

790 ADVENTURE

ITEM NO.: 3240313EN



KTM

Congratulations on your decision to purchase a KTM motorcycle. You are now the owner of a state-of-the-art sports vehicle which, with proper care, will bring you pleasure for a long time to come.

We hope you enjoy your bike and have a safe journey at all times!

You can enter the serial numbers of your vehicle below to find the serial numbers more quickly if required:

Vehicle identification number  (p. 20)	Stamp of the contractual partner
Engine number  (p. 20)	

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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ISO 9001

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1.1 Conventions

1.1.1 Icons

-  Indicates a desired result (e.g. of a work step or a function).
-  Indicates an undesired result (e.g. of a work step or a function).
-  All work marked with this symbol requires specialist knowledge and technical understanding. Ensure that this work is carried out or supervised by trained personnel from an authorized contractual partner, and that any special tools required are used.
-  Indicates a page reference.
-  Indicates information with more details.
-  Indicates a tip, e.g. to simplify work.
-  Indicates the result from a test step.
-  Indicates the end of an activity, including any rework.

1.1.2 Formatting

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 that are explained in the glossary.

1.1.3 Abbreviations

2-pc.	two-part
Part no.	Part number
or	respectively
approx.	circa
etc.	et cetera
poss.	possibly/possible
if necessary	if necessary
cmpl.	complete
min.	at least
no.	number
no fig.	no figure
s.	see
among others	among others/not limited to
and the like	and the like
etc.	et cetera
cf.	compare
e.g.	for example

2.1 Safety instructions

Function of the safety instruction

Safety instruction brings attention to dangers when handling the product. Hazards are classified, named, described, and supplemented with information on how to avoid them.

- If there is a safety instruction before a list of instructions, the danger exists throughout the entire activity.
- If there is a safety instruction immediately before an instruction, the next step presents a danger.

Safety instruction layout

All safety instructions are identified by a signal word and a warning symbol. The combination of signal word and warning symbol determines the degree of danger.



DANGER

Indicates an imminent danger that leads to serious injury or death.



WARNING

Indicates a potentially imminent danger that could lead to serious injury or death.



CAUTION

Indicates a potentially imminent danger that can lead to minor or slight injuries.



NOTE

Indicates a situation that can lead to damage to the product or the product environment.



NOTE

Indicates a situation that can lead to environmental damage.

2.2 Consumer rights

Warranty claims must be made to an authorized dealer. If you are not satisfied, please contact:

KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001, USA

Phone: (440) 985-3553

www.ktmusa.com

KTM Canada, Inc., Customer Support, 8701 Rue Samuel-Hatt, Chambly, QC J3L 6V4, Canada

Phone: (450) 441-4451

www.ktmcanada.com

Different rights may apply, according to national or regional legislation.

2.3 Operating noise warning

This product should be checked for necessary repair or replacement parts if the motorcycle noise has increased significantly through use. Otherwise, the owner may become subject to penalties under the applicable ordinances.

2.4 Manufacturer warranty for the exhaust monitoring system

KTM North America, Inc. guarantees that, at the time of sale, the exhaust monitoring system complies with all the standards of the US Environmental Protection Agency (EPA) and the California Air Resources Board (CARB). This manufacturer warranty applies in respect of the first owner of the motorcycle and all subsequent owners.

Your exhaust monitoring system may include parts, such as the fuel injection system, ignition, catalytic converter, control units, hoses, connectors and other emission related assemblies, fuel tank, crankcase breather, fuel tank lid for vehicles with fuel evaporation monitoring, oil filler cap, pressure control valve, fuel/vapor separator, canister, ignition coils, ignition wire, capacitors and spark plugs, if a fault occurs before the first scheduled replacement; it may also include the hoses, fittings, and pipes that are used directly in these components.

If the warranty conditions are met, KTM will repair your motorcycle for you free of charge, including diagnosis, parts, and labor.

As the owner of the motorcycle, you are responsible for the required maintenance specified in the Owner's Manual.

Please note that KTM is entitled to reject warranty claims if your motorcycle or a part fails due to misuse, negligence, an accident, participation in racing or similar events, improper maintenance or unauthorized modifications.

Scope of the manufacturer's warranty

- Five (5) years or 30,000 kilometers (18,641 miles), whichever occurs first.

If you have any questions regarding the manufacturer warranty for the exhaust monitoring system, please address these to:

KTM North America, Inc. Customer Support, 1119 Milan Ave., Amherst, OH 44001, USA

Phone: (888) 985-6090

U.S. Environmental Protection Agency, 2000 Traverwood Drive, Ann Arbor, MI 48105, USA

California Air Resources Board, 1001 "I" Street, Sacramento, CA 95814, USA

2.5 Noise emission warranty

KTM warrants that this exhaust system, at the time of sale, meets all applicable U.S. EPA Federal noise standards.

This manufacturer's warranty extends to the first person who purchases this exhaust system for purposes other than resale, and to all subsequent buyers.

Warranty claims should be directed to:

KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001, USA

Phone: (440) 985-3553

www.ktmusa.com

KTM Canada, Inc., Customer Support, 8701 Rue Samuel-Hatt, Chambly, QC J3L 6V4, Canada

Phone: (450) 441-4451

www.ktmcanada.com

2.6 Reporting safety defects

If you believe that your vehicle has a defect which could cause an accident resulting in injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying KTM North America, Inc.

If the NHTSA receives multiple similar complaints, it may open an investigation. and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your contracting partner, or KTM North America, Inc.

You can contact the NHTSA via the toll-free "Auto Safety Hotline" on 1-888-327-4236, visit the www.nhtsa.dot.gov website, or write to: NHTSA Headquarters, 1200 New Jersey Avenue, SE, West Building, Washington, DC 20590, USA. You can also obtain other information about motor vehicle safety from the hotline.

2.7 Ban on tampering

No changes may be made to the noise control equipment and components.

Tampering that is prohibited

- Removing or disabling any devices or components used for noise control before the new vehicle is sold or delivered to the end customer.
- Removing or disabling any device or component used for noise control for purposes other than service, repair, or replacement during the service life of the vehicle.
- Use of the vehicle after a device or component used for noise control has been removed, disabled, or inadequately maintained.

Examples of prohibited tampering

- Removing or drilling through rear mufflers, baffle plates, manifolds, or other components that conduct exhaust gases.
- Removing or puncturing parts of the intake system.

- Replacing moving parts of the vehicle, or parts of the exhaust system or intake system, with parts other than those specified by the manufacturer.

2.8 Safe use



DANGER

Danger of accidents A rider who is not fit to ride poses a danger to himself and to 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 incapable of doing so.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable 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.
- Allow the vehicle parts to cool down before performing any work on the vehicle.

The vehicle should only be used when it is in perfect technical condition, for its intended purpose, and in a safe and environmentally-friendly manner.

The vehicle may only be used by authorized persons. An appropriate driver's license is needed to drive the vehicle on public roads.

Have any faults that impair safety immediately remedied by an authorized contractual partner.

Adhere to the information and warning labels on the vehicle.

2.9 Protective clothing



WARNING

Risk of injury Missing or inadequate protective clothing increases the risk of injury.

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

2.10 Work rules

Unless specified otherwise, the ignition must be switched off during all work (models with ignition lock, models with transponder key) or the engine must be at a standstill (models without ignition lock or transponder key).

Special tools are required for some work. The tools are not part of the vehicle, but can be ordered using the number in parentheses. Example: bearing puller (15112017000)

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

Ambient temperature	20 °C (68.0 °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).

A thread lock (e.g. **Loctite®**) is required for some screw connections. Observe the manufacturer's specific instructions for use.

If thread lock (e.g. **Precote®**) has already been applied to a new part, do not apply any additional thread lock. After disassembly, clean the parts that are to be reused and check them for damage and wear. Replace damaged or worn parts.

After completing a repair or service, check the operating safety of the vehicle.

2.11 Environment

Handling the vehicle responsibly reduces the risk of conflict with other road users and the surrounding area. The future of motorcycling also depends on using motorcycles legally, being environmentally conscious and respecting the rights of others.

When disposing of used oil, other operating and auxiliary fluids, and used components, the laws and regulations of the respective country must be observed.

As motorcycles are not subject to the EU regulations governing the disposal of end-of-life vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. More information is available from the authorized contractual partner.

2.12 Owner's manual

Read this owner's manual carefully and in full before riding off for the first time. The owner's manual contains information and tips on how to operate, handle, and service your vehicle, as well as advice on optimum tuning and how to avoid injuries.



Tip

Save this owner's manual on your smartphone, for example, so that you can access it at any time.

An authorized contractual partner will be happy to assist you if you are unsure.

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 multiple times using the QR code or the link on the delivery certificate.

The owner's manual is also available for download from your authorized contractual partner and on the KTM website.

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

A printed copy can be ordered from the following address.

Website for printed copy: <https://print.ktm.com>

2.13 Use definition – intended use

The vehicle is designed and constructed to withstand the usual demands of regular traffic and use on gentle terrain (unpaved roads). This vehicle is not suitable for use on race tracks.



Note

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

2.14 Improper use

The vehicle may only be used as intended.
Improper use can result in danger to people, property and the environment.
Any use of the vehicle beyond the intended and defined use constitutes misuse.
Improper use includes the use of operating and auxiliary materials that do not meet the required specifications for the respective use.

2.15 Safety markings on the motorcycle

2.15.1 Overview of labels



- 1 Information on emissions control

2 Information on chain tension

3 Type label for USA
- 4 Information on noise emissions

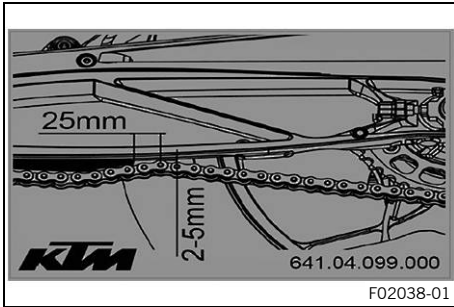
5 Type approval label for CAN

6 Information on preparations for use

2.15.2 Label in detail

VEHICLE EMISSION CONTROL INFORMATION	
MANUFACTURER: ZHEJIANG CFMOTO-KTM2R MOTORCYCLES CO.,LTD. CHINA for KTM AG	
IMPORTER: KTM NORTH AMERICA, INC.	
ENGINE DISPLACEMENT	799 cc
ENGINE FAMILY	TKTXC0.80VKM
EVAPORATIVE FAMILY	TKTXU024VKM
PERFORMANCE FAMILY	TKTXPP102BFR
MODEL NAME 790 Adventure	
THIS VEHICLE CONFORMS WITH US EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 2020 MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO 0.8 GKM HC+NOX, 12 GKM CO EXHAUST EMISSION STANDARDS IN CALIFORNIA.	
ENGINE TUNEUP SPECIFICATIONS:	
IGNITION TIMING:	NON ADJUSTABLE
IDLE SPEED:	1400 +/- 150 RPM IN NEUTRAL
IDLE MIXTURE:	NON ADJUSTABLE
VALVE CLEARANCE:	0.10 - 0.15 mm INTAKE 0.15 - 0.20 mm EXHAUST
SPARK PLUG:	NGK LMARSAI-10
SPARK PLUG GAP:	1.00 mm
FUEL:	UNLEADED GASOLINE ONLY - 91 (R+M)2 OCTANE OR HIGHER
OIL:	SAE 10 W 50

Information on emissions control



Information on chain tension

ZHEJIANG CFMOTO-KTMR2R MOTORCYCLES CO.,LTD. CHINA for KTM AG					
KTM		MOTORCYCLE		DATE	10/23
GVWR	992 lbs	450 kg			
GAWR FRONT	386 lbs	175 kg	WITH	90/90-21 TIRE,	54V TYPE,
	2.50x21 RIM, AT	35 psi	2.4 bar COLD		
GAWR REAR	606 lbs	275 kg	WITH	150/70 R18 TIRE,	70V TYPE,
	4.50x18 RIM, AT	35 psi	2.4 bar COLD		
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURER SHOWN ABOVE.					
DUMMY*					
B06900-10					

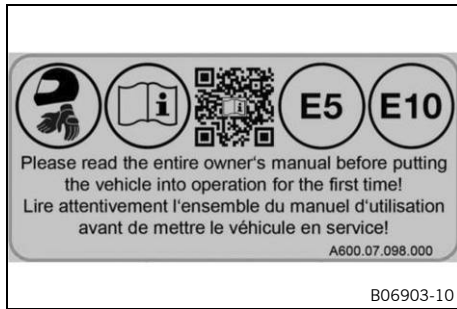
Type label for USA

MOTORCYCLE NOISE EMISSION CONTROL INFORMATION	
ZHEJIANG CFMOTO-KTMR2R MOTORCYCLES CO.,LTD. CHINA for KTM AG	
THIS 2026 KTM6460799 MOTORCYCLE, C646.05.083.033 MEETS EPA NOISE EMISSION REQUIREMENTS OF 80 dBA AT 4500 RPM BY THE FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE PROHIBITED BY U.S. FEDERAL LAW. SEE OWNER'S MANUAL.	
Motorcycle Type :	KTM 790 Adventure
B06901-10	

Information on noise emissions

MANUFACTURED BY/FABRIQUÉ PAR: ZHEJIANG CFMOTO-KTMR2R MOTORCYCLES CO.,LTD. CHINA for KTM AG					
GVPR/PNBV:		450	KG	DATE: 10/23	
V.I.N./N.I.V.:		DUMMY*			
TYPE:		MC			
GAWR/PNBE		TIRE/PNEU-DIMENSION-RIM/JANTE		COLD INFL. PRESS PRESS. DE GONFL. À FROID	
				PSI/LPC	KPA
1st	175	KG	90/90-21 2.50x21	35	240
2nd	275	KG	150/70 R18 4.50x18	35	240
THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE - CE VÉHICULE EST CONFORME À TOUTES LES NORMES QUI LUI SONT APPLICABLES ES VERTU DU RÉGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION					
					B06902-10

Type approval label for CAN



Information on preparations for use

3.1 Manufacturer's warranty, implied warranty

The work prescribed in the service schedule must only be carried out in an authorized contractual partner and confirmed in the **KTM Dealer.net**, as otherwise all warranty claims will be void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the manufacturer's warranty.

3.2 Auxiliary material, operating material

Use operating materials and auxiliary materials in accordance with the operating instructions and specifications.

3.3 Spare parts, accessories

For safety reasons, only spare parts and accessories approved by KTM may be used. They may only be installed by an authorized contractual partner. 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. Authorized contractual partners will be happy to help.

The current **KTM PowerParts** are listed for each vehicle on the KTM website.

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

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work 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 increased wear of components such as the air filter, powertrain, brake systems, or suspension components. For this reason, it may be necessary to inspect or replace components before the next scheduled service interval.

The prescribed running-in times and service intervals must be observed, otherwise the long-term durability of the vehicle will be severely impaired.

The relevant mileage or time interval is whichever occurs first.

3.5 Figures

Some of the figures in this document contain optional extras.

For clarity, some components may be shown disassembled or may not be shown at all. Disassembly is not always absolutely necessary in order to carry out the activities described. The textual information takes precedence.

3.6 Customer service

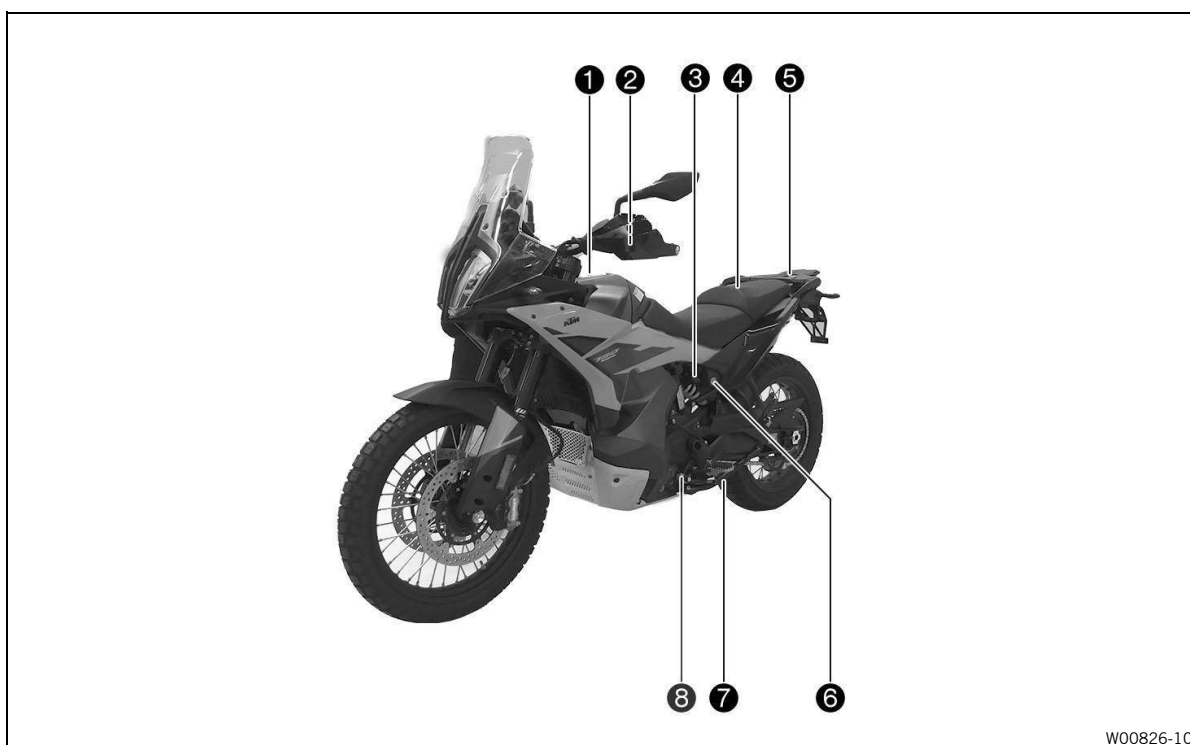
Authorized contractual partners will be happy to answer questions about the vehicle and KTM.

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

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

4 View of the vehicle

4.1 View of vehicle, front left (example)



W00826-10

- | | |
|--|--|
| ❶ Fuel tank cap | ❺ Luggage rack  (p. 33) |
| ❷ Clutch lever  (p. 22) | ❻ Seat lock  (p. 34) |
| ❸ Shock absorber, spring preload setting | ❼ Side stand  (p. 35) |
| ❹ Storage compartment under the passenger seat | ❽ Gear shift lever  (p. 34) |

4.2 View of vehicle, rear right (example)

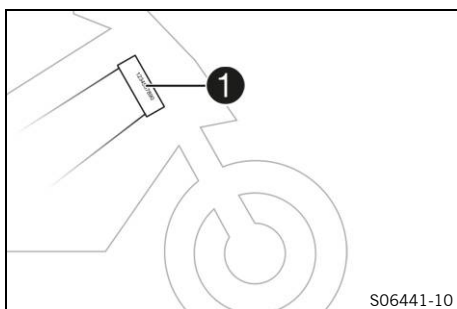


W00827-10

- | | |
|--|---|
| ① Light switch (p. 23) | ④ Start button/kill switch (p. 25) |
| ① Menu buttons (p. 24) | ④ Hazard warning flasher switch (p. 25) |
| ① Turn signal switch (p. 24) | ⑤ Throttle grip (p. 22) |
| ① Horn button (p. 24) | ⑥ Handbrake lever (p. 22) |
| ① Cruise control system tip switch (p. 23) | ⑦ Vehicle identification number (p. 20) |
| ② Fork compression damping | ⑧ Brake pedal (p. 35) |
| ③ Fork rebound damping | ⑨ Level viewer, engine oil |

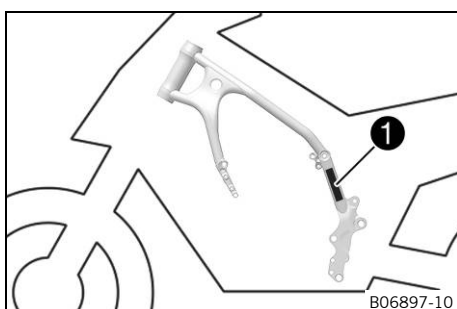
5 Serial number

5.1 Vehicle identification number



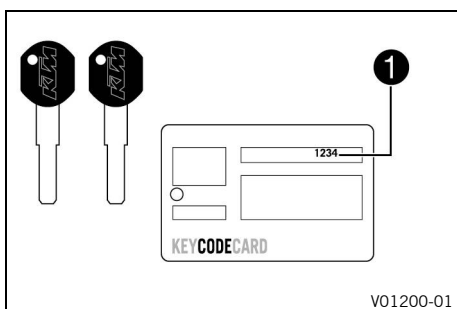
The vehicle identification number ❶ is stamped on the right-hand side of the steering head.

