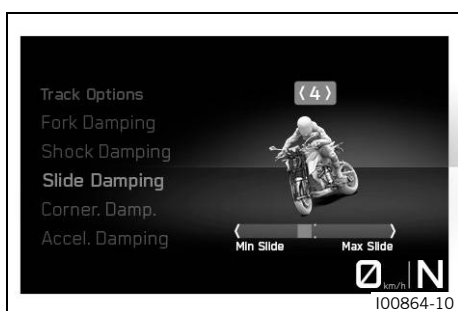


Condition

- The **Suspension Mode Track** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until shock absorber damping (optional) is marked.
- Shock absorber damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The damping of the shock absorber can be selected in the shock absorber damping menu (optional). 8 settings are possible from soft to hard.

7.28.32 Slide Damping (optional)

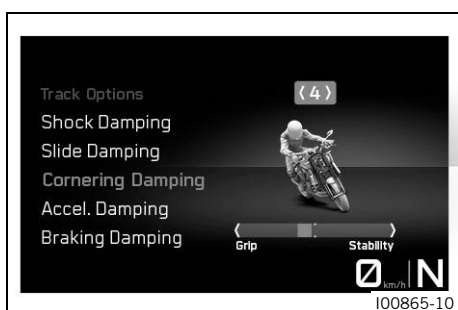


Condition

- The **Suspension Mode Track** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Slide Damping** (optional) is marked.
 - The **Slide Damping** can be selected by pressing the **RIGHT** or **LEFT** button.

In the **Slide Damping** menu (optional), you can set how much rear wheel slip is permitted. 8 settings are possible from minimum to maximum slip.

7.28.33 Cornering damping (optional)

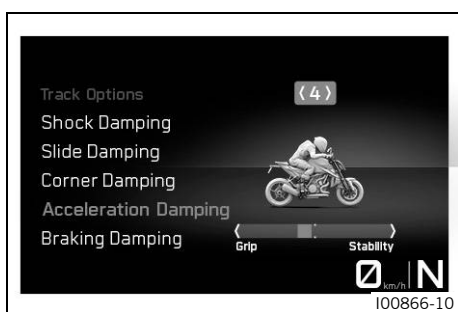


Condition

- The **Suspension Mode Track** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until cornering damping (optional) is marked.
 - Cornering damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The damping characteristics when cornering can be selected in the cornering damping menu (optional). 8 settings are possible from more grip to more stability.

7.28.34 Acceleration damping (optional)

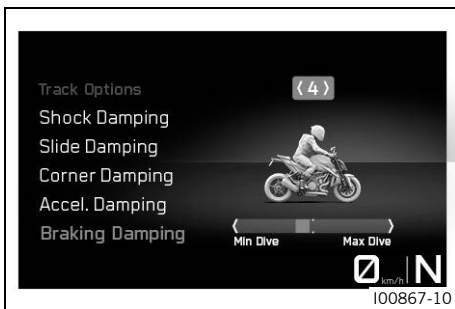


Condition

- The **Suspension Mode Track** (optional) is activated.
 - Press the **RIGHT** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until acceleration damping (optional) is marked.
 - Acceleration damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The damping characteristics when accelerating can be selected in the acceleration damping menu (optional). 8 settings are possible from more grip to more stability.

7.28.35 Braking damping (optional)

**Condition**

- The **Suspension Mode Track** (optional) is activated.
- Press the **RIGHT** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Suspension** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Track** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until braking damping (optional) is marked.
- Braking damping (optional) can be selected by pressing the **RIGHT** or **LEFT** button.

The damping characteristics when braking can be selected in the braking damping menu (optional). 8 settings are possible from maximum to minimum **Dive**.

7.28.36 Bike Info



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Bike Info** is highlighted. Press the **SET** button to open the menu.

General information and warnings that may be present can be called up in **Bike Info**.

7.28.37 Bike Info



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Bike Info** is highlighted. Press **SET** button to open the menu.

TPMS Front (optional) shows the current tire pressure of the front tire.

TPMS Rear (optional) shows the current tire pressure of the rear tire.

**Info**

The set reference value is displayed on the right of the current tire pressure in parentheses.

The tire pressure monitoring system display mode can be set in the **TPMS Mode** (optional) menu.

Water displays the coolant temperature.

Oil Temperature displays the engine oil temperature.

Fuel Range displays the possible distance you can cover with the fuel reserve.

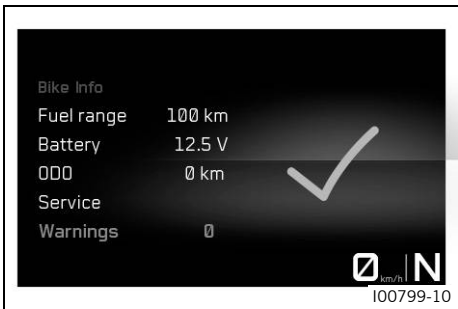
Battery displays the battery voltage.

Odometer displays the total distance covered.

Service displays when the next service is due.

Warnings displays warnings that have occurred until they are no longer active.

7.28.38 Warning



Condition

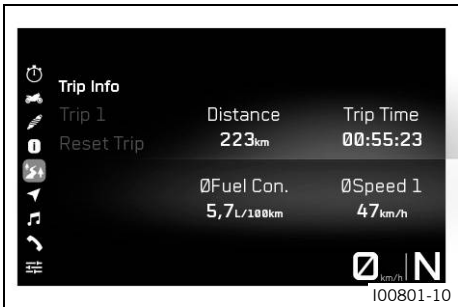
- Message or warning is present.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Bike Info** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Warning** is highlighted. Press the **SET** button to open the submenu.
- Use the **UP** or **DOWN** button to navigate through the warnings.



Info

The warnings that have occurred are saved in the display until they are no longer active.

7.28.39 Trip Info



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Trip** is highlighted. Press the **SET** button to open the menu.

General information on the odometer, riding time, average fuel consumption, and average speed can be accessed in the menu **Trip**.

7.28.40 Trip 1



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Trip** is highlighted. Press **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button until **Trip 1** is marked. Press the **SET** button to open the submenu.

Information on **Trip 1** can be viewed in the **Trip 1** submenu.



Info

Trip displays the distance since the last reset, e.g. between two refueling stops. **Trip** is running and counts up to **9999**.

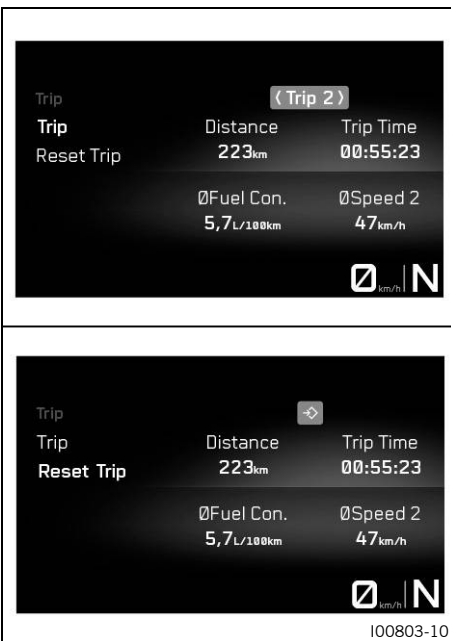
Trip Time shows the riding time on the basis of **Trip** and runs as soon as a speed signal is received.

ØConsump. indicates the average fuel consumption based on **Trip**.

ØSpeed indicates the average speed based on **Trip** and **Trip Time**.

Press **Reset Trip** to reset all entries in the **Trip 1** menu.

7.28.41 Trip 2

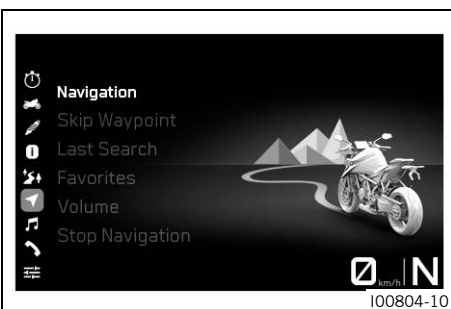


- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Trip** is highlighted. Press **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button until **Trip 2** is marked. Press the **SET** button to open the submenu.

Information on **Trip 2** can be viewed in the **Trip 2** submenu.

- Info**
- Trip** displays the distance since the last reset, e.g. between two refueling stops. **Trip** is running and counts up to **9999**.
 - Trip Time** shows the riding time on the basis of **Trip** and runs as soon as a speed signal is received.
 - ØConsump.** indicates the average fuel consumption based on **Trip**.
 - ØSpeed** indicates the average speed based on **Trip** and **Trip Time**.
- Press **Reset Trip** to reset all entries in the **Trip 2** menu.

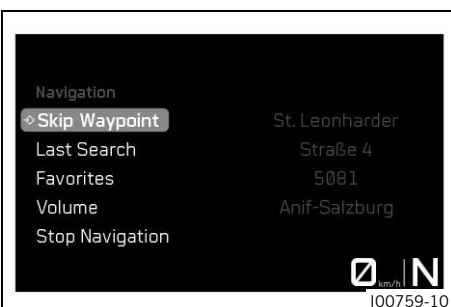
7.28.42 Navigation (Optional)



Condition

- **Bluetooth®** function is activated.
 - The **KTMconnect** app (optional) is installed and connected on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 14 and higher).
 - The combination instrument is connected to a suitable phone.
 - The GPS function is activated on the connected phone.
 - For voice navigation: the combination instrument is connected to a suitable communication system and an appropriate language package has been downloaded in the **KTMconnect Navigation** app (optional).
- Press the **SET** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.

7.28.43 Skip Waypoint (optional)

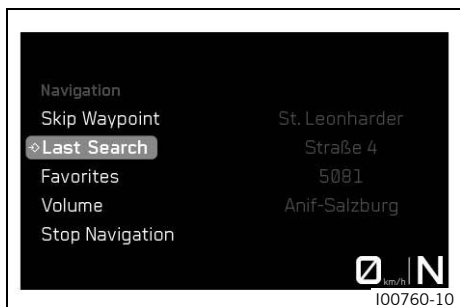


Condition

- **Bluetooth®** function is activated.
 - The **KTMconnect** app (optional) is installed and opened on a suitable cellphone.
 - The combination instrument is connected to a suitable phone.
 - The GPS function is activated on the connected phone.
 - Navigation with at least one interim destination has been started in the **KTMconnect** app (optional).
- Press the **SET** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.
 - Press the **UP** or **DOWN** button until **Skip Waypoint** is marked. Press the **SET** button to select the waypoint.

- Press the **SET** button again to confirm the selection and the waypoint is removed.

7.28.44 Last search (optional)



Condition

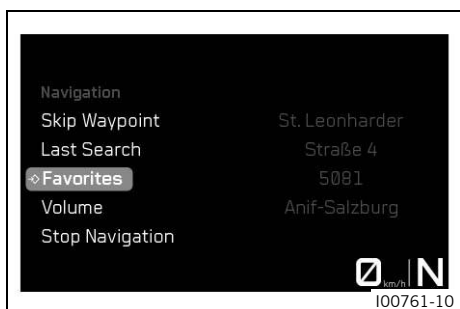
- **Bluetooth®** function is activated.
- The **KTMconnect** app (optional) is installed and opened on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 13 and higher).
- The combination instrument is connected to a suitable phone.
- The GPS function is activated on the connected phone.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Last Search** is marked. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button to select an address.
- Press the **SET** button to confirm the selection and start navigation.



Info

The last 10 addresses searched for in the **KTMconnect** app (optional) are saved in **Last Search**.

7.28.45 Favorites (optional)



Condition

- **Bluetooth®** function is activated.
- The **KTMconnect** app (optional) is installed and opened on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 13 and higher).
- The combination instrument is connected to a suitable phone.
- The GPS function is activated on the connected phone.
- Favorites are saved in the **KTMconnect** app (optional).
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Favorites** is marked. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button to select an address.
- Press the **SET** button to confirm the selection and start navigation.



Info

10 addresses in the **KTMconnect** app (optional) can be stored in **Favorites**.

7.28.46 Volume (optional)



Condition

- The **KTMconnect** app (optional) is installed and connected on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 14 and higher).
 - The combination instrument is connected to a suitable phone.
 - For voice navigation: the combination instrument is connected to a suitable communication system and an appropriate language package has been downloaded in the **KTMconnect** app (optional).
- Press the **SET** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.



Warning

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **UP** or **DOWN** button until **Volume** is marked. Press the **SET** button to open the submenu.
- Press the **UP** button to increase the volume of the activated voice navigation.
- Press the **DOWN** button to reduce the volume of the activated voice navigation.

7.28.47 Stop Navigation (optional)



Condition

- **Bluetooth®** function is activated.
 - The **KTMconnect** app (optional) is installed and opened on a suitable cellphone (Android devices Version 7.0 and higher, iOS devices Version 13 and higher).
 - The combination instrument is connected to a suitable phone.
- Press the **SET** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Navigation** is marked. Press the **SET** button to open the submenu.
 - Press the **UP** or **DOWN** button until **Stop Navigation** is marked. Press the **SET** button to confirm the selection.
 - Press the **SET** button again to confirm the selection and end navigation.

7.28.48 Audio



Condition

- **Bluetooth®** function is activated.
 - The combination instrument is connected to a suitable phone.
 - The combination instrument is connected to a suitable communication system or the **Headset Type Coded** is selected.
- Press the **SET** button when the menu is closed.



Warning

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **UP** or **DOWN** button until **Audio** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** button to increase the audio volume.
- Press the **DOWN** button to reduce the audio volume.
- Press the **RIGHT** button change to the next audio track.
- Pressing the **LEFT** button changes to the previous audio track or plays the current audio track from the start, depending on the cellphone model.
- Press **SET** button to play or pause the audio track.



Info

With some cellphones, the audio player needs to be started before playback is possible.
The **Audio** function can be added to **C1** or **C2** for easier operation.

7.28.49 Call



Warning

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Call** is highlighted. Press the **SET** button to open the menu.



Info

It is not possible to change the audio volume using the combination switch with every cellphone.
The call duration and contact are displayed. Depending on the cellphone settings, the contact is shown by name.
If necessary, accessing contacts must be enabled on the cellphone.
You cannot navigate in the menu during an active phone conversation.

- Press the **RIGHT** button to accept an incoming call.
- Press the **LEFT** button to reject an incoming call.
- Press and hold **UP** button to increase the audio volume.
- Press and hold **DOWN** button to reduce the audio volume.

The last calls and favorites can be called up in the **Call** menu.

7.28.50 Last Calls

**Warning**

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Call** is highlighted. Press the **SET** button to open the menu.

**Info**

It is not possible to change the audio volume using the combination switch with every cellphone.

The call duration and contact are displayed. Depending on the cellphone settings, the contact is shown by name.

If necessary, accessing contacts must be enabled on the cellphone.

You cannot navigate in the menu during an active phone conversation.

- Press the **UP** or **DOWN** button until **Last Calls** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button until the desired person is highlighted. This person can be called by pressing the **SET** button.

7.28.51 Favorites

**Warning**

Danger of accidents Headphone volume which is too high distracts attention from traffic activity.

- Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Call** is highlighted. Press the **SET** button to open the menu.

**Info**

It is not possible to change the audio volume using the combination switch with every cellphone.

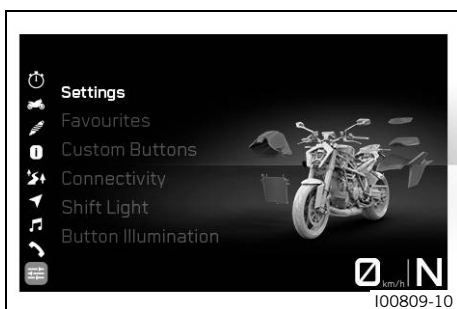
The call duration and contact are displayed. Depending on the cellphone settings, the contact is shown by name.

If necessary, accessing contacts must be enabled on the cellphone.

You cannot navigate in the menu during an active phone conversation.

- Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button until the desired person is highlighted. This person can be called by pressing the **SET** button.

7.28.52 Settings

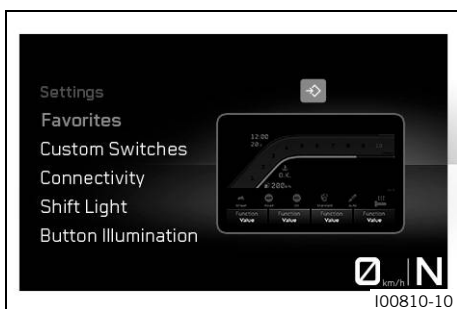


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.

In the **Settings** menu, favorites, quick selections, **Connectivity** (optional), and the shift warning light can be configured. Settings can be made for units or various values. Several functions can be enabled or disabled.

7.28.53 Favorites

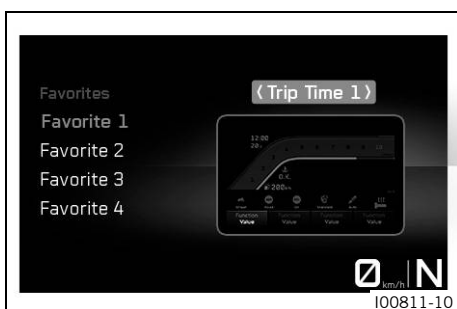


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until “Favorites” is highlighted. Press the **SET** button to open the submenu.
- Access a menu item with the **RIGHT** or **LEFT** button, and add the selected information to the Favorites display using the **SET** button.

Up to four sets of information can be selected in the **Favorites** menu.

7.28.54 Favorites-Anzeige 1-4



Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to select **Favorite 1**, **Favorite 2**, **Favorite 3**, or **Favorite 4**. Press **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to select the desired information. Press the **SET** button to confirm the selection.

7.28.55 Custom Switch

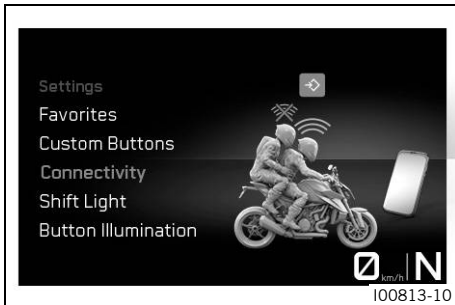


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Custom Switch** is highlighted. Press **SET** button to open the menu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to set a direct selection submenu for **Custom Switch C1** or **C2**.

**Info**

When the menu is closed, the submenu defined in **Custom Switch** is opened by pressing the **C1** or **C2** button.

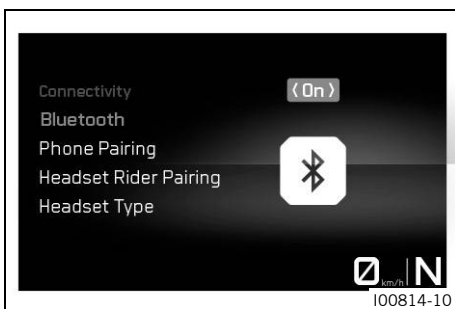
7.28.56 Konnektivität**Condition**

- The motorcycle is stationary.
- **Bluetooth®** function is activated.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the menu.

In the **Connectivity** menu, a suitable cellphone or communication system can be paired with the combination instrument via **Bluetooth®** and the audio function and navigation function can be configured.

**Info**

Not every cellphone or communication system is suitable for pairing with the combination instrument. The standard **Bluetooth®** 4.0 must be supported.

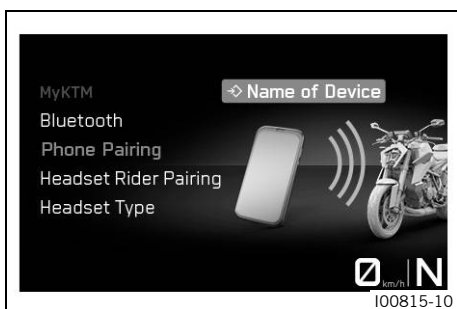
7.28.57 Bluetooth**Condition**

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Bluetooth** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to switch the **Bluetooth®** function on or off.

**Info**

The **Bluetooth®** function must be activated to pair a suitable cellphone or communication system with the vehicle. Not every cellphone or communication system is suitable for pairing with the vehicle.

7.28.58 Pairing a cellphone



Condition

- The motorcycle is stationary.
- **Bluetooth®** function is activated.
- The **Bluetooth®** function should also be activated in the device to be paired.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until “Pair phone” is highlighted. Press the **SET** button to open the submenu.



Info

Only one cellphone can be paired with the vehicle.

- Press the **UP** or **DOWN** button until **New Pairing** is marked. Press the **SET** button to open the menu.
- The vehicle starts searching for a suitable cellphone. If the search was successful, the name of the cell phone is displayed again in the Pairing menu. Press the **SET** button to start the pairing.



Info

The cellphone must be visible via **Bluetooth®** for the vehicle to find the cellphone.
Not every cellphone is suitable for pairing with the vehicle.

- A message appears on the combination instrument indicating that the vehicle is now ready for pairing. The pairing is completed successfully by confirming the **Passkey** on the cellphone and on the combination instrument.



Info

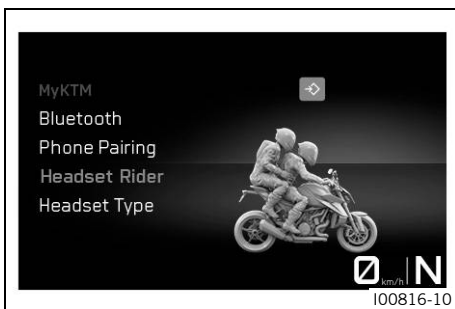
Follow the instructions in the app when connecting with **KTMconnect**. Confirmation may be required on the combination instrument.

- Press the **UP** or **DOWN** button until “Delete pairing” is highlighted. The paired device can be deleted by pressing the **SET** button.
- Move the previously paired device into the range of the vehicle while the **Bluetooth®** function is active.
 - ✓ The device is automatically connected with the vehicle.
 - ✗ If the device is not automatically connected with the vehicle after approx. 30 seconds:
 - Switch on the vehicle again or repeat the **New Pairing** procedure.

A suitable cellphone can be paired with the combination instrument in the **Phone Pairing** submenu via **Bluetooth®**.

**Info**

Not every cellphone or communication system is suitable for pairing with the combination instrument. Make sure the end device is in the correct pairing mode for call management. If the end device is only paired for media playback, the call function may not work.

7.28.59 Pairing a headset**Condition**

- The motorcycle is stationary.
 - **Bluetooth®** function is activated.
 - The **Bluetooth®** function should also be activated in the device to be paired.
- Press the **SET** button when the menu is closed.
 - Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **Riders Headset** is highlighted. Press the **SET** button to open the menu.
 - Press the **UP** or **DOWN** button until **New Pairing** is marked. Press the **SET** button to open the menu.
 - The vehicle starts searching for a suitable communication system. If the search was successful, the name of the rider's headset is displayed in the **New Pairing** submenu. Press the **SET** button to start the pairing.

**Info**

The communication system must be in pairing mode for the communication system to be found by the vehicle. Follow the instructions in the communication system owner's manual.

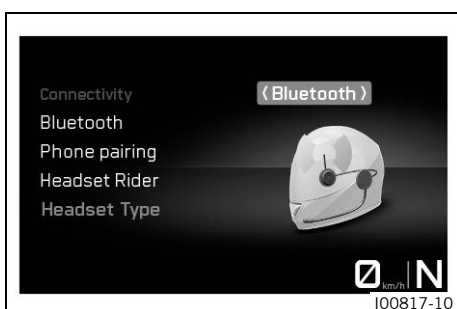
Press the **UP** or **DOWN** button until **Delete Pairing** is highlighted. The paired device can be deleted by pressing the **SET** button.

Not every communication system is suitable for pairing with the vehicle.

- Move the previously paired device into the range of the vehicle while the **Bluetooth®** function is active.
- ✓ The device is automatically connected with the vehicle.
- ✗ If the device is not automatically connected with the vehicle after approx. 30 seconds:
 - Switch on the vehicle again or repeat the **New Pairing** procedure.

In the **Riders Headset** menu, a suitable rider communication system can be paired with the vehicle.

7.28.60 Headset Type



Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Headset Type** is highlighted.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to change the rider headset type.

The connection mode for the rider headset can be selected in the **Headset Type** menu.

The communication system is connected to the vehicle wirelessly via **Bluetooth®** in **Bluetooth Headset** display mode.

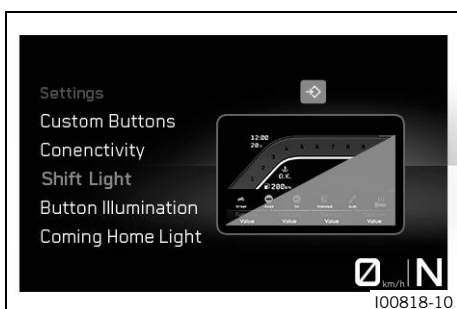
The communication system is connected directly to the smart-phone in display mode **Corded Headset**.



Info

The **Riders Headset** menu item is only available in **Headset Type Bluetooth**.

7.28.61 Shift Light



Condition

- The motorcycle is stationary.
- **ODO** > 1,000 km (621 mi).
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.

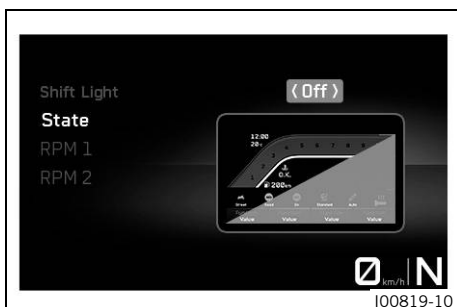
The shift warning light can be configured in the **Shift Light** submenu.



Info

The speed limiter is dependent on the coolant temperature.

7.28.62 Shift Light State



Condition

- The motorcycle is stationary.
- **ODO** > 1,000 km (621 mi).
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Use the **RIGHT** or **LEFT** button to switch the shift warning light on or off.

7.28.63 RPM1

**Condition**

- The motorcycle is stationary.
- **ODO** > 1,000 km (621 mi).
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **RPM1** is highlighted. Press the **SET** button to open the submenu.
- Press the **RIGHT** or **LEFT** button to set the value for **RPM1**.

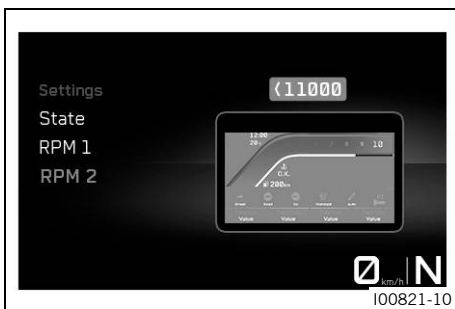
**Info**

RPM1 can be set in intervals of 500 between 5,500 and 10,000 rpm.

RPM1 must not be larger than **RPM2**.