5.2 Type approval label



The type label ❶ is located on the frame on the left.

5.3 Key number



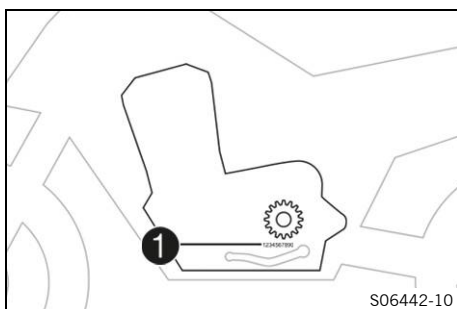
The key number ❶ can be found on the **KEYCODECARD**.



Note

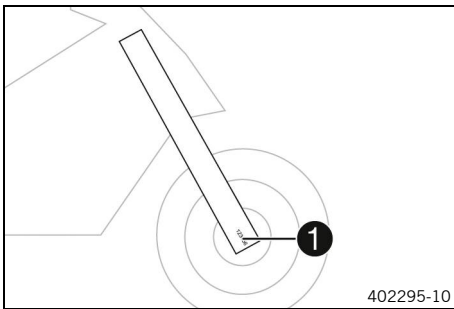
The key number is needed to order a replacement key. Keep **KEYCODECARD** in a safe place.

5.4 Engine number



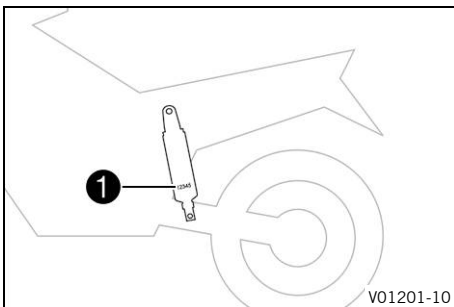
The engine number ❶ is stamped onto the engine case at the top.

5.5 Fork part number



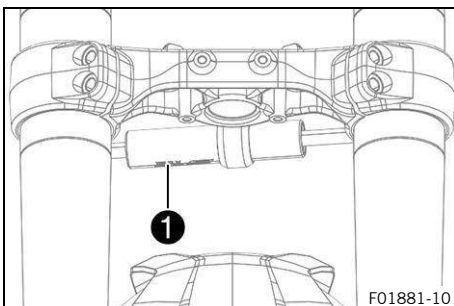
Fork part number ❶ is stamped on the inside of the fork shoe.

5.6 Shock absorber part number



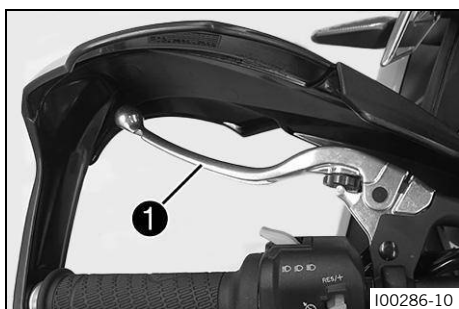
Shock absorber article number ❶ is on the left side of the shock absorber.

5.7 Steering damper article number



Steering damper article number ❶ is embossed on the underside of the steering damper.

6.1 Clutch lever



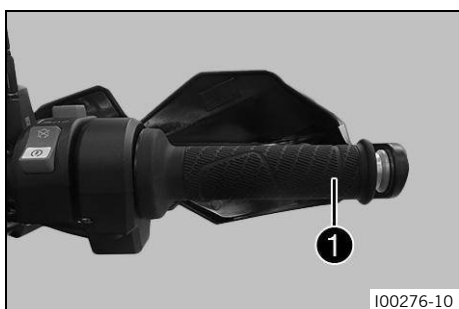
Clutch lever **1** is fitted on the left side of the handlebar.

6.2 Handbrake lever



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



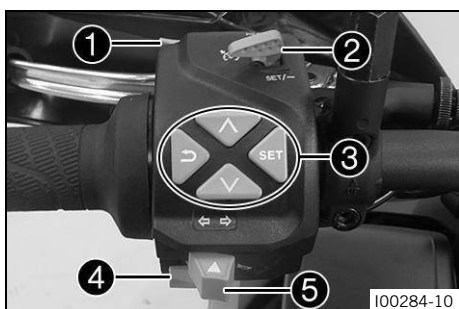
The throttle twist grip **1** is fitted on the right side of the handlebar.

6.4 Switches on the left side of the handlebar

6.4.1 Combination switch

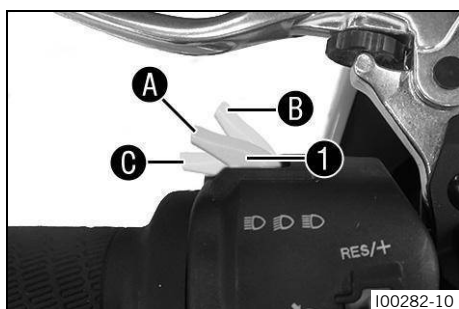
The combination switch is fitted on the left side of the handlebar.

Overview of the left combination switch



- 1** Light switch  (p. 23)
- 2** Cruise control system tip switch  (p. 23)
- 3** Menu buttons  (p. 24)
- 4** Horn button  (p. 24)
- 5** Turn signal switch  (p. 24)

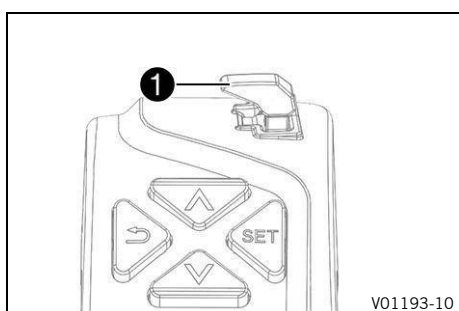
6.4.2 Light switch



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

Condition		Meaning
	Light switch in position ① A.	In this position, the low beam and the tail light are switched on.
	Light switch in position ① B.	In this position, the high beam and the tail light are switched on.
	Light switch in position ① C.	In this position, the headlight flasher (high beam) is actuated.

6.4.3 Cruise control system tip switch



The cruise control system tip switch ① is fitted on the left side of the combination switch.



Note

The cruise control system function (optional) must be activated to be able to use the cruise control system.



Note

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

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 function, push the **cruise control tip switch** [TempomatSymbol] to the left. In addition, the cruise control system function is deactivated when one of the following events occurs:

- Operating the handbrake lever
- Operating the foot brake lever
- Operating the clutch lever
- 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 cruise speed will not be reached if the engine power is not sufficient for a gradient.

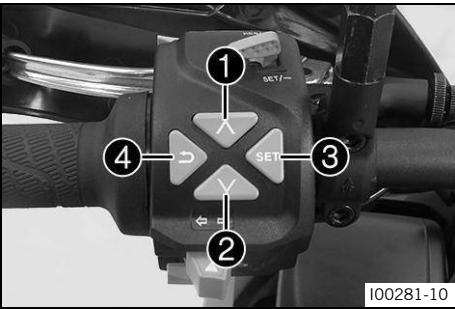
The selected target speed will be exceeded if the engine braking effect is not sufficient on an incline.

- 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 cannot be activated in first-gear.

Control range of the cruise control system	30 km/h ... 160 km/h (18.6 mph ... 99.4 mph)
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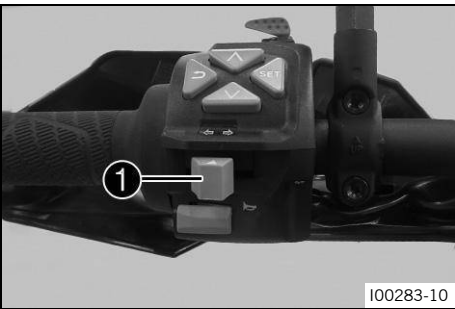
6.4.4 Menu buttons



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 ❶ is the **UP** button.
Button ❷ is the **DOWN** button.
Button ❸ is the **SET** button.
Button ❹ is the **BACK** button.

6.4.5 Turn signal switch

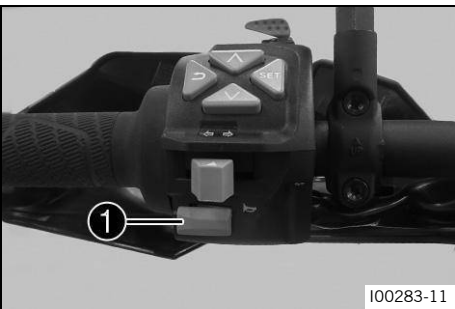


Turn signal switch ❶ is fitted on the combination switch on the left.

Condition		Meaning
	Turn signal switch pressed to the left	Left turn signal on.
	Turn signal switch pressed to the right	Right turn signal on.

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

6.4.6 Horn button



Horn button ❶ is fitted on the left side of the handlebar.

Condition	Meaning
Horn buttons in the basic position	No function
Horn buttons pressed	The horn is operated in this position

6.5 Switches on the right side of the handlebar

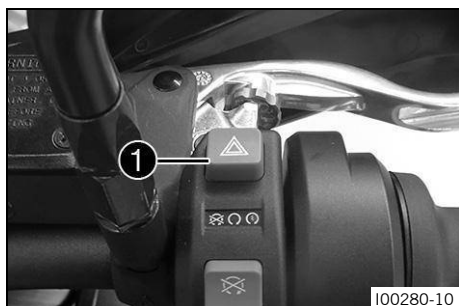
6.5.1 Start button/kill switch



The start button/kill switch ❶ is fitted on the right side of the combination switch.

Condition		Meaning
	Start button/kill switch off (upper position)	In this position, the ignition circuit is interrupted, a running engine stops, and cannot be started.
	Start button/kill 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.

6.5.2 Hazard warning flasher switch



The hazard warning flasher switch ❶ is fitted on the right side of the combination switch.

The hazard warning flasher is used to indicate emergency situations.

Condition	Meaning
Hazard warning flasher switch  in the basic position	The hazard blinker is off.
Hazard warning flasher switch  is pressed.	All four turn signals and the indicator lamp for the hazard warning flasher in the combination instrument flash.

Note

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.

6.6 Ignition and steering lock



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

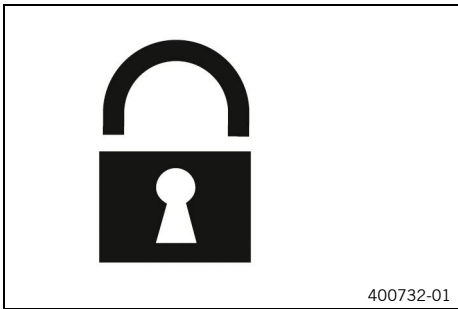
Condition		Meaning
	Ignition off	In this position, the ignition circuit is interrupted, a running engine stops, and an engine at a standstill will not start. The ignition key can be removed.
	Ignition on	In this position, the ignition circuit is closed, and the engine can be started.
	Steering locked	In this position, the ignition circuit is interrupted and the steering locked. The ignition key can be removed.

6.7 Locking the steering



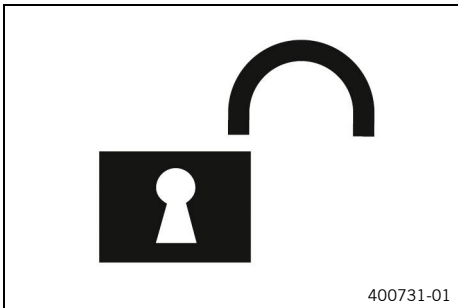
NOTE
Material damage The vehicle may be damaged if parked incorrectly. Damage can occur if the vehicle rolls away or falls over. The components for parking the vehicle are designed only for the weight of the vehicle.

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



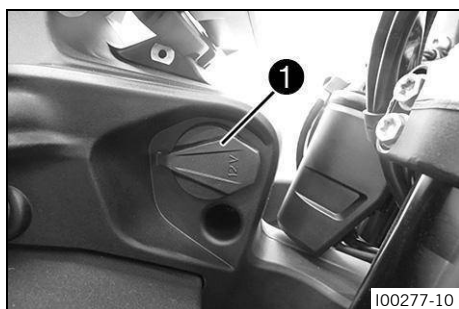
- Park the vehicle.
- Turn the handlebar all the way to the left.
- Insert the ignition key into the ignition and steering lock, press in, and turn to the left. Remove the ignition key.
- ✓ Steering is no longer possible.

6.8 Unlocking the steering



- Insert the ignition key into the ignition and steering lock, press in, and turn to the right. Remove the ignition key.
- ✓ The handlebar can now be moved again.

6.9 Socket for electrical accessories



Socket ❶ for electrical accessories is mounted on the left side of the mask support.

The socket is connected to the ignition plus and is fuse-protected.

Socket for electrical accessories	
Voltage	12 V
Maximum current output	10 A

6.10 USB-C socket



The USB-C socket ❶ for the power supply to external devices is fitted on the left-hand side of the mask support.

The USB-C socket is activated when the ignition is switched on.

USB socket	
Voltage	5 V
Maximum current consumption	2.1 A

6.11 Opening the fuel tank cap



DANGER

Fire hazard Fuel is highly flammable.

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

- Do not refuel the vehicle in the vicinity of open flames, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

Danger of poisoning Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



NOTE

Danger of damage The ignition key may break if overloaded.

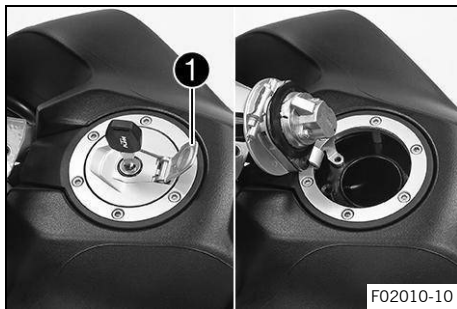
- Push down on the fuel tank filler cap to take pressure off the ignition key.



NOTE

Environmental hazard Improper handling of fuel is dangerous to the environment.

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



- Lift cover **1** of the fuel tank filler cap and insert the ignition key into the lock.

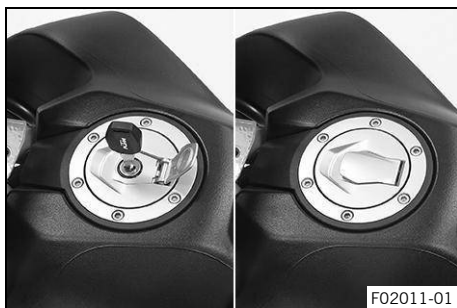


NOTE

Danger of damage The ignition key may break if overloaded.

- Push down on the fuel tank filler cap to take pressure off the ignition key.
- Turn the ignition key 90° clockwise.
- Lift the fuel tank filler cap.

6.12 Closing the fuel tank cap



- Fold down the fuel tank filler cap.
- Turn the ignition key 90° clockwise.
- Push down the fuel tank filler cap and turn the ignition key counterclockwise until the lock closes.



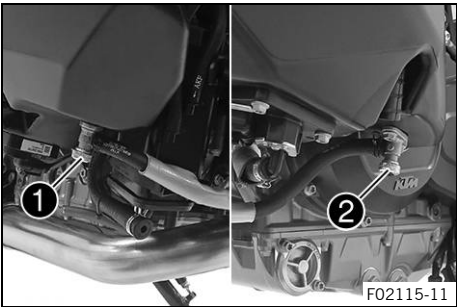
WARNING

Fire hazard Fuel is highly flammable and a health hazard.

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

- Remove the ignition key and close the cover.

6.13 Fuel petcocks



Fuel petcocks 1 and 2 are located on the side of the fuel tank.

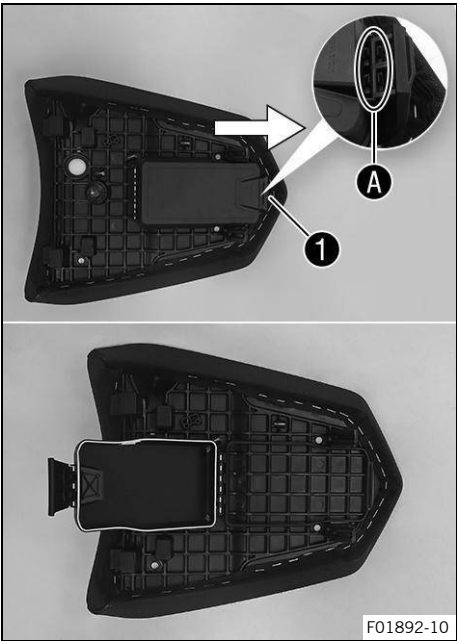
Note
The fuel cocks are located behind the fuel tank covers.
The fuel petcocks must always be open during operation.
The fuel petcocks are only closed to remove the fuel tank.

Condition	Meaning
Fuel petcocks are closed	Level equalization cannot take place and the fuel supply to the throttle valve body is shut off.
Fuel petcocks are open	Level equalization can take place and the fuel supply to the throttle valve body is open.
One fuel petcock open, one fuel petcock closed	Level equalization cannot take place and the fuel supply to the throttle valve body is open.

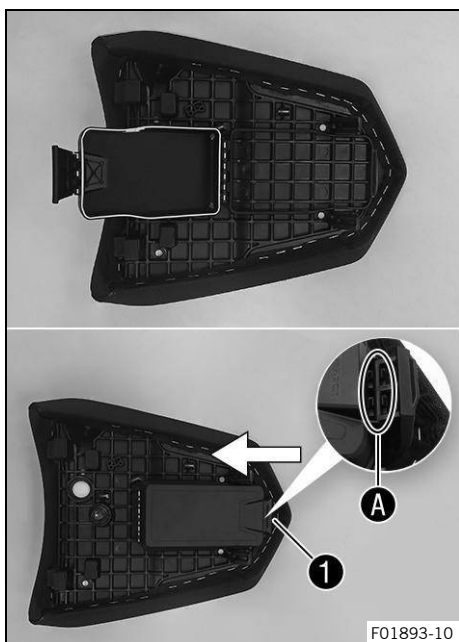
6.14 Opening the storage compartment under the passenger seat (optional)

Preparatory work
– Remove the passenger seat. (p. 96)

Main work
– Lift the lock 1 in the direction of the arrow and detach in area A.
– Open storage compartment.



6.15 Closing the storage compartment under the passenger seat (optional)



Main work

- Close storage compartment.
- Attach lock **1** in area **A** and press down in the direction of the arrow.

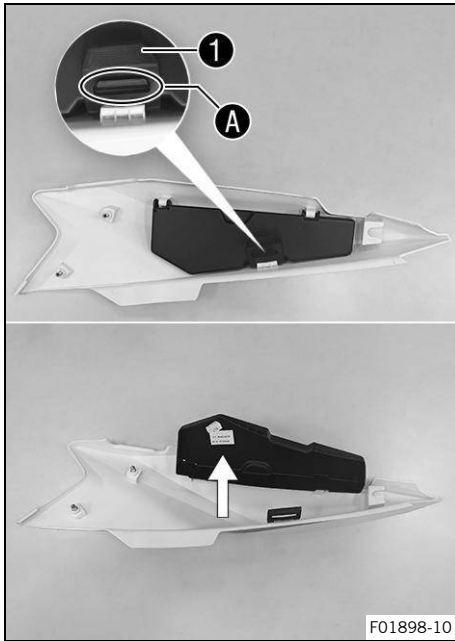
Reworking

- Mount the passenger seat. (p. 96)

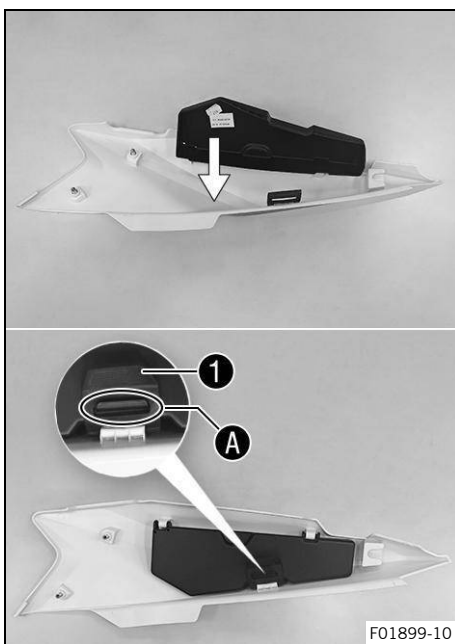
6.16 Opening the storage compartment on the left (optional)

Preparatory work

- Remove the passenger seat. (p. 96)
- Remove the front rider's seat. (p. 96)
- Remove the left side cover. (p. 102)

**Main work**

- Lift the elastic fastener ① and detach in area ①A.
- Open storage compartment.

**6.17 Closing the storage compartment on the left (optional)****Main work**

- Close storage compartment.
- Raise elastic fastener ① and hang up in area ①A.

Reworking

- Install the left side fairing 📖 (p. 103)
- Mount the front rider's seat. 📖 (p. 97)
- Mount the passenger seat. 📖 (p. 96)



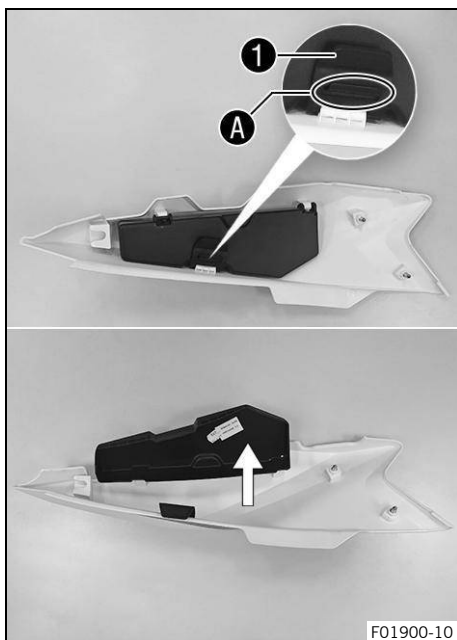
6.18 Opening the storage compartment on the right (optional)

Preparatory work

- Remove the passenger seat.  (p. 96)
- Remove the front rider's seat.  (p. 96)
- Remove the right side fairing.  (p. 103)

Main work

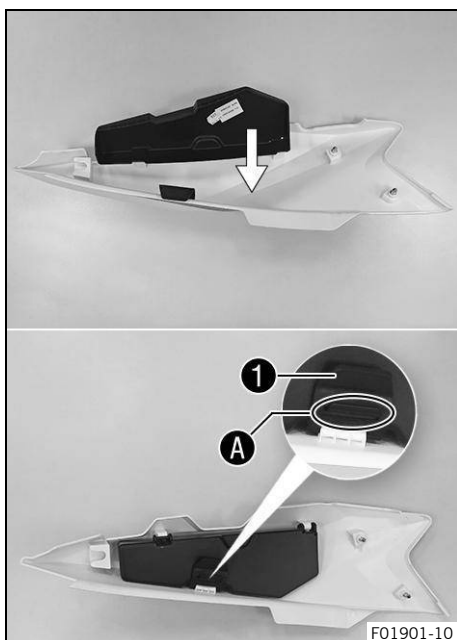
- Lift the elastic fastener **1** and detach in area **A**.
- Open storage compartment.



6.19 Closing the storage compartment on the right (optional)

Main work

- Close storage compartment.
- Raise elastic fastener **1** and hang up in area **A**.

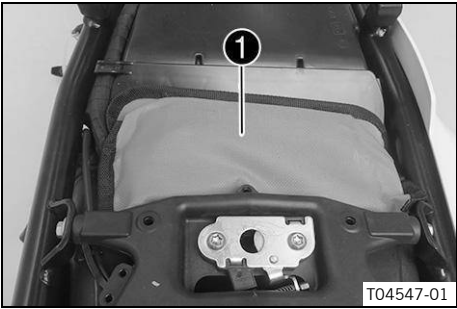


Reworking

- Install the right side cover.  (p. 104)
- Mount the front rider's seat.  (p. 97)
- Mount the passenger seat.  (p. 96)

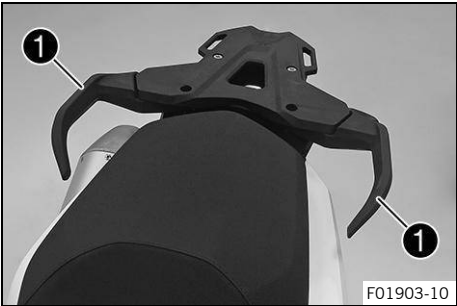


6.20On-board tool kit



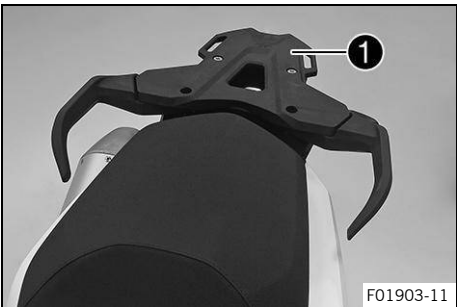
The tool set is located in the storage compartment under seat 1.

6.21Grab handles



The grab handles 1 are used for moving the motorcycle around. If you carry a passenger, the passenger can hold onto the grab handles during the trip.

6.22Luggage rack

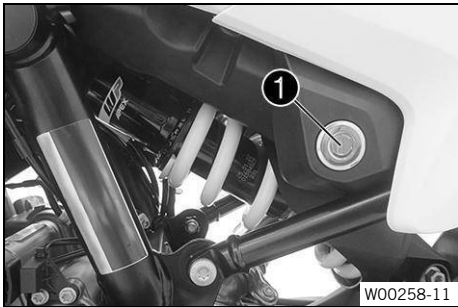


Luggage rack 1 is located behind the passenger seat. The base plate of a luggage system (optional) can be secured on the luggage rack plate. The luggage rack must not be loaded with more than the specified weight.

Maximum permissible luggage rack load	5 kg (11.0 lb)
---------------------------------------	-------------------

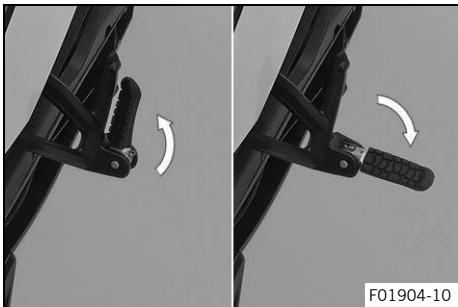
 **Note**
Follow the instructions provided by the luggage manufacturer.

6.23 Seat lock



Seat lock ❶ is located on the left side of the vehicle.
It can be unlocked using the ignition key.

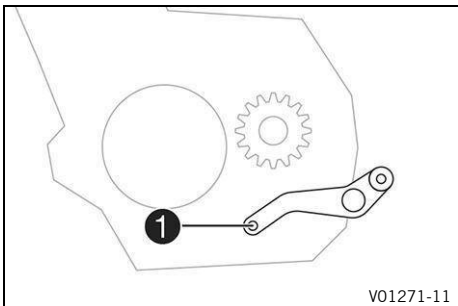
6.24 Passenger footpegs



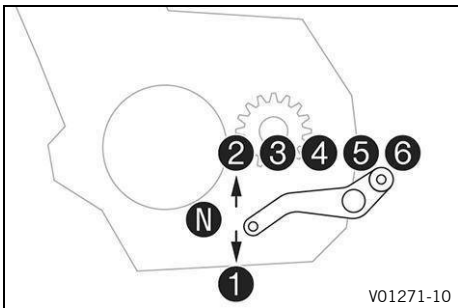
The passenger foot pegs can be folded up and down.

Condition	Meaning
Passenger foot pegs folded up	For use without a passenger
Passenger foot pegs folded down	For use with a passenger

6.25 Gear shift lever

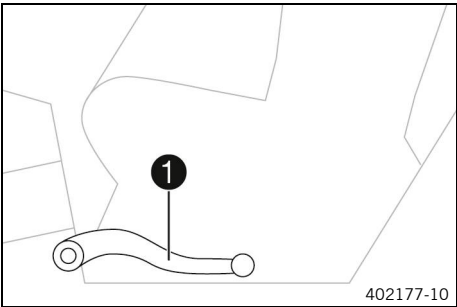


Gear shift lever ❶ is mounted on the left of the engine.



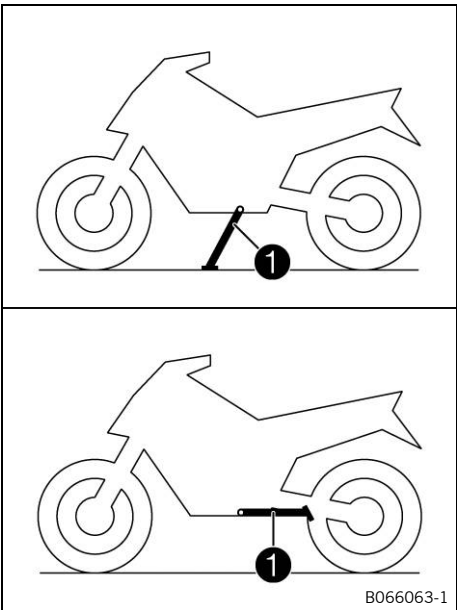
The gear positions can be seen in the figure.
The neutral or idle position is between the first and second gears.

6.26 Brake pedal



Brake pedal 1 is located in front of the right footpeg.
The rear brake is operated with the brake pedal.

6.27 Side stand



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

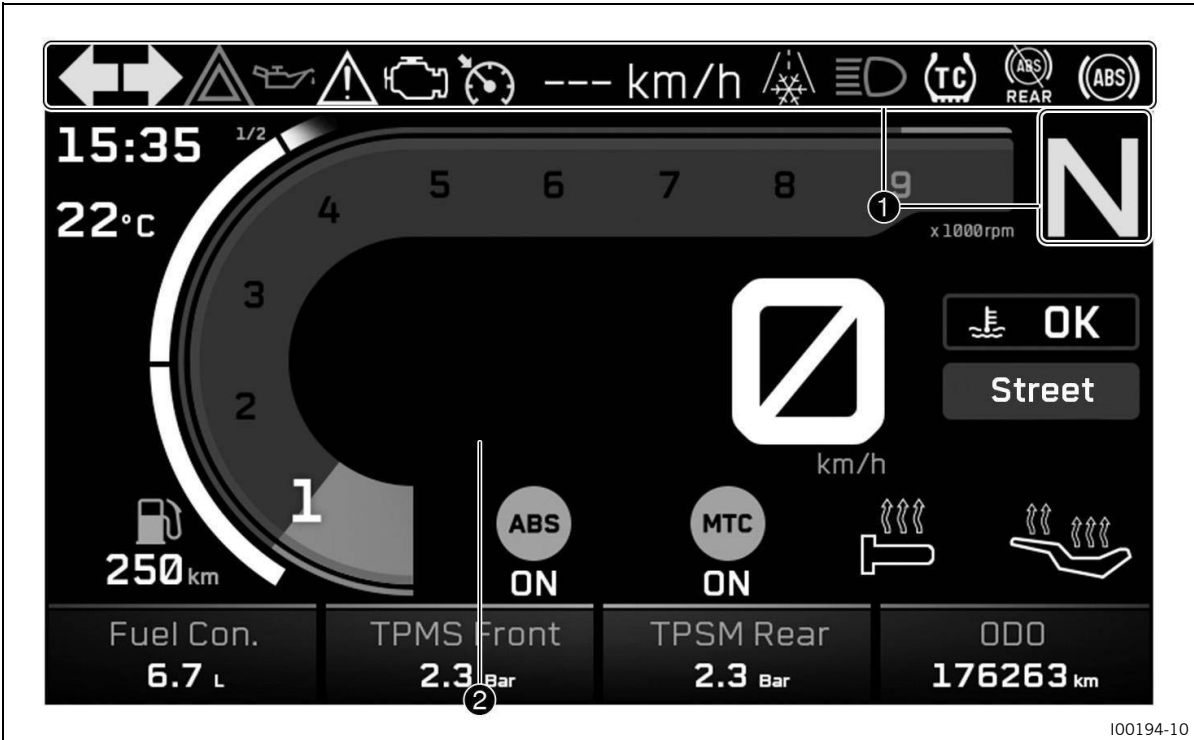
Condition	Meaning
Side stand 1 folded out	The vehicle can be supported on the side stand. The safety starting system is active.
Side stand 1 folded in	This position is mandatory when riding the motorcycle. The safety starting system is inactive.

i

Note

The side stand must be folded up during use.
The side stand is coupled with the safety starting system; follow the riding instructions.

7.1 dashboard



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

- ① indicator lamps (p. 39)
Display ②

CAUTION

Danger of burns Parts of the combination instrument become hot in certain situations. The display in particular can heat up considerably at ambient temperatures above 55 °C (131 °F) during long periods of inactivity, e.g. at traffic lights, or in direct sunlight.

- Do not touch the combination instrument with bare hands in the situations referred to.
- Where appropriate protective clothing.
- In the event of burns, rinse the area affected immediately with lukewarm water.

7.2 activation and testing

7.2.1 Activation



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

Note

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

7.2.2Test

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

Note

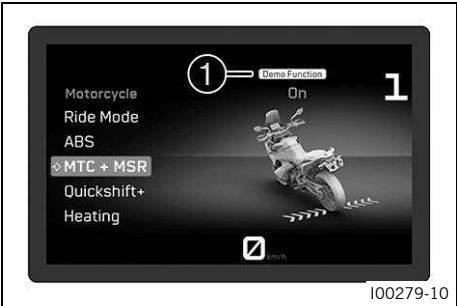
The malfunction indicator lamp always lights up as long as the engine is not running. If the engine is running and the failure indicator light lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized dealer.

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.

7.3demo mode

7.3.1Activation



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 (932.1 mi)
---	------------------------

The demo functions are shown in area ❶ of the display.

Note

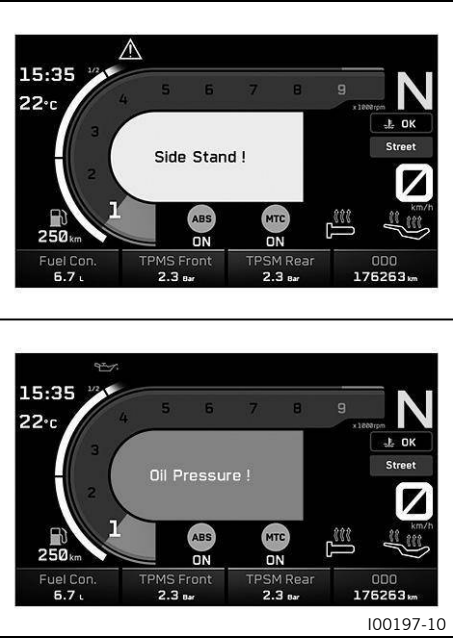
You will regularly be shown messages indicating when demo mode will be ending.

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

Functions included in demo mode

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

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.

Note
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 ice warning



The **ice warning**  goes on when there is an increased risk of ice on the roads. The **ice warning**  appears on the display when the ambient temperature drops below the specified value.

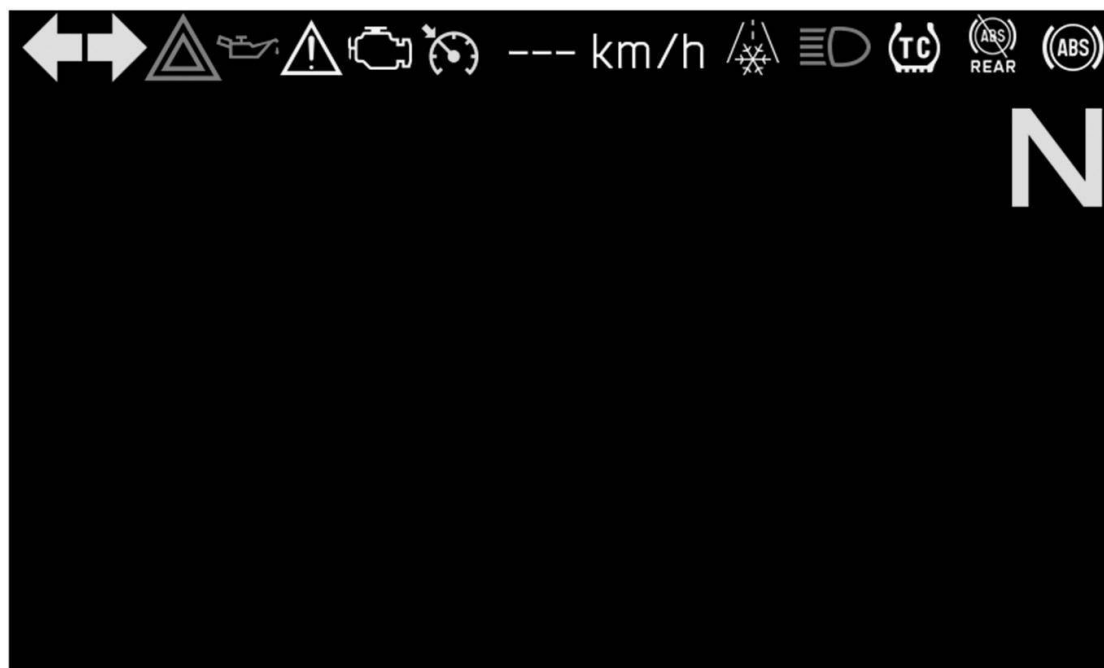
Temperature	$\leq 4\text{ }^{\circ}\text{C}$ ($\leq 39.2\text{ }^{\circ}\text{F}$)
-------------	---

The **ice warning**  goes out on the display when the ambient temperature rises above the specified value again.

Temperature	$\geq 6\text{ }^{\circ}\text{C}$ ($\geq 42.8\text{ }^{\circ}\text{F}$)
-------------	---

Note
When the **ice warning**  lights up, a text warning also appears.

7.6 indicator lamps



I00199-01

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 .

Note

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

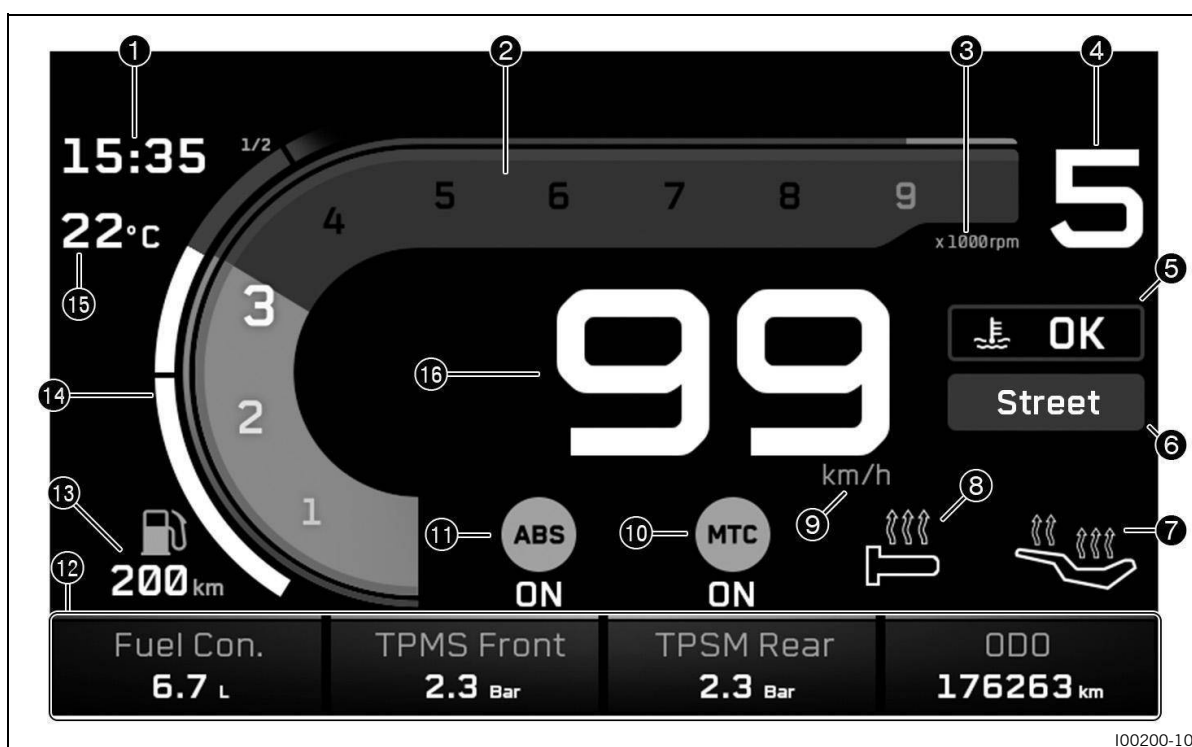
The oil pressure warning lamp  always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp  lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

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.