If the engine speed reaches the set value **RPM1**, the engine speed display flashes as a shift warning light.

7.28.64 RPM2

**Condition**

- The motorcycle is stationary.
- **ODO** > 1,000 km (621 mi).
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **RPM2** is highlighted. Press the **SET** button to open the submenu.
- Press the **RIGHT** or **LEFT** button to set the value for **RPM2**.

**Info**

RPM2 can be set in intervals of 500 between 7,000 and 10,000 rpm.

RPM2 must not be smaller than **RPM1**.

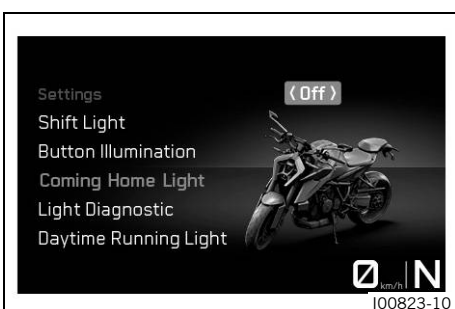
If the engine speed reaches the set value **RPM2**, the screen flashes as a shift warning light.

7.28.65 Button Illumination

**Condition**

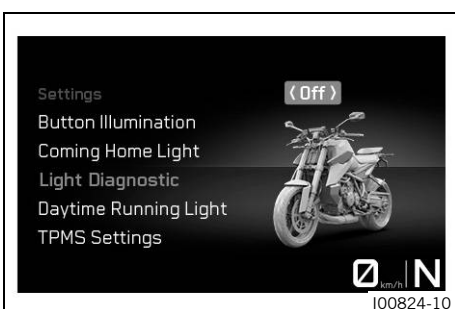
- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Button Illumination** is highlighted.
- Press the **RIGHT** or **LEFT** button to select the button illumination level or switch off the button illumination.

7.28.66 Coming Home Light



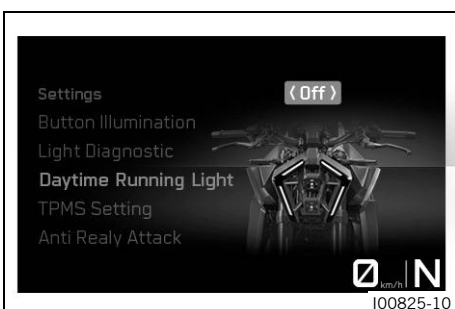
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Coming Home Light** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to adjust **Coming Home Light**. The setting options are off, short and long.

7.28.67 Light Diagnostic



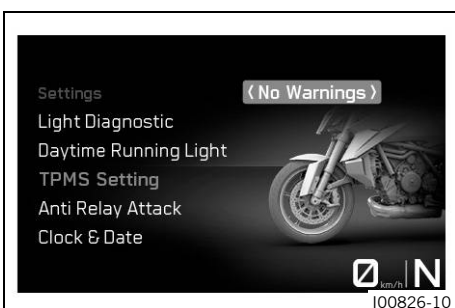
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Light Diagnostic** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to activate or deactivate **Light Diagnostic**.

7.28.68 Daytime Running Light



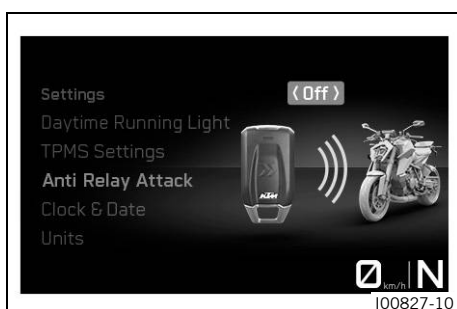
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Daytime Running Light** is marked. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to activate or deactivate **Daytime Running Light**.

7.28.69 TPMS Settings (optional)



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **TPMS Settings** (optional) is marked. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to activate or deactivate the warnings from **TPMS Settings** (optional).

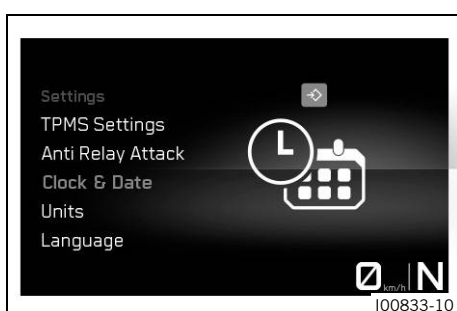
7.28.70 Anti Relay Attack



Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Anti Relay Attack** is highlighted.
- Use the **RIGHT** or **LEFT** button to switch the **Anti Relay Attack** on or off.

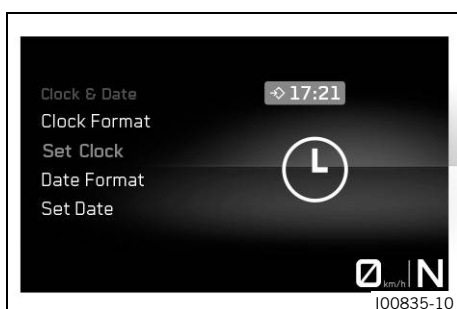
7.28.71 Setting the time and date



Condition

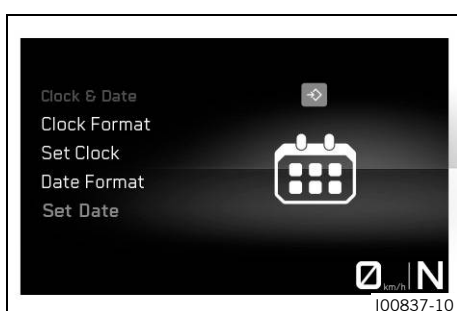
The motorcycle is stationary.

- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Settings** appears. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted. Press the **SET** button to open the submenu.



Setting the clock

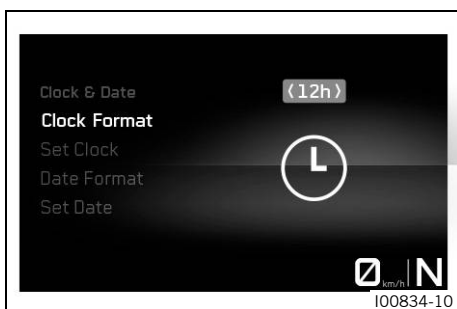
- Press the **UP** or **DOWN** button until **Set Clock** is marked.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until the current hour is set. Press the **SET** button to select the hour.
- Press the **UP** or **DOWN** button until the current minute is set. Press the **SET** button to select the minute.
- Press the **BACK** button to exit the menu.



Setting the date

- Press the **UP** or **DOWN** button until **Set Date** is marked.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until the current day is set. Press the **SET** button to select the day.
- Press the **UP** or **DOWN** button until the current month is set. Press the **SET** button to select the month.
- Press the **UP** or **DOWN** button until the current year is set. Press the **SET** button to select the year.
- Press the **BACK** button to exit the menu.

7.28.72 Clock Format



Condition

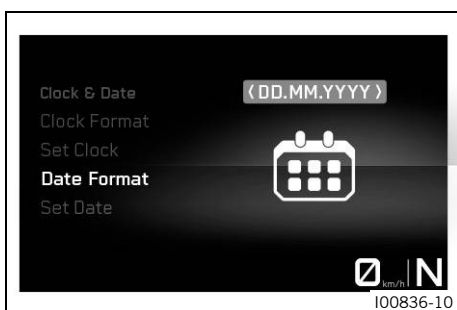
- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Clock Format** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to select the time format.



Info

The setting options are 24h and 12h.

7.28.73 Date Format



Condition

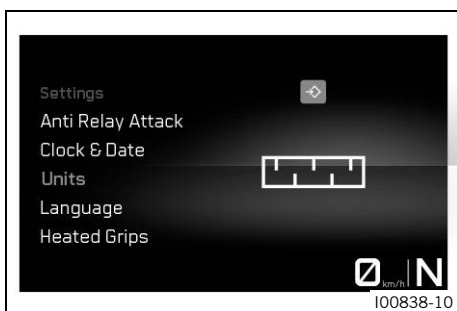
- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Date Format** is highlighted. Press the **SET** button to open the menu.
- Press the **RIGHT** or **LEFT** button to select the date format.



Info

The setting options are DD.MM.YYYY, MM.DD.YYYY and YYYY.MM.DD.

7.28.74 Units

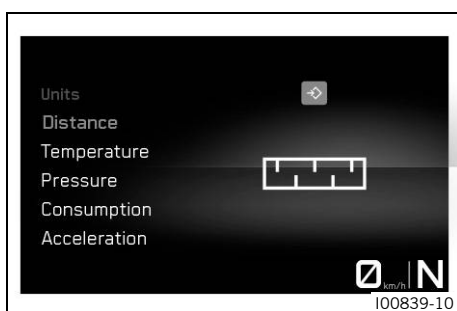


Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.

The **Units** submenu allows settings to be made for units or various values.

7.28.75 Distance



Condition

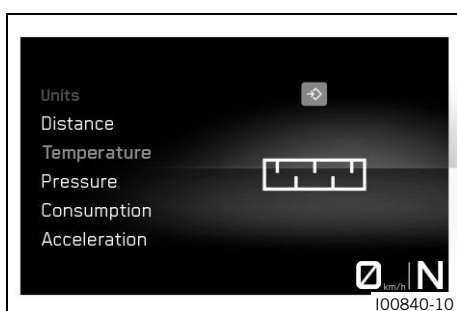
- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Distance** is marked. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired unit.



Info

The setting options are kilometers or miles.

7.28.76 Temperature



Condition

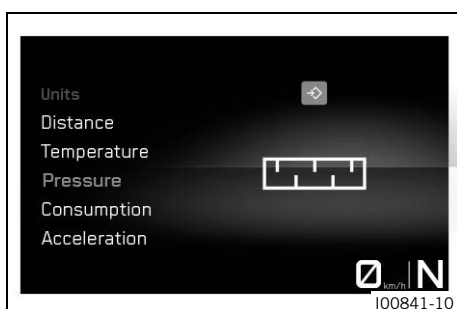
- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Temperature** is marked. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired unit.



Info

The setting options are Celsius or Fahrenheit.

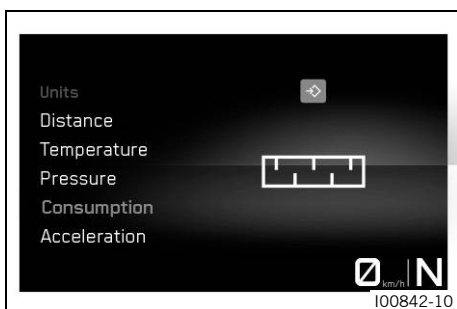
7.28.77 Pressure



Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Pressure** is marked. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired unit.

7.28.78 Consumption



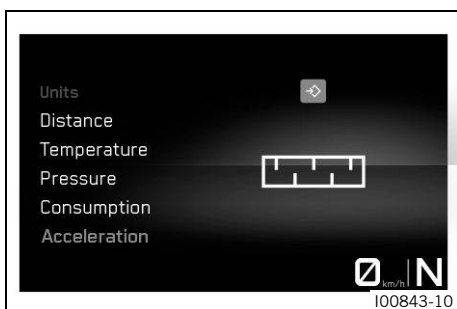
Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Consumption** is marked. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired unit.

Info

The setting options are l/100km, km/l, USG/100mi, mi/USG, mi/l, l/100mi, UKG/100mi and mi/UKG.

7.28.79 Beschleunigung



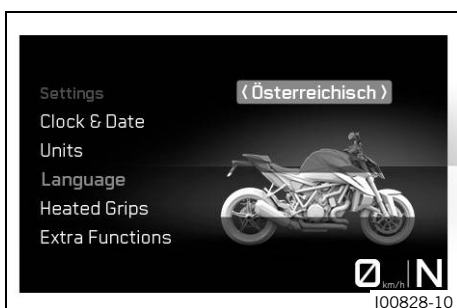
Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until acceleration is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired unit.

Info

The setting options are m/s² and ft/s².

7.28.80 Language



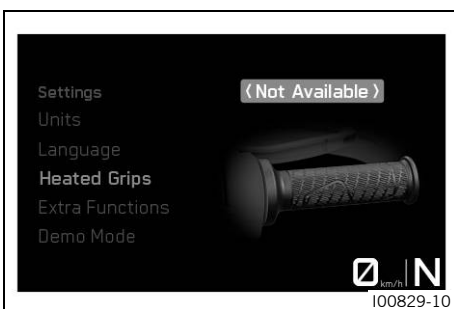
Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Language** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **RIGHT** or **LEFT** button.
- Press the **SET** button to confirm the desired language.

Info

The menu languages are US English, UK English, German, Italian, French, and Spanish.

7.28.81 Heating (optional)



Condition

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Heating** is highlighted. Press the **SET** button to open the submenu.

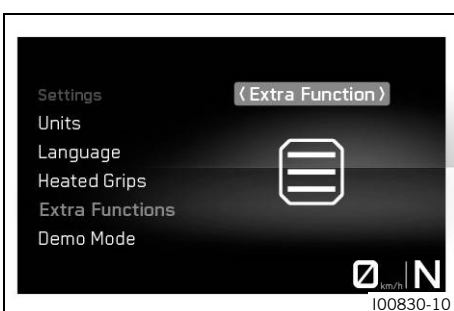
The heated grip can be configured using **RIGHT** and **LEFT** in the **Heating** submenu.



Info

In the **Settings** menu, the **Heating** submenu only controls the visibility of **Heated Grips** in the menu.

7.28.82 Extra Functions



Condition

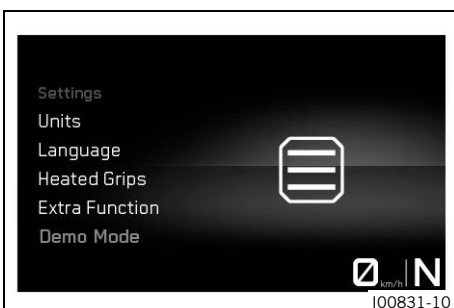
- The motorcycle is stationary.
- Motorcycle with optional supplementary function.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Extra Functions** is highlighted. Press the **SET** button to open the submenu.
- Use the **UP** or **DOWN** button to navigate through the extra functions.



Info

The optional extra functions are listed. The current **KTM PowerParts** and available software are listed on the KTM website.

7.28.83 Demo Mode



Condition

- The motorcycle is stationary.
- Motorcycle with demo mode.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Demo Mode** is highlighted. Press the **SET** button to open the submenu.
- Use the **UP** or **DOWN** button to navigate through the demo mode functions.

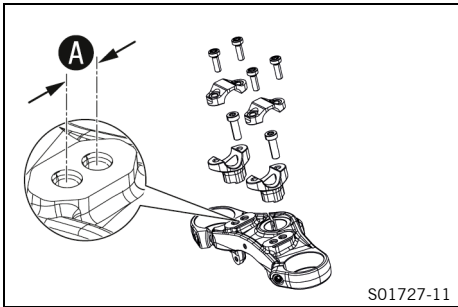


Info

The activated demo mode functions (📖 p. 28) are listed.

Once the demo mode expires, the optional software functions are available from an authorized KTM dealer.

8.1 Handlebar position



On the upper triple clamp there are two holes at a distance of **A** apart.

Hole distance A	15 mm (0.59 in)
------------------------	-----------------

The handlebar can be mounted in two different positions. In this way, the handlebar can be mounted in the most comfortable position for the rider.

Info

KTM recommends the front handlebar position when using the vehicle on a race track.

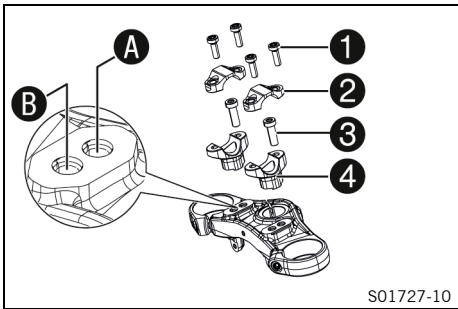
8.2 Adjusting the handlebar position

Warning

Danger of accidents A repaired handlebar poses a safety risk.

If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.



- Remove screws **1**. Take off the handlebar clamps **2**. Position the handlebar so that screws **3** are accessible.

Info

Cover the components to protect them against damage. Do not kink the cables and lines.

- Remove screws **3**. Take off handlebar supports **4**.
- Move the handlebar supports into the desired position **A** or **B**. Mount and tighten screws **3**.

Guideline

Mount the left and right handlebar supports in the same position.

Screw, handlebar support	M10	40 Nm (29.5 lbf ft) Loctite®243™
--------------------------	-----	--

- Position the handlebar.

Info

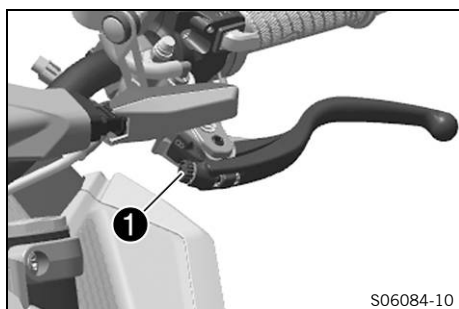
Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamp. Mount screws **1** and tighten evenly.

Guideline

Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
------------------------	----	---------------------

8.3 Adjusting the basic position of the clutch lever



- Push the clutch lever forward.
- Adjust the basic position of the clutch lever to your hand size by turning adjusting screw ①.



Info

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

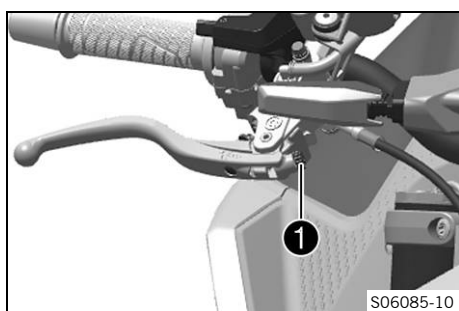
The range of adjustment is limited.

Only turn the adjusting screw by hand, and do not use force.

Do not make any adjustments while riding.



8.4 Adjusting the basic position of the hand brake lever



- Push the hand brake lever forward.
- Adjust the basic position of the hand brake lever to your hand size by turning adjusting screw ①.



Info

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

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

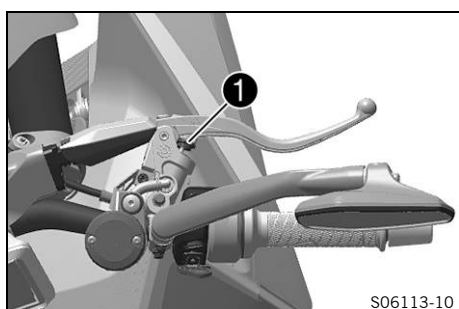
The range of adjustment is limited.

Only turn the adjusting screw by hand, and do not use force.

Do not make any adjustments while riding.



8.5 Adjusting the response of the hand brake lever



- Adjust the response of the hand brake lever with adjusting screw ①.
- ✓ 19 - Setting with large hand brake lever transmission ratio (soft response, more lever travel, less lever force).
- ✓ 20 - Setting with balanced hand brake lever response.
- ✓ 21 - Setting with small hand brake lever transmission ratio (hard response, less lever travel, more lever force).



Info

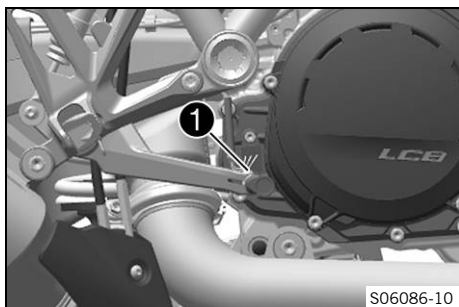
The transmission ratio and, therefore, the response of the hand brake lever can be changed.

Only turn the adjusting screw by hand, and do not use force.

Do not make any adjustments while riding.



8.6 Setting the step plate of the foot brake lever



- Loosen screw ①.
- Turn the step plate of the foot brake lever to the desired position.

Guideline

Standard	Step plate positioned to the front
----------	------------------------------------

i Info

The step plate of the foot brake lever can be freely rotated through 360 °.

The basic position of the foot brake lever is set at the factory and does not need to be changed.

- Tighten screw ①.

Guideline

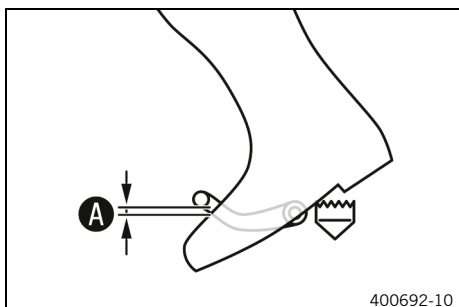
Screw, step plate for foot brake lever	M6	10 Nm (7.4 lbf ft)
--	----	--------------------

8.7 Checking the basic position of the shift lever

i Info

When driving, the shift lever must not touch the rider's boot when in the basic position.

If the shift lever is permanently touching the boot, the transmission will be subject to excessive load; this can cause a malfunction of the quickshifter.

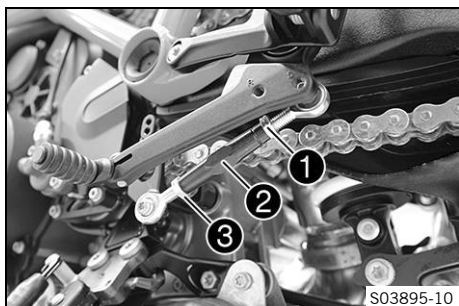


- Sit on the vehicle in the riding position and measure the distance A between the upper edge of your boot and the shift lever.

Distance between shift lever and upper edge of boot	10 ... 20 mm (0.39 ... 0.79 in)
---	---------------------------------

- » If the distance does not meet specifications:
 - Set the basic position of the shift lever. 🛠️ (p. 76)

8.8 Adjusting the basic position of the shift lever 🛠️



- Loosen nut ①, holding threaded rod ②.

i Info

Nut ① has a left-handed thread.

- Loosen nut ③, holding threaded rod ②.
- Turn threaded rod ② to adjust the shift lever.

i Info

The range of adjustment is limited.

The shift lever must not come into contact with any other vehicle components during the shift procedure.

- Tighten nut ③ while holding threaded rod ②.

Guideline

Nut, shift rod	M8	12 Nm (8.9 lbf ft)
----------------	----	--------------------

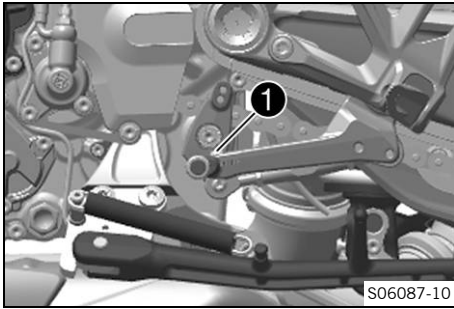
- Tighten nut ① while holding threaded rod ②.

Guideline

Nut, shift rod	M8LH	12 Nm (8.9 lbf ft)
----------------	------	--------------------



8.9 Setting the shift lever stub



- Loosen screw ①.
- Turn the shift lever stub to the desired position.

Guideline

Standard	Step plate positioned to the front
----------	------------------------------------



Info

The shift lever stub can be freely rotated through 360°.

The shift lever stub is set at the factory and does not need to be changed.

- Tighten the screw.

Guideline

Screw, shift lever stub	M6	10 Nm (7.4 lbf ft)
-------------------------	----	--------------------



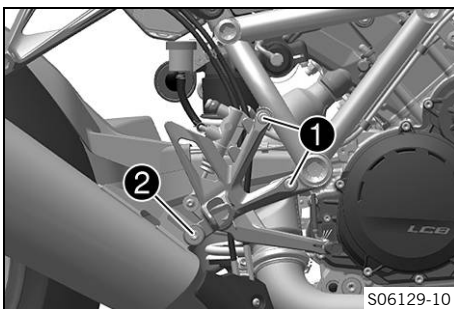
8.10 Adjusting the footrests



Info

The adjustable footrest support allows a more comfortable lower footrest position (normal switching scheme) or a sporty upper footrest position (reverse switching scheme).

The footrest support position and switching scheme can only be changed together.



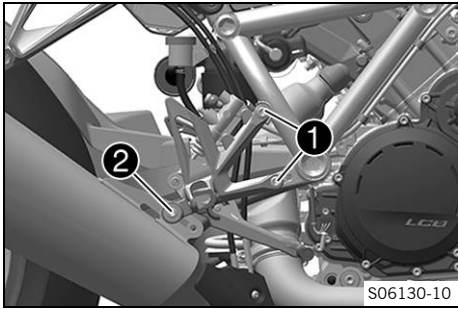
- Remove screws ① on the right footrest support.



Info

Pay attention to the nut when removing the lower footrest support bolt.

- Loosen screw ②.



- Position the footrest bracket.
- Mount and tighten screws ①.

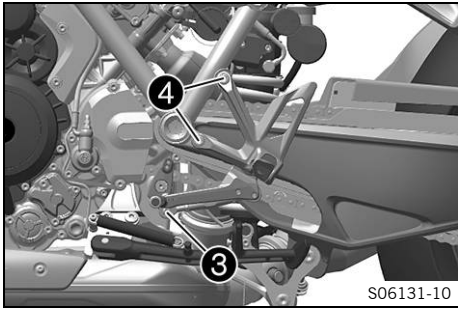
Guideline

Screw, front rider footrest bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
-------------------------------------	----	--

- Tighten screw ②.

Guideline

Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
---------------------------	----	---------------------



- Remove screw ③ of the shift linkage.
- Remove screws ④ on the left footrest support and take off the footrest support.



Info

Pay attention to the nut when removing the lower footrest support bolt.



- Separate the shift linkage from the shift lever and mount in position "R".

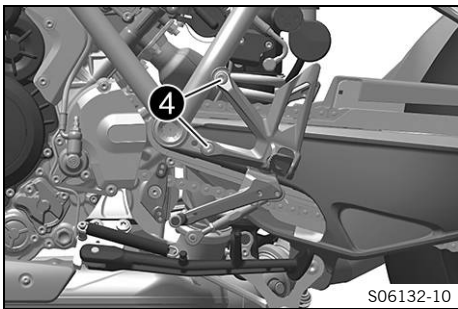
Guideline

Screw, shift rod	M6	5 Nm (3.7 lbf ft) Loctite®243™
------------------	----	--



Info

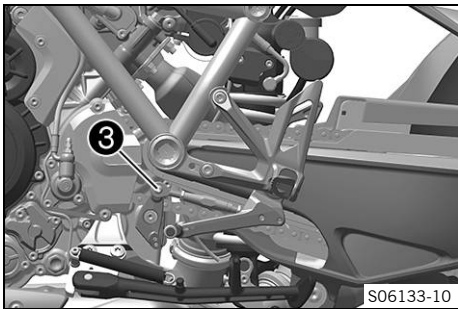
The shift linkage is set at the factory. It is not necessary to adjust the shift linkage. When the footrest support is returned to the standard position, the shift linkage on the shift lever must be mounted in position "S".