Condition		Meaning
	The turn signal indicator light flashes green with a steady blinking interval	The turn signal is switched on.
	The malfunction indicator light lights up yellow	The OBD has detected a malfunction in the vehicle electronics. Come safely to a halt, and contact an authorized dealer.
	ABS warning light lights up yellow	Status or error messages relating to ABS .
	The ABS rear warning light lights up yellow	ABS is deactivated on the rear wheel.

Condition		Meaning
	The idle indicator lamp lights up green	The transmission is in the neutral position.
	TC indicator lamp lights up/flashes yellow	MTC is not enabled or is currently intervening. The TC indicator lamp also lights up if a malfunction is detected. Contact an authorized contractual partner. The TC indicator lamp flashes, if MTC or MSR (optional) actively engage.
	The oil pressure warning light 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.
	General warning light lights up yellow	A note/warning note on operating safety has been detected. This is also shown in the display.
	Hazard warning flasher indicator lamps	The hazard warning flasher is switched on.
	Ice warning is active on the display.	The warning lamp lights up when there is increased risk of icy roads.

7.7 display



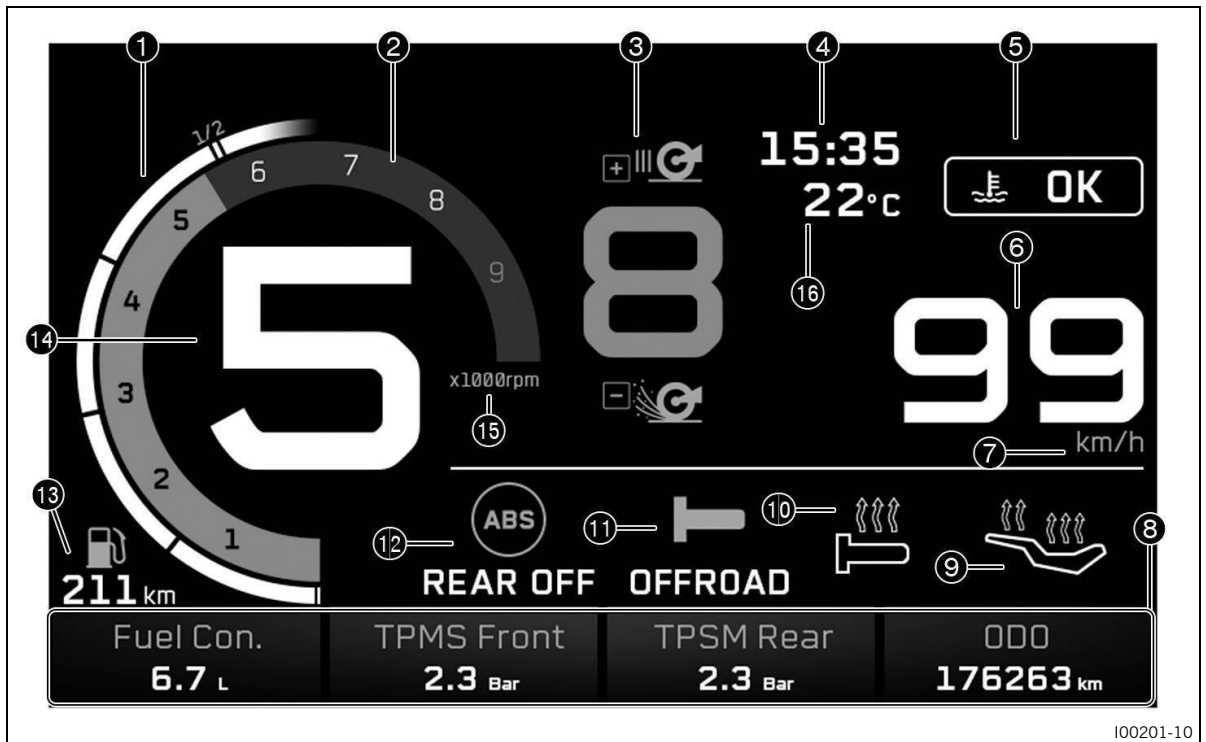
I00200-10

- | | |
|--|---|
| ① time (p. 44) | ⑧ heated grip (optional) (p. 46) |
| ② speed (p. 42) | ⑨ Unit of speed |
| ② shift light (p. 43)
The shift light is integrated in the rpm gauge display. | ⑩ MTC display (p. 45) |
| ③ Unit for the engine speed display | ⑪ ABS display (p. 45) |
| ④ Gear display | ⑫ Favorites display (p. 47) |
| ⑤ coolant temperature indicator (p. 45) | ⑬ Fuel range display |
| ⑥ Ride-Mode display (p. 44) | ⑭ fuel level display (p. 46) |
| ⑦ Front rider's seat heating (optional) (p. 46) | ⑮ ambient air temperature indicator (p. 44) |
| | ⑯ speed display (p. 43) |

7.8 Rally Display (optional)

i Note

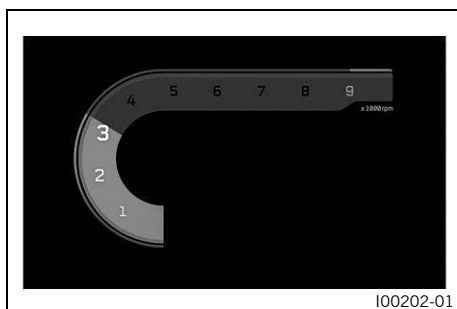
The figure shows the start screen of the combination instrument in active riding mode **Rally** (optional). If the menu is open, the speed and the selected gear are still displayed.



I00201-10

- | | |
|---|--|
| ① fuel level display (p. 46) | ⑧ Favorites display (p. 47) |
| ② speed (p. 42) | ⑨ Front rider's seat heating (optional) (p. 46) |
| ② shift light (p. 43)
The shift light is integrated in the rpm gauge display. | ⑩ heated grip (optional) (p. 46) |
| ③ slip adjustment (optional) (p. 148) | ⑪ Throttle Response (optional) (p. 148) |
| ④ time (p. 44) | ⑫ ABS display (p. 45) |
| ⑤ coolant temperature indicator (p. 45) | ⑬ Fuel range display |
| ⑥ speed display (p. 43) | ⑭ Gear display |
| ⑦ Unit of speed | ⑮ Unit for the engine speed display |
| | ⑯ ambient air temperature indicator (p. 44) |

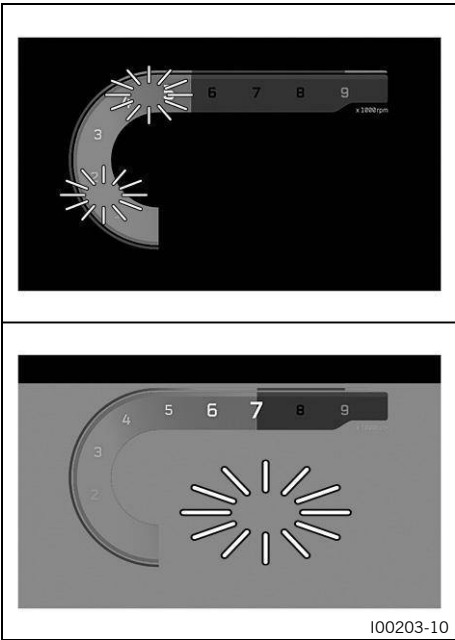
7.9 speed



I00202-01

The engine speed is displayed in revolutions per minute.

7.10shift light



The shift light is integrated in the rpm gauge display.

In the **Shift Light** submenu, the engine speed for the shift warning light can be set. During the run-in time (up to 1000 km / 621 miles), the shift light is always active. 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 red and at **RPM2**, the entire display flashes red.

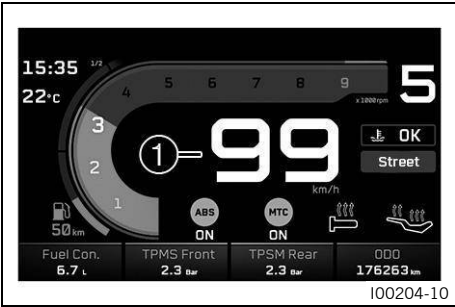
Note

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

Coolant temperature	≤ 35 °C (≤ 95.0 °F)
ODO	< 1,000 km (< 621.4 mi)
The shift warning light always flashes at	6,500 rpm (108.33 Hz)

Coolant temperature	> 35 °C (> 95.0 °F)
ODO	> 1,000 km (> 621.4 mi)
RPM1 shift warning light	flashes
RPM2 shift warning light	flashes and changes color

7.11speed display

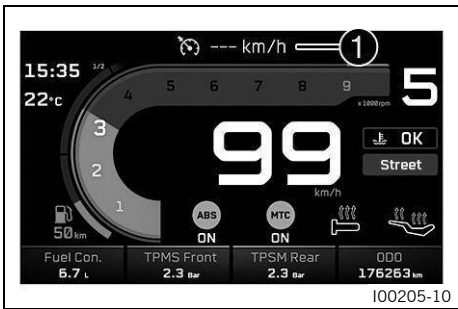


The speed is shown in area ❶ of the display.

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.

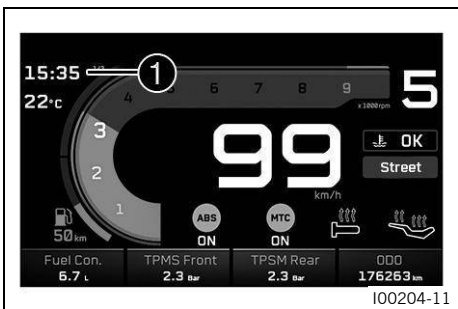
7.12 cruise control indicator (optional)



The operating state of the active cruise control is shown in the area 1 of the display.
Cruise control is operated using the [cruise control tip switch](#) (p. 23).

Note
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.

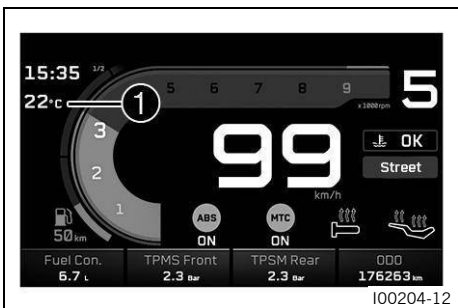
7.13 time



The time is shown in area 1 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.

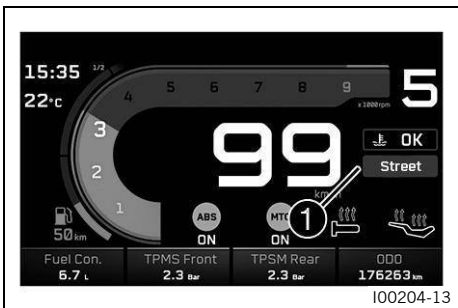
Note
The time must be reset if the 12-V battery was disconnected from the vehicle or the fuse was removed.

7.14 ambient air temperature indicator



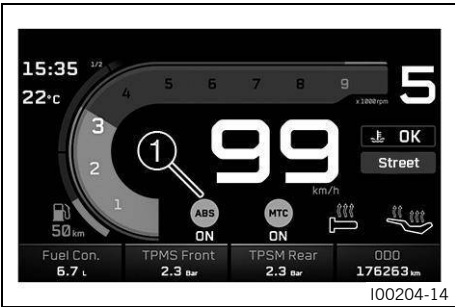
The ambient temperature is shown in area 1 of the display.
The ambient air temperature is displayed in °C or °F.
The unit of the ambient air temperature can be configured in the **Temperature** submenu.

7.15 Ride-Mode display



The **Ride Mode** (p. 147) setting is shown in area 1 of the display.
The drive mode can be configured in the **Ride Mode** submenu.

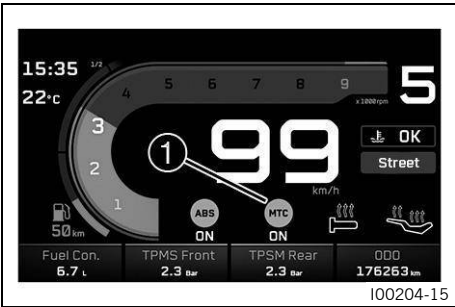
7.16 ABS display



The ABS mode setting is shown in the ❶ area of the display. When the **Ride Mode Rally** (p. 147) is activated, the ABS can be configured in the **ABS** submenu.

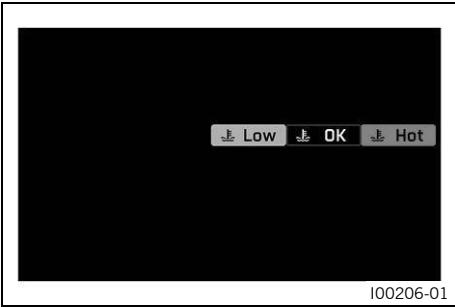
Note
When the ABS mode **Road** is active, ABS controls both wheels.
When the **Offroad** ABS mode is active, ABS only controls the front wheel. The rear wheel is not controlled by ABS and may lock during braking maneuvers.

7.17 MTC display



The ❶ area of the display indicates whether **MTC** (p. 148) is switched on or off.
The motorcycle traction control can be switched on or off in the **MTC** submenu.

7.18 coolant temperature indicator



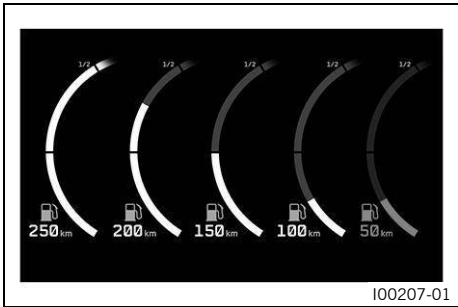
The coolant temperature is displayed by a symbol. The symbol changes between **LOW**, **OK** and **HOT** depending on the temperature.

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.

Note
If the coolant temperature indicator shows **HOT**, the indicator also starts to flash.
If the cooling system overheats, the maximum engine speed is limited.

Condition	Meaning
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 .

7.19 fuel level display

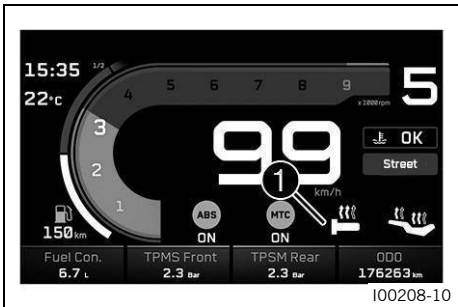


The fuel level display consists of the fuel range display and a bar. The higher the bar is filled, the more fuel is in the fuel tank

i Note

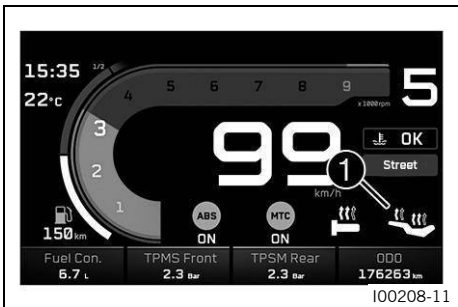
Measurement of the fuel supply only becomes active after reaching half of the fuel tank content. Up to half of the fuel tank content, the fuel level display will be shown as full. If the fuel level is getting low, the last segment flashes red and the following warning **LOW FUEL** also appears. The fuel 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 kill 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.

7.20 heated grip (optional)



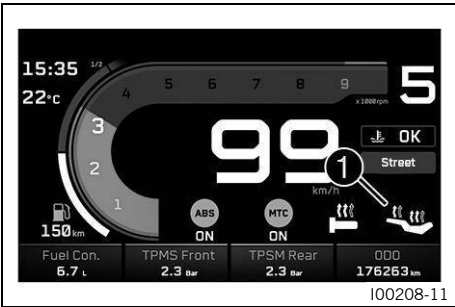
The status of the heated grip is shown in area **1** of the display. The heated grip can be configured in the **Heated Grip** menu.

7.21 Front rider's seat heating (optional)



The status of the front rider's seat heating is shown in area **1** of the display. The front rider's seat heating can be configured in the **Seat Heating Rider** submenu.

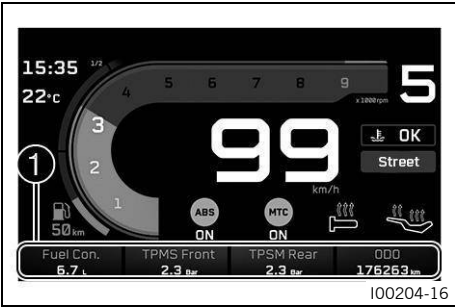
7.22 Passenger seat heating (optional)



The status of the passenger seat heating is shown in area **1** of the display.

The seat heating can be configured in the **Seat Heating Pillion** sub-menu.

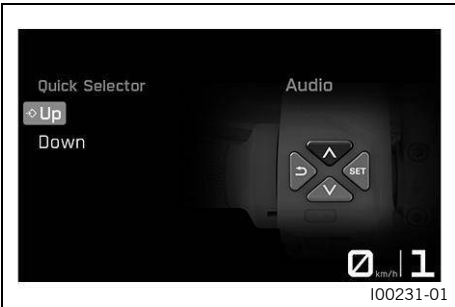
7.23 Favorites display



Up to four items of information are shown on the **Favorites** indicator.

The **Favorites** display can be freely configured in the **Favorites** sub-menu.

7.24 Quick Selector 1 display



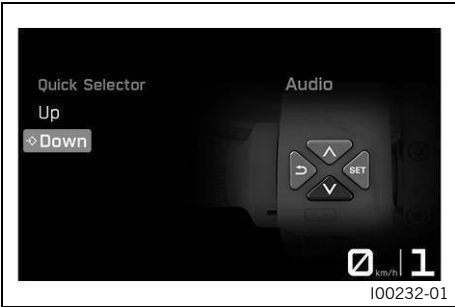
When the menu is closed, the **Quick Selector 1** display is opened by pressing the **UP** button.

Press the **BACK** button to close the **Quick Selector 1** display.

Note

The **Quick Selector 1** display can be configured in the **Settings** menu under **Quick Selector 1**. Any information can be selected.

7.25 Quick Selector 2 display



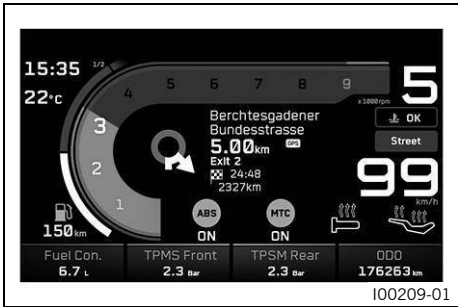
When the menu is closed, the **Quick Selector 2** display is opened by pressing the **DOWN** button.

Press the **BACK** button to close the **Quick Selector 2** display.

Note

The **Quick Selector 2** display can be configured in the **Settings** menu under **Quick Selector 2**. Any information can be selected.

7.26 Navigation display

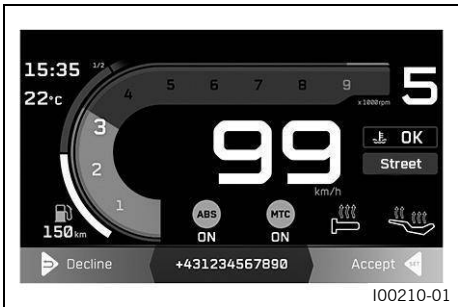


The **Navigation** indicator appears when the navigation function is activated.

Display **Navigation** shows the direction arrow, the distance to the destination, the estimated time of arrival of the cell phone, the distance to the next waypoint and the street name.

The **Navigation** display can be switched on or off in the **Navigation** submenu.

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 **SET** button to accept an incoming call.

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

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

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

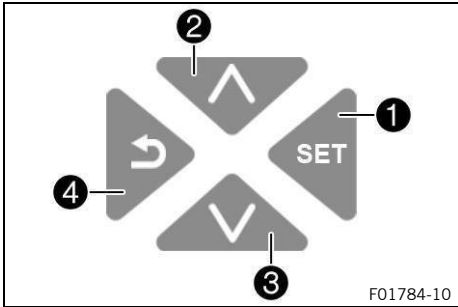
Note

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

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

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

7.28 Menu



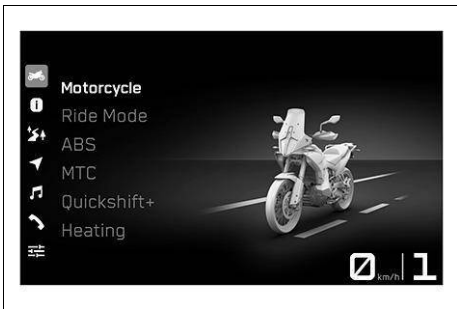
Note

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

Navigate through the menu using the **UP** button **2** or the **DOWN** button **3**.