- Position the footrest bracket.
- Mount and tighten screws ④.

Guideline

Screw, front rider footrest bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
-------------------------------------	----	--



- Position the shift linkage at one of the upper positions of the shift shaft.

Guideline

Outer position	Shift power low, long shift path
Inner position	Shift power high, short shift path



Info

When the footrest support is returned to the standard position, one of the lower positions on the shift shaft must be used.

- Mount and tighten screw ③.

Guideline

Screw, shift rod	M6	5 Nm (3.7 lbf ft) Loctite®243™
------------------	----	--



Info

The switching scheme is now reversed.



9.1 Advice on preparing for 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 and only gradually increase the lean angle.
Run-in distance 200 km (124 mi)



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 if you do not want to brake.



Info

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

- Make sure that the pre-sales inspection work has been carried out by an authorized KTM workshop.
✓ You will receive a delivery certificate when the vehicle is handed over.
- Before riding for the first time, read the entire Owner's Manual carefully.
- Get to know the controls.
- Adjust the motorcycle to your requirements, as described in the "Ergonomics" chapter.
- Get used to the handling characteristic of the motorcycle in a suitable area before making a longer trip. Try also to ride as slowly as possible to get a better feel for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Run the engine in.

9.2 Running in the engine

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

Guideline

Maximum engine speed	
During first: 1,000 km (620 mi)	6,500 rpm
After first: 1,000 km (620 mi)	10,250 rpm

- Avoid fully opening the throttle.



9.3 Loading the vehicle



Warning

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

The total weight consists of: operational motorcycle with a full tank, rider and, if necessary, a passenger with protective clothing and helmet, and, if necessary, mounted luggage.

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



Warning

Danger of accidents Improper mounting of cases, tank rucksacks or other luggage impairs the handling characteristics.

Luggage mounted incorrectly can slip while the vehicle is in motion.

- Mount and secure all luggage according to the manufacturer's instructions.
- Check that your luggage is fixed properly at regular intervals.



Warning

Danger of accidents Carrying luggage alters handling characteristics at high speed.

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



Warning

Danger of accidents Overloading will destroy the baggage system.

- Observe the manufacturer's instructions on the maximum payload if you have panniers mounted to your motorcycle.



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

Fire hazard The hot exhaust system may burn luggage.

- Fasten your luggage in such a way that it cannot be burned or singed by the hot exhaust system.

9 PREPARING FOR USE

- If luggage is carried, ensure 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 maximum permissible weight and maximum permissible axle loads.

Guideline

Maximum permissible overall weight	425 kg (937 lb.)
Maximum permissible front axle load	165 kg (364 lb.)
Maximum permissible rear axle load	260 kg (573 lb.)

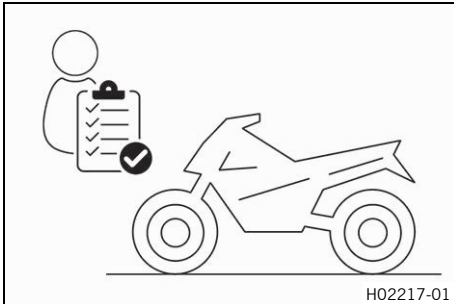


10.1 Checks and maintenance measures when preparing for use



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 it is being operated.



- Check the engine oil level. (📖 p. 140)
- Check the front brake fluid level. (📖 p. 114)
- Check the rear brake fluid level. (📖 p. 116)
- Check that the brake linings of the front brake are secured. (📖 p. 115)
- Check that the brake linings of the rear brake are secured. (📖 p. 118)
- Check that the brake system is functioning properly.
- Check the coolant level in the compensating tank. (📖 p. 136)
- Check the chain for dirt. (📖 p. 106)
- Check the chain tension. (📖 p. 107)
- Check tire condition. (📖 p. 122)
- Check tire pressure. (📖 p. 123)
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check that the electrical system is functioning properly.
- Check that luggage is properly secured.
- Check the setting of the rear mirror.
- Check the fuel level.



10.2 Starting the vehicle



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 effective exhaust extraction when starting or running the engine in an enclosed space.



Caution

Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

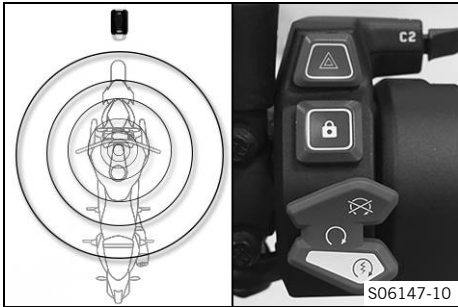
If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.

- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

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.



- Take the motorcycle off the side stand and sit on the motorcycle.
- Move the RACE ON button within the range of the steering lock.
- Ensure that the RACE ON key stays in range while riding.

Guideline

Maximum range of the RACE ON key around the steering lock	1.5 m (4.9 ft)
---	----------------



Info

The range may be reduced by decreases in RACE ON key battery voltage and by interfering radio waves. If the battery voltage of the RACE ON key is too low, one of the ignition keys must be placed in the area of the steering lock (p. 21) and must be safely stored again after starting.

- Make sure that the start button/emergency OFF switch is in the middle position ○.
- Switch on ignition; to do this, briefly press the Unlock button (maximum of 1 second).

Guideline

To avoid malfunctions in the control unit communication, do not switch the ignition off and on in rapid succession.

- ✓ The steering is unlocked.
- ✓ The function check of the combination instrument is run.
- ✓ The ABS warning lamp goes out when starting off.



Info

If the steering does not unlock, move the handlebar slightly.

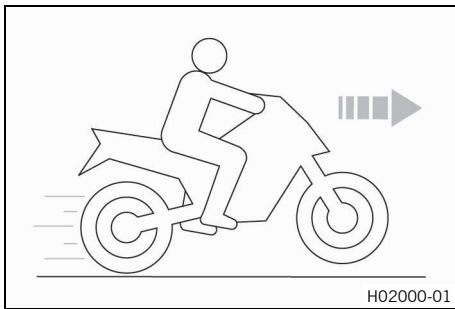
- Shift the transmission into neutral.
 - ✓ Neutral position **N** is displayed.
- Briefly press the start button/emergency OFF switch into the lower position (Ⓢ).



Info

Only press the start button/emergency OFF switch into the lower position (Ⓢ) when the combination instrument function check has been completed. Do not open the throttle to start. If the starting attempt is unsuccessful, wait for 15 seconds before making another attempt at starting. After 6 unsuccessful starting attempts, do not try again, and check the vehicle for other malfunctions instead. 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, the engine stops.

10.3 Launch control (optional)



Launch control is an optional vehicle electronics function. Launch control adjusts the engine speed in order to achieve the best possible acceleration. Launch control can be used for starting off for a maximum of three times in succession. Launch control is temporarily deactivated after the third starting off in order to protect the engine, transmission and cooling system from overloading. Launch control is also deactivated if all conditions for activation are no longer met. Launch control is enabled again in the following cases: the engine runs for at least three minutes, the engine is switched off for 20 minutes or a distance of 1.5 km (0.93 mi) has been covered.

10.4 Starting off

- Pull the clutch lever, shift into first gear, release the clutch lever slowly and at the same time open the throttle gently.



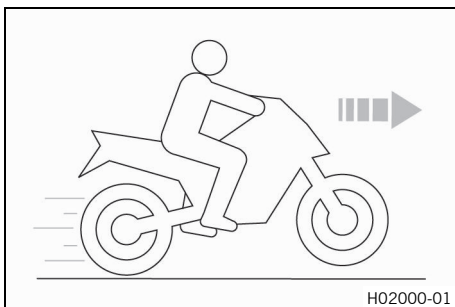
10.5 Starting off with launch control (optional)



Warning

Danger of accidents Launch control enables powerful acceleration which may overwhelm a novice rider.

- Only use the launch control if you have the necessary experience.
- Do not use launch control on public roads.



Condition

The **TRACK** riding mode (optional) is activated.

First gear is engaged.

The TC indicator lamp does not light up.

Coolant temperature: > 60 °C (> 140 °F)

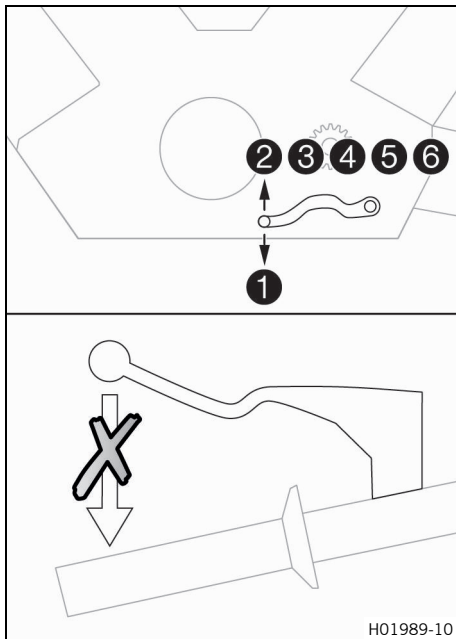
Total riding distance covered: > 1,000 km (> 620 mi)

- Activate launch control in the combination instrument.
 - ✓ The number of available starts is indicated on the start screen.
- Apply full throttle with the clutch lever pulled.
 - ✓ The engine speed is adjusted.

6,500 rpm
 - ✓ The TC indicator lamp flashes quickly.
- Release clutch lever quickly but in a controlled manner.



10.6 QUICKSHIFTER+ (optional)



If the **QUICKSHIFTER+** (optional) is activated, you can shift up and down without actuating the clutch. Because there is no need to close the throttle grip, uninterrupted gear shifts are possible. The **QUICKSHIFTER+** uses the shift shaft position to check whether or not a shift should be initiated, and sends a corresponding signal to the engine control unit. If the **QUICKSHIFTER+** is disabled in the combination instrument, the clutch needs to be actuated in the normal way for each shift.

10.7 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 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 pegs 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 and only gradually increase the lean angle.
Run-in distance 200 km (124 mi)



Warning

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

The total weight consists of: operational motorcycle with a full tank, rider and, if necessary, a passenger with protective clothing and helmet, and, if necessary, mounted luggage.

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



Warning

Danger of accidents Improper mounting of cases, tank rucksacks or other luggage impairs the handling characteristics.

Luggage mounted incorrectly can slip while the vehicle is in motion.

- Mount and secure all luggage according to the manufacturer's instructions.
- 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 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.

- Only operate the vehicle if it is equipped with an air filter.

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.

Note

Transmission damage Incorrect use of the QUICKSHIFTER+ will damage the transmission.

The QUICKSHIFTER+ can only be used if the function is enabled in the combination instrument.

The QUICKSHIFTER+ is not active if you pull the clutch lever.

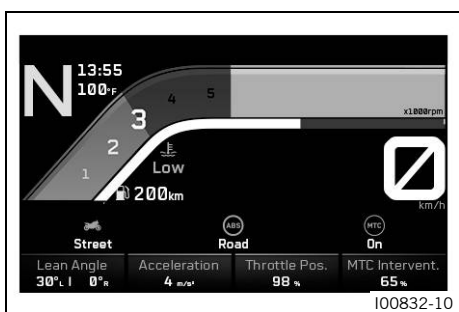
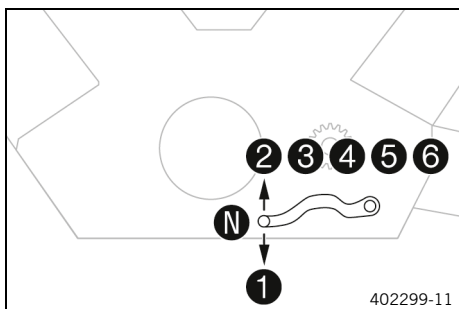
- Only use the QUICKSHIFTER+ in the permitted speed range shown.



Info

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

All specifications regarding the switching direction refer to the standard switching scheme.



- 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




The gear positions can be seen in the figure. The idle position is between the first and second gears. First gear is used for starting off or for steep inclines.

- Accelerate as gently as possible while the motorcycle is still **not** at operating temperature.



Info

While the motorcycle is **not** at operating temperature, the maximum engine speed is limited to 6500 rpm. On the combination instrument, the speed range after 6500 rpm has a blue background.

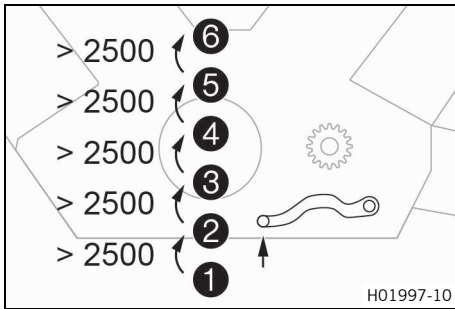
- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is $\frac{3}{4}$ open. This will barely reduce the speed, but fuel consumption will be considerably lower.
- Accelerate only up to a speed suitable for the road surface and weather conditions. Particularly 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 clutch lever and shift into a lower gear, release the clutch lever slowly, and open the throttle or shift again.
- If the engine stalls (e.g., at a crossroads), just pull clutch lever and press the start button/emergency OFF switch into the lower position (3). The transmission must not be shifted into neutral.
- Switch off the engine if you are likely to be running at idle speed or stationary for a long time.
- If the oil pressure warning lamp  lights up during a trip, stop immediately and switch off the engine. Contact an authorized KTM workshop.
- If the malfunction indicator lamp  lights up during a trip, please contact an authorized KTM workshop as soon as possible.
- If the general warning lamp  lights up during a trip, the display shows a message for 10 seconds.



Info

Very important messages are stored in the **Warning** menu.

- If the ice warning appears in the combination instrument, the roads may be icy. Adjust your speed to the road conditions.



Condition

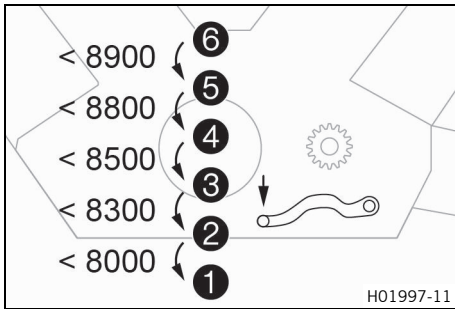
QUICKSHIFTER+ (optional) is enabled.

- If the QUICKSHIFTER+ is enabled in the combination instrument, one can shift up in the engine speed range shown without pulling the clutch lever.



Info

The minimum engine speed before shifting up is shown in the figure in revolutions per minute. Pull the shift lever to the stop quickly without changing the throttle twist grip position.



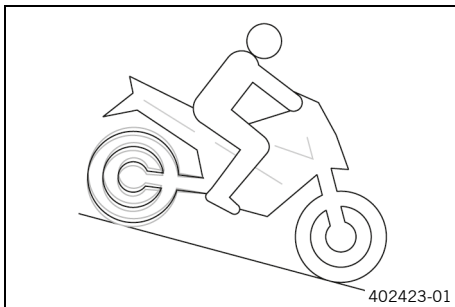
- If the QUICKSHIFTER+ is activated in the combination instrument, you can shift down in the engine speed range shown without pulling the clutch lever.



Info

The maximum engine speed before shifting down is shown in the figure in revolutions per minute. Press the shift lever to the stop quickly without changing the throttle twist grip position.

10.8 MSR (optional)



The **MSR** is an optional auxiliary function of the engine control. If the engine braking effect is too great, the **MSR** prevents the rear wheel from locking or sliding away on a sloping position. To avoid slip of the rear wheel, the **MSR** only opens the throttle valve as far as absolutely necessary. The **MSR** is applied on surfaces, where the friction coefficient is too low to open the slipper clutch. To further increase ride safety, the **MSR** is slope dependent.



Info

If ABS is disabled, the cornering MTC is disabled or ABS Mode **Supermoto** is enabled, the **MSR** is not active.

10.9 Braking



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 if you do not want to brake.



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 ABS may increase the stopping distance in certain situations.

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



Warning

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

The ABS effectiveness is only ensured if it is switched on.

- Leave the ABS switched on in order to benefit from the protective effect.



Warning

Danger of accidents Driving aids can reduce the probability of a fall only within physical limits.

It is not always possible to compensate for certain riding situations, for example with luggage loaded with a high center of gravity, varying road surfaces, steep descents or full braking without disengaging the gear.

- Adapt your riding style to the road conditions and your driving ability.

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



Info

When the ABS is enabled, you can achieve maximum braking power even on surfaces with low road grip, such as sandy, wet, or slippery terrain, without the danger of the wheels locking.



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.

- Always finish braking before the going 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.

10.10 Stopping, parking



Warning

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

If a valid transponder is in range, the vehicle can be started.

- Do not leave the vehicle unattended if the engine is running.
- Never leave the vehicle unattended if the RACE ON key or the black ignition key are close to the vehicle.
- Protect the vehicle against access by unauthorized persons.
- Lock the steering if you leave the vehicle unattended.



Warning

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

- Do not touch any parts such as the exhaust system, radiator, engine, damper, 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 the transmission into neutral.
- Switch off ignition – to do this, briefly press the RACE ON button  (maximum of 1 second) with the ignition switched on.



Info

If the engine is switched off with the emergency OFF switch and the ignition remains switched on using the unlock button, the power supply to most electrical power consumers remains uninterrupted. This discharges the 12-V battery. You should therefore always switch off the engine with the unlock button – the emergency OFF switch is intended for emergencies only.

- Park the motorcycle on a firm surface.
- Swing side stand forward with your foot as far as it will go and lean the vehicle on it.
- Move handlebar fully to the left and press and hold the RACE ON button  (for at least 2 seconds).
- ✓ The steering is locked.



Info

If the steering lock does not engage, move the handlebar slightly.

10.11 Transporting

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.

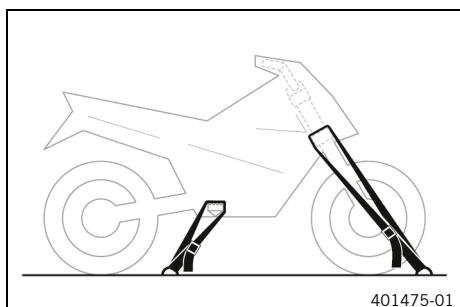
The components for parking the vehicle are designed only for the weight of the vehicle.

- 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.



- Switch off the engine.
- Use tension belts or other suitable devices to secure the motorcycle against falling over or rolling away.

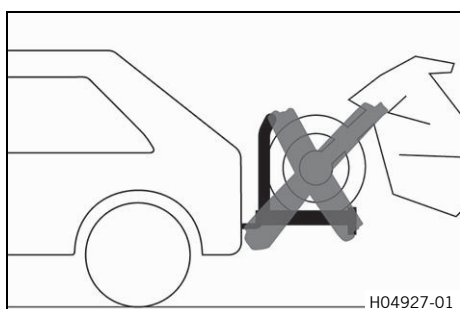
10.12 Towing in the event of a breakdown

Note

Danger of damage Towing away using a towing vehicle is not an appropriate vehicle recovery method.


Damage to the drive train or transmission may occur during towing.

- Do not use towing equipment where the wheels of the broken down vehicle remain on the road and rotate as it is towed.
- Always transport a broken down vehicle on a trailer or on the loading area of a transport vehicle.



- Ensure that the broken down vehicle is properly secured on the trailer or transport vehicle.
- Observe local regulations for the recovery of broken down vehicles.

10.13 Refueling




Danger

Fire hazard Fuel is highly flammable.

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

- Do not fuel 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 harmful to health.


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

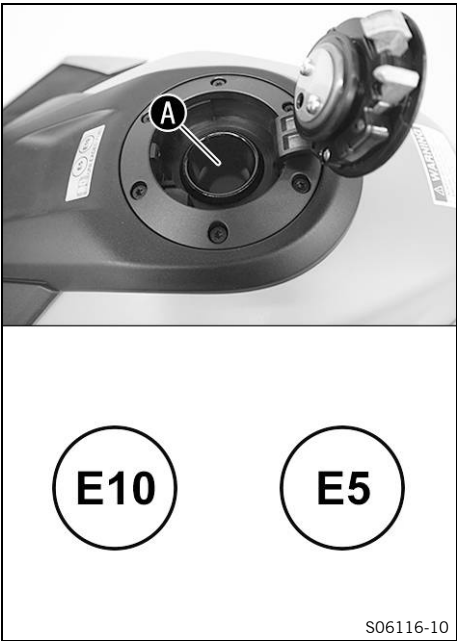
- Refuel only with clean fuel that meets the specified standards. (Your authorized KTM workshop will be glad to help.)



Note

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.





















- Switch off the engine.
 - Open fuel tank filler cap. (📖 p. 23)
 - Fill the fuel tank with fuel up to the lower edge **A** of the filler neck.
- | | | |
|-----------------------------------|-------------------------|--|
| Total fuel tank capacity, approx. | 17.5 l
(4.62 US gal) | Super unleaded
(ROZ 95)
(📖 p. 164) |
|-----------------------------------|-------------------------|--|
- Close the fuel tank filler cap. (📖 p. 24)

11 SERVICE SCHEDULE

11.1 Additional information

Any further work that results from the service work must be ordered separately and invoiced separately. Different service intervals may apply in your country, depending on the local operating conditions. Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule can always be found on KTM Dealer.net. Your authorized KTM dealer will be happy to advise you.

11.2 Service work

	every 48 months						
	every 24 months						
	every 12 months						
	every 60,000 km (37,200 mi)						
	every 30,000 km (18,600 mi)						
	every 15,000 km (9,300 mi)						
	after 1,000 km (620 mi)						
Read out the fault memory using the KTM diagnostics tool. 	○	●	●	●	●	●	●
Check the exhaust valve control unit with the KTM diagnostics tool. 		●	●	●	●	●	●
Program the shift shaft sensor. 	○	●	●	●	●	●	●
Check that the electrical system is functioning properly.	○	●	●	●	●	●	●
Check that the brake linings of the front brake are secured. (📖 p. 115)	○	●	●	●	●	●	●
Check that the brake linings of the rear brake are secured. (📖 p. 118)	○	●	●	●	●	●	●
Check the brake discs. (📖 p. 113)	○	●	●	●	●	●	●
Check the brake lines for damage and leakage.	○	●	●	●	●	●	●
Check the front brake fluid level. (📖 p. 114)	○	●	●	●	●		
Change the front brake fluid. 						●	●
Check the rear brake fluid level. (📖 p. 116)	○	●	●	●	●		
Change the rear brake fluid. 						●	●
Check/correct the fluid level of hydraulic clutch. (📖 p. 110)		●	●	●	●		
Change the hydraulic clutch fluid. 						●	●
Change the engine oil and the oil filter, clean the oil screens.  (📖 p. 140)	○	●	●	●	●	●	●
Check/clean the oil nozzle for clutch lubrication. 	○	●	●	●			
Check all hoses (e.g. fuel, cooling, bleeder, drainage hoses, etc.) and sleeves for cracking, tightness, and correct routing. 		●	●	●	●	●	●
Empty the drainage hoses. 	○	●	●	●	●	●	●
Check the cables for damage and routing without sharp bends (fuel tank removed). 		●	●	●	●	●	●
Check the frame. 			●	●			
Check the link fork. 			●	●			
Check the fork bearing. 		●	●	●			
Check the shock absorber linkage for play. 		●	●	●			
Check the steering head bearing for play. 	○	●	●	●			
Check the wheel bearings. 		●					
Check the shock absorber and fork for leaks. Perform a fork service and shock absorber service as needed, when possible and depending on how the vehicle is used. 	○	●	●	●	●	●	●
Check tire condition. (📖 p. 122)	○	●	●	●	●	●	●
Check tire pressure. (📖 p. 123)	○	●	●	●	●	●	●

		every 48 months					
		every 24 months					
		every 12 months					
		every 60,000 km (37,200 mi)					
		every 30,000 km (18,600 mi)					
		every 15,000 km (9,300 mi)					
		after 1,000 km (620 mi)					
Check the chain, rear sprocket, engine sprocket, and chain guide. (📖 p. 108)		•	•	•	•	•	•
Check the chain tension. (📖 p. 107)	○	•	•	•	•	•	•
Measure the wheel bearing play and grease the rear hub. 🛠️		•	•				
Check that the rear wheel nut (right side) is tightened to the specified torque. 🛠️	○	•	•	•	•	•	•
Check the exhaust system for leaks. 🛠️	○	•	•	•	•	•	•
Grease all moving parts (e.g. side stand, hand lever, chain, etc.) and check for smooth operation. 🛠️	○	•	•	•	•	•	•
Change the spark plugs. 🛠️		•	•				
Check the valve clearance (air filter and spark plugs removed). 🛠️				•			
Change the SAS diaphragm valves. 🛠️				•			
Change the air filter, clean the air filter box. 🛠️		•	•	•			
Check the fuel pressure. 🛠️		•	•	•	•	•	•
Check the headlight setting. (📖 p. 133)	○	•	•	•			
Check the tightness of the safety-relevant screws and nuts which are easily accessible. 🛠️	○	•	•	•	•	•	•
Clean dust boots of the fork legs. 🛠️ (📖 p. 99)		•	•	•			
Check the coolant level in the compensating tank. (📖 p. 136)	○	•	•	•	•	•	
Check the antifreeze. 🛠️	○	•	•	•	•	•	
Change the coolant. 🛠️							•
Check that the radiator fan is functioning properly. 🛠️	○	•	•	•	•	•	•
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 display using the KTM diagnostic tool. 🛠️	○	•	•	•	•	•	•
Enter electronic proof of service. 🛠️	○	•	•	•	•	•	•

- One-time interval
- Periodic interval

12.1 Fork/shock absorber

Semi-active suspension **WP Semi-active Suspension** can be used to tune the suspension individually without the use of tools.

Electronic suspension setting **WP Semi-active Suspension** constantly regulates the damping behavior of the suspension taking into account various sensor data.

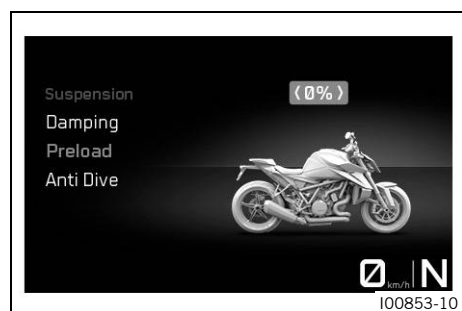
As a result, the electronic damping valves are matched to the current driving situation and terrain characteristics as well as the settings made by the rider in the **Preload Adjuster** and **Suspension Mode** menus.

Always adapt the suspension to your riding style and the payload.

In the **Preload Adjuster** menu, the suspension can be set to the loading condition.

In the **Suspension Mode** menu, the damping behavior of the suspension can be set.

12.2 Preload adjuster



Possible states

- 0 % - 20 % – Setting for rides without luggage and a passenger and a rider's weight up to 75 kg.
- 30% – Setting for rides without luggage and a passenger and a rider's weight up to 85 kg.
- 40% – Setting for rides without luggage and a passenger and a rider's weight up to 95 kg.
- 50 % - 60 % – Setting for rides with luggage, but without a passenger.
- 70 % - 80 % – Setting for rides with a passenger, but without luggage.
- 90 % - 100 % – Setting for rides with a passenger and luggage.
- Low (optional) – Automatic adjustment of the spring preload for a lot of sag on the rear wheel and therefore a low seat height and low riding geometry.
- Standard (optional) – Automatic adjustment of the spring preload, standard sag on the rear wheel and standard riding geometry.
- High (optional) – Automatic adjustment of the spring preload for a little sag on the rear wheel and therefore a slightly higher seat height and sportier riding geometry.

i Info

Only make adjustments on the preload adjuster if the rear wheel is loaded and the motorcycle is not jacked up on the center stand.

The spring preload can be adjusted to the load in the **Preload Adjuster** menu. 21 manual settings (0% to 100%) and 3 automatic settings **Low** (optional), **Standard** (optional) and **High** (optional) are available.

The rebound setting is automatically adapted to the payload detected by the system.



Info

Due to high electricity consumption, it is recommended that the preload adjuster is only set when the engine is running.

The manual settings given are guidelines and depend on the load.

High loads require a higher spring preload.

Low loads require a lower spring preload.

In the **Low** (optional), **Standard** (optional) and **High** (optional) automatic settings, the spring preload is automatically adjusted to the payload detected by the system while riding.

In the **Low** (optional), **Standard** (optional) and **High** (optional) automatic settings, it is possible that no adjustment of the spring preload can be detected when stationary.

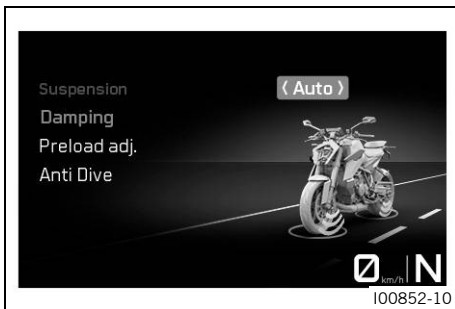
The most recently selected rebound adjustment is shown on the display.



Info

The symbol of the last setting flashes until the new setting is adopted.

12.3 Suspension Mode



Possible states

- **Auto** – Tuning of the suspension components is automatically adjusted to the riding style of the rider
- **Rain** (optional) – Soft tuning of the suspension components with good feedback from the chassis
- **Sport** – Tight tuning of the suspension components with very direct feedback from the chassis
- **Street** – Normal tuning of the suspension components with direct feedback from the chassis
- **Comfort** – Soft tuning of the suspension components with good feedback from the chassis
- **Track** (optional) – Suspension components can be configured in the **Track 1**, **Track 2** or **Track 3** menu.
- **Pro** (optional) – Suspension components can be configured in the **Pro 1**, **Pro 2** or **Pro 3** menu.

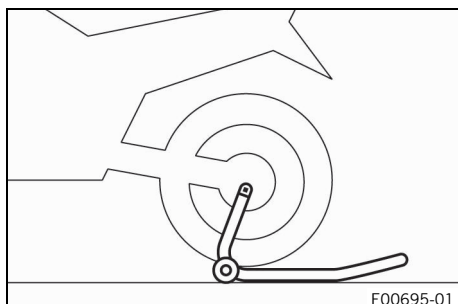
Various settings for the damping of the suspension components can be selected in the **Suspension Mode** menu. The settings **Sport**, **Street**, **Comfort**, **Auto**, **Rain** (optional), **Track** (optional) and **Pro** (optional) are available.

13.1 Lifting 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.



- Place the adapter into the rear lifting gear.

Rear wheel work stand for single-sided swing arm
(61329955000)

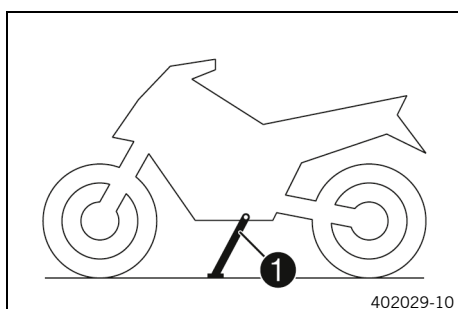
- Position the motorcycle upright, place the lifting gear in the axle, and raise the motorcycle.

13.2 Removing the rear of 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.



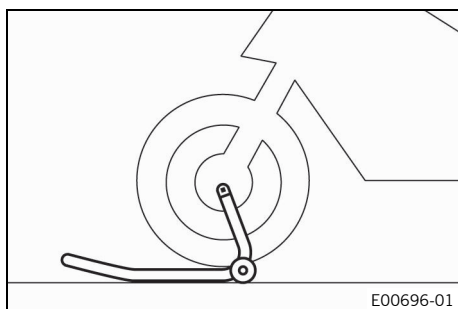
- Secure the motorcycle against falling over.
- Remove the rear wheel stand and lean the vehicle on side stand ①.

13.3 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

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)

Main work

- Move the handlebar to the straight-ahead position. Align the front lifting gear with the fork legs.

Front wheel work stand, small (61129965100)



Info

Always raise the motorcycle at the rear first.

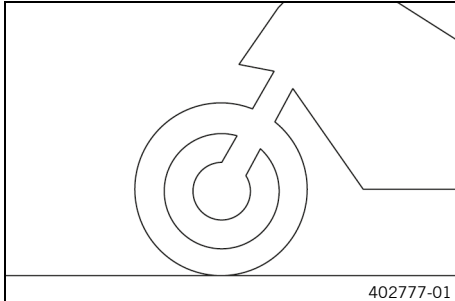
- Lift the motorcycle at the front.

13.4 Taking the motorcycle off 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.



- Secure the motorcycle against falling over.
- Remove the front lifting gear.



13.5 Cleaning the dust boots of the fork legs

Preparatory work

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)
- Lift the motorcycle with the front lifting gear. (📖 p. 98)

Main work

- Push dust boots ❶ of both fork legs downward.



Info

The dust boots remove dust and coarse dirt particles from the inside 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. 165)

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

Finishing work

- Take the motorcycle off the front lifting gear. (📖 p. 99)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)



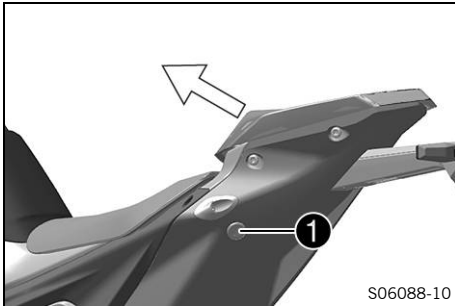
13.6 Removing the passenger seat

Condition

The motorcycle is stationary.

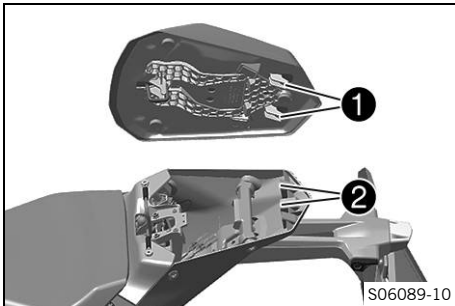
The engine is switched off.

The ignition has been switched on or off for less than 1 minute.



- Press seat release button ❶.
- Raise the front of the passenger seat, pull it toward the fuel tank and take off from above.

13.7 Mounting the passenger seat



- Attach the hooks on passenger seat ❶ to holding lugs ❷ on the subframe.
- Lower the front of the passenger seat and push it toward the rear at the same time.
- Press the passenger seat down to the front until the locking pin engages with an audible click.
- Check that the passenger seat is mounted correctly.

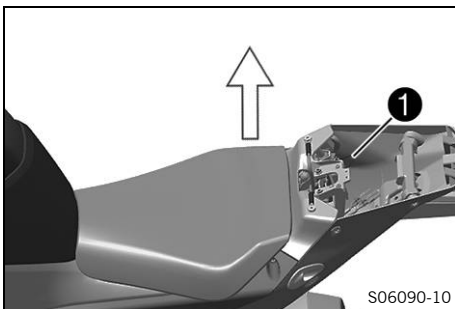
13.8 Removing the front rider's seat

Preparatory work

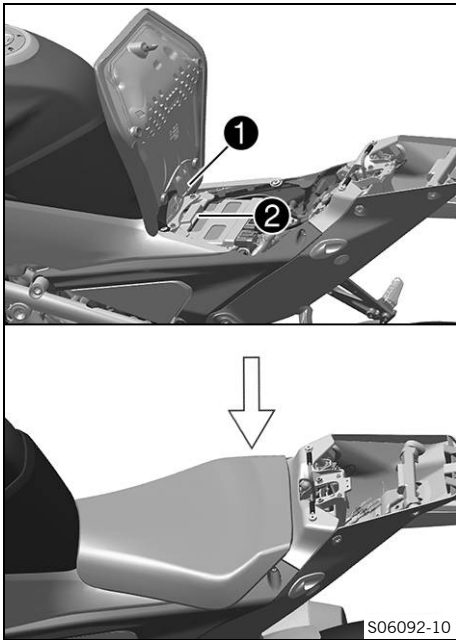
- Remove the passenger seat. (📖 p. 100)

Main work

- Unlock the front rider's seat with loop ❶ underneath the passenger seat.
- Raise the front rider's seat at the rear and remove it.



13.9 Mounting the front rider's seat



Main work

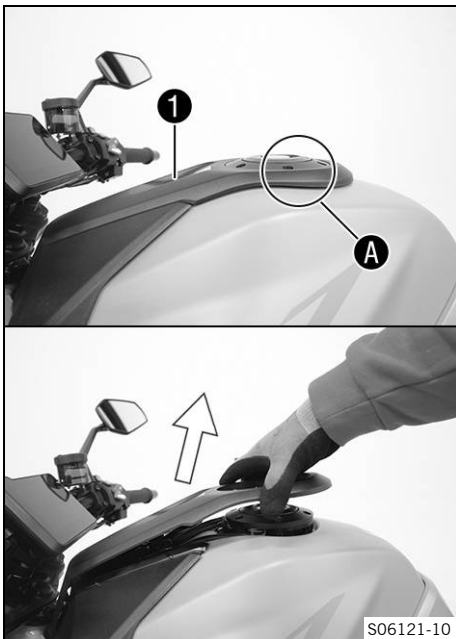
- Hook recess ① of the front rider's seat into guide ②, lower it at the rear and push it forward.
- Position the locking pin in the lock housing and push down the passenger seat at the rear.
- ✓ The locking pin engages with an audible click.
- Check that the front rider's seat is mounted correctly.

Finishing work

- Mount the passenger seat. (📖 p. 100)

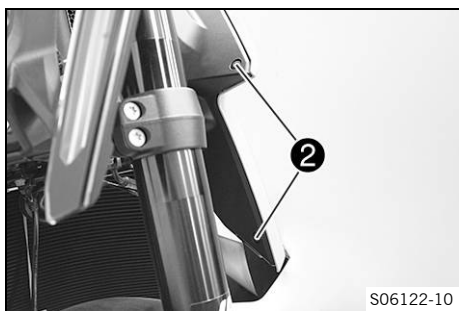


13.10 Removing left fuel tank spoiler

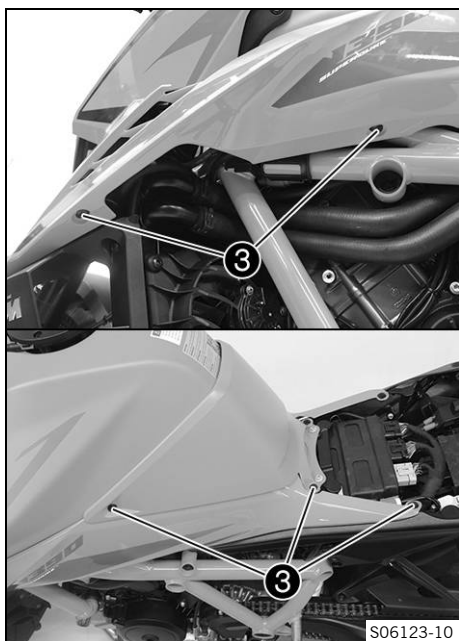


- Raise fuel tank cover ① in area A and remove in the upward direction.

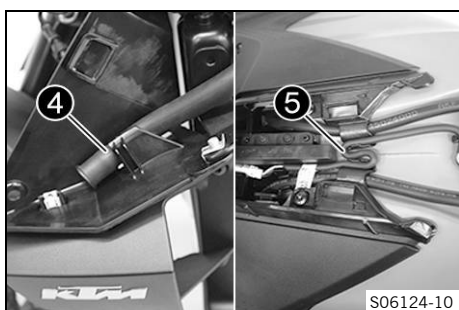
13 SERVICE WORK ON THE CHASSIS



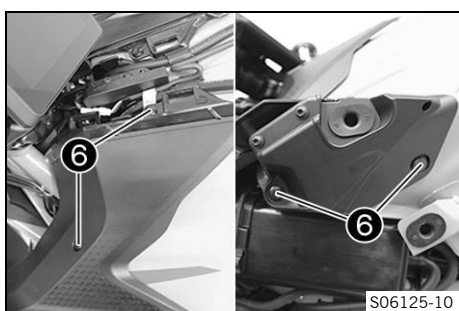
- Remove screws ❷.



- Remove screws ❸.
- Detach the left outer fuel tank spoiler and remove it to the side.

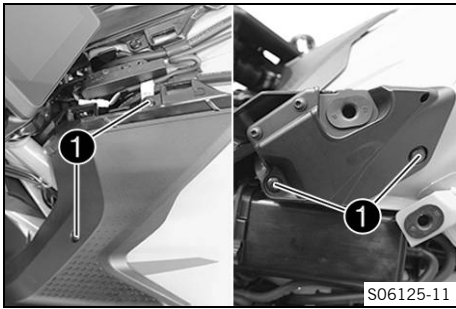


- Detach the hose ❹ and cable ❺.



- Remove screws ❻ and take off the inner fuel tank spoiler.

13.11 Installing the left fuel tank spoiler



- Position the inner fuel tank spoiler.



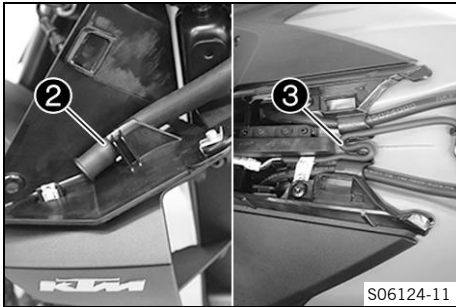
Info

Make sure the cables and hoses are routed correctly.

- Mount and tighten screws ①.

Guideline

Screw, trim	M5	3.5 Nm (2.58 lbf ft)
-------------	----	-------------------------

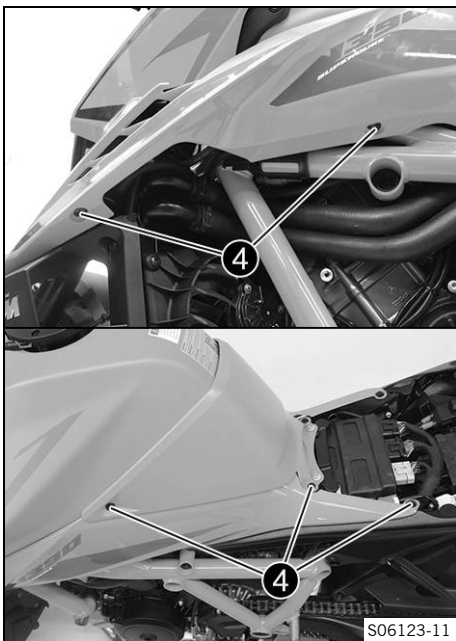


- Attach the hose ② and cable ③.



Info

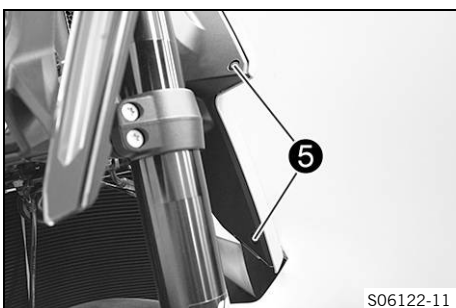
Make sure the cables and hoses are routed correctly.



- Position and attach the outer fuel tank spoiler.
- Mount and tighten screws ④.

Guideline

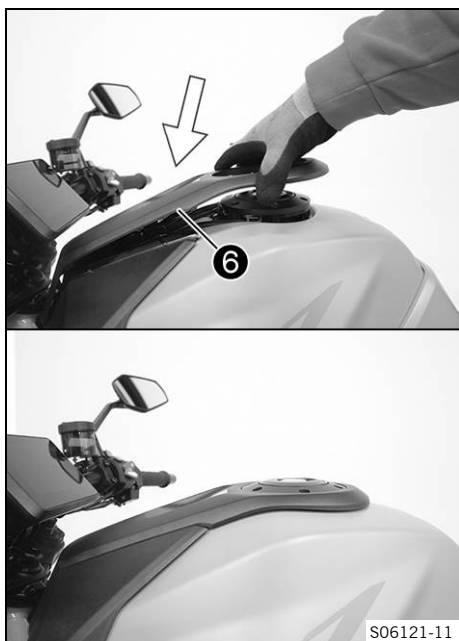
Screw, fuel tank spoiler	M5	3.5 Nm (2.58 lbf ft)
--------------------------	----	-------------------------



- Mount and tighten screws ⑤.

Guideline

Screw, trim	M5	3.5 Nm (2.58 lbf ft)
-------------	----	-------------------------



- Position fuel tank cover **6** on the fuel tank cap and press it in from the front to the rear.

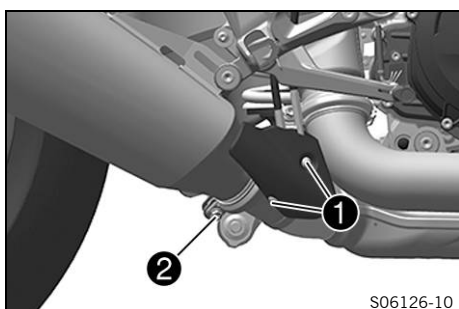
13.12 Removing the main silencer



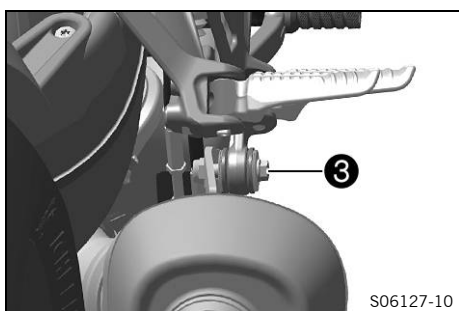
Warning

Danger of burns The exhaust system gets hot when the vehicle is driven.

- Allow the exhaust system to cool down before performing any work on the vehicle.



- Remove screws **1** and take off the cover.
- Remove screw **2** and take off exhaust clamp.



- Remove screw **3** with the washer.

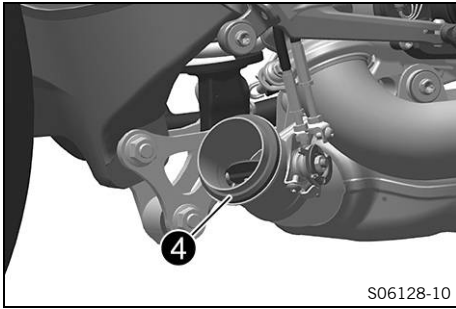


Warning

Risk of injury Moving parts of the exhaust valve constitute a risk of injury.

- Do not touch the exhaust valve if the main silencer has been removed.
- Make sure that nobody gets caught when the exhaust valve is actuated.

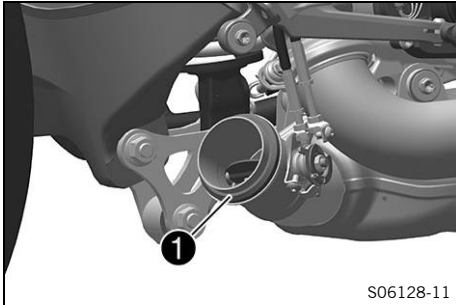
- Take off the main silencer.



- Remove seal ring 4.



13.13 Installing the main silencer

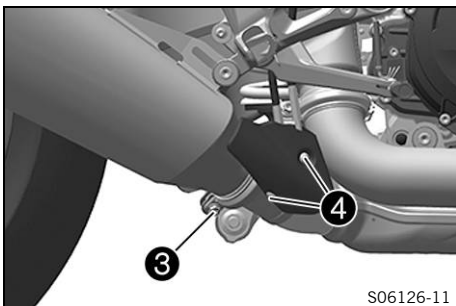
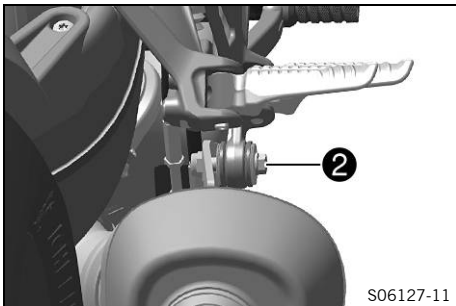


Warning

Risk of injury Moving parts of the exhaust valve constitute a risk of injury.

- Do not touch the exhaust valve if the main silencer has been removed.
- Make sure that nobody gets caught when the exhaust valve is actuated.

- Mount seal ring 1.
- Position the main silencer.
- Mount screw 2 with the washer, but do not tighten yet.



- Position the exhaust clamp.
- Mount and tighten screw 3.

Guideline

Screw, exhaust clamp on main silencer	M8	12 Nm (8.9 lbf ft)
---------------------------------------	----	--------------------

- Tighten screw 2.

Guideline

Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
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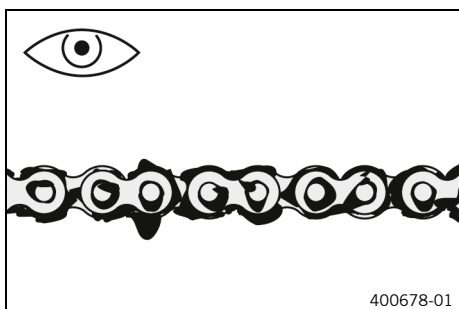
- Position the cover.
- Tighten screws 4.

Guideline

Screw, heat protector on main silencer	M5	4 Nm (3 lbf ft)
--	----	-----------------



13.14 Checking the chain for dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (📖 p. 106)

13.15 Cleaning the chain



Warning

Danger of accidents Lubricants on the tires reduces the road grip.

- Remove lubricants 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.



Note

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.
Regular cleaning increases the service life of the chain.

Preparatory work

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)

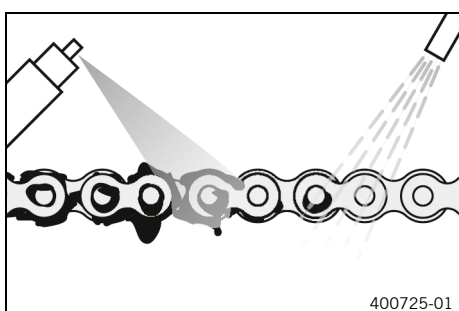
Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.

Chain cleaner (📖 p. 165)

- After drying, apply chain spray.

Street chain spray (📖 p. 165)



Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)

13.16 Checking the chain tension



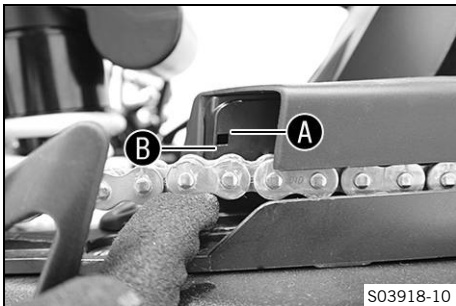
Warning

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

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)

Main work

- Shift the transmission into neutral.
- At the chain sliding guard in the area of markings **A** and **B**, push the chain upward and determine the chain tension.



Info

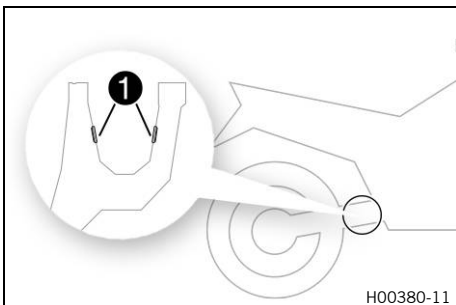
The lower chain section must be taut.

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

The upper edge of the chain is located between markings **A** and **B**.

- » If the chain tension does not meet the specification:
 - Adjust the chain tension. (📖 p. 108)
- Check protection caps **1** for damage and tightness.
 - » If the protection caps are damaged or loose:
 - Replace the protection caps.

Link fork protection cap (61304041100)




Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)



13.17 Adjusting the chain tension



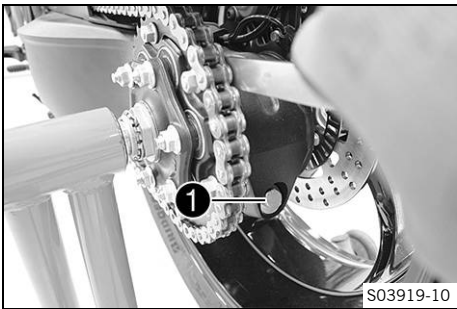
Warning

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

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)
- Check the chain tension. (📖 p. 107)

Main work

- Loosen screw ❶.
- Set the chain tension by turning the hub housing.

Holding wrench (61329085000)
Handle for holding wrench (60012060000)

i Info

Turn clockwise to increase the chain tension; turn counterclockwise to reduce the chain tension.
The tool required is in the tool set.

- Check the chain tension. (📖 p. 107)

✓ The chain tension matches the specified value.

i Info

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

- Tighten screw ❶.