By pressing the **BACK** button **4**, the menu structure jumps one step back, or the menu is closed.

7.28.1 Motorcycle



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

In **Motorcycle**, you can set the riding mode, ABS mode, traction control, engine traction torque control, QUICKSHIFTER+, seat heating, and the heated grip.

When riding mode **Rally** (optional) is activated, the characteristics of the throttle response, the slip on the rear wheel and the **ABS** can also be configured.

7.28.2 Ride Mode



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



WARNING

Danger of accidents An incorrectly selected ride mode makes it more difficult to control the vehicle.

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.

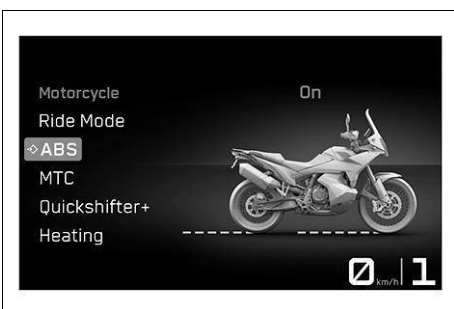
- Press the **UP** or **DOWN** button until **Ride Mode** is highlighted. Pressing the **SET** button opens the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to select the riding mode, which changes coordinated settings for the engine and motorcycle traction control.

Only use riding modes Street and Rain on asphalt.
Only use riding modes Offroad and Rally (optional) on unpaved roads.

- ✓ **Street** - Homologated performance with balanced response; the Motorcycle Traction Control allows normal slip on the rear wheel. ABS regulates both wheels.
- ✓ **Rain** - Reduced homologated performance with soft response for improved rideability on surfaces with low road grip; the motorcycle traction control allows very little slip on the rear wheel. ABS regulates both wheels.
- ✓ **Offroad**- Reduced homologated performance for better rideability on unpaved roads; the motorcycle traction control allows high slip on the rear wheel. ABS only controls the front wheel.
- ✓ **Rally** (optional) - Setting with homologated performance and extremely direct response. The motorcycle traction control and the characteristics of the throttle response can be set individually. ABS can be configured separately.

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

7.28.3 ABS



Condition: Model with **RALLY PACK**, Ride mode **Rally** (optional) is activated

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

**WARNING**

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

The ABS modes are each only suitable for certain conditions.

- Always select an ABS mode that suits the ground and the riding situation.

- Press the **SET** button to select the desired ABS mode.

**Note**

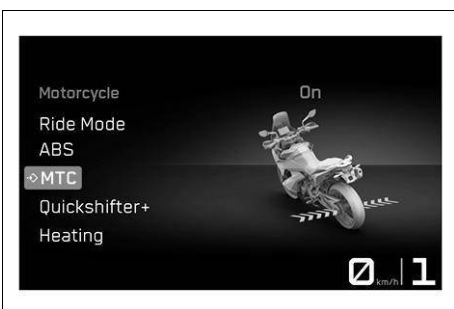
The ABS mode can be switched during the journey.

Do not open the throttle during the selection.

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

When the **Offroad** 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.

7.28.4 MTC



Condition: Cruise control function (optional) deactivated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **MTC** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Switch **SET** on or off by pressing the **MTC** button.

**Note**

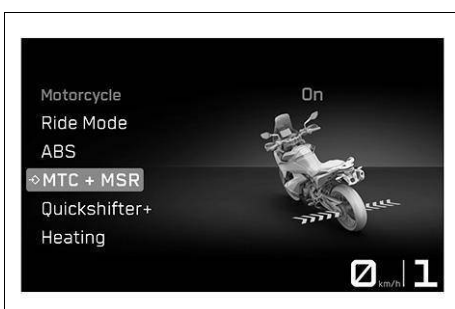
Do not open the throttle when switching on or off.

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.

7.28.5 MTC+MSR (optional)



Condition: Model with **MTC+MSR**, Cruise control function (optional) deactivated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **MTC+MSR** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Switch **SET** on or off by pressing the **MTC+MSR** button.



Note

Do not open the throttle when switching on or off.

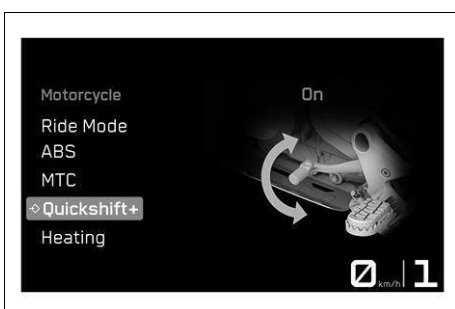
Press the **SET** button briefly when activating the motorcycle traction control and the engine traction torque control.

Hold down the **SET** button when switching off the motorcycle traction control and engine traction torque control.

When ABS mode **Offroad** 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.

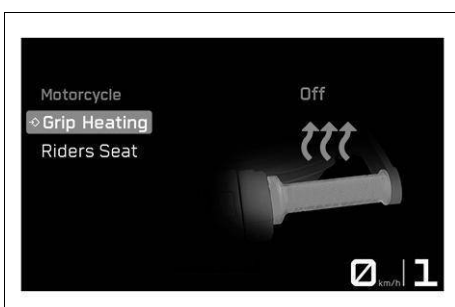
7.28.6 Quickshift+ (optional)



Condition: Model with QUICKSHIFTER+

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Quickshift+** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch QUICKSHIFTER+ (p. 82) button on or off.

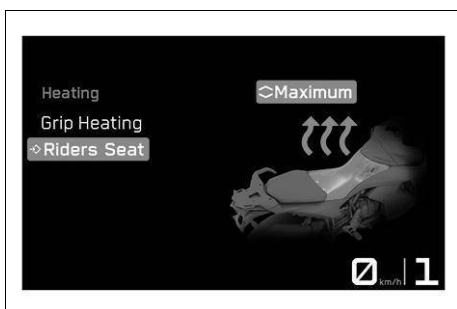
7.28.7 Grip Heating (function optional)



Condition: Model with grip heater, Menu **Heated Grip** (optional function) activated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Heating** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Grip Heating** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to select the heating level or to switch the heated grip on or off.

7.28.8 Riders Seat (function optional)



Condition: Model with seat heating, Menu **Seat Heating Rider** (optional function) activated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Heating** is highlighted. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Riders Seat** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to select the heating level or to switch the front rider's seat heating on or off.

i Note

The heating level for the passenger seat heating is selected using the switch next to the right grab handle.

7.28.9 Throttle Response (optional)



Condition: Model with **RALLY PACK**, Ride mode **Rally** (optional) is activated

- Press the **SET** button when the menu is closed.



WARNING

Danger of accidents An incorrectly selected ride mode makes it more difficult to control the vehicle.

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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Throttle Response** is marked on the display. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- The characteristic map of the throttle response can be adjusted by pressing the **SET** button.
 - ✓ Street – balanced response.
 - ✓ Rally – extremely direct response.
 - ✓ Offroad – very direct response.

i Note

Do not open the throttle when adjusting the throttle response.

7.28.10 Slip Adjuster (optional)



Condition: Ride mode **Rally** (optional) is activated, **MTC+MSR** is activated

- Press the **SET** button when the menu is closed.

**WARNING**
Danger of accidents An incorrectly selected ride mode makes it more difficult to control the vehicle.
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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Slip Adjuster** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to set the maximum permitted slip for the motorcycle traction control.

**Note**
Do not open the throttle during the selection.

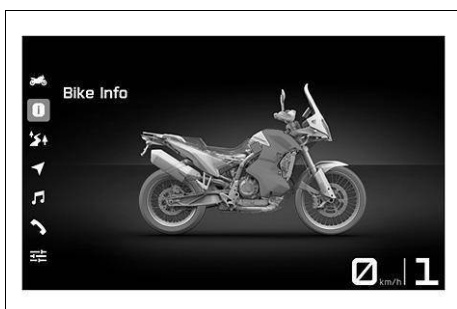
The spin adjuster is a motorcycle traction control function. The slip adjustment allows the motorcycle traction control to be tuned through nine levels to the desired characteristic map. Level 0 allows maximum slip on the rear wheel, and level 9 allows the minimum.

If the cruise control function is deactivated, the **UP** and **DOWN** buttons in the main display or in the **Slip Adjuster** menu can be used to adjust the **Slip Adjuster**.

**Note**
The slip adjustment is only available in **Rally** riding mode (optional).
The spin adjuster is only available when motorcycle traction control is activated.

– DOWN Press and hold button for approximately 2 seconds.	Slip adjustment level 0 is activated.
---	---------------------------------------

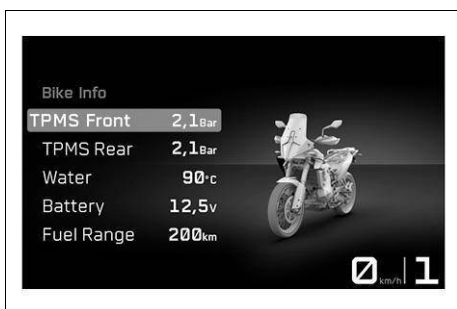
7.28.11 Bike info



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

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

7.28.12 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.

Tire Pressure (optional) shows the current tire pressure of the front and rear tire.

Water displays the coolant temperature.

Fuel Range indicates the possible fuel range you can cover with the fuel reserve.

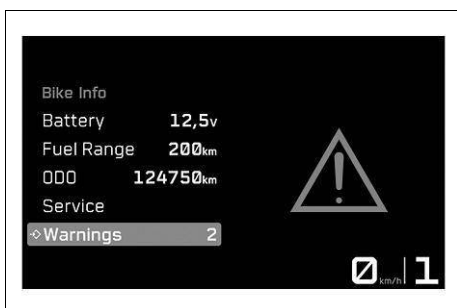
Battery displays the battery voltage.

Odometer displays the total mileage.

Service displays when the next service is due.

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

7.28.13 Warning



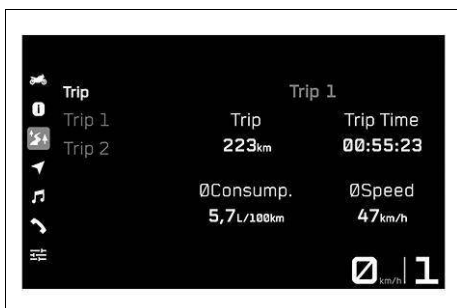
Condition: Message or warning is present

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

**Note**

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

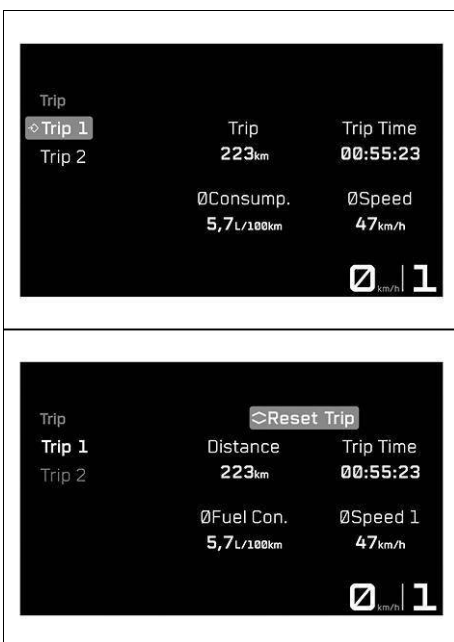
7.28.14 Trip info



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

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

7.28.15 Trip 1



- 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.
- Press the **UP** or **DOWN** button until **Trip 1** is highlighted. Press the **SET** button to open the submenu.

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



Note

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

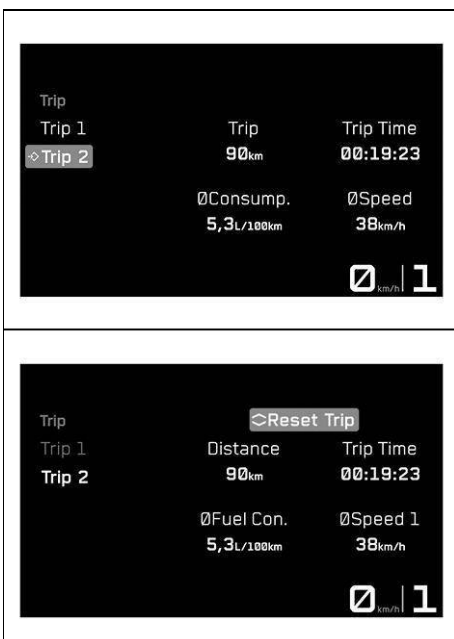
Trip Time shows the riding time on the basis of **Trip** and runs as soon as a speed signal is received.

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.

7.28.16 Trip 2



- 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.
- Press the **UP** or **DOWN** button until **Trip 2** is highlighted. Press the **SET** button to open the submenu.

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



Note

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

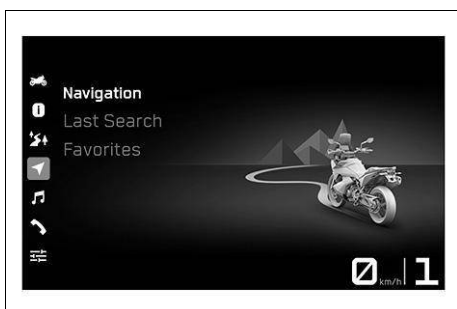
Trip Time shows the riding time on the basis of **Trip** and runs as soon as a speed signal is received.

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.

7.28.17 Navigation (optional)



Condition: Function **Bluetooth®** activated, **KTMconnect** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 13), The dashboard is connected to a suitable cell phone, GPS function is activated on the connected cell phone, For voice navigation: The dashboard 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 **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.

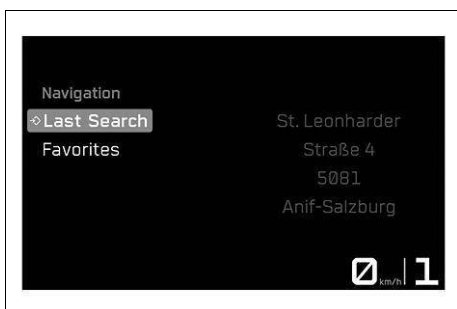
Press the **SET** button to switch the visual navigation on or off.

i Note

Voice navigation remains switched on if it has been activated.

The volume of the activated voice navigation is identical to the volume of the audio player on the cell phone. If the volume on the cell phone is changed, the volume of the activated voice navigation also changes.

7.28.18 Last search (optional)



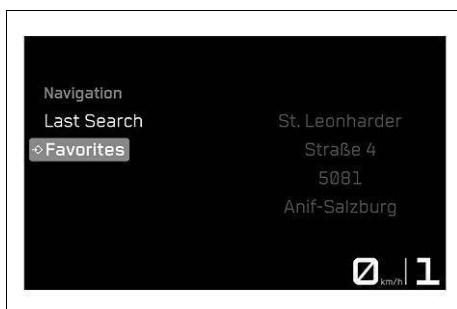
Condition: Function **Bluetooth®** activated, **KTMconnect** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 13), The dashboard is connected to a suitable cell phone, GPS function is activated on the connected cell phone

- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press **UP** or **DOWN** button until **Last search** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button to select an address.
- Press the **SET** button to confirm the selection and start navigation.

i Note

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

7.28.19 Favorites (optional)



Condition: Function **Bluetooth®** activated, **KTMconnect** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 13), The dashboard is connected to a suitable cell phone, GPS function is activated on the connected cell phone, Favorites are saved in the **KTMconnect** app (optional)

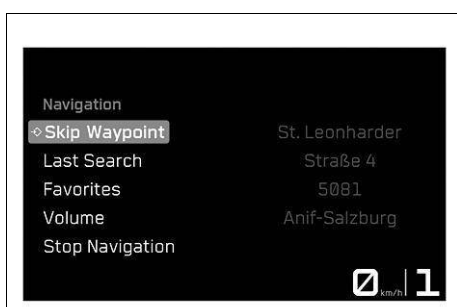
- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button to select an address.
- Press the **SET** button to confirm the selection and start navigation.



Note

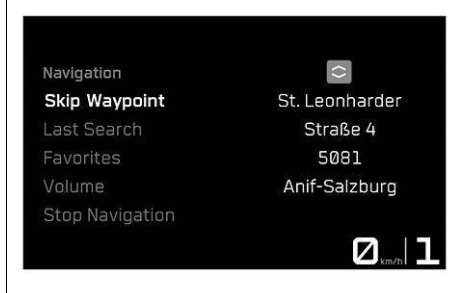
10 addresses in the **Favorites** app (optional) can be stored in **KTMconnect**.

7.28.20 Skip Waypoint (optional)



Condition: Function **Bluetooth®** activated, **KTMconnect** app (optional) is installed and opened on a suitable cell phone, The dashboard is connected to a suitable cell phone, GPS function is activated on the connected cell 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 **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press **UP** or **DOWN** button until **Skip Waypoint** is highlighted. Press **SET** to select the waypoint.
- Press the **SET** button again to confirm the selection and the waypoint is removed.



7.28.21 Volume (optional)



Condition: **KTMconnect** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 13), Dashboard is connected to a suitable cell phone, For voice navigation: The dashboard 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 **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.



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 **UP** or **DOWN** button until **Volume** is highlighted. 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.

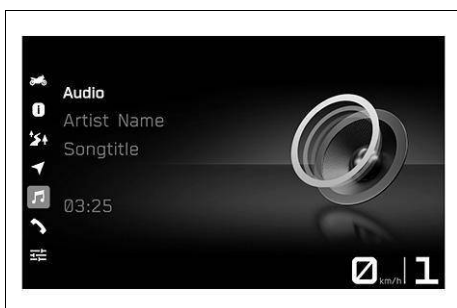
7.28.22 Stop Navigation (optional)



Condition: Function **Bluetooth®** activated, **KTMconnect** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 13), Dashboard is connected to a suitable cell phone

- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Navigation** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press **UP** or **DOWN** button until **Stop Navigation** is highlighted. Press the **SET** button to confirm the selection.
- Press the **SET** button again to confirm the selection and end navigation.

7.28.23 audio



Condition: Function **Bluetooth®** activated, The dashboard is connected to a suitable cell phone., The dashboard is connected to a suitable communication system or the **Headset Type Corded** 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 and hold **UP** button to increase the audio volume.
- Press and hold **DOWN** button to reduce the audio volume.
- Press **UP** button briefly to change to the next audio track.
- Briefly pressing the **DOWN** button once or twice replays the current audio track from the start or changes to the previous audio track, depending on the cell phone model.
- Press **SET** button to play or pause the audio track.



Note

With some cell phones, the cell phone audio player needs to be started before playback is possible.

The audio function can be added to **Quick Selector 1** or **Quick Selector 2** for easier operation.

7.28.24 call



Condition: Function **Bluetooth®** activated, Function **Bluetooth®** also activated on the device that is to be paired, Dashboard is connected to a suitable cell phone, Dashboard is connected to a suitable communication system



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 to accept an incoming call.
- Press the **BACK** 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.



Note

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

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

If necessary, accessing contacts must be enabled on the cell phone.

An incoming call is shown in a small window at the top of the combination instrument display when the navigation function is active.

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

7.28.25 Call out



Condition: Function **Bluetooth®** activated, Dashboard is connected to a suitable cell phone, Dashboard is connected to a suitable communication system

- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Call** appears. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Last Calls** or **Favourites** is marked. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the desired person is marked.
- Press the **SET** button.
- ✓ The selected person is called.

Note

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

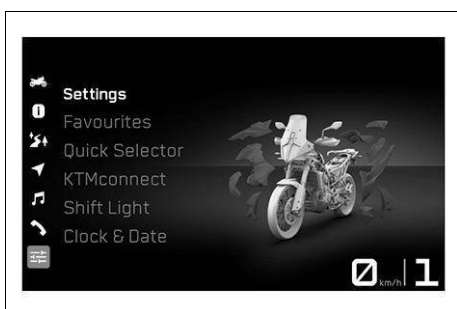
The call duration and contact are displayed. Depending on the cell phone settings, the contact is shown by name.

Accessing contacts must be enabled on the cell phone.

An incoming call is shown in a small window at the top of the combination instrument display when the navigation function is active.