Guideline

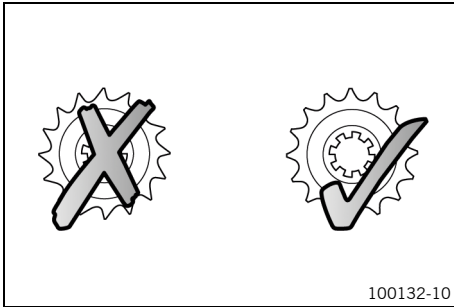
Screw, eccentric	M16	70 Nm (51.6 lbf ft)
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- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)

13.18 Checking the chain, rear sprocket, engine sprocket, and chain guide

Preparatory work

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)



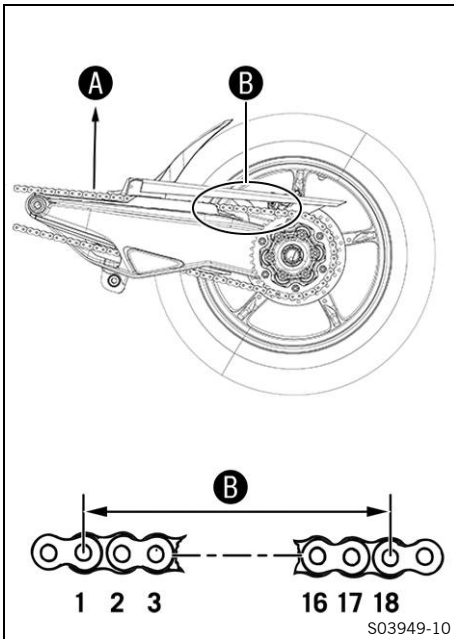
Main work

- Check the chain, rear sprocket, and engine sprocket for wear.
 - » If the chain, rear sprocket or motor sprocket is worn:
 - Change the drivetrain kit. 🛠️



Info

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



- Shift the transmission into neutral.
- Pull on the top section of the chain with the specified weight **A**.

Guideline

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

- Measure distance **B** of 18 chain rollers in the upper chain section.



Info

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

Maximum distance B from 18 chain rollers at the longest chain section	272 mm (10.71 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 the engine sprocket should also be changed.

New chains wear out faster on an old, worn rear sprocket or engine sprocket.

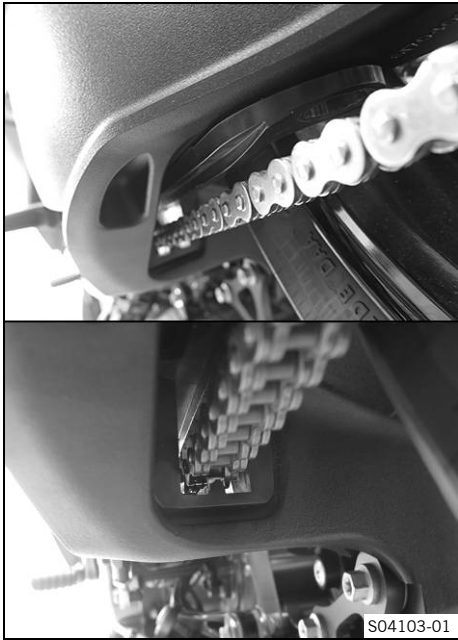
For safety reasons, the chain has no chain joint.



- Check the chain sliding guard for wear.
 - » If the chain sliding guard shows a lot of wear:
 - Change the chain sliding guard. 🛠️
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten screws on the chain sliding guard.

Guideline

Screw, chain sliding guard	M5	5 Nm (3.7 lbf ft)
----------------------------	----	-------------------



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


Guideline

Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
---------------------------	----	------------------------

Finishing work

- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)


13.19 Checking/correcting the fluid level of hydraulic clutch



Warning

Skin irritation Brake fluid is a harmful substance.


- 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.



Note

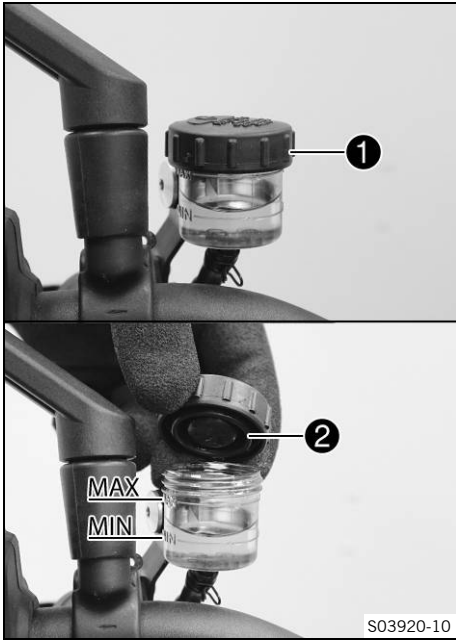
Environmental hazard Hazardous substances cause environmental damage.

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



Info

The fluid level rises with increasing wear of the clutch facing discs.
Avoid contact between brake fluid and painted parts. Brake fluid corrodes paint.



- Move the hydraulic clutch fluid reservoir mounted on the handlebar into a horizontal position.
- Check the fluid level.

The fluid level must be between the **MIN** and **MAX** markings.

- » If the fluid level does not meet specifications:
 - Remove screw cap ① with membrane ② and the shim.
 - Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 / DOT 5.1 (📖 p. 163)

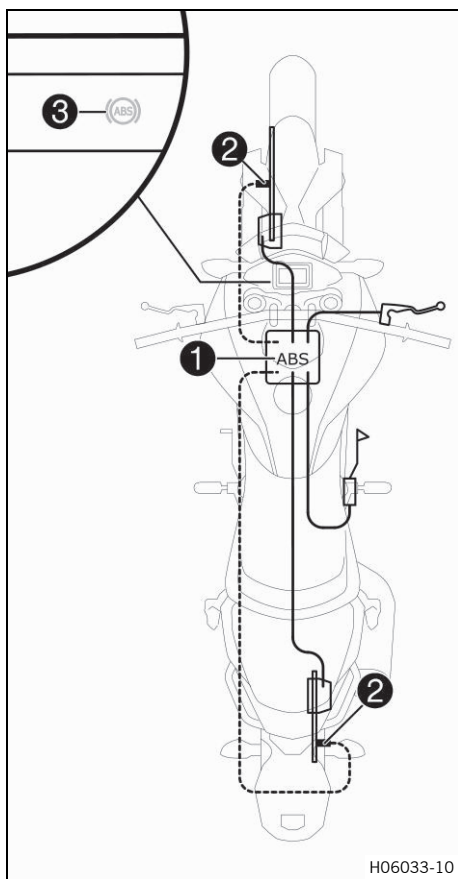
- Mount and tighten screw cap ① with membrane ② and the shim.



Info

Use water to immediately clean up any brake fluid that has overflowed or spilled.

14.1 Anti-lock braking system (ABS)



The **ABS** module **1**, which consists of a hydraulic unit, ABS control unit, and return pump, is installed under the fuel tank. One wheel speed sensor **2** is located in each case on the front and the rear wheel.



Warning

Danger of accidents Changes to the vehicle impair the function of the ABS.

- Do not make any changes to the suspension travel.
- Only use spare parts on the brake system which have been approved and recommended by KTM.
- Only use tires/wheels approved by KTM with the corresponding speed index.
- Maintain the specified tire pressure.
- Ensure that service work and repairs are performed professionally. (Your authorized KTM workshop will be glad to help.)

The **ABS** is a safety system that prevents the wheels locking when driving straight ahead or when cornering (within the limits of physics).



Warning

Danger of accidents Driving aids can reduce the probability of a fall only within physical limits.

It is not always possible to compensate for certain riding situations, for example with luggage loaded with a high center of gravity, varying road surfaces, steep descents or full braking without disengaging the gear.

- Adapt your riding style to the road conditions and your driving ability.



Warning

Danger of accidents An incorrectly selected ABS mode makes control of the vehicle considerably more difficult.

The ABS modes are each only suitable for certain conditions.

- Always select an ABS mode that is compatible with the surface of the ground.

The ABS control is dependent on the riding mode. ABS has two operating modes: the **Road** and **Supermoto** ABS modes.

In ABS mode **Road**, ABS controls both wheels.

In ABS mode **Supermoto**, there is no ABS control on the rear wheel.



Info

The curve dependent control is only active in ABS mode **Road**.

The ABS operates with two independent brake circuits (front and rear brakes). When the ABS control unit detects a locking ten-


dency in a wheel, ABS begins regulating the brake pressure. The control function causes a slight pulsing of the hand and foot brake levers.

The ABS warning lamp ❸ must light up after the ignition is switched on and go out after starting off. If it does not go out after starting off or if it is lit while riding, this indicates a fault in the ABS. In this case, the ABS is no longer enabled and the wheels may lock during braking. The brake system itself stays functional; only ABS control is not available.

The ABS warning lamp may also light up if the rotating speeds of the front and rear wheels differ greatly under extreme riding conditions, for example when making "wheelies" or if the rear wheel spins. This causes the ABS to switch off.

To reactivate the ABS, stop the vehicle and switch off the ignition. The ABS is reactivated when the vehicle is switched on again. The ABS warning lamp goes out after starting off.

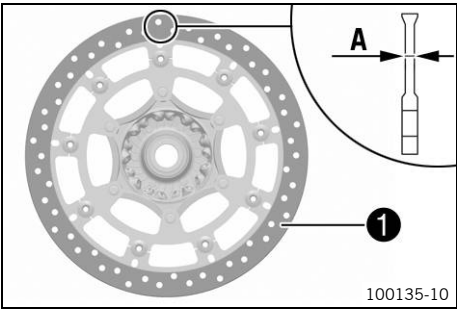
14.2 Checking the brake discs




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 front and rear brake disc thickness at multiple points for the dimension ❶.



Info

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

Brake discs - wear limit	
front	4.5 mm (0.177 in)
rear	4.5 mm (0.177 in)

- » If the brake disc thickness is less than the specified value:
 - Change the front brake discs. 🛠️
 - 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 discs. 🛠️
 - Change the rear brake disc. 🛠️

14.3 Checking the front 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.

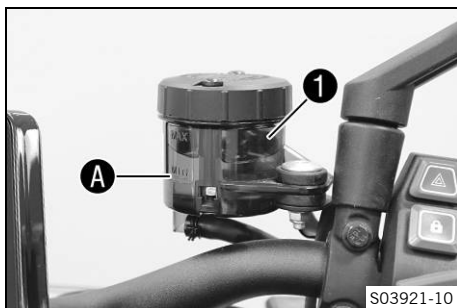
- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- 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.)
- Make sure that only clean, approved brake fluid from a tightly sealed container is used. (Your authorized KTM workshop will be glad to help.)



- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in brake fluid reservoir **1**.
 - » If the brake fluid level has dropped below **MIN** marking **A**:
 - Add front brake fluid. 📖 (p. 114)

14.4 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 is a harmful substance.

- 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 Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- 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.)
- Make sure that only clean, approved brake fluid from a tightly sealed container is used. (Your authorized KTM workshop will be glad to help.)

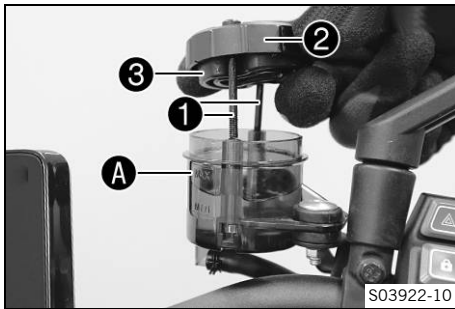
**Note**

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 corrodes paint.

**Preparatory work**

- Check that the brake linings of the front brake are secured. (p. 115)

Main work

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Take off cover ② with membrane ③.
- Add brake fluid up to the **MAX** marking A.

Brake fluid DOT 4 / DOT 5.1 (p. 163)

- Position cover ② with membrane ③.
- Mount and tighten screws ①.

**Info**

Use water to immediately clean up any brake fluid that has overflowed or spilled.



14.5 Checking that the brake linings of the front brake are secured

**Warning**

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

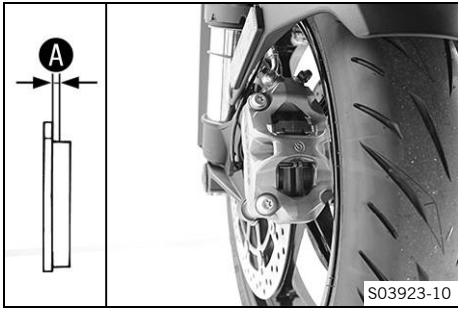
- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

**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 all brake linings on both brake calipers for their lining thickness **A**.


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

 - » If it is less than the minimum thickness:
 - Change the brake linings of the front brake. 🛠️
- Check all the brake linings on both the brake calipers for damage and cracking.
 - » If there is damage or cracking:
 - Change the brake linings of the front brake. 🛠️
- Check that the brake linings are secured.
 - » If the brake linings are not secured correctly:
 - Secure brake linings, replace with new parts if necessary.

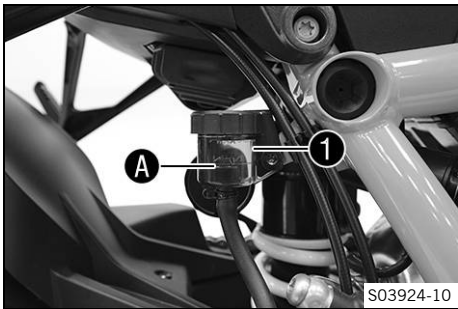
14.6 Checking the rear brake fluid level

**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 Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- 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.)
- Make sure that only clean, approved brake fluid from a tightly sealed container is used. (Your authorized KTM workshop will be glad to help.)



- Stand the vehicle upright.
- Check the brake fluid level in brake fluid reservoir **1**.
 - » If the fluid level reaches the **MIN** marking **A**:
 - Add rear brake fluid. 🛠️ (📖 p. 117)

14.7 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 is a harmful substance.

- 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 Brake fluid which is too old or of the wrong type impairs the function of the brake system.

- 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.)
- Make sure that only clean, approved brake fluid from a tightly sealed container is used. (Your authorized KTM workshop will be glad to help.)



Note

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.

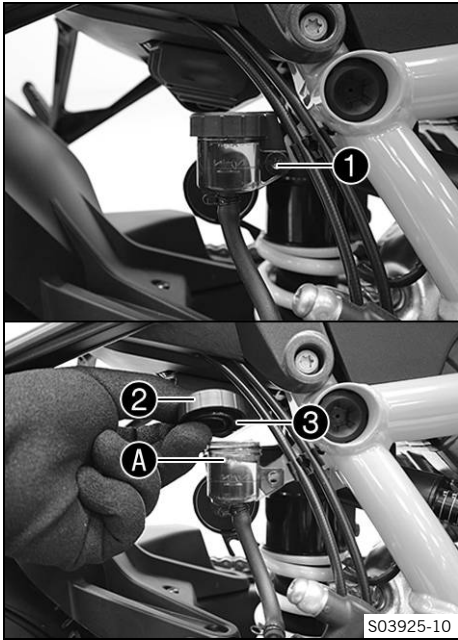


Info

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

Preparatory work

- Check that the brake linings of the rear brake are secured.
( p. 118)



Main work

- Stand the vehicle upright.
- Remove screw 1 with the screw cap lock.

Info

Make sure that the reservoir stays vertical and no brake fluid runs out.

- Remove screw cap 2 with the washer and membrane 3.
- Add brake fluid up to the **MAX** marking A.

Brake fluid DOT 4 / DOT 5.1 (p. 163)

- Mount and tighten screw cap 2 with the shim and membrane 3.
- Position the screw cap lock and mount and tighten screw 1.

Guideline		
Screw, brake fluid reservoir, rear brake	M5	3.5 Nm (2.58 lbf ft) Loctite®243™

Info

Use water to immediately clean up any brake fluid that has overflowed or spilled.

14.8 Checking that the brake linings of the rear brake are secured

Warning

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

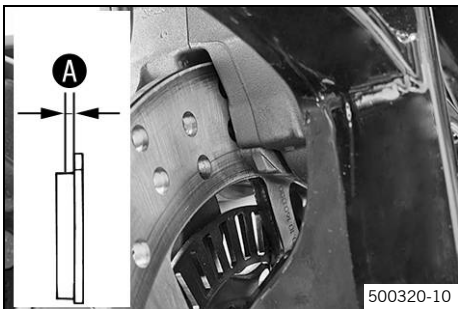
- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)

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 lining thickness A.

Minimum thickness A	≥ 1 mm (≥ 0.04 in)
---------------------	--------------------

- » If it is less than the minimum thickness:
 - Change the rear brake linings. 🛠️
- Check the brake linings for damage and cracking.
 - » If there is damage or cracking:
 - Change the rear brake linings. 🛠️
- Check that the brake linings are secured.
 - » If the brake linings are not secured correctly:
 - Secure brake linings, replace with new parts if necessary.

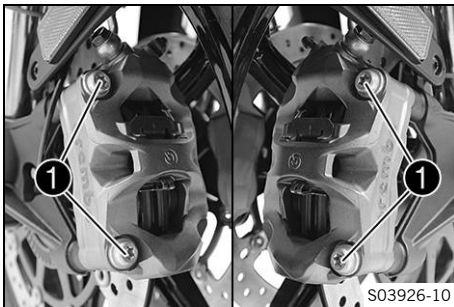
15.1 Removing the front wheel

Preparatory work

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)
- Lift the motorcycle with the front lifting gear. (📖 p. 98)

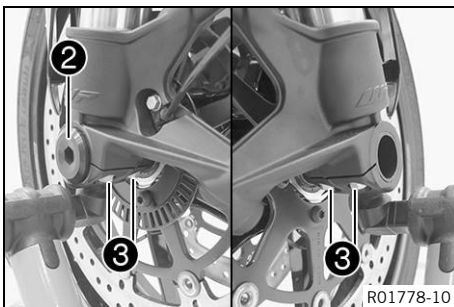
Main work

- Remove screws ❶ from both brake calipers.
- Press back brake linings by slightly tilting the brake calipers laterally on the brake disc. Pull brake calipers carefully back from the brake discs and hang to the side.



Info

Do not operate the hand brake lever if the brake calipers have been removed.



- Loosen screw ❷ and screws ❸.
- Using your hand, press on screw ❷ to push the wheel spindle out of the axle clamp. Remove screw ❷.

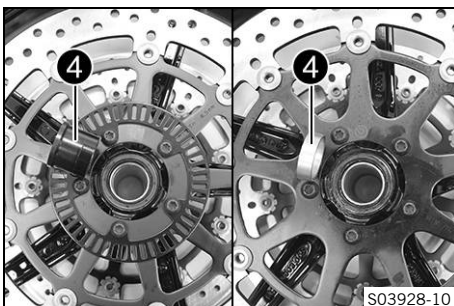


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

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

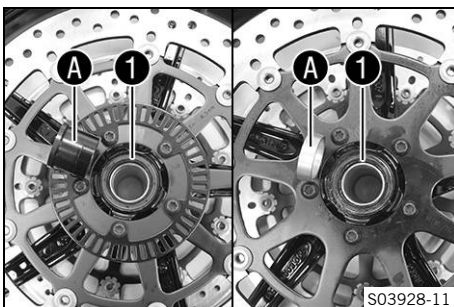
- Hold front wheel and remove wheel spindle. Take the front wheel out of the fork.
- Remove spacers ❹.

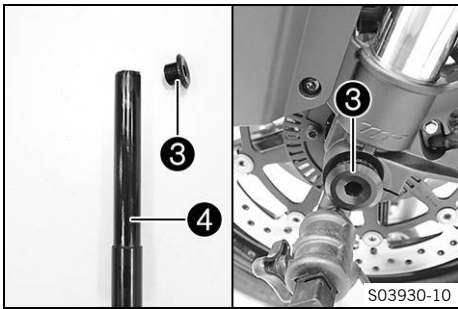
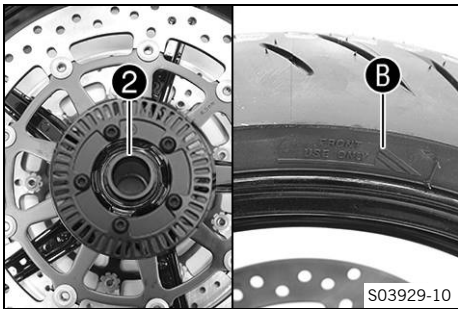


15.2 Installing the front wheel

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

Long-life grease (📖 p. 165)





- Insert wide spacer **2** on the left in the direction of travel.

i Info
Arrow **B** indicates the direction of travel of the front wheel.
The wheel speed sensor wheel is on the left viewed in the direction of travel.

- Insert the narrow spacer on the right in the direction of travel.

! 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.

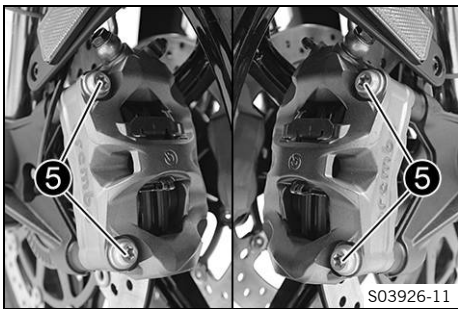
- Clean screw **3** and wheel spindle **4**.
- Grease wheel spindle **4** lightly.

Long-life grease (📖 p. 165)

- Jack up the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw **3**.

Guideline		
Screw, front wheel spindle	M25x1.5	45 Nm (33.2 lbf ft) Thread greased

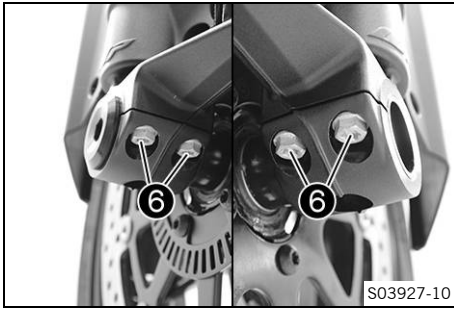
i Tip
Temporarily tighten one of the axle clamp screws so that the axle does not rotate with it.
Loosen the axle clamp screw again before compression to allow the fork legs to align.



- Position brake calipers and check that the brake linings are seated correctly.
- Mount screws **5** on both brake calipers, but do not tighten yet.
- Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. Secure the hand brake lever in the activated position.
✓ The brake calipers straighten.
- Tighten screws **5** on both brake calipers.

Guideline		
Screw, front brake caliper	M10	45 Nm (33.2 lbf ft) Loctite®243™

- Remove the locking piece of the hand brake lever.
- Take the motorcycle off the front lifting gear. (📖 p. 99)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)



- Operate the front brake and compress the fork a few times firmly.
- ✓ The fork legs straighten.
- Tighten screws 6.

Guideline

Screw, axle clamp	M8	15 Nm (11.1 lbf ft)
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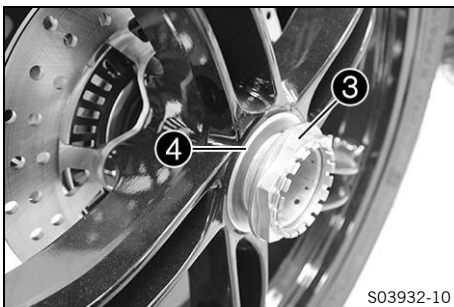
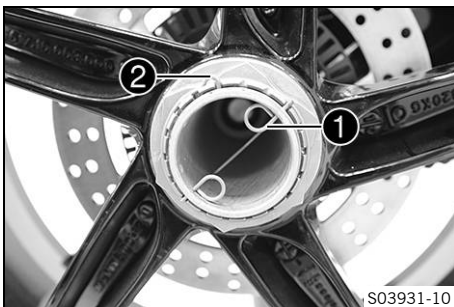
15.3 Removing the rear wheel

Preparatory work

- Lift the motorcycle with the rear lifting gear. (p. 98)
- Remove main silencer. (p. 104)

Main work

- Remove inside locking wire 1.
- Remove outside locking wire 2.



- Have an assistant operate the rear brake.
- Loosen nut 3 and remove it with washer 4.
- Take off the rear wheel.

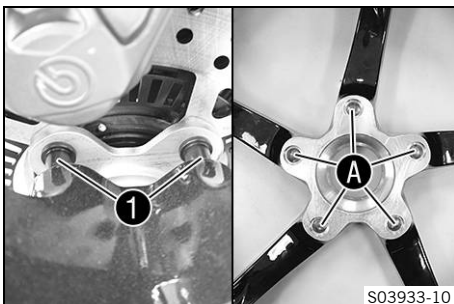
15.4 Installing the rear wheel



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.

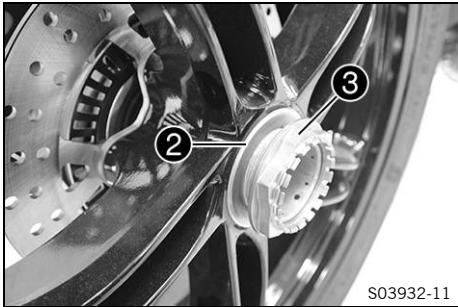


Main work

- Check the rear wheel bearing for damage and wear.
 - » If the rear wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
- Clean and grease the threads of the wheel axle and axle nut.

Long-life grease (p. 165)

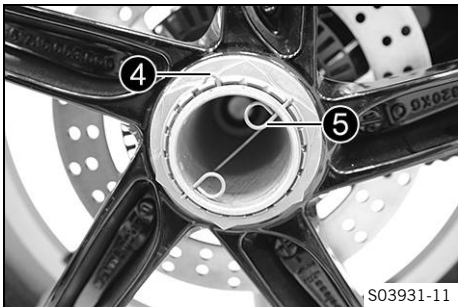
- Slide the rear wheel onto the axle.
- ✓ Driving pins 1 engage in drilled holes A of the rim.



- Mount washer ② and nut ③.
- Have an assistant operate the rear brake.
- Tighten nut ③.

Guideline

Nut, rear axle	M50x1.5	250 Nm (184.4 lbf ft) Thread greased/lock locking wire with locking varnish
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- Mount outside locking wire ④.
- Mount inside locking wire ⑤.
- ✓ The pins of the locking wires engage in the drilled holes of the wheel axle.

Finishing work


- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)
- Install the main silencer. 🛠️ (📖 p. 105)

15.5 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.



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 and only gradually increase the lean angle.

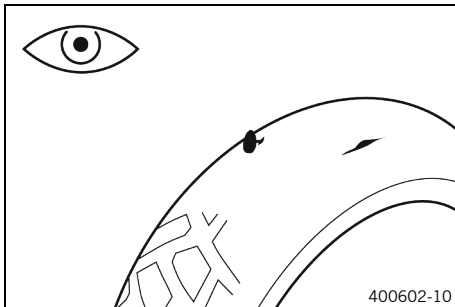
Run-in distance 200 km (124 mi)



Info

Tire type, tire condition, and tire pressure influence the braking and handling characteristics of the vehicle.

Worn tires are particularly unfavorable on wet surfaces.



- Check 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 tread depth.

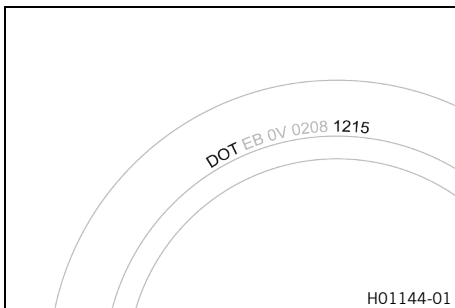


Info

Observe the minimum profile depth required by national law.

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

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



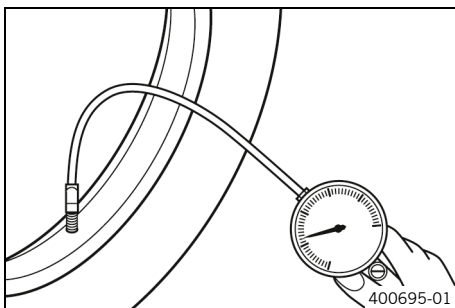
15.6 Checking tire pressure



Info

Low tire pressure leads to abnormal wear and overheating of the tire.

Correct tire pressure ensures optimal riding comfort and maximum tire service life.



- Remove the protection cap.
- Check the tire pressure when the tires are cold.

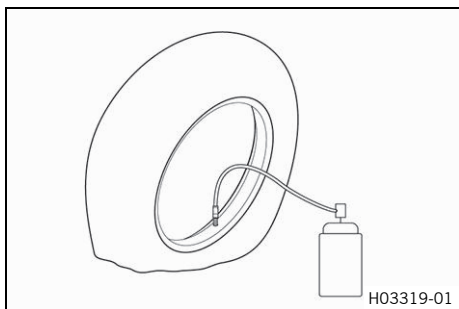
Tire pressure when solo	
front: with cold tires	2.5 bar (36 psi)
rear: with cold tires	2.5 bar (36 psi)

Tire pressure with passenger / full payload	
front: with cold tires	2.5 bar (36 psi)
rear: with cold tires	2.9 bar (42 psi)

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



15.7 Using tire repair spray



Warning

Danger of accidents Incorrect use of tire repair spray will result in the repaired tire losing pressure.

Tire repair spray cannot be used for all types of damage.

- Observe the instructions and specifications of the manufacturer of the tire repair spray.
- After repairing a tire with tire repair spray, ride slowly and carefully.
- Ride no further than to the nearest workshop and have the tire changed.

Tire repair spray should only be used in an emergency.

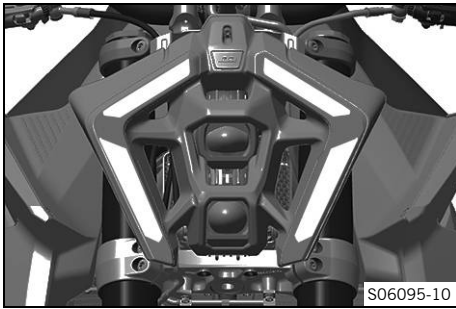
We recommend transporting the broken down vehicle to the nearest workshop instead of using tire repair spray.

Note

Material damage Tire repair spray damages the tire pressure sensor.

- Note that after using tire repair spray, the tire pressure sensor may need to be replaced.

16.1 Daytime running light (DRL)



Warning

Danger of accidents When visibility is poor, the daytime running light is not a substitute for the low beam.

Automatic switching between the daytime running light and low beam may only be partially available when visibility is significantly impaired due to fog, snow or rain.

- Ensure that the appropriate type of lighting is always selected.
- If necessary switch off the daytime running lights using the menu before going on a ride or when stopped so that the low beam is switched on permanently.
- Make sure that the daytime running light is deactivated with the diagnostics tool when the menu item is not available, but the low beam is required. (Your authorized KTM workshop will be glad to help.)
- Note the legal regulations regarding the daytime running light.

The daytime running (DRL)/position light is integrated in the main headlight. The daytime running light is brighter than the position light.

The daytime running light must only be switched on when visibility conditions are good.

This is controlled by the ambient light sensor in the combination instrument. When visibility conditions are good, the low beam with position light is switched off and the daytime running light is switched on.

When the daytime running light is switched off, the low beam with position light lights up.

On high beam or headlight flasher, the daytime running light changes automatically to the position light.

16.2 Removing the 12-V battery



Warning

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

- Keep 12 V 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 12 V battery.
- Only charge 12 V 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.



Caution

Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.

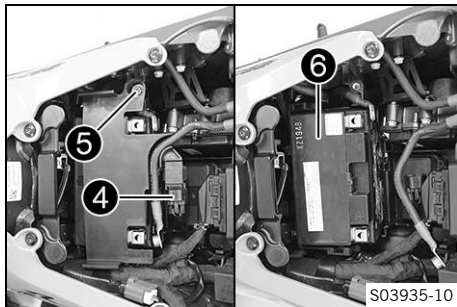
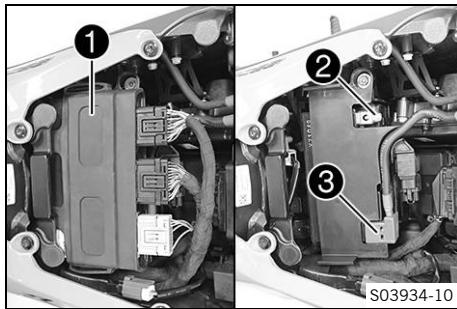
- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

Preparatory work

- Remove the passenger seat. (📖 p. 100)
- Remove the front rider's seat. (📖 p. 100)

Main work

- Remove control unit ❶ and hang to the side.
- Disconnect negative cable ❷ from the 12-V battery.
- Remove positive terminal cover ❸ and disconnect the positive cable from the 12-V battery.
- Disconnect plug-in connector ❹.
- Remove screw ❺ and take off the battery cover.
- Take the 12-V battery ❻ out of the battery compartment.



16.3 Installing the 12-V battery



Warning

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

- Keep 12 V 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 12 V battery.
- Only charge 12 V 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.

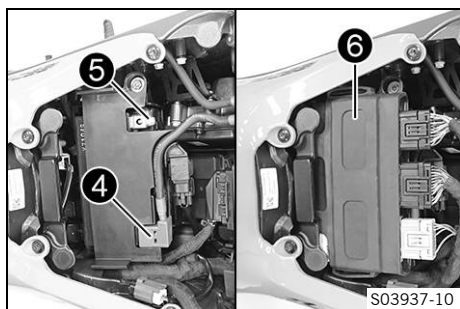
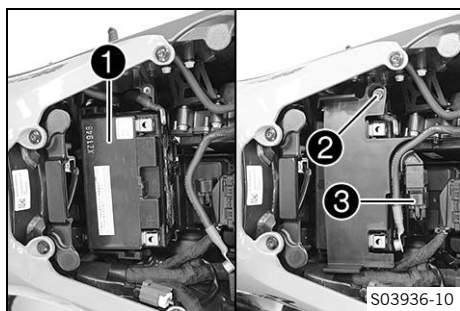


Caution

Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.

If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.

- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

**Main work**

- Insert 12-V battery ① into the battery compartment.

12-V battery (YTZ14S) (📖 p. 156)

- Position the battery cover, mount screw ②, and tighten.

Guideline

Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
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- Join plug-in connector ③.
- Position the positive cable and mount and tighten the screw.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
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- Mount positive terminal cover ④.
- Position negative cable ⑤ and mount and tighten the screw.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
-------------------------	----	----------------------

- Position control unit ⑥.

Finishing work

- Mount the front rider's seat. (📖 p. 101)
- Mount the passenger seat. (📖 p. 100)
- Set time and date.



16.4 Charging the 12-V battery 🔧

**Warning**

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

- Keep 12 V 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 12 V battery.
- Only charge 12 V 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.

**Note**

Environmental hazard 12 V batteries contain environmentally hazardous materials.

- Do not dispose of 12 V batteries as household waste.
- Dispose of 12 V batteries at a collection point for used batteries.

**Note**

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 charging level and the method of charging are very important for the service life of the 12-V battery. Rapid recharging with a high charging current shortens the service life of the battery.

If the 12-V battery is discharged by repeated starting, charge the 12-V battery immediately.

The 12-V battery is maintenance-free. The acid level does not have to be checked.

If the 12-V battery is not charged by the KTM battery charger, the 12-V battery must be removed for charging. Otherwise, overvoltage may damage electronic components. Charge the 12-V battery according to the instructions on the battery housing.

- Remove the passenger seat. (p. 100)
- Remove the front rider's seat. (p. 100)



- Pull off engine control unit **❶** from the holder and hang to the side.
- Disconnect negative cable **❷** from the 12 V battery to avoid damaging the onboard electronics.
- Remove positive terminal cover **❸**.

- EU battery charger **TecMATE Optimate PRO** (A61029974044)

USA/CA battery charger **TecMATE Optimate PRO**
(A61029974144)

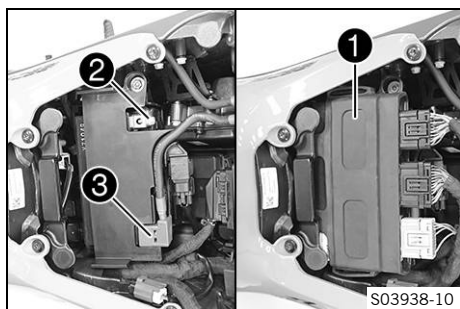
UK battery charger **TecMATE Optimate PRO**
(A61029974244)

i **Info**
Afte

After charging, the charger can remain on the vehicle, ensuring that the battery voltage is maintained during the maintenance charging cycle.

- ## Guideline

Recharge the 12-V battery regularly when the motorcycle is not being used	3 months
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- Mount positive terminal cover ③.
- Position negative cable ② and mount and tighten the screw.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
-------------------------	----	-------------------------

- Position engine control unit ①.

Finishing work

- Mount the front rider's seat. (📖 p. 101)
- Mount the passenger seat. (📖 p. 100)
- Set time and date. (📖 p. 69)



16.5 Changing the RACE ON key battery

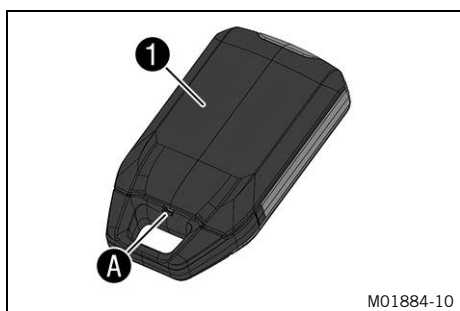


Warning

Risk of injury Button cells may burst if misused.

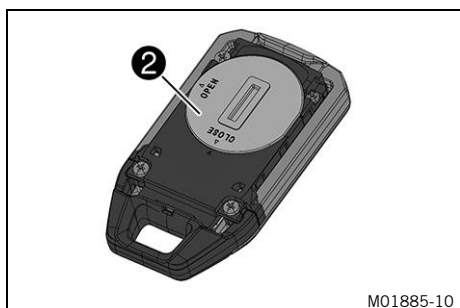
Swallowing button cells leads to severe chemical burning and may result in death in under 2 hours.

- Keep button cells and the RACE ON key out of the reach of children.
- Make sure the button cells can never be swallowed or ingested.
- Seek medical attention immediately if button cells are swallowed or ingested.
- Do not expose button cells to extreme temperatures or mechanical loads.
Permissible temperature $-20 \dots 50 \text{ }^{\circ}\text{C}$ ($-4 \dots 122 \text{ }^{\circ}\text{F}$)
- Do not damage the RACE ON key by e.g. cutting or squashing it.
- Do not use the RACE ON key if the RACE ON key is damaged or the battery compartment cannot be closed.
- Replace the RACE ON key battery with the type specified only.



M01884-10

- To open cover ① of the RACE ON key, insert a small, blunt object into opening ① and carefully lift up the cover.

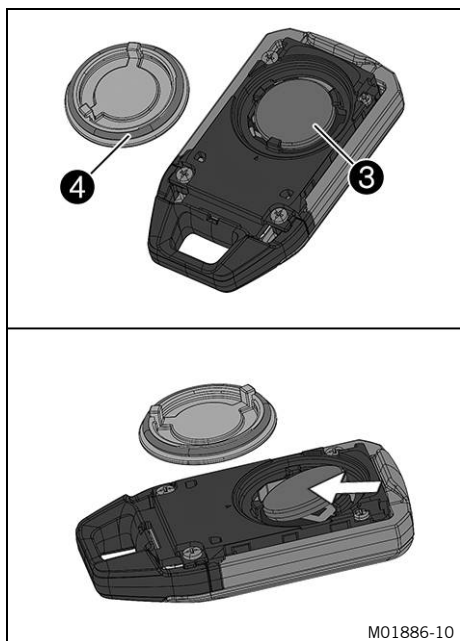


M01885-10

- Using a coin, turn battery cover ② counterclockwise and remove it.

Guideline

Ensure that the O-ring remains in place.
--



- Remove RACE ON key battery **3**.
- Insert the new RACE ON key battery with label facing upward.

Key battery (CR 2032) (p. 156)



Info

The two smaller holding lugs are tapered so that the RACE ON key battery can be easily pushed into the bracket.

- Mount battery cover with O-ring **4** and close it clockwise with a coin.
- Mount the cover of the RACE ON key and click into place.

16.6 Changing the main fuse



Warning

Fire hazard Incorrect fuses overload the electrical system.

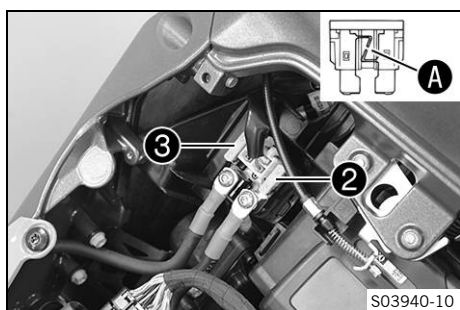
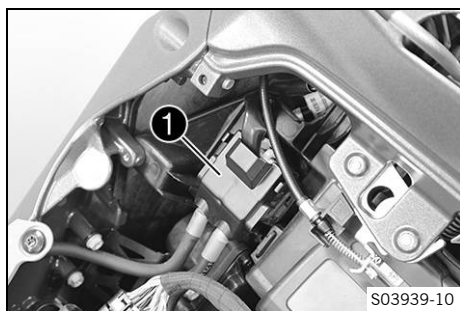
- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.

Preparatory work

- Remove the passenger seat. (p. 100)
- Remove the front rider's seat. (p. 100)

Main work

- Take off protection cap **1**.



- Remove faulty main fuse **2**.



Info

A faulty fuse has a burned-out fuse wire **A**.

A spare fuse **3** is located in the starter relay.

The main fuse protects all electrical power consumers of the vehicle.

- Insert a new main fuse.

Fuse (58011109130) (p. 156)

- Check that the electrical system is functioning properly.
- Mount protection caps **1**.

**Tip**

Insert a new spare fuse into the starter relay to have it available when needed.

Finishing work

- Mount the front rider's seat. (📖 p. 101)
- Mount the passenger seat. (📖 p. 100)
- Set time and date.



16.7 Changing the fuses in the fuse box

**Warning**

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.

**Info**

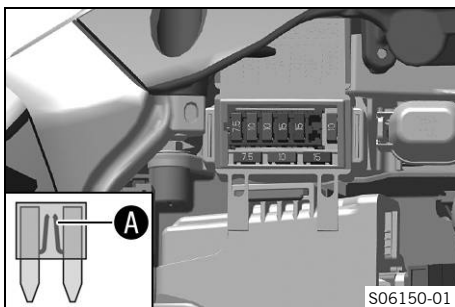
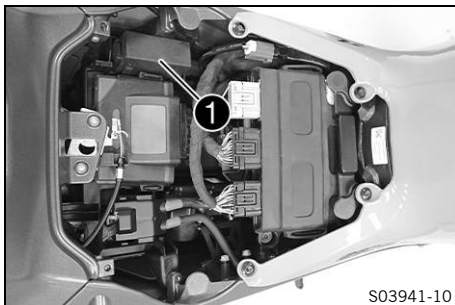
The fuse box containing the fuses of individual electrical power consumers is located under the seat.

Preparatory work

- Remove the passenger seat. (📖 p. 100)
- Remove the front rider's seat. (📖 p. 100)

Main work

- Open fuse box cover ❶.



- Check the fuses.

**Info**

A faulty fuse has a burned-out fuse wire A.

- Remove the faulty fuse.

Guideline

Fuse 1 - 7.5 A - power supply for control units and components
Fuse 2 - 10 A - ACC1
Fuse 3 - 10 A - control unit, ignition, electronic fuel injection, lambda sensor
Fuse 4 - 15 A - ACC2, USB socket, HCU
Fuse 5 - 15 A - semi-active suspension
Fuse 6 - not assigned
Fuse res - 7.5 A - spare fuse
Fuse res - 10 A - spare fuses
Fuse res - 15 A - spare fuse

- Insert the spare fuse with the correct rating.

Fuse (75011088075) (📖 p. 156)
Fuse (75011088010) (📖 p. 156)
Fuse (75011088015) (📖 p. 156)



Tip

Insert a spare fuse so that it is available if needed.

- Check the function of the electrical power consumers.
- Close the fuse box cover **1**.

Finishing work

- Mount the front rider's seat. (📖 p. 101)
- Mount the passenger seat. (📖 p. 100)

16.8 Changing the ABS fuses



Warning

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.

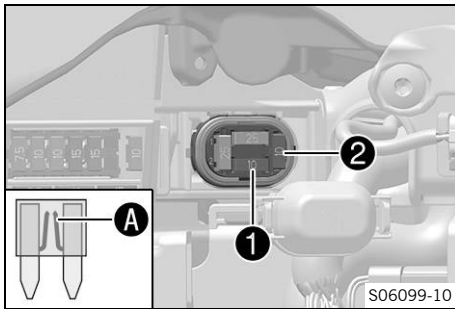


Info

Two fuses for the ABS are located under the seat. These fuses protect the return pump and the hydraulic unit of the ABS. The third fuse, which protects the ABS control unit, is located in the fuse box.

Preparatory work

- Remove the passenger seat. (📖 p. 100)
- Remove the front rider's seat. (📖 p. 100)



To change the fuse of the ABS hydraulic unit:

- Remove the protection cap and fuse 1.



Info

A faulty fuse has a burned-out fuse wire A.

- Insert the spare fuse with the correct rating.

Fuse (75011088010) (p. 156)



Tip

Insert spare fuse 2 in the fuse box so that it is available if needed.

- Mount the protection cap.

To change the fuse of the ABS return pump:

- Remove the protection cap and fuse 3.



Info

A faulty fuse has a burned-out fuse wire A.

- Insert the spare fuse with the correct rating.

Fuse (75011088025) (p. 156)



Tip

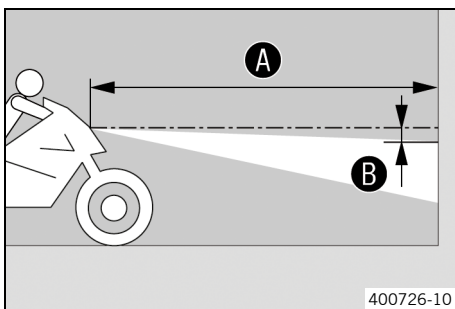
Insert spare fuse 4 in the fuse box so that it is available if needed.

- Mount the protection cap.

Finishing work

- Mount the front rider's seat. (p. 101)
- Mount the passenger seat. (p. 100)

16.9 Checking the headlight setting



- Park the vehicle on a horizontal surface in front of a light-colored 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 marking.

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

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

- » If the boundary between light and dark does not meet specifications:
 - Adjust the headlight range. (📖 p. 134)

16.10 Adjusting the headlight range

Preparatory work

- Check the headlight setting. (📖 p. 133)

Main work

- Turn adjusting screw ❶ to adjust the headlight range.



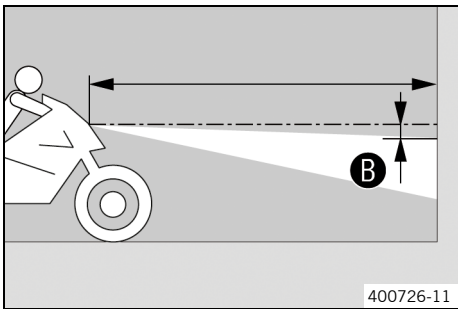
i Info

Turn clockwise to increase the headlight range; turn counterclockwise to reduce the headlight range.
If you have a payload, you may have to correct the headlight range.
Screw ❶ also secures the headlight. Ensure the screw is always screwed in far enough.

- Set the headlight to marking B.

Guideline

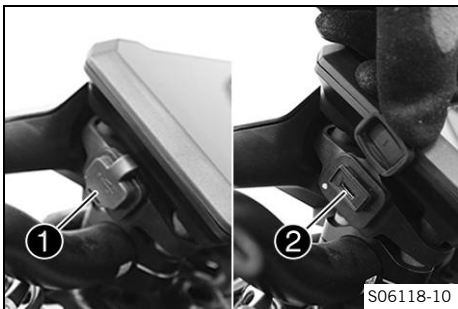
The light-dark boundary must lie exactly on lower marking B when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.



16.11 Connecting the USB cable

i Info

The USB socket is located on the left of the combination instrument.

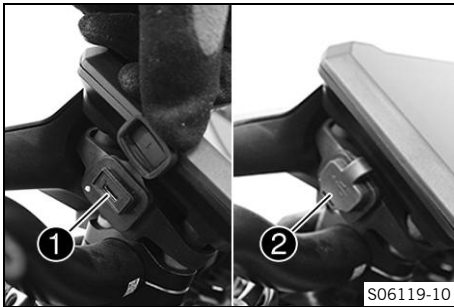


- Open USB socket cover ❶.
- Connect a suitable USB cable to the USB socket ❷.
- Connect the USB cable to the device.
- Route the cable on the handlebar and secure with the cable ties.

Guideline

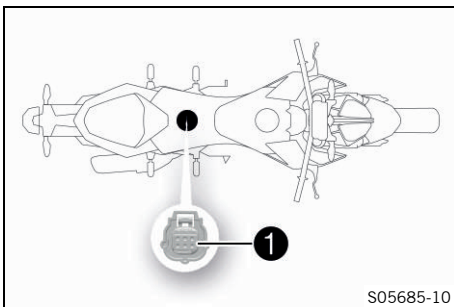
Use the shortest possible USB cable.
Always ensure that connected devices are also protected against moisture.
Route and secure the cable in such a way that it cannot be damaged.

16.12 Disconnecting the USB cable



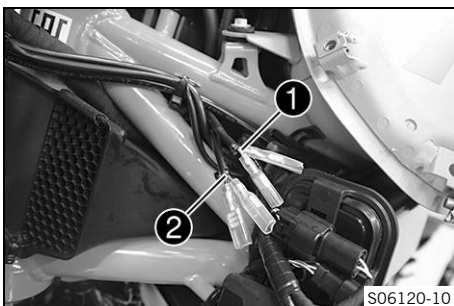
- Disconnect USB cable from the device.
- Disconnect USB cable from the USB socket ①.
- Close USB socket cover ②.

16.13 Diagnostics connector



Diagnostics connector ① is located under the front rider's seat.

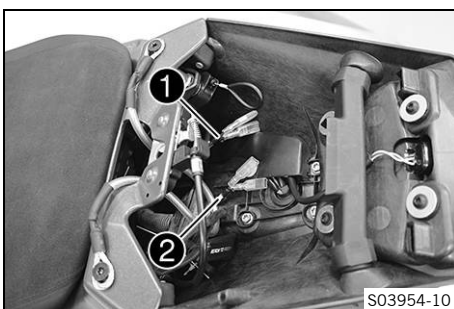
16.14 Front ACC1 and ACC2



Installation location

- Front power supplies ACC1 ① and ACC2 ② are located behind the fuel tank spoiler on the left between the triple clamps.

16.15 ACC1 and ACC2 rear



Installation location

- Power supplies ACC1 ① and ACC2 ② rear are located under the seat.

17.1 Checking the coolant level in the compensating tank



Warning

Danger of scalding During motorcycle operation, the coolant gets 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 harmful to health.

- 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.

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

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

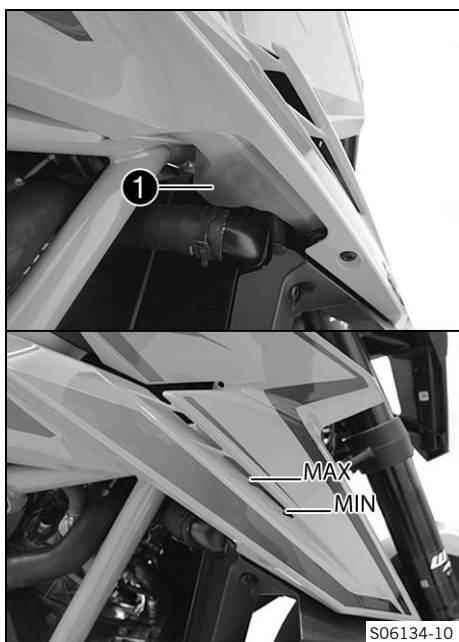
- » If there is no coolant in the compensating tank:
 - Check the cooling system for leaks. 🛠️



Info

Do not start up the motorcycle!

- Add the coolant/bleed the cooling system. 🛠️
- » 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. 137)



S06134-10

17.2 Correcting the coolant level in the compensating tank



Warning

Danger of scalding During motorcycle operation, the coolant gets 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 harmful to health.

- 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. 136)

Main work

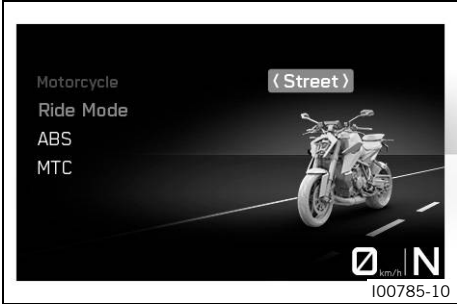
- Remove compensating tank cover ❶.
- Add coolant up to the **MAX** marking.

Coolant (📖 p. 163)

- Mount cover ❶ of the compensating tank.



18.1 Ride Mode



Possible states

- **Street** – Homologated performance with balanced response; the motorcycle traction control allows normal slip on the rear wheel.
- **Rain** – Reduced homologated performance for better ridability; the motorcycle traction control allows less slip on the rear wheel.
- **Sport** – Homologated performance with very direct response; the motorcycle traction control allows greater slip on the rear wheel.
- **Track** (optional) – Throttle response and motorcycle traction control can be adjusted individually.
- **Performance** (optional) – Throttle response and motorcycle traction control can be adjusted individually.

Warning

Danger of accidents An incorrectly selected riding mode makes control of the vehicle considerably more difficult.

The riding modes are each only suitable for certain conditions.

- Always select a riding mode that suits the surface on which you are riding, the weather and the riding situation.

Various vehicle tunings can be selected in the combination instrument in the **Ride Mode** submenu. There are **Street**, **Rain**, **Sport**, **Track** (optional) and **Performance** (optional).

The most recently selected riding mode appears in the display.

The riding mode can also be changed while riding with the throttle grip closed.

18.2 Motorcycle traction control (optional) (Cornering MTC)



The motorcycle traction control (MTC) (optional) lowers the engine torque in case of loss of traction in the rear wheel. Depending on the riding mode (p. 138), different amounts of slip are allowed when traction control is activated.