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

7.28.26 Settings

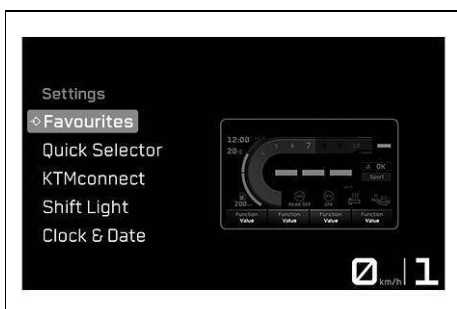


Condition: Motorcycle is stationary

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Pressing the **SET** button opens the menu.

In the **Settings** menu, favorites, quick selections, **KTMconnect** (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.

7.28.27 favorites

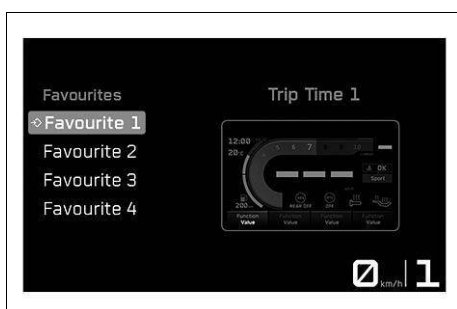


Condition: Motorcycle is stationary

- 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 menu item with the **UP** or **DOWN** button, and add the selected information to the **SET** display using the **Favorites** button.

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

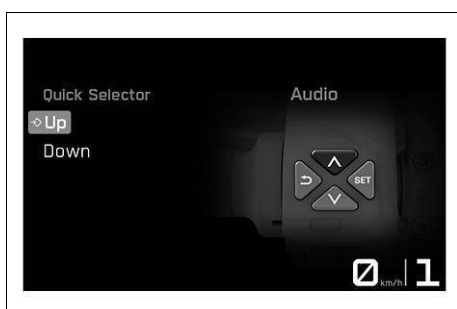
7.28.28 Favorites—display 1–4



Condition: 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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button to select **Favorite 1**, **Favorite 2**, **Favorite 3**, or **Favorite 4**. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to select the desired information. Press the **SET** button to confirm the selection.

7.28.29 Quick Selector 1



Condition: Motorcycle is stationary

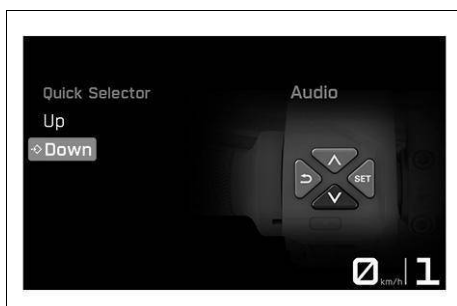
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Quick Selector 1** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to set a direct selection submenu for **Quick Selector 1**.



Note

When the menu is closed, the submenu defined in **UP** is opened by pressing the **Quick Selector 1** button.

7.28.30 Quick selector 2



Condition: Motorcycle is stationary

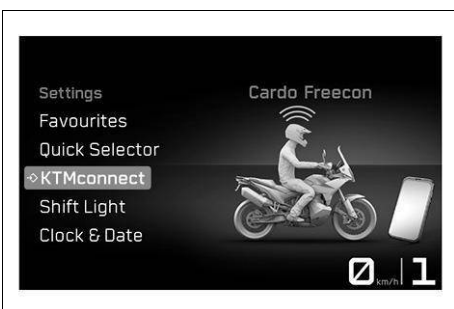
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Quick Selector 2** is highlighted. Press the **SET** button to open the menu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to set a direct selection submenu for **Quick Selector 2**.



Note

When the menu is closed, the submenu defined in **DOWN** is opened by pressing the **Quick Selector 2** button.

7.28.31 KTMconnect (optional)



Condition: Motorcycle is stationary, Function **Bluetooth®** activated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **KTMconnect** (optional) is marked. Pressing the **SET** button opens the menu.

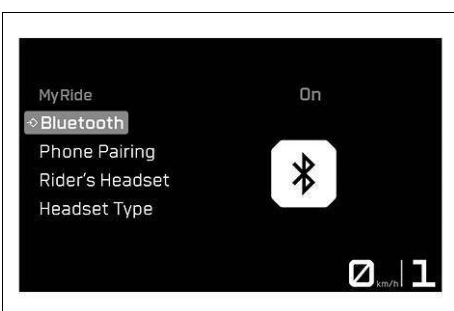
A suitable cell phone or communication system can be paired with the dashboard via **Bluetooth®** in menu **KTMconnect** (optional) and the audio function and navigation function can be configured.

i **Note**

Not every cell phone and communication system is suitable for pairing with the dashboard.

The standard **Bluetooth®** 2.1 must be supported.

7.28.32 Bluetooth



Condition: Motorcycle is stationary

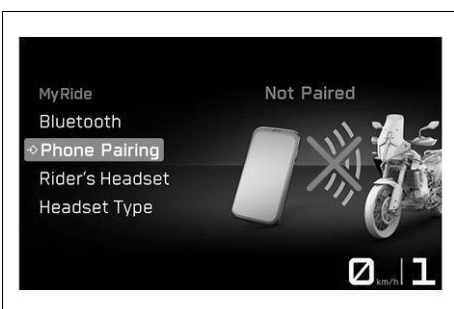
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **KTMconnect** (optional) is marked. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Bluetooth** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the **Bluetooth®** function on or off.

i **Note**

The function **Bluetooth®** must be activated to pair a suitable cell phone or communication system with the vehicle.

Not every cell phone and communication system is suitable for pairing with the dashboard.

7.28.33 Phone Pairing



Condition: Motorcycle is stationary, Function **Bluetooth®** activated, Function **Bluetooth®** also activated on the device that is to be paired

- 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 **KTMconnect** (optional) is marked. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Phone Pairing** is highlighted. Press the **SET** button to open the submenu.

i **Note**

Only one cell phone can be paired with the vehicle at a time.

- Press the **UP** or **DOWN** button until **New Pairing** is marked. Pressing the **SET** button opens the menu.

- The vehicle starts the search for a suitable cell phone. If the search is successful, the name of the cell phone is displayed in menu **New Pairing**. Press the **SET** button to start the pairing.



Note

The cell phone must be visible via **Bluetooth®** in order for the cell phone to be found by the vehicle.

Not every cell phone 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 successfully completed by confirming the **Passkey** on the cell phone and on the dashboard.
- 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.

In submenu **Phone Pairing**, a suitable cell phone can be paired with the dashboard via **Bluetooth®**.

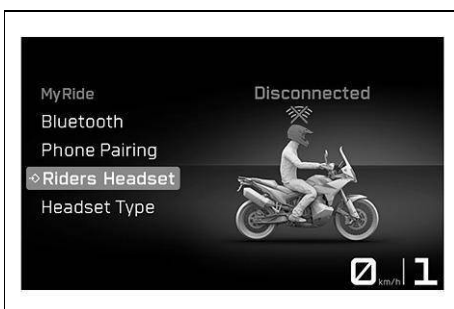


Note

Not every cell phone and communication system is suitable for pairing with the dashboard.

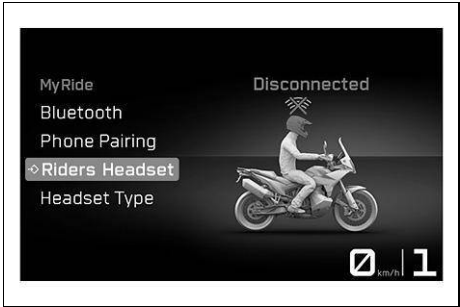
Make sure the end device is in the correct pairing mode for call management. If the end device is only paired for media playback, the call function may not work.

7.28.34 Riders Headset (optional)



Condition: Motorcycle is stationary, Function **Bluetooth®** activated, Function **Bluetooth®** also activated on the device that is to be paired

- 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 **KTMconnect** (optional) is marked. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Riders Headset** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **New Pairing** is marked. Pressing the **SET** button opens the menu.
- The vehicle starts searching for a suitable communication system. If the search was successful, the name of the rider's audio device is displayed in the **New Pairing** submenu. Press the **SET** button to start the pairing.



Note

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.

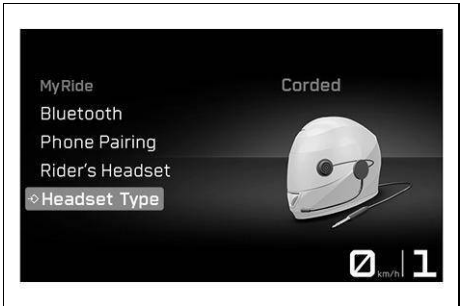
Press the **UP** or **DOWN** button until **Delete Pairing** is highlighted. The paired device can be deleted by pressing the **SET** button.

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.

7.28.35 Headset Type (optional)



- Condition: 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 **KTMconnect** (optional) is marked. Pressing the **SET** button opens the menu.
 - Press the **UP** or **DOWN** button until **Headset Type** is highlighted. Press the **SET** button to change the rider audio device type.

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

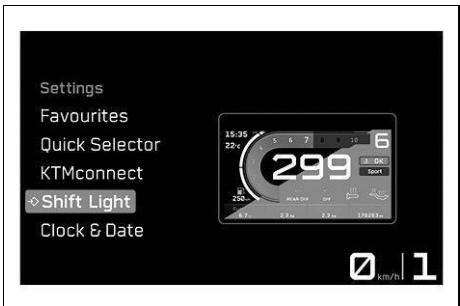
The communication system is connected to the vehicle wirelessly via **Bluetooth Headset** in **Bluetooth®** mode.

The communication system is connected directly to the smartphone in **Corded Headset** mode.

Note

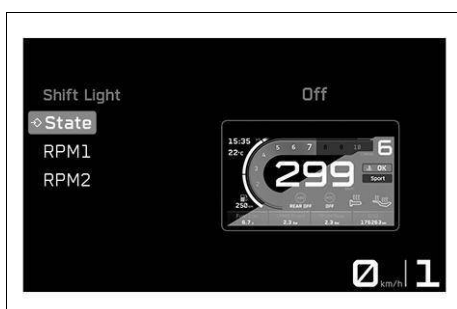
The **Riders Headset** menu item is only available in **Headset Type Bluetooth**.

7.28.36 Shift Light



- Condition: Motorcycle is stationary, **ODO** > 1,000 km (621 miles)
- 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 **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- The shift warning light can be configured in the **Shift Light** submenu.

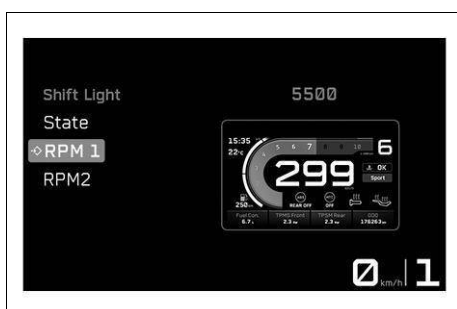
7.28.37 Shift light state



Condition: Motorcycle is stationary, **ODO** > 1,000 km (621 miles)

- 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 **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the shift warning light on or off.

7.28.38 RPM1



Condition: Motorcycle is stationary, **ODO** > 1,000 km (621 miles)

- 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 **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.
- Activate the menu item using the **UP** or **DOWN** button.
- Set the value for **SET** by pressing the **RPM1** button.



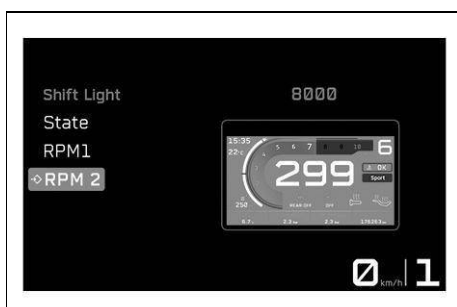
Note

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 shift warning light flashes.

7.28.39 RPM2



Condition: Motorcycle is stationary, **ODO** > 1,000 km (621 miles)

- 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 **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.
- Activate the menu item using the **UP** or **DOWN** button.
- Set the value for **SET** by pressing the **RPM2** button.



Note

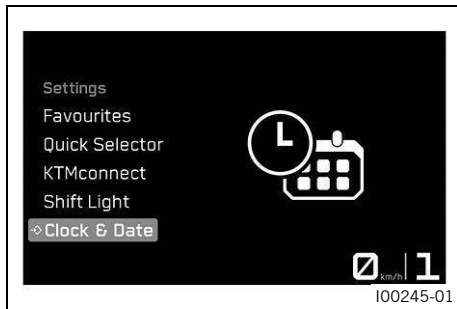
RPM2 can be set in intervals of 500 between 7,000 and 10,000 rpm.

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

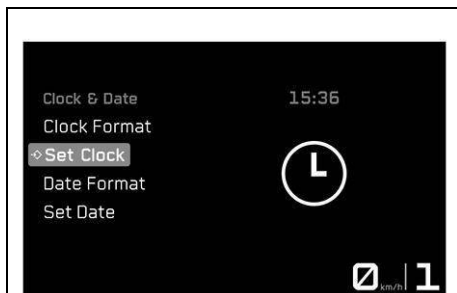
If the engine speed reaches the set value **RPM2**, the shift warning light flashes and the color changes.

7.28.40 Setting the time and date

Condition: Motorcycle is stationary



- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Settings** appears. Pressing the **SET** button opens 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 **UP** or **DOWN** button until **Set Clock** is highlighted.
- Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Hours** is highlighted.
- Pressing the **SET** button opens 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 **Minutes** is highlighted.
- Pressing the **SET** button opens the menu.
- 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.



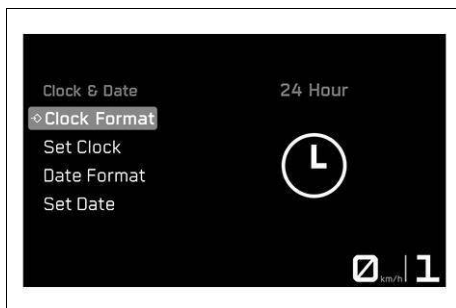


Setting the date

- Press **UP** or **DOWN** button until **Set Date** is highlighted.
- Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Day** is highlighted.
- Pressing the **SET** button opens 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 **Month** is highlighted.
- Pressing the **SET** button opens the menu.
- 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 **Year** is highlighted.
- Pressing the **SET** button opens the menu.
- 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.



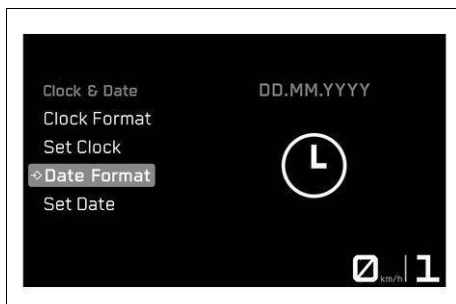
7.28.41 Clock format



Condition: 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 **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.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to select the time format.

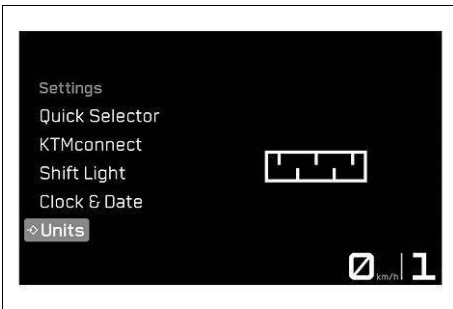
7.28.42 Date format



Condition: 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 **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.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to select the date format.

7.28.43 Units

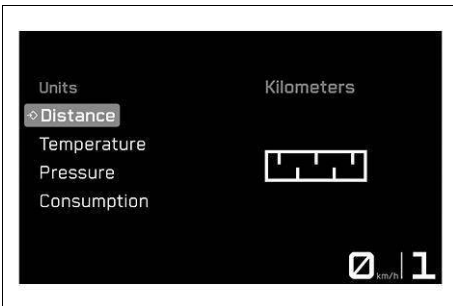


Condition: Motorcycle is stationary

- 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 **Units** is highlighted. Press the **SET** button to open the submenu.

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

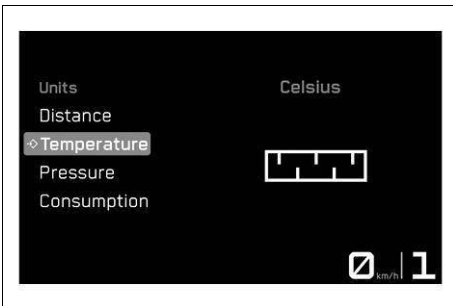
7.28.44 Distance



Condition: 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 **Units** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Distance** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to confirm the desired unit.

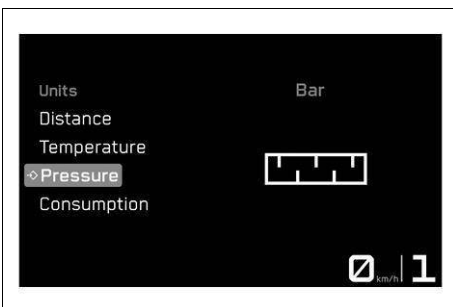
7.28.45 Temperature



Condition: 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 **Units** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Temperature** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to confirm the desired unit.

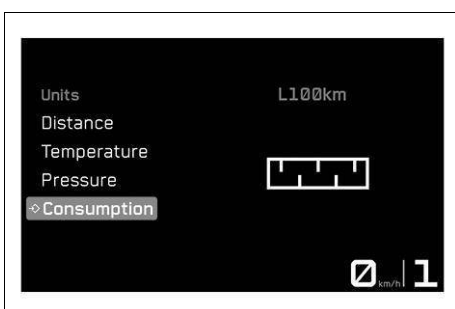
7.28.46 Pressure



Condition: 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 **Units** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Pressure** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to confirm the desired unit.

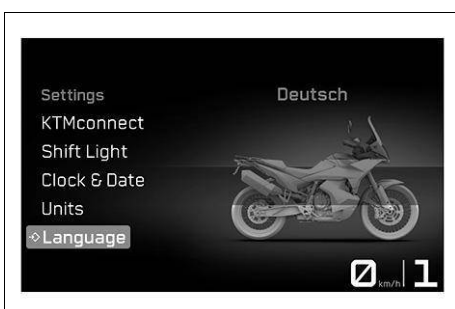
7.28.47 Consumption



Condition: 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 **Units** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Consumption** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to confirm the desired unit.

7.28.48 Language



Condition: Motorcycle is stationary

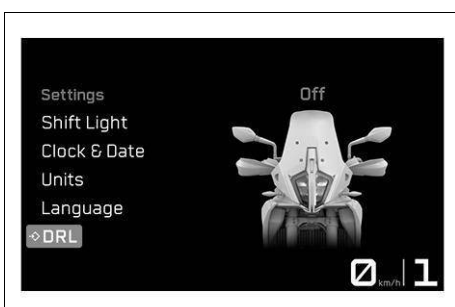
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted.
- Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Language** is highlighted. Press the **SET** button to open the submenu.
- Activate the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



Note

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

7.28.49 DRL



Condition: 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 **DRL** is highlighted. Press the **SET** button to open the submenu.

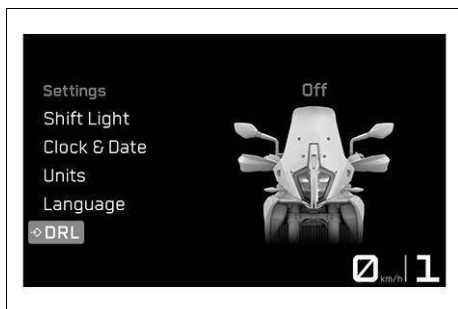


WARNING

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 impaired due to fog, snow or rain.

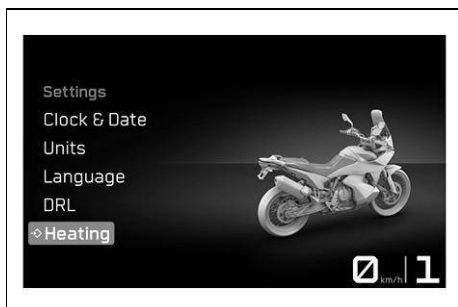
- Ensure that the appropriate type of lighting is always selected.
- If necessary switch off the daytime running lights using the menu before going on a ride or when stopped so that the low beam is switched on permanently.
- Make sure that the daytime running light is deactivated with the diagnostic tool when the menu item is not available, but the low beam is required.
- Note the legal regulations regarding the daytime running light.

- Activate the menu item using the **UP** or **DOWN** button.



- Press the **SET** button to switch the daytime running light on or off.

7.28.50 Heating (function optional)



Condition: 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 **Heating** is highlighted. Press the **SET** button to open the submenu.