Info

When motorcycle traction control is switched off, the rear wheel may spin during strong acceleration and on surfaces with low grip, resulting in a risk of falling.

After the ignition is switched on, motorcycle traction control is enabled again.

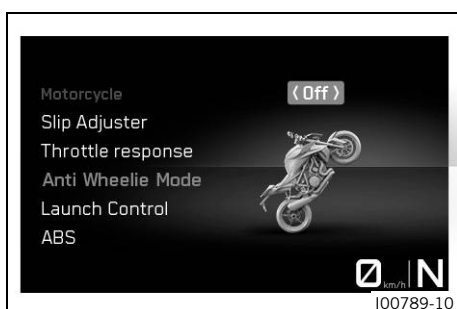
In the combination instrument, the motorcycle traction control can be switched on or off via the **MTC** submenu (optional).

Info

When the motorcycle traction control is active, the TC indicator lamp flashes.

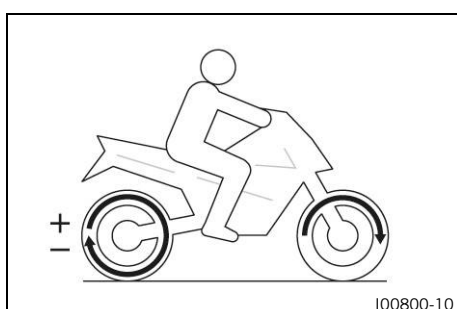
When motorcycle traction control is switched off, the TC indicator lamp lights up.

18.3 Anti-wheelie mode (optional)



The **Anti Wheelie Mode** is an optional vehicle electronics function. Anti-wheelie mode is intended to prevent the front wheel rising when accelerating.

18.4 Slip adjustment (optional)



The slip adjustment is a motorcycle traction control function. The slip adjustment allows the motorcycle traction control to be tuned through nine levels to the desired characteristic map. Level 1 allows the maximum slip on the rear wheel, and level 9 the minimum.

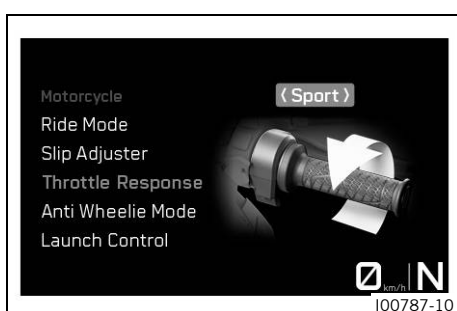
The slip adjustment can be set while riding with a closed menu using the **UP** or **DOWN** button.



Info

The slip adjustment is only available in **TRACK** riding mode (optional).

18.5 Throttle Response (optional)



Possible states

- **TRACK** – Extremely direct response
- **SPORT** – Very direct response.
- **STREET** – Balanced response.

In the combination instrument the characteristics of the throttle response can be adjusted via the **Throttle Response** submenu.

The **Throttle Response** can also be set while riding with a closed throttle grip.



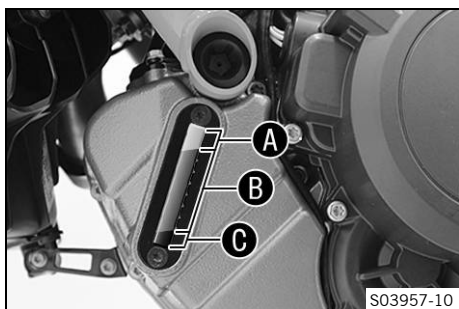
Info

Throttle Response is only available in riding mode **TRACK** (optional).

19.1 Checking the engine oil level

Info

Oil consumption depends on the riding style and the operating conditions.



Condition

The engine is at operating temperature.

Preparatory work

- Stand the motorcycle upright on a horizontal surface.


Main work

- Check the engine oil level in the engine oil level viewer.

Info

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

The engine oil level should be in the upper area **B** of the engine oil level viewer.

- » When the engine oil level is in area **A** of the engine oil level viewer:
 - Do not add engine oil.
- » When the engine oil level is in area **B** of the engine oil level viewer:
 - Engine oil can be added.
- » When the engine oil level is in area **C** of the engine oil level viewer:
 - Add engine oil. ( p. 143)

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



Warning

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

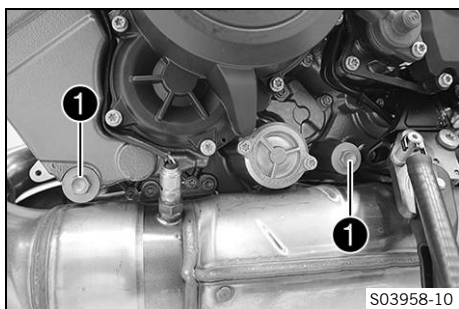
- Wear suitable protective clothing and safety gloves.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Note

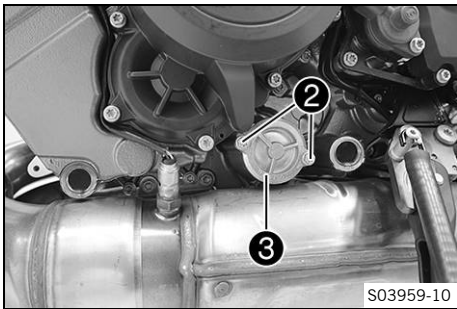
Environmental hazard Hazardous substances cause environmental damage.

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

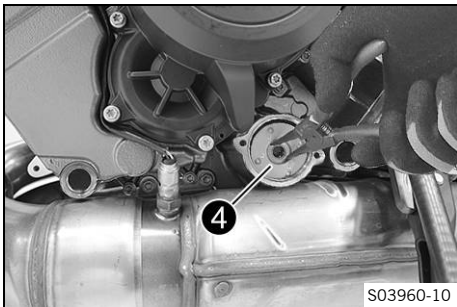


Main work

- Stand the motorcycle on a level surface using the side stand.
- Place an appropriate container under the engine.
- In order to prevent oil from running over the exhaust system, use a mouldable funnel if necessary.
- Remove oil drain plugs **1** along with the magnets, the O-rings, and the oil screens.



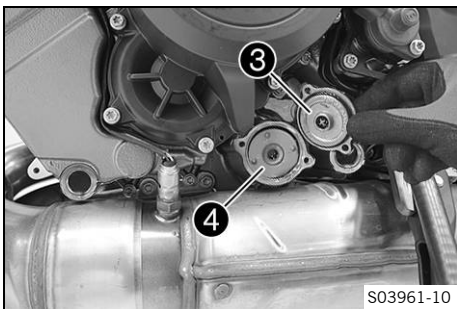
- Remove screws (2). Take off oil filter cover (3) with the O-ring.



- Pull oil filter (4) out of the oil filter housing.

Lock ring plier (51012011000)

- Allow the engine oil to drain completely.
- Thoroughly clean the parts and the sealing surfaces.



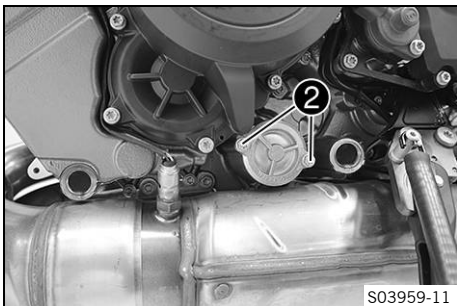
- Insert new oil filter (4).



Info

Only insert the oil filter by hand.

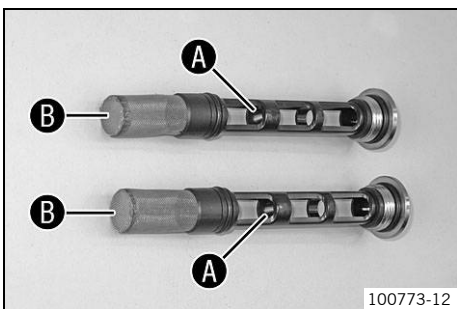
- Oil the O-ring of the oil filter cover. Mount oil filter cover (3).



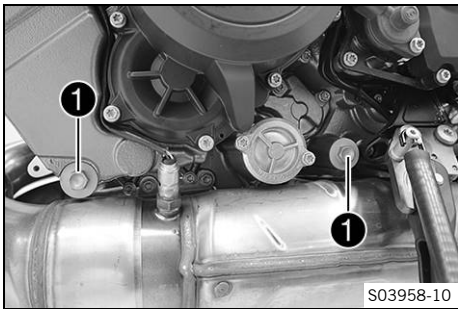
- Mount and tighten screws (2).

Guideline

Remaining engine screws	M5	6 Nm (4.4 lbf ft)
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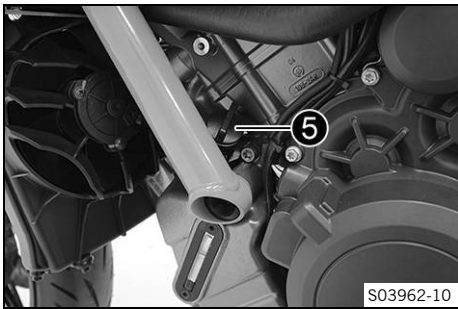
- Thoroughly clean magnets (A) and oil screens (B) of the oil drain plugs.



- Mount and tighten oil drain plugs ❶ with magnets, O-rings, and oil screens.

Guideline

Oil drain plug	M20x1.5	20 Nm (14.8 lbf ft)
----------------	---------	---------------------



- Have the entire filling quantity available.

Engine oil Ambient temperature: ≥ 0 °C (≥ 32 °F)	3.50 l (3.7 qt.)	Engine oil (SAE 10W/50) (📖 p. 163)
Engine oil Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (📖 p. 164)

- Add the oil quantity in two steps.
- Remove filler plug ❺ with the O-ring, and fill up with the first partial quantity.

Engine oil (1st partial quantity) approx. Ambient temperature: ≥ 0 °C (≥ 32 °F)	3.0 l (3.2 qt.)	Engine oil (SAE 10W/50) (📖 p. 163)
Engine oil (1st partial quantity) approx. Ambient temperature: < 0 °C (< 32 °F)		Engine oil (SAE 5W/40) (📖 p. 164)

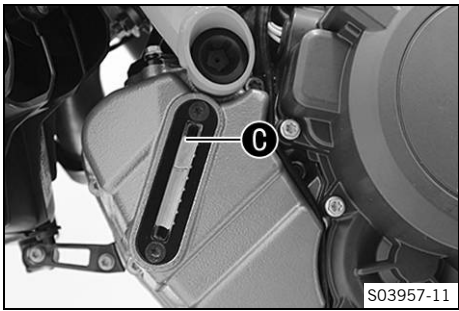
- Mount filler plug ❺ with the O-ring.

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 effective exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check it for leaks.
- Switch off the engine.



- Remove the filler plug with the O-ring and add the second partial quantity up to the upper marking **C** on the engine oil level viewer.

Engine oil (2nd partial quantity) approx. Ambient temperature: $\geq 0\text{ }^{\circ}\text{C}$ ($\geq 32\text{ }^{\circ}\text{F}$)	0.50 l (0.53 qt.)	Engine oil (SAE 10W/50) (📖 p. 163)
Engine oil (2nd partial quantity) approx. Ambient temperature: $< 0\text{ }^{\circ}\text{C}$ ($< 32\text{ }^{\circ}\text{F}$)		Engine oil (SAE 5W/40) (📖 p. 164)

- Mount the 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 effective exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check it for leaks.

Finishing work

- Check the engine oil level. (📖 p. 140)



19.3 Adding engine oil



Info

Too little engine oil or poor-quality engine oil results in premature wear to the engine. The engine may be damaged if the engine oil level is too high.

Condition

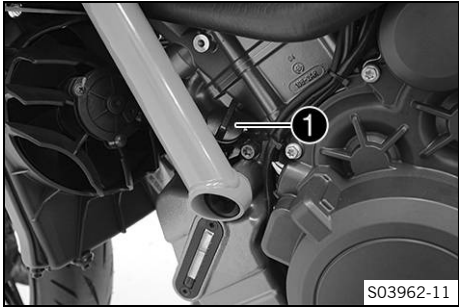
The engine is at operating temperature.

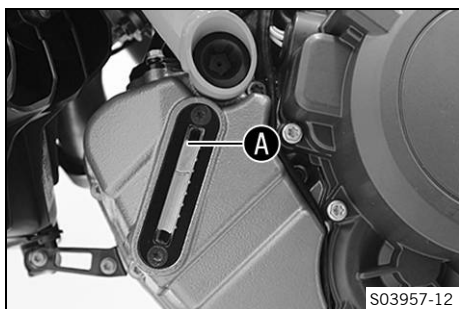
Preparatory work

- Stand the motorcycle upright on a horizontal surface.
- Check the engine oil level. (📖 p. 140)

Main work

- Remove filler plug **1** with the O-ring.





- Add the engine oil to upper marking **A** on the engine oil level viewer.

Condition

Ambient temperature: $\geq 0\text{ }^{\circ}\text{C}$ ($\geq 32\text{ }^{\circ}\text{F}$)

Engine oil (SAE 10W/50) (📖 p. 163)

Condition

Ambient temperature: $< 0\text{ }^{\circ}\text{C}$ ($< 32\text{ }^{\circ}\text{F}$)

Engine oil (SAE 5W/40) (📖 p. 164)



Info

In order to achieve optimal engine oil performance, it is not advisable to mix different engine oils.

KTM recommends changing the engine oil where necessary.

- Mount the 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 effective exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check for leaks.

Finishing work

- Check the engine oil level. (📖 p. 140)



20.1 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)



Note

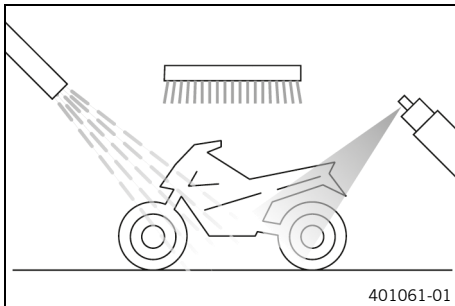
Environmental hazard Hazardous substances cause environmental damage.

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



Info

Clean the motorcycle regularly to maintain its value and appearance over a long period.
Avoid direct sunshine when cleaning the motorcycle.



- Close off exhaust system to keep water from entering.
- Remove the coarse dirt particles with a gentle water jet.
- Spray the heavily soiled parts with a normal commercial motorcycle cleaner and clean using a brush.

Motorcycle cleaner (📖 p. 165)



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 has been used on salted roads, use cold water for cleaning after riding. Warm water enhances 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.

- After the motorcycle has cooled down, lubricate all moving parts and pivot points.
- Clean the chain. (📖 p. 106)
- Treat bare metal (except for brake discs and the exhaust system) with a corrosion inhibitor.

Preserving materials for paints, metal and rubber (📖 p. 165)

- Treat the painted parts with a mild paint polish.

Shine spray for paint, plastic and chromium (📖 p. 165)



Info

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

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

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (📖 p. 165)

- Oil steering lock and seat lock.

Universal oil spray (📖 p. 165)

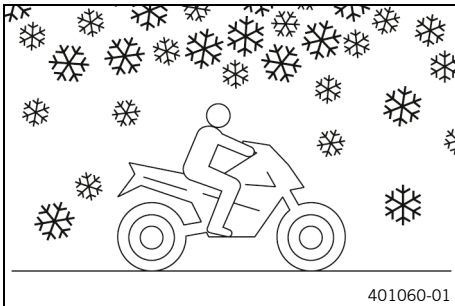
20.2 Checks and maintenance steps for winter operation



Info

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

If the vehicle has been used on salted roads, use cold water for cleaning after riding. Warm water enhances the corrosive effects of salt.



- Clean the motorcycle. (📖 p. 145)
- Clean the brakes.



Info

After **EVERY** trip on salted roads, thoroughly clean the brake calipers and brake linings, after they have cooled down and without removing them, with cold water and dry them carefully.

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

- Treat the engine, the link fork, and all other bare or zinc-plated parts (except the brake discs) with a wax-based corrosion inhibitor.



Info

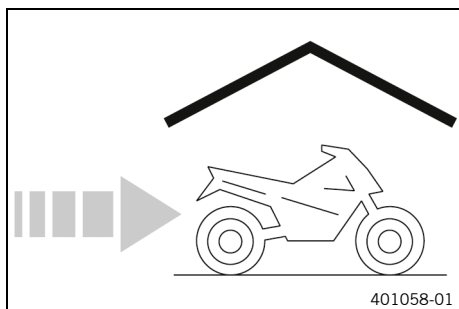
Corrosion inhibitor must not come into contact with the brake discs. This would severely lower the braking effect.

- Clean the chain. (📖 p. 106)

21.1 Storage

**Info**

If the motorcycle is not being used for an extended length of time, additional measures are recommended. 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). This allows you to avoid long waiting periods when the next season starts.



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

Fuel additive (📖 p. 165)

- Refuel. (📖 p. 93)

**Tip**

Fill the fuel tank completely as specified, using fuel with the lowest possible ethanol content.

- Clean the motorcycle. (📖 p. 145)
- Change the engine oil and the oil filter, clean the oil screens. 🛠️ (📖 p. 140)
- Check the coolant fill level and antifreeze. 🛠️
- Check tire pressure. (📖 p. 123)
- Remove the 12-V battery. 🛠️ (📖 p. 125)

Guideline

Storage temperature of the 12-V battery without direct sunlight	0 ... 35 °C (32 ... 95 °F)
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- Charge the 12-V battery. 🛠️ (📖 p. 127)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

**Info**

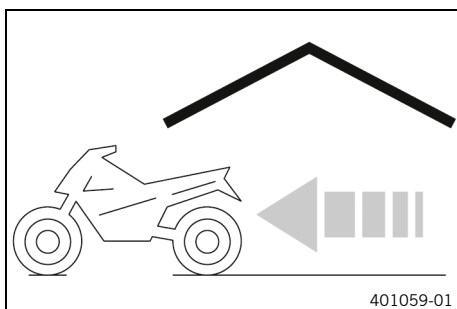
KTM recommends jacking up the motorcycle.

- Lift the motorcycle with the rear lifting gear. (📖 p. 98)
- Lift the motorcycle with the front lifting gear. (📖 p. 98)
- Cover the motorcycle with a tarp or cover that is permeable to air.

**Info**

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion. Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and the exhaust system to rust.

21.2 Preparing for use after storage



- Take the motorcycle off the front lifting gear. (📖 p. 99)
- Remove the rear of the motorcycle from the lifting gear. (📖 p. 98)
- Install the 12-V battery. 🔧 (📖 p. 126)



Info

If the 12-V battery was removed, the time and date must be set.

- Perform checks and maintenance measures when preparing for use. (📖 p. 83)
- Take a test ride.



The RACE-ON indicator lamp **1** can indicate errors by flashing. These are indicated up to five seconds after the RACE ON button is actuated.



Info

Blink codes referring to **KTM RACE ON** are only displayed once and are not repeated.

Faults	Possible cause	Action
No response if the unlock button is pressed	Unlock button faulty	<ul style="list-style-type: none"> – Check the unlock button for damage. – Check the cable and plug of the unlock button for damage.
Immobilizer indicator lamp flashes twice	No response signal from the RACE ON key	<ul style="list-style-type: none"> – Ensure that the RACE ON key is in range. – Remove other electronic devices from the vicinity of the RACE ON antenna. – Check the battery compartment in the RACE ON key for correct locking. – Check the battery compartment of the RACE ON key for corrosion. – Change the RACE ON key battery. (📖 p. 129) – Use black ignition key.
Immobilizer indicator lamp flashes three times	12-V battery discharged	<ul style="list-style-type: none"> – Charge the 12-V battery. (📖 p. 127) – Check the open-circuit current. 🛠️
Immobilizer indicator lamp flashes four times	Steering lock bolt locked or tense	<ul style="list-style-type: none"> – Move handlebar slightly.
Immobilizer indicator lamp flashes five times	RACE-ON antenna faulty	<ul style="list-style-type: none"> – Check the RACE-ON antenna for damage.
The combination instrument shows nothing on the display	Fuse 1 is blown	<ul style="list-style-type: none"> – Change the fuses in the fuse box. (📖 p. 131)
	The main fuse is blown	<ul style="list-style-type: none"> – Change the main fuse. (📖 p. 130)
	12-V battery discharged	<ul style="list-style-type: none"> – Charge the 12-V battery. 🛠️ (📖 p. 127) – Check the open-circuit current. 🛠️
Engine does not rotate if the start button/emergency OFF switch is pressed into the lower position	Operating error	<ul style="list-style-type: none"> – Carry out start procedure. (📖 p. 83)
	12-V battery discharged	<ul style="list-style-type: none"> – Charge the 12-V battery. 🛠️ (📖 p. 127) – Check the open-circuit current. 🛠️
	Faulty safety starting system	<ul style="list-style-type: none"> – Read out the fault memory using the KTM diagnostics tool. 🛠️
	Electronic fault	<ul style="list-style-type: none"> – Read out the fault memory using the KTM diagnostics tool. 🛠️
The engine only turns if the clutch lever is drawn	The vehicle is in gear	<ul style="list-style-type: none"> – Shift the transmission into neutral.
	Faulty safety starting system	<ul style="list-style-type: none"> – Read out the fault memory using the KTM diagnostics tool. 🛠️
The engine turns although a gear is engaged	Faulty safety starting system	<ul style="list-style-type: none"> – Read out the fault memory using the KTM diagnostics tool. 🛠️
The engine turns but does not start	Quick release coupling not joined	<ul style="list-style-type: none"> – Join the quick release coupling.

Faults	Possible cause	Action
The engine turns but does not start	Malfunction in the electronic fuel injection	– Read out the fault memory using the KTM diagnostics tool. 🛠️
	The fuel quality is insufficient	– Add suitable fuel.
The engine dies during the trip	Lack of fuel	– Refuel. (📖 p. 93)
	Malfunction in the electronic fuel injection	– Read out the fault memory using the KTM diagnostics tool. 🛠️
Malfunction indicator lamp lights up or flashes	Malfunction in the electronic fuel injection	– Read out the fault memory using the KTM diagnostics tool. 🛠️
The ABS warning lamp lights up	ABS fuse blown	– Change the fuses in the fuse box. (📖 p. 131)
	Large difference in wheel speeds of the front and rear wheels	– Stop the vehicle, switch off the ignition, and start it again.
	Malfunction in ABS	– Read out the fault memory using the KTM diagnostics tool. 🛠️
High oil consumption	The engine oil level is too high	– Check the engine oil level. (📖 p. 140)
	The engine oil is too thin (low viscosity)	– Change the engine oil and the oil filter, clean the oil screens. 🛠️ (📖 p. 140)
12-V battery discharged	The hazard warning flasher is switched on	– Switch off the hazard warning flasher. – Charge the 12-V battery. 🛠️ (📖 p. 127)
	The 12-V battery is not being charged by the alternator	– Check the charging voltage. 🛠️
	The ignition was not switched off while the vehicle was parked	– Charge the 12-V battery. 🛠️ (📖 p. 127)

23.1 Engine

Design	2-cylinder 4-stroke Otto engine, 75° V arrangement, water-cooled
Displacement	1,349.47 cm ³ (82.3501 cu in)
Stroke	71 mm (2.8 in)
Bore	110 mm (4.33 in)
Compression ratio	13.2:1
Idle speed	1,400 ... 1,600 rpm
Control	DOHC with cam lever, 4 valves per cylinder, chain-driven
Valve - valve plate diameter	
Intake	42 mm (1.65 in)
Exhaust	34 mm (1.34 in)
Valve clearance	
Intake at: 20 °C (68 °F)	0.10 ... 0.15 mm (0.0039 ... 0.0059 in)
Exhaust at: 20 °C (68 °F)	0.25 ... 0.30 mm (0.0098 ... 0.0118 in)
Crankshaft bearing	Sleeve bearing
Conrod bearing	Sleeve bearing
Piston pin bearing	Connecting rod bushing
Piston	Forged light alloy
Piston ring	1 upper compression (rectangular) ring, 1 lower compression ring, 1 oil scraper ring
Engine lubrication	Dry sump lubrication system with 3 trochoidal pumps
Primary transmission	40:76
Clutch	Multidisc clutch in oil bath/hydraulically operated
Transmission	6-gear transmission, claw shifted
Transmission ratio	
first-gear	12:35
second-gear	15:32
third-gear	18:30
fourth-gear	20:27
fifth-gear	23:27
sixth-gear	26:27
Mixture preparation	Electronic fuel injection, Keihin 60 mm
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	14 V, 504 W
Spark plug	
Inside spark plug	NGK LKAR9DI-10
Outside spark plug	NGK LMAR7DI-10
Electrode gap, spark plug	1 mm (0.04 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Cold start device	Starter motor

23.2 Engine tightening torques

Screw, air filter box cover	EJOT Delta PT® M6x14	2 Nm (1.5 lbf ft)
Screw, air filter box cover	EJOT Delta PT® M6x14	2.5 Nm (1.84 lbf ft)
Screw, damping plate	EJOT ALtracs® M6x14	10 Nm (7.4 lbf ft) Loctite®243™
Screw, intake air temperature sensor		2 Nm (1.5 lbf ft)
Screw, retaining bracket, valve cover, rear	EJOT® M6x12	8 Nm (5.9 lbf ft)
Screw, secondary air system, air box lower part	EJOT Delta PT® M6x14	2 Nm (1.5 lbf ft)
Hose clip, intake flange	M4	1.5 Nm (1.11 lbf ft)
Cam lever shaft, lock screw	M5	5 Nm (3.7 lbf ft)
Cam shift actuator	M5	5 Nm (3.7 lbf ft)
Oil nozzle	M5	2 Nm (1.5 lbf ft) Loctite®243™
Position sensor, valve cams	M5	6 Nm (4.4 lbf ft)
Remaining engine screws	M5	6 Nm (4.4 lbf ft)
Screw, bearing retainer	M5	5 Nm (3.7 lbf ft) Loctite®243™
Screw, bearing shells retaining bracket	M5	6 Nm (4.4 lbf ft) Loctite®243™
Screw, cable duct on the engine fixing arm	M5	5 Nm (3.7 lbf ft)
Screw, crankshaft speed sensor	M5	6 Nm (4.4 lbf ft) Loctite®243™
Screw, engine oil level viewer	M5	4 Nm (3 lbf ft) Loctite®243™
Screw, gear position sensor	M5	5 Nm (3.7 lbf ft) Loctite®243™
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
Screw, resonator	M5	8 Nm (5.9 lbf ft) Loctite®243™
Screw, shift shaft sensor	M5	5 Nm (3.7 lbf ft) Loctite®243™
Screw, swingarm sensor	M5x12 – 8.8	5 Nm (3.7 lbf ft) Loctite®243™
Bleeder screw, cylinder head	M6	6 Nm (4.4 lbf ft)
Bleeder screw, water pump cover	M6	10 Nm (7.4 lbf ft)
Chain shaft screw	M6	10 Nm (7.4 lbf ft)
Coolant connection screw on the cylinder head	M6	8 Nm (5.9 lbf ft) Loctite®243™
Intake sleeve	M6	10 Nm (7.4 lbf ft) Loctite®243™
Nut, cylinder head	M6	8 Nm (5.9 lbf ft)
Nut, starter cable	M6	4 Nm (3 lbf ft)
Remaining engine screws	M6	10 Nm (7.4 lbf ft)
Screw, alternator cover	M6	10 Nm (7.4 lbf ft)

Screw, camshaft bearing support	M6 – 10.9	10 Nm (7.4 lbf ft)
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
Screw, clutch spring	M6	12 Nm (8.9 lbf ft)
Screw, engine case	M6x60	10 Nm (7.4 lbf ft)
Screw, engine case	M6x80	10 Nm (7.4 lbf ft)
Screw, engine case	M6x90	10 Nm (7.4 lbf ft)
Screw, freewheel ring	M6	15 Nm (11.1 lbf ft)
Screw, guide rail	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, ignition coil	M6	8 Nm (5.9 lbf ft)
Screw, kickstarter gear support	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, locking lever	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, oil filler hose	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, oil pump cover	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, oil/water heat exchanger	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, secondary air system, cylinder head	M6	10 Nm (7.4 lbf ft)
Screw, shift drum locating unit	M6 – 12.9	15 Nm (11.1 lbf ft) Loctite®243™
Screw, shift lever	M6	18 Nm (13.3 lbf ft)
Screw, starter motor	M6	10 Nm (7.4 lbf ft)
Screw, stator	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, tube for oil/water heat exchanger	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft) Loctite®243™
Stud, timing chain shaft	M6	3 Nm (2.2 lbf ft)
Vacuum connection	M6	2.5 Nm (1.84 lbf ft) Loctite®243™
Nozzle 100	M6x0.75	3 Nm (2.2 lbf ft) Loctite®243™
Screw, camshaft bearing support	M7x1	14 Nm (10.3 lbf ft)
Crankshaft fixing screw	M8	12 Nm (8.9 lbf ft)
Screw, engine case	M8	18 Nm (13.3 lbf ft)
Screw, guide rail	M8	15 Nm (11.1 lbf ft) Loctite®243™
Screw, tensioning rail	M8	15 Nm (11.1 lbf ft) Loctite®243™
Stud, exhaust flange	M8	10 Nm (7.4 lbf ft)
Engine bearer on the left and right	M10	45 Nm (33.2 lbf ft)

23 TECHNICAL SPECIFICATIONS

Screw, engine bearer	M10	45 Nm (33.2 lbf ft)
Oil pressure sensor	M10x1	15 Nm (11.1 lbf ft)
Screw plug, cam lever axis	M10x1	12 Nm (8.9 lbf ft)
Screw plug, clutch lubrication	M10x1	8 Nm (5.9 lbf ft)
Screw plug, spreading transmission lock	M10x1	12 Nm (8.9 lbf ft)
Screw, conrod bearing	M10x1	Step 1 25 Nm (18.4 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90°
Screw, unlocking of timing chain tensioner	M10x1	8 Nm (5.9 lbf ft)
Spark plug outside	M10x1	11 Nm (8.1 lbf ft)
Coolant temperature sensor	M10x1.25	12 Nm (8.9 lbf ft)
Cylinder head screw	M11x1.5	Tightening sequence: Using a crisscross pattern Step 1 15 Nm (11.1 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 90° Step 4 90° Lubricated with engine oil
Screw, shock absorber bell crank	M12	80 Nm (59 lbf ft)
Spark plug inside	M12x1.25	15 Nm (11.1 lbf ft)
Rotor screw	M12x1.5	115 Nm (84.8 lbf ft)
Oil drain plug	M20x1.5	20 Nm (14.8 lbf ft)
Nut, inner clutch hub	M22x1.5	140 Nm (103.3 lbf ft)
Plug, timing-chain tensioner	M24x1.5	25 Nm (18.4 lbf ft)
Screw plug, alternator cover	M24x1.5	8 Nm (5.9 lbf ft)
Nut, primary gear wheel	M33LHx1.5	130 Nm (95.9 lbf ft) Loctite®243™

23.3 Capacities

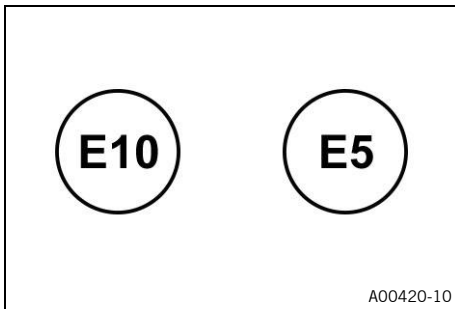
23.3.1 Engine oil

Engine oil Ambient temperature: $\geq 0\text{ }^{\circ}\text{C}$ ($\geq 32\text{ }^{\circ}\text{F}$)	3.50 l (3.7 qt.)	Engine oil (SAE 10W/50) (📖 p. 163)
Engine oil Ambient temperature: $< 0\text{ }^{\circ}\text{C}$ ($< 32\text{ }^{\circ}\text{F}$)		Engine oil (SAE 5W/40) (📖 p. 164)

23.3.2 Coolant

Coolant	3.20 l (3.38 qt.)	Coolant (📖 p. 163)
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23.3.3 Fuel



Please observe the labels on EU fuel pumps.

Total fuel tank capacity, approx.	17.5 l (4.62 US gal)	Super unleaded (ROZ 95) (📖 p. 164)
Fuel reserve, approx.	3.5 l (3.7 qt.)	

23.4 Chassis

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Fork	WP SuspensionSemi-active Suspension
Shock absorber	WP SuspensionSemi-active Suspension
Suspension travel	
front	125 mm (4.92 in)
rear	140 mm (5.51 in)
Brake system	
front	Double disc brake with radially mounted four-piston brake calipers, floating brake discs
rear	Single disc brake with dual-piston brake caliper, fixed brake disc
Brake discs - diameter	
front	320 mm (12.6 in)
rear	240 mm (9.45 in)
Brake discs - wear limit	
front	4.5 mm (0.177 in)
rear	4.5 mm (0.177 in)
Tire pressure when solo	
front: with cold tires	2.5 bar (36 psi)
rear: with cold tires	2.5 bar (36 psi)
Secondary drive ratio	17:38
	<div> <div>i</div> <div> Info Modifications to the transmission ratio are not permitted and can lead to malfunctions. </div> </div>
Chain	5/8 x 5/16" (525) X-ring
Steering head angle	65.3°
Wheelbase	1,492 mm (58.74 in)
Seat height unloaded	834 mm (32.83 in)
Ground clearance unloaded	149 mm (5.87 in)

23 TECHNICAL SPECIFICATIONS

Weight without fuel approx.	200 kg (441 lb.)
Maximum permissible front axle load	165 kg (364 lb.)
Maximum permissible rear axle load	260 kg (573 lb.)
Maximum permissible overall weight	425 kg (937 lb.)

23.5 Electrical system

12-V battery	YTZ14S	Battery voltage: 12 V Nominal capacity: 11.2 Ah Maintenance-free
Key battery	CR 2032	3 V
Fuse	75011088075	7.5 A
Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	75011088025	25 A
Fuse	58011109130	30 A

Low beam/high beam	LED
Daytime running light/position light	LED
Combination instrument lighting and indicator lamps	LED
Turn signal	LED
Tail light	LED
Brake light	LED
License plate lamp	LED

23.6 Tires

Validity	Front tire	Rear tire
(1390 SUPER DUKE R EVO EU/JP)	120/70 ZR 17 M/C (58W) TL Michelin Power GP	200/55 ZR 17 M/C (78W) TL Michelin Power GP
(1390 SUPER DUKE R EVO CN)	120/70 ZR 17 M/C (58W) TL Michelin Power GP 2	200/55 ZR 17 M/C (78W) TL Michelin Power GP 2
The tires specified represent one of the possible series production tires. For alternative manufacturers, if any, contact an authorized dealer or qualified tire dealership. If local road approval regulations apply, these and the respective technical specifications must be observed. Additional information is available in the Service section under: KTM.COM		

23.7 Fork

Fork article number	A624C122X407000	
Fork	WP SuspensionSemi-active Suspension	
Spring length with preload spacer(s)	284 mm (11.18 in)	
Spring rate		
Medium (standard)	19 N/mm (108 lb/in)	
Fork length	752 mm (29.61 in)	
Fork oil, fork leg, left	640 ml (21.64 fl. oz.)	Fork oil (SAE 4) (48601166S1) (📖 p. 164)

23.8 Shock absorber

Shock absorber article number	A624C422X307000
Shock absorber	WP SuspensionSemi-active Suspension
Spring rate	
Medium (standard)	85 N/mm (485 lbf/in)
Spring length	197 mm (7.76 in)
Static sag	8.8 mm (0.346 in)
Fitted length	356 mm (14.02 in)

23.9 Chassis tightening torques

Brake fluid reservoir for front brake cover	-	1 Nm (0.7 lbf ft)
Brake fluid reservoir for rear brake cover	-	3.5 Nm (2.58 lbf ft)
Remaining screws, chassis	EJOT PT® K50x12	1.2 Nm (0.89 lbf ft)
Remaining screws, chassis	EJOT PT® K50x14	1.5 Nm (1.11 lbf ft)
Remaining screws, chassis	EJOT PT® K50x16	2.2 Nm (1.62 lbf ft)
Remaining screws, chassis	EJOT PT® K50x18	2.2 Nm (1.62 lbf ft)
Remaining screws, chassis	EJOT PT® K45x12	1.2 Nm (0.89 lbf ft)
Screw, fan hood on radiator	K40x46	2.2 Nm (1.62 lbf ft)
Screw, tail light	EJOT PT® K50x14	1.5 Nm (1.11 lbf ft)
Screw, fixed grip, left	M4	3 Nm (2.2 lbf ft)
Preload adjuster screw	M5	5 Nm (3.7 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, 6D sensor holder	M5	2.7 Nm (1.99 lbf ft) Loctite®243™
screw, absorbing element, combination instrument	M5	2 Nm (1.5 lbf ft) Loctite®243™
Screw, cable channel	M5	5 Nm (3.7 lbf ft)
Screw, chain sliding guard	M5	5 Nm (3.7 lbf ft)
Screw, combination instrument	M5	1 Nm (0.7 lbf ft)
Screw, combination switch, left	M5	5 Nm (3.7 lbf ft)
Screw, combination switch, right	M5	5 Nm (3.7 lbf ft)
Screw, Denso throttle grip	M5	3.5 Nm (2.58 lbf ft)
Screw, fuel tank filler cap	M5	3 Nm (2.2 lbf ft)
Screw, fuel tank spoiler	M5	3.5 Nm (2.58 lbf ft)
Screw, heat protector on main silencer	M5	4 Nm (3 lbf ft)
Screw, injection valve	M5	4 Nm (3 lbf ft) Loctite®243™
Screw, radiator fan cover	M5	3.2 Nm (2.36 lbf ft)
Screw, trim	M5	3.5 Nm (2.58 lbf ft)
Screw, turn signal on turn signal bracket	M5	2 Nm (1.5 lbf ft)

23 TECHNICAL SPECIFICATIONS

Screw, valve	M5	2 Nm (1.5 lbf ft) Loctite®243™
Screw, wiring harness holding bracket	M5	5 Nm (3.7 lbf ft)
Cable disk nut, exhaust valve control unit	M6	14 Nm (10.3 lbf ft)
Ground fitting on frame	M6	10 Nm (7.4 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Screw, 6D sensor	M6	6 Nm (4.4 lbf ft)
Screw, ABS module fastening	M6	8 Nm (5.9 lbf ft)
Screw, ball joint of push rod on brake cylinder	M6	5 Nm (3.7 lbf ft) Loctite®243™
Screw, battery compartment	M6	6 Nm (4.4 lbf ft)
Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
Screw, brake assembly	M6	5 Nm (3.7 lbf ft)
Screw, brake cylinder	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, cable on starter relay	M6	6 Nm (4.4 lbf ft)
Screw, clutch assembly	M6	5 Nm (3.7 lbf ft) Loctite®243™
Screw, cooler retaining bracket	M6	7 Nm (5.2 lbf ft)
Screw, cover part	M6x14	5 Nm (3.7 lbf ft)
Screw, engine sprocket cover	M6	8 Nm (5.9 lbf ft)
Screw, front fuel tank	M6	8 Nm (5.9 lbf ft)
Screw, front wheel speed sensor	M6	4 Nm (3 lbf ft)
Screw, fuel tank bridge	M6	8 Nm (5.9 lbf ft)
Screw, fuel tank on tank bridge	M6	5 Nm (3.7 lbf ft)
Screw, fuse box support	M6	6 Nm (4.4 lbf ft)
Screw, horn	M6x15	5 Nm (3.7 lbf ft)
Screw, instrument support	M6	2 Nm (1.5 lbf ft)
Screw, license plate holder on lower rear panel	M6	8 Nm (5.9 lbf ft)
Screw, radiator bracket	M6	5 Nm (3.7 lbf ft)
Screw, rear wheel speed sensor	M6	4 Nm (3 lbf ft)
Screw, seat lock	M6	5 Nm (3.7 lbf ft) Loctite®243™
Screw, shift lever stub	M6	10 Nm (7.4 lbf ft)
Screw, shift rod	M6	5 Nm (3.7 lbf ft) Loctite®243™
Screw, shift shaft deflector on shift shaft	M6	18 Nm (13.3 lbf ft) Loctite®243™
Screw, side stand sensor	M6	8 Nm (5.9 lbf ft)
Screw, steering damper bracket on frame	M6	8 Nm (5.9 lbf ft) Loctite®243™
Screw, step plate for foot brake lever	M6	10 Nm (7.4 lbf ft)
Screw, trim	M6	5 Nm (3.7 lbf ft)

Screw, voltage regulator	M6	6 Nm (4.4 lbf ft)
Nut, exhaust valve throttle cable	M6x1	5 Nm (3.7 lbf ft)
Cable disk nut, exhaust valve	M8	7 Nm (5.2 lbf ft)
Nut, rear sprocket	M8	36 Nm (26.6 lbf ft) Loctite®243™
Nut, shift rod	M8	12 Nm (8.9 lbf ft)
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, axle clamp	M8	15 Nm (11.1 lbf ft)
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)
Screw, cross connector on lower rear panel	M8	15 Nm (11.1 lbf ft) Loctite®243™
Screw, exhaust clamp on main silencer	M8	12 Nm (8.9 lbf ft)
Screw, foot brake lever	M8	20 Nm (14.8 lbf ft) Loctite®243™
Screw, front brake disc	M8	28 Nm (20.7 lbf ft) Loctite®2701™
Screw, front rider footrest bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
Screw, ignition lock (tamper-proof screw)	M8	25 Nm (18.4 lbf ft)
Screw, passenger footrest unit	M8x25	25 Nm (18.4 lbf ft) Loctite®243™
Screw, passenger footrest unit	M8x35	25 Nm (18.4 lbf ft) Loctite®243™
Screw, presilencer	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, presilencer exhaust clamp	M8	17 Nm (12.5 lbf ft)
Screw, rear brake caliper	M8	25 Nm (18.4 lbf ft) Loctite®2701™
Screw, rear brake disc	M8	28 Nm (20.7 lbf ft) Loctite®243™
Screw, shift lever on footrest bracket	M8	20 Nm (14.8 lbf ft) Loctite®243™
Screw, side stand bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, side stand spring	M8	15 Nm (11.1 lbf ft) Loctite®2701™
Screw, steering damper on triple clamp	M8	8 Nm (5.9 lbf ft) Loctite®243™
Screw, steering stem clamp	M8	20 Nm (14.8 lbf ft) Loctite®243™
Screw, subframe	M8	35 Nm (25.8 lbf ft) Loctite®243™
Screw, subframe brace	M8	25 Nm (18.4 lbf ft) Loctite®243™

23 TECHNICAL SPECIFICATIONS

Screw, subframe metal flange	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, top triple clamp	M8	18 Nm (13.3 lbf ft)
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)
Screw, engine bearer	M10	45 Nm (33.2 lbf ft) Loctite®243™
Screw, front brake caliper	M10	45 Nm (33.2 lbf ft) Loctite®243™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft) Loctite®243™
Screw, headlight bracket at bottom	M10	5 Nm (3.7 lbf ft)
Screw, side stand	M10	40 Nm (29.5 lbf ft) Loctite®243™
Screw, side stand bracket	M10	55 Nm (40.6 lbf ft) Loctite®243™
Banjo bolt, brake line	M10x1	25 Nm (18.4 lbf ft)
Banjo bolt, brake line, connecting piece, rear	M10x1	25 Nm (18.4 lbf ft)
Nut, rear hub shock absorber carrier	M10x1.25	45 Nm (33.2 lbf ft) Loctite®243™
Screw, bottom shock absorber	M12	80 Nm (59 lbf ft) Loctite®243™
Screw, brake caliper support	M12	28 Nm (20.7 lbf ft)
Screw, side stand bracket	M12	80 Nm (59 lbf ft) Loctite®243™
Screw, top shock absorber	M12	80 Nm (59 lbf ft) Loctite®243™
Screw, triangular lever on link fork	M12	80 Nm (59 lbf ft) Loctite®243™
Lambda sensor	M12x1.25	24.5 Nm (18.07 lbf ft)
Screw, eccentric	M16	70 Nm (51.6 lbf ft)
Nut, fork pivot	M19x1.5	130 Nm (95.9 lbf ft) Thread greased
Bushing, shock absorber support	M20LHx1.5	10 Nm (7.4 lbf ft) Thread and fitting greased
Screw, shock absorber support	M20x1.5	10 Nm (7.4 lbf ft) Thread and fitting greased
Screw, steering head, top	M20x1.5	12 Nm (8.9 lbf ft)
Screw, front wheel spindle	M25x1.5	45 Nm (33.2 lbf ft) Thread greased
Nut, rear axle, shock absorber side	M35x1.5	200 Nm (147.5 lbf ft) Loctite® 262™ /lock the locking wire with locking varnish
Nut, rear axle	M50x1.5	250 Nm (184.4 lbf ft) Thread greased/lock locking wire with locking varnish

24.1 Declarations of conformity



Info

The functional and equipment scope is model-dependent and may not include all wireless systems and application areas referred to.

Polaris hereby declares that the **Connectivity Control Unit "CCU-2"** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.

Certification website: <http://www.ktm.com/ccu-2>

KTM AG hereby declares that the **KTM RACE ON system** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.

Certification website: <http://www.ktm.com/ktm-race-on>

Schrader Electronics Ltd hereby declares that the **Tyre Pressure Monitoring System** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.

Certification website: <http://www.ktm.com/tpms>

24.2 Country-specific declarations of conformity (KTM RACE ON)

KTM RACE ON system

Advertencias de IFETEL
La operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.
Modelo XCB0305 (unidad central) K0349-0 (llave activa)
Certificado Homologación Numero: **RLVZAXC17-1532**

CNC COMISIÓN NACIONAL DE COMUNICACIONES
H-20232

MCMC
HIDF17000192

Model: K0349-0
ANATEL
Agência Nacional de Telecomunicações
06880-17-08714

ICASA TA-2017/1409

AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR 14689 ANRT 2017
Date d'agrément : 31/08/2017

AGREE PAR L'ANRT MAROC
Numéro d'agrément : MR 14690 ANRT 2017
Date d'agrément : 31/08/2017

Model: XCB0305
ANATEL
Agência Nacional de Telecomunicações
07025-17-08714

NOTICE
This equipment has been registered with the Telecommunications Regulatory Authority for use in the UAE.
TRA REGISTERED No: ER63529/18
DEALER No: DA75721/18

NOTICE
This equipment has been registered with the Telecommunications Regulatory Authority for use in the UAE.
TRA REGISTERED No: ER63531/18
DEALER No: DA75721/18

UA.TR.109.0199-17

UA.TR.109.0198-17

R-RRM-ZAD-XCB0305
Company name: ZADI S.p.A.
Equipment Name: Keyless System
Basic Model Name: XCB0305
Series Model Name: XCB0307
Manufactured Date: Week / Year
Manufacturer / Country: ZADI S.p.A./ ITALY

R-CRM-ZAD-K0349-0
Company name: ZADI S.p.A.
Equipment Name: RRS Remote control key
Model Name: K0349-0
Manufactured Date: Week / Year
Manufacturer / Country: ZADI S.p.A./ ITALY

Complies with
IMDA Standards
DA107682

F01726-01

24.3 Country-specific declarations of conformity (CCU-2)

FC CONTAINS FCC ID: 2A0W7-K001
CONTAINS IC: 5966A-K001
CMIIT ID: XXXXXXXXX

ANATEL 04624-20-12908

CCA CCAJ20LP09A0T1
CNC ID: C-24749

UA.032.CT.0103-20
AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR22163 ANRT 2020
Date d'agrément: 25/02/2020

TRAIL TECH
Polaris Industries Inc.
Connectivity Control Unit
Model: CCU-2
Country of Origin: USA
Input: 14Vcc 1.1A

EAC **CE**
R-NZ

NOM Polaris Industries
Unidad de control de comunicaciones
Trail Tech
CCU-2
INPUT: 14Vcc 1.1A
USA
IFT #: RCPTRCC20-0716

TP BY Complies with
IMDA Standards
DA107035

TRA
REGISTERED No:
ER79816/20
DEALER No:
DA68241/17

ICASA TA-2020/5195
APPROVED

Certified for use in Hong Kong
經認證可在香港使用
Certificate No. 證書號碼
HK0012002210
COMMUNICATIONS AUTHORITY

nanb.
เครื่องวิทยุคมนาคมนี้ ได้รับยกเว้น ไม่ต้องได้
รับใบอนุญาตให้มี ใช้ซึ่งเครื่องวิทยุคมนาคม
หรือตั้งสถานีวิทยุคมนาคมตามประกาศ กสทช.
เรื่อง เครื่องวิทยุคมนาคม และสถานีวิทยุ
คมนาคมที่ได้รับยกเว้นไม่ต้องได้รับใบอนุญาต
วิทยุคมนาคมตามพระราชบัญญัติวิทยุคมนาคม
พ.ศ. 2498

nanb. | โกรทมนาคบ
กำกับดูแลเพื่อประชาชน
Call Center 1200 (InswS)

S05603-01

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 10W/50)**Standard/classification**

- JASO T903 MA2 (📖 p. 166)
- SAE (📖 p. 166) (SAE 10W/50)

Guideline

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

Fully synthetic engine oil

Recommended supplier**MOTOREX®**

- Power Synt 4T

Engine oil (SAE 5W/40)

Standard/classification

- JASO T903 MA2 (📖 p. 166)
- SAE (📖 p. 166) (SAE 5W/40)

Guideline

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

Fully synthetic engine oil

Recommended supplier

MOTOREX®

- Power Synt 4T

Fork oil (SAE 4) (48601166S1)

Standard/classification

- SAE (📖 p. 166) (SAE 4)

Guideline

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

Super unleaded (ROZ 95)

Standard/classification

- DIN EN 228 (ROZ 95)

Guideline

- Only use super unleaded fuel that matches or is equivalent to the specified standard.
- 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

Fuel additive

Recommended supplier

MOTOREX®

- Fuel Stabilizer

Long-life grease

Recommended supplier

MOTOREX®

- Bike Grease 2000

Motorcycle cleaner

Recommended supplier

MOTOREX®

- Moto Clean

Preserving materials for paints, metal and rubber

Recommended supplier

MOTOREX®

- Moto Protect

Shine spray for paint, plastic and chromium

Recommended supplier

MOTOREX®

- Moto Shine

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

Recommended supplier

MOTOREX®

- Quick Cleaner

Street chain spray

Guideline

Recommended supplier

MOTOREX®

- Chainlube Road Strong

Universal oil spray

Recommended supplier

MOTOREX®

- Joker 440 Synthetic

JASO T903 MA2

Different technical development directions required a separate specification for motorcycles – the **JASO T903 MA2** standard.

Earlier, engine oils from the automobile industry were used for 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 clutch are lubricated with the same oil.

The **JASO T903 MA2** 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.


ABS	Anti-lock braking system	Safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces
ARA	Anti-relay attack	Safety system that deactivates the wireless response of the RACE ON key after a certain time and thus increases security against theft
ATIR	Automatic Turn Indicator Reset	Software, which automatically switches the indicator off according to a time or travel distance counter
DRL	Daytime Running Light	Light, which enhances the visibility of the vehicle during the day but is not focused, and in contrast to low beam does not illuminate the road surface
ETTC	Engine traction torque control	Auxiliary function of the engine control, which prevents rear wheel locking with excessive engine braking effect, by lightly opening the throttle valve
-	KTM RACE ON	System that releases the ignition, steering lock, and fuel tank filler cap via a transponder key
-	KTMconnect	System for wireless communication with suitable cell-phones and communication systems for telephony and audio
-	Launch control	Vehicles electronics functions for achieving the best possible acceleration from a standing position
MTC	Motorcycle Traction Control	Auxiliary function of the motor control that reduces engine torque with spinning rear wheel
OBD	On-board diagnosis	Vehicle system, which monitors the specified parameters of the vehicle electronics
-	QUICKSHIFTER+	Engine tuning function for shifting up and down without clutch actuation

29 LIST OF ABBREVIATIONS

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







30.1 Red symbols

Red symbols indicate an error condition that requires immediate intervention.

	The oil pressure warning lamp lights up red – The oil pressure is too low. Stop immediately, taking care not to endanger yourself or other road users in the process, and switch off the engine.
---	--





30.2 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.

	The malfunction indicator lamp lights up yellow – The OBD has detected a malfunction in the vehicle electronics. Come safely to a halt, and contact an authorized KTM workshop.
	ABS warning lamp lights up yellow – Status or error messages relating to ABS.
	The ABS rear warning lamp lights up yellow – ABS is deactivated on the rear wheel.
	TC indicator lamp lights up/flashes yellow – MTC (p. 138) is not enabled or is currently intervening. The TC indicator lamp also lights up if a malfunction is detected. Contact an authorized KTM workshop. The TC indicator lamp flashes if MTC makes an active intervention.
	The cruise control system indicator lamp (optional) lights up yellow – The cruise control system function is switched on, but cruise control is not activated.
	The general warning lamp lights up yellow – A note/warning note on operating safety has been detected. This is also shown in the display.

30.3 Green and blue symbols

Green and blue symbols reflect information.

	The turn signal indicator lamp flashes green with a steady rhythmic flash – The turn signal is switched on.
	The idle indicator lamp lights up green – The transmission is in neutral.
	The cruise control system indicator lamp (optional) lights up green – The cruise control system function is switched on and cruise control is activated.
	The high beam indicator lamp lights up blue – The high beam is switched on.

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