The heated grip, rider seat heating and passenger seat heating can be configured in the **Heating** submenu.

i Note

In the **Settings** menu, the **Heating** submenu solely controls the visibility of **Heated Grips** and **Seat Heating** in the **Motorcycle** menu.

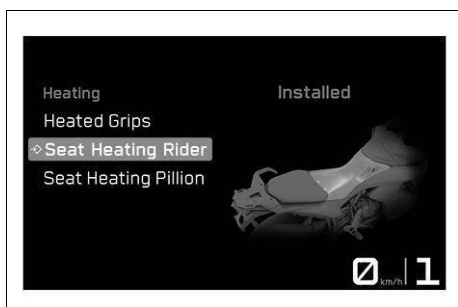
7.28.51 Heated Grips (function optional)



Condition: Model with grip heater, 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 **Heating** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Heated Grips** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the heated grip on or off.

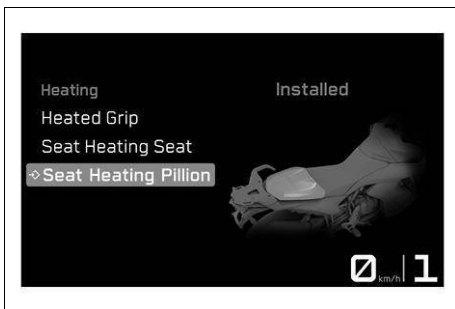
7.28.52 Seat Heating Rider (function optional)



Condition: Model with seat heating, 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 **Heating** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Seat Heating Rider** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the front rider's seat heating on or off.

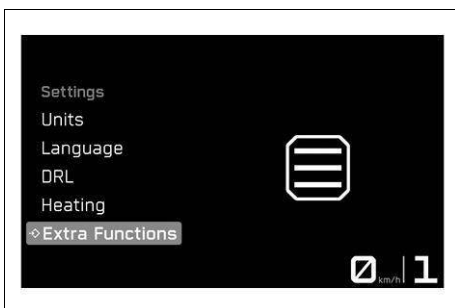
7.28.53 Seat Heating Pillion (function optional)



Condition: Model with seat heating, 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 **Heating** is highlighted. Press the **SET** button to open the submenu.
- Press **UP** or **DOWN** button until **Seat Heating Pillion** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the passenger seat heating on or off.

7.28.54 Extra Functions



Condition: 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.

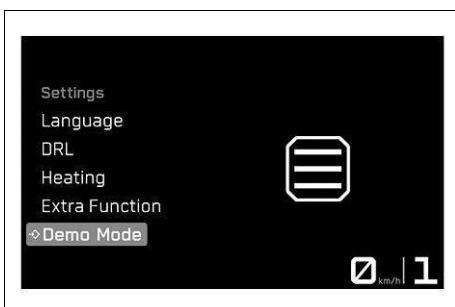


Note

The optional extra functions are listed.

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

7.28.55 Demo mode



Condition: 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.



Note

The activated demo mode functions (p. 37) are listed.

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

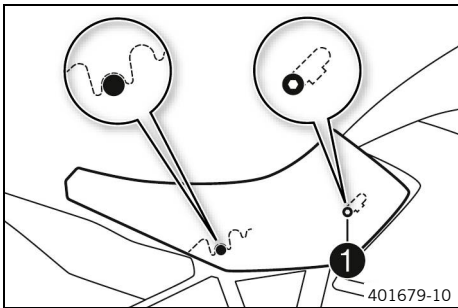
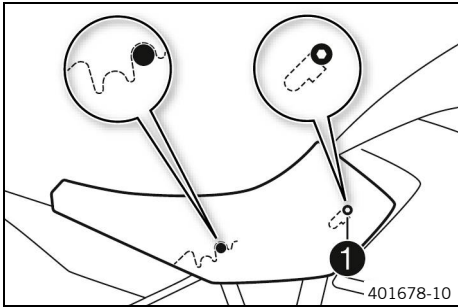
8.1 Setting the front rider's seat

Preparatory work

- Remove the passenger seat.  (p. 96)
- Remove the front rider's seat.  (p. 96)

Main work

- Select one of the following alternatives.
- Attach the front rider's seat to the fuel tank at the recesses **1**, and push the front rider's seat down and forward at the same time.

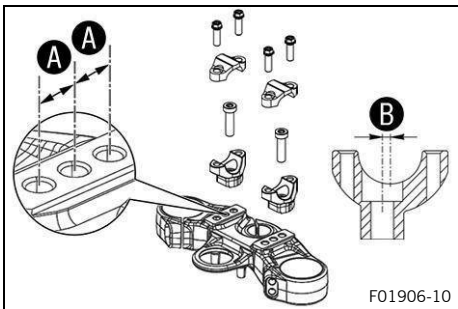


- Attach the front rider's seat to the fuel tank at the recesses **1**, and push the rider's seat up and forward at the same time.
- Check that the front rider's seat is mounted correctly.

Reworking

- Mount the passenger seat.  (p. 96)

8.2 Handlebar position



On the upper triple clamp, there are three holes at a distance of **A** to each other.

The holes on the handlebar support are placed at a distance of **B** from the center.

Hole distance A	15 mm (0.59 in)
Hole distance B	3.5 mm (0.138 in)

The handlebar can be mounted in six different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

8.3 Adjusting the handlebar position

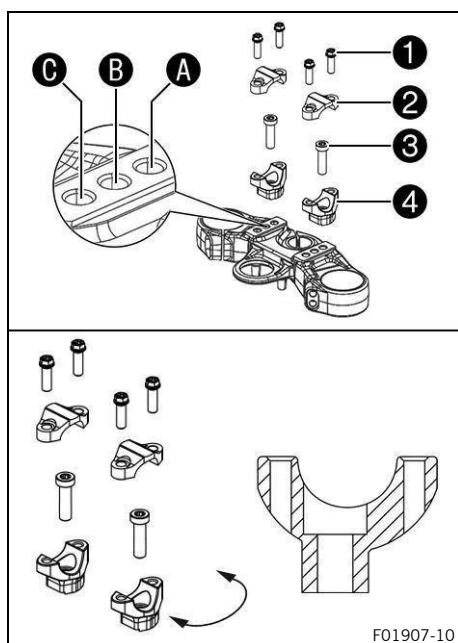


WARNING

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.

Protect the components against damage by covering them.

Do not kink the cables or lines.

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

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

Screw, handlebar mount

M10	45 Nm (33.2 ft·lb _r)
Loctite® 243	

- Position the handlebar.

Make sure the cables and wiring are routed correctly.

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

Handlebar clamp screw

M8	20 Nm (14.8 ft·lb _r)
----	-------------------------------------



8.4 Adjusting the basic position of the clutch lever



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

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

Do not make any adjustments while riding.

Note

When the adjusting screw is turned clockwise, the clutch lever moves closer to the handlebar.

When the adjusting screw is turned counterclockwise, the clutch lever moves away from the handlebar.

The range of adjustment is limited.



8.5 Adjusting the basic position of the hand brake lever



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

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

Do not make any adjustments while riding.

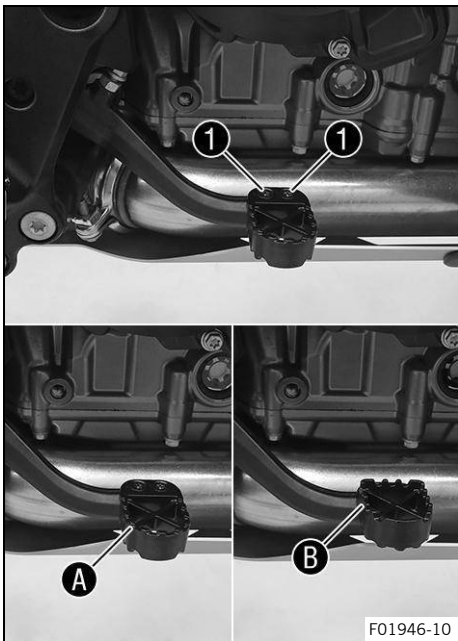
Note

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

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

The range of adjustment is limited.

8.6 Adjusting foot brake lever stub



- Remove screws 1 with the foot brake lever stub.
- Move the foot brake lever stub into desired position A or B. Mount and tighten screws 1.

Screw, foot brake lever stub	
M5	10 Nm (7.4 ft·lb _f) Loctite® 243

8.7 Adjusting the basic position of the brake pedal

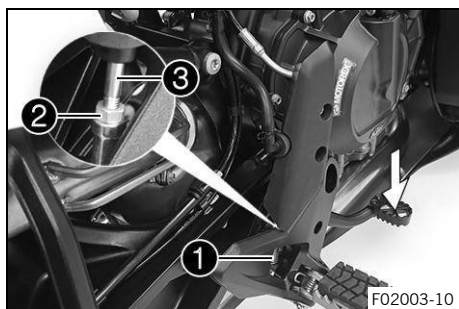


WARNING

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

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

- Set the free travel on the brake lever as specified.



- Detach spring ①.
- Loosen nut ②.


Tip

Press the foot brake lever downwards to make this easier.

- Turn the push rod ③ to set the basic position of the foot brake lever.

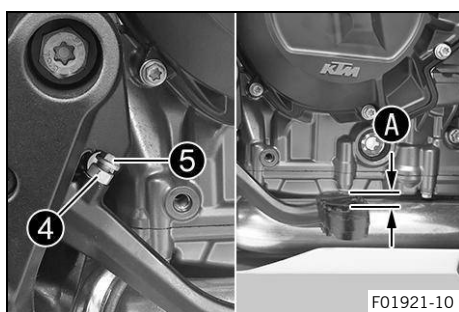
The screw must be screwed in by at least five full turns.


Note

The range of adjustment is limited.

Screwing the push rod into the ball joint adjusts the foot brake lever downwards.

Screwing the push rod out of the ball joint adjusts the brake lever upwards.



- Loosen nut ④ and turn screw ⑤ correspondingly until the free travel A is present. If necessary, adjust the basic position of the brake pedal.

Free travel of brake pedal	3 mm ... 5 mm (0.12 in ... 0.20 in)
----------------------------	--

- Hold screw ⑤ and tighten nut ④.

Remaining nuts on chassis	
M6	10 Nm (7.4 ft·lb _f)

- Tighten nut ②.

Nut, push rod, brake pedal	
M6	6 Nm (4.4 ft·lb _f)


Tip

Press the foot brake lever downwards to make this easier.

- Attach spring ①.

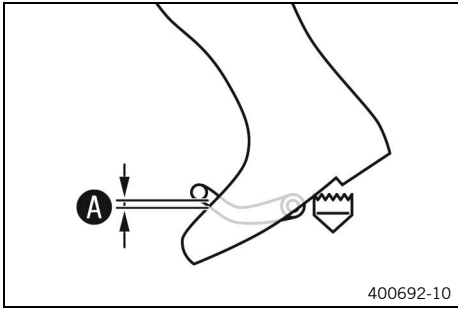


8.8 Checking the basic position of the gear shift lever


Note

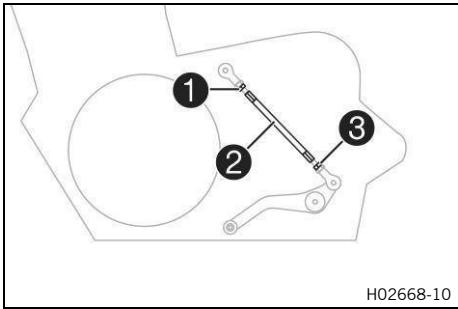
When driving, the gear shift lever must not touch the rider's boot when in the basic position.

If the shift lever is permanently touching the boot, the transmission will be subject to excessive load; this can cause malfunctions on the QUICKSHIFTER+ (optional).



- 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 the gear shift lever and upper edge of boot | 10 mm ... 20 mm
(0.39 in ... 0.79 in) |
|--|--|
- » If the distance does not meet the specifications:
 - Adjust the basic position of the gear shift lever. 
-  (p. 76)

8.9 Adjusting the basic position of the gear shift lever



- Loosen nut **1** while holding stud **2**.
 - Loosen nut **3** while holding stud **2**.
-  **Note**
Nut **3** has an LH thread.
- Turn stud **2** to adjust the shift lever.
- The gear shift lever must not come into contact with any other vehicle components during the shift procedure.
-  **Note**
The range of adjustment is limited.
- Tighten nut **3** while holding stud **2**.
- | | |
|----------------|-----------------------------------|
| Nut, shift rod | |
| M6 | 6 Nm
(4.4 ft·lb _r) |
- Tighten nut **1** while holding stud **2**.
- | | |
|----------------|-----------------------------------|
| Nut, shift rod | |
| M6 | 6 Nm
(4.4 ft·lb _r) |

9.1 Notes on preparing for first use



DANGER

Danger of accidents A rider who is not fit to ride poses a danger to themselves and to 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 incapable of doing so.



WARNING

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

If the brake pedal is not released, the brake pads grind continuously.

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



WARNING

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

- Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.



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 (124.3 mi)
-----------------	----------------------



WARNING

Danger of accidents Different tire profiles on the front and rear wheels can make it more difficult to control the vehicle.

- Make sure that only tires of the same tread type are mounted to the front and rear wheel.



WARNING

Risk of injury Missing or inadequate protective clothing increases the risk of injury.

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



Note

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

- Ensure that the pre-delivery inspection has been carried out by an authorized contractual partner.
 - ✓ The delivery certificate is transferred upon vehicle handover.
- Read the entire owner's manual before riding for the first time.
- Get to know the controls.
- Adjust the basic position of the clutch lever. 📖 (p. 73)
- Adjust the basic position of the hand brake lever. 📖 (p. 74)
- Adjust the basic position of the brake pedal. 🦶 📖 (p. 74)
- Get used to the handling characteristics of the motorcycle on suitable terrain before undertaking a more challenging ride. Also, ride as slowly as possible to get a better feeling for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footpegs when riding.
- Run in the engine. 📖 (p. 78)



9.2 Running in the engine

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

Maximum engine speed	
During the first: 1,000 km (621.4 mi)	6,500 rpm (108.33 Hz)
After the first: 1,000 km (621.4 mi)	9,800 rpm (163.33 Hz)

Avoid fully opening the throttle.



Note

If the maximum engine speed is exceeded before the first service, the shift warning light flashes.

9.3 Loading the vehicle



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.



WARNING

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

- Adapt your speed to your payload.



WARNING

Danger of accidents Carrying luggage alters handling characteristics.

- Adapt your speed to your payload.
- Ride more slowly if your vehicle is loaded with cases or other luggage.

Maximum speed with luggage	150 km/h (93.2 mph)
----------------------------	------------------------



WARNING

Danger of accidents Items of luggage that have slipped or are incorrectly fastened can obscure the lighting system.

- Check that your luggage is fixed properly at regular intervals.
- Make sure that the lighting system is not covered by luggage.



WARNING

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

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

- Do not exceed the maximum permissible total 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 The luggage system will be damaged if it is overloaded.

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

- 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.

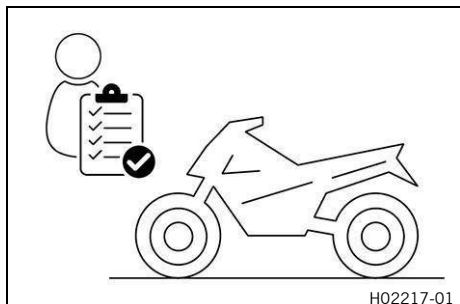
The maximum permissible total weight and the maximum permissible axle loads must not be exceeded.	
Maximum permissible total weight	450 kg (992.1 lb)
Maximum permissible front axle load	175 kg (385.8 lb)
Maximum permissible rear axle load	275 kg (606.3 lb)



10.1 Checks and maintenance measures when preparing for use

Note

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. 149)
- Check the brake fluid level for the front brake.  (p. 118)
- Check the brake fluid level for the rear brake.  (p. 121)
- Check that the brake pads of the front brake are secured.  (p. 120)
- Check that the brake pads of the rear brake are secured.  (p. 122)
- Check that the brake system is functioning properly.
- Check the coolant level in the compensating tank.  (p. 144)
- Check the chain for dirt.  (p. 97)
- Check the chain tension.  (p. 98)
- Check the tire condition.  (p. 129)
- Check the tire pressure.  (p. 130)
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check that the electrical equipment is functioning properly.
- Check that luggage is properly secured.
- Sit on the motorcycle and check the rear mirror setting.
- 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 ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



WARNING

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.

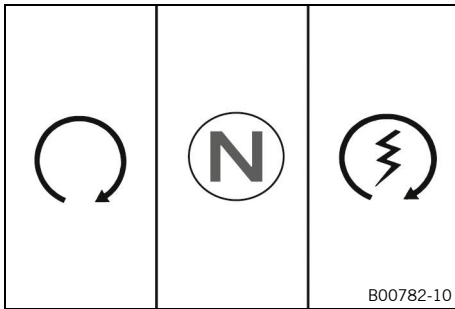
- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.



NOTE

Engine failure Running a cold engine at high engine speeds negatively impacts the service life of the engine.

- Always warm up the engine at low engine speeds.



- Take the motorcycle off the side stand and sit on the motorcycle.
- Make sure that the start button/kill switch is in the middle position (○).
- Switch on the ignition by turning the ignition key to position (○).

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

- ✓ After you switch on the ignition, you can hear the fuel pump working for about two seconds. The function check of the combination instrument is run at the same time.
- ✓ The ABS warning light lights up and goes out again after starting off.
- Shift the transmission into neutral **N**.
- ✓ The green idle indicator lamp **N** lights up.
- Briefly press the start button/kill switch into lower position (⚡).

Only press the start button/kill switch into lower position (⚡) when the dashboard 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 faults instead.



Note

This motorcycle is equipped with a safety starting system. The engine can only be started if the transmission is in the neutral position. If the side stand is folded out and you shift into gear, the engine stops.

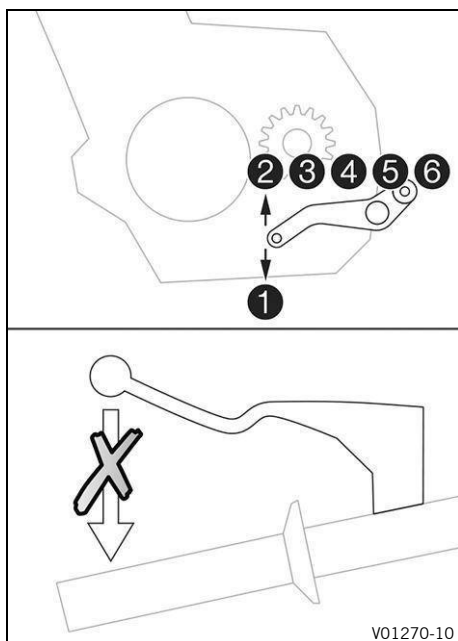


10.3 Starting off

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



10.4 Quickshifter+ (optional)



If the **QUICKSHIFTER+** 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.

10.5 Shifting, riding



WARNING

Risk of injury The passenger may fall from the vehicle if they act 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.



WARNING

Danger of accidents Not adapting the 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 Total weight and axle loads influence the handling characteristic.

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

- Do not exceed the maximum permissible total 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 Adjustments to the vehicle distract attention from traffic activity.

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



WARNING

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

- Avoid abrupt load alterations and sudden braking actions unless a hazardous situation arises.



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 (124.3 mi)
-----------------	----------------------



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.



WARNING

Danger of accidents An incorrect ignition key position causes malfunctions.

- Do not change the ignition key position while riding.



WARNING

Danger of accidents If you downshift at high engine speed, the rear wheel blocks and the engine races.

- Do not downshift to a lower gear at high engine speeds.



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

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

Dust and dirt can enter the engine if there is no air filter or if the air filter is mounted incorrectly.

- Only operate the vehicle if an air filter is correctly fitted.



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.

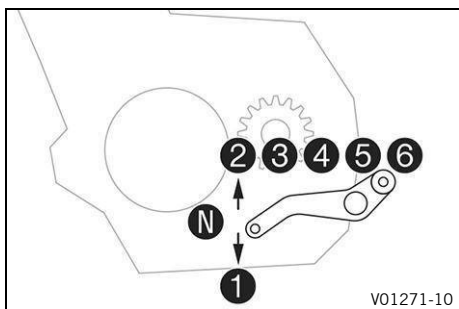
- Only use the QUICKSHIFTER+ in the permitted speed range shown.



Note

If you hear unusual noises while riding, stop immediately in a safe manner, switch off the engine, and contact an authorized contractual partner.

10 Riding instructions



- 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.



Note

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

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

- After reaching maximum speed by fully opening the throttle twist grip, turn the throttle back so that it is $\frac{3}{4}$ open. This will reduce the speed slightly, but the fuel consumption will be considerably lower.
- Accelerate only up to a speed suitable for the road surface and weather conditions. In particular, you should not change gear on bends and should only accelerate very cautiously.
- 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 (⚡). 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 contractual partner.
- If the malfunction indicator light  lights up during a trip, please contact an authorized contractual partner as soon as possible.
- If the general warning lamp  lights up during a trip, the display shows a message.



Note

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

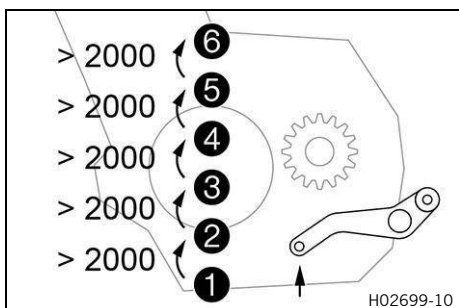
- If the ice warning appears in the combination instrument, the roads may be icy. Adjust your speed to the road conditions.
- If the **QUICKSHIFTER+** (optional) is activated in the combination instrument, you can shift up in the engine speed range indicated without pulling the clutch lever.

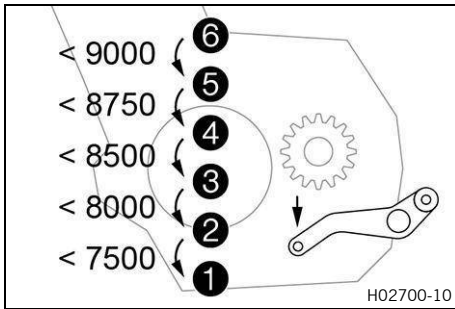


Note

The minimum engine speed before shifting up in revolutions per minute is shown in the figure.

Pull the shift lever to the stop quickly without changing the throttle twist grip position.





- If the QUICKSHIFTER+ (optional) is activated in the dashboard, you can shift down in the rev range indicated without pulling the clutch lever.



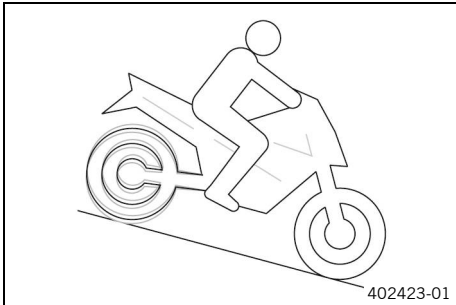
Note

The maximum engine speed before shifting down in revolutions per minute is shown in the figure.

Pull the shift lever to the stop quickly without changing the throttle twist grip position.



10.6 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.



Note

When ABS mode **Offroad** is active, the **MSR** is not active.

10.7 Braking



WARNING

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

- Do not drive the vehicle if the brake system has a spongy pressure point.



WARNING

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

If the brake pedal is not released, the brake pads grind continuously.

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



WARNING

Danger of accidents Braking with excessive force locks 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 Moisture and dirt impair the brake system.

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



WARNING

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

- Pull the clutch when performing emergency braking or braking on slippery surfaces.



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.

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



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 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.



Note

When the **ABS** is enabled, maximum braking power can be applied 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 Banked or laterally sloping ground reduces the maximum possible delay.

- If possible finish braking before going into a bend.

- Always finish braking before you go into a bend. Shift into a lower gear that suits the speed.
- Use the brake action of the engine on long downhill stretches. To do so, shift back one or two gears, but do not overrev the engine. This means that significantly less braking is required and means the brake system does not overheat.

10.8 Stop, park



WARNING

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

- Never leave the vehicle unattended while the engine is running.
- Lock the steering and remove the ignition key 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.
- Allow the vehicle parts to cool down before performing any work on the vehicle.



NOTE

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

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



NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur 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.
- Make sure that nobody sits on the vehicle when it is parked on a stand.

- Brake the motorcycle.
- Shift the transmission into neutral **N**.
- Switch off the ignition by turning the ignition key to position



Note

If the engine is switched off with the emergency OFF switch and the ignition remains switched on at the ignition lock, power continues to flow to most electrical power consumers. This discharges the 12-V battery. You should therefore always switch off the engine with the ignition lock – the kill 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.
- Lock the steering by turning the handlebar fully to the left, pressing down the ignition key to position and turning it to position . To make the steering lock engage more easily, move the handlebar a little to the left and right. Remove the ignition key.



10.9 Transportation



NOTE

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

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



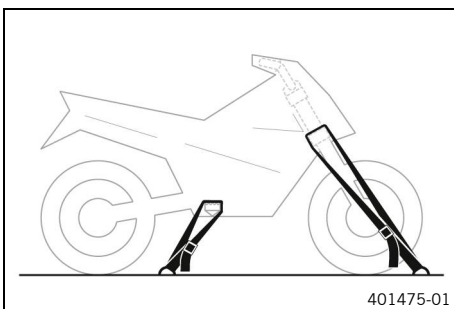
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

Damage can occur 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.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



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

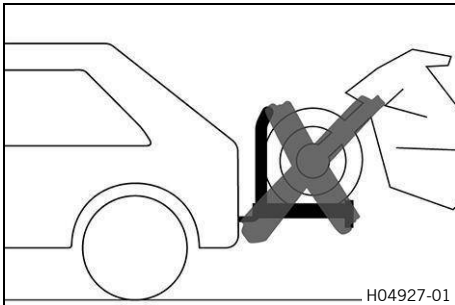
10.10 Towing in the event of a breakdown



NOTE

Danger of damage Damage to the powertrain and transmission can occur when towing with a towing vehicle.

- 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.

10.11 Refueling



DANGER

Fire hazard Fuel is highly flammable.

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

- Do not refuel the vehicle in the vicinity of open flames, glowing, or smoldering objects.
- Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
- 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 up immediately.
- Do not overfill the fuel tank.



WARNING

Danger of poisoning Fuel is harmful to health.

- Do not allow fuel to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if fuel has been ingested.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if fuel comes into contact with eyes.
- If fuel spills on to your clothing, change the clothing.
- Store fuel properly in a suitable container and keep out of the reach of children.



NOTE

Material damage Inadequate fuel quality can lead to losses in performance and consequential damage.

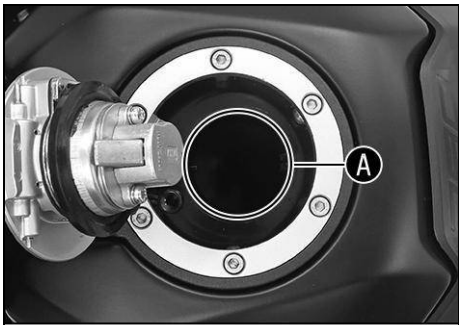
- Refuel only with clean fuel that meets the specified standards.



NOTE

Environmental hazard Improper handling of fuel is dangerous to the environment.

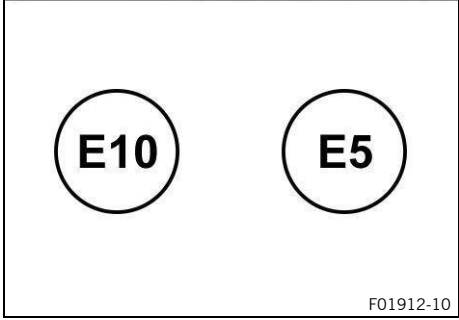
- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



- Switch off the engine.
- Open the fuel tank cap.  (p. 27)
- Fill the fuel tank with fuel up to the lower edge **A** of the filler neck.

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95)  (p. 182)	20 l (5.3 liq. gal _{US})

- Close the fuel tank cap.  (p. 28)



11.1 Service work

Any further work that results from the compulsory work or from the recommended work must be ordered separately and invoiced separately.

Different service intervals may apply in your country, depending on the local operating conditions.

Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule is available for authorized contractual partners for the electronic proof of service. Your authorized contractual partner will be happy to advise you.

	Every 48 months					
	Every 24 months					
	Every 12 months					
	Every 30,000 km (18,641.1 mi)					
	Every 15,000 km (9,320.6 mi)					
	After 1,000 km (621.4 mi)					
Read out the fault memory using the diagnostics tool. 	○	●	●	●	●	●
Program the shift shaft sensor. 	○	●	●	●	●	●
Check that the electrical equipment is functioning properly.	○	●	●	●	●	●
Check that the brake pads of the front brake are secured.  (p. 120)	○	●	●	●	●	●
Check that the brake pads of the rear brake are secured.  (p. 122)	○	●	●	●	●	●
Check the brake discs.  (p. 117)	○	●	●	●	●	●
Check the brake lines for damage and tightness. 	○	●	●	●	●	●
Check the brake fluid level for the front brake.  (p. 118)	○	●	●	●		
Change the brake fluid for the front brake. 					●	●
Check the brake fluid level for the rear brake.  (p. 121)	○	●	●	●		
Change the brake fluid for the rear brake. 					●	●
Check the free travel of the clutch lever.  (p. 152)	○	●	●	●	●	●
Check the free travel of the brake pedal.  (p. 120)	○	●	●	●	●	●
Change the engine oil and the oil filter, clean the oil screens.   (p. 149)	○	●	●	●	●	●
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and boots for cracking, leaks, and correct routing. 		●	●	●	●	●
Empty the drainage hoses. 	○	●	●	●	●	●
Check the cables for damage and that there are no kinks in the routing. 		●	●	●	●	●
Check the frame. 			●			
Check the swingarm. 			●			
Check the swingarm bearing for play. 		●	●			
Check the steering head bearing play. 	○	●	●			
Check the wheel bearing for play. 		●	●			
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 the tire condition.  (p. 129)	○	●	●	●	●	●
Check the tire pressure.  (p. 130)	○	●	●	●	●	●
Check the rim run-out. 	○	●	●	●	●	●

	Every 48 months					
	Every 24 months					
	Every 12 months					
	Every 30,000 km (18,641.1 mi)					
	Every 15,000 km (9,320.6 mi)					
	After 1,000 km (621.4 mi)					
Retighten the spokes. 	○					
Check the spoke tension.  (p. 130)		•	•	•	•	•
Check the chain, rear sprocket, engine sprocket, and chain guide.  (p. 100)		•	•	•	•	•
Check the chain tension.  (p. 98)	○	•	•	•	•	•
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. 			•			
Change the air filter, clean the air filter box. 		•	•			
Check the fuel pressure. 		•	•	•	•	•
Check the headlight setting.  (p. 141)	○	•	•			
Check the tightness of the safety-relevant screws and nuts which are easily accessible. 	○	•	•	•	•	•
Clean the dust boots of the fork legs.   (p. 110)		•	•			
Check the coolant fill level and 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 fault memory after the test ride using the diagnostics tool. 	○	•	•	•	•	•
Adjust service display with KTM diagnostics tool. 	○	•	•	•	•	•
Enter the electronic proof of service in the contractual partner portal. 	○	•	•	•	•	•

- One-time interval
- Periodic interval

12.1 Adjusting the compression damping of the fork

i Note
The hydraulic compression damping determines the fork suspension behavior.



- Turn white adjuster **1** clockwise as far as it will go.

i Note
Adjuster **1 COMP** is located at the upper end of the left fork leg.

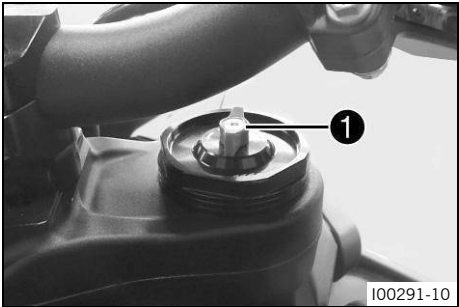
- Turn counterclockwise by the number of clicks corresponding to the fork type.

Compression damping	
Standard	15 clicks

i Note
Turning clockwise increases damping; turning counterclockwise reduces damping during compression.

12.2 Adjusting the rebound damping of the fork

i Note
The hydraulic rebound damping determines the fork suspension behavior.



- Turn red adjuster **1** clockwise as far as it will go.

i Note
Adjuster **1 REB** is located at the upper end of the right fork leg.

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

Rebound damping	
Standard	15 clicks

i Note
Turning clockwise increases damping; turning anticlockwise reduces damping on rebound.

12.3 Adjusting the rebound damping of the shock absorber



CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.



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

Rebound damping	
Standard	12 clicks



Note

Turning clockwise increases damping; turning anticlockwise reduces damping on rebound.

12.4 Adjusting the spring preload of the shock absorber



WARNING

Danger of accidents Modifications to the suspension settings that are not properly coordinated can impair the handling and overload components.

- Only make adjustments within the recommended range.
- Ride slowly to start with after making adjustments to get the feel of the new handling characteristics.



Note

The spring preload defines the initial status of the spring operation on the shock absorber. The best spring preload setting is achieved when it is set for the weight of the rider and that of any luggage and a passenger, thus ensuring an ideal compromise between handling and stability.

Condition: The swingarm is relieved of weight



- Turn adjuster ❶ counterclockwise all the way to the stop.
- Turn it clockwise by the number of turns corresponding to the shock absorber type and use.

Spring preload – preload adjuster	
Standard	4 turns (1,440°)



Note

Turn clockwise to increase the spring preload; turn counterclockwise to reduce the spring preload.

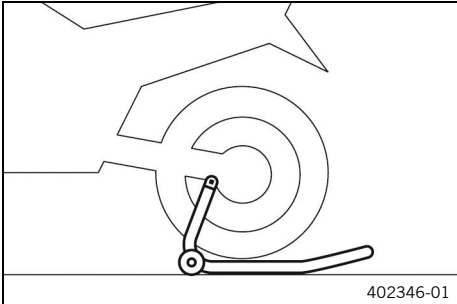
13.1 Raising the motorcycle with rear lifting gear



NOTE

Material damage The vehicle may be damaged if parked incorrectly. Damage can occur 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.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



- Mount retaining adapter on the link fork.
- Insert the adapter in the rear wheel stand.

Retaining adapter (61029955144)
Rear wheel work stand (69329955000)

- Stand motorcycle upright, align lifting gear to the link fork with the adapters, and raise motorcycle.

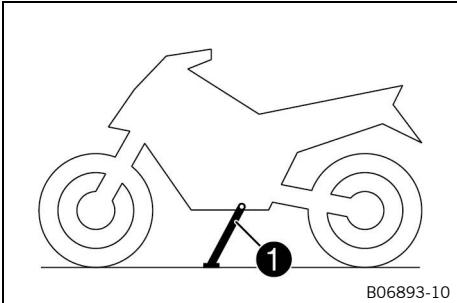
13.2 Removing the rear of the motorcycle from the lifting gear



NOTE

Material damage The vehicle may be damaged if parked incorrectly. Damage can occur 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.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



- Secure the motorcycle against falling over.
- Remove the rear lifting gear and lean the vehicle on side stand 1.
- Remove the retaining adapter from the link fork.

13.3 Lifting the motorcycle with the front lifting gear



NOTE

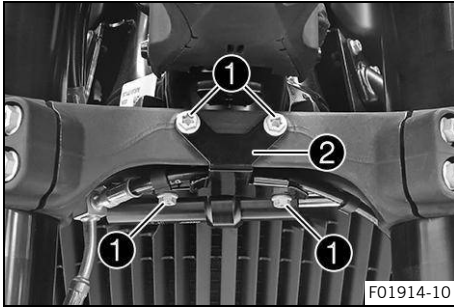
Material damage The vehicle may be damaged if parked incorrectly. Damage can occur if the vehicle rolls away or falls over. The components for parking the vehicle are designed only for the weight of the vehicle.

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

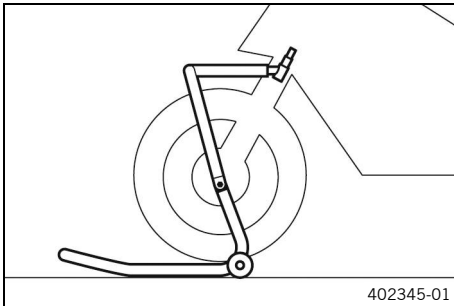
Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 94)

Main work



- Remove screws ①.
- Take off retaining bracket ②.



- Move the handlebar to the straight-ahead position.
- Use suitable lifting gear when attaching the steering stem.
- Align the front lifting gear with the fork legs.

Always raise the motorcycle at the rear first.

- Lift the motorcycle at the front.

13.4 Taking the motorcycle off the front lifting gear



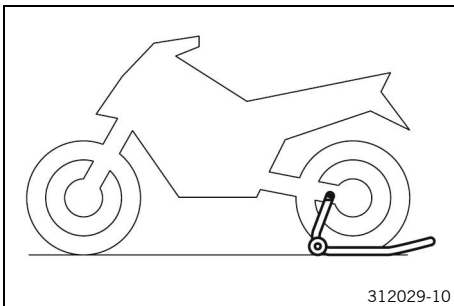
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

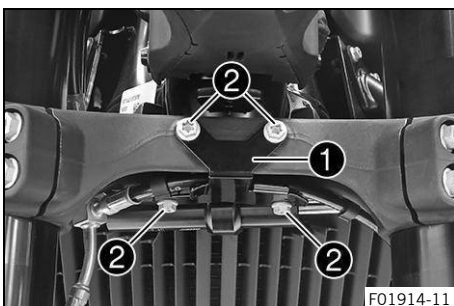
Damage can occur if the vehicle rolls away or falls over.

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

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



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

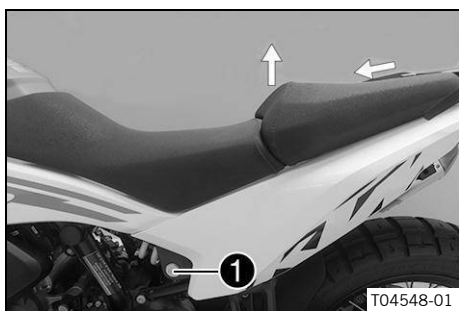


- Position retaining bracket ①.
- Mount and tighten screws ②.

Remaining screws on chassis

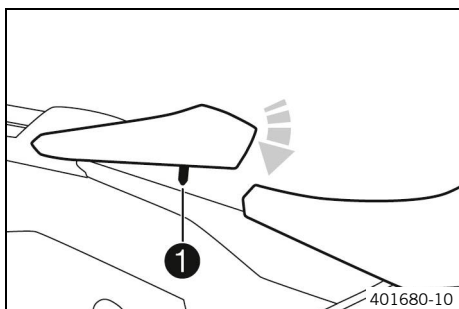
M6	10 Nm (7.4 ft·lb _r)
----	------------------------------------

13.5 Removing the passenger seat



- Insert the ignition key in seat lock ❶ and turn it clockwise.
- Raise the front of the passenger seat, pull it toward the fuel tank, and take off from above.
- Remove the ignition key from the seat lock.

13.6 Mounting the passenger seat



- Hook holding lugs of the passenger seat into the bushings on the subframe, lower the front, and simultaneously push backward.
- Insert locking pin ❶ into the lock housing and push down the front of the passenger seat until the locking pin engages with an audible click.



WARNING

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

- After assembly, check whether the seat is correctly locked and cannot be pulled up.

- Check that the passenger seat is mounted correctly.

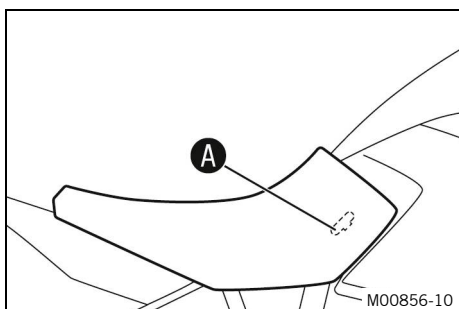
13.7 Remove the front rider's seat

Preparatory work

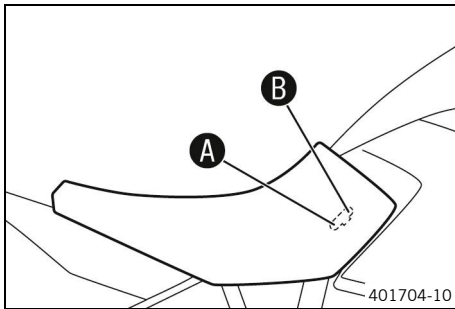
- Remove the passenger seat. 📖 (p. 96)

Main work

- Lift the rider's seat back and unhook in the ❶ area.



13.8 Mounting the front rider's seat



Main work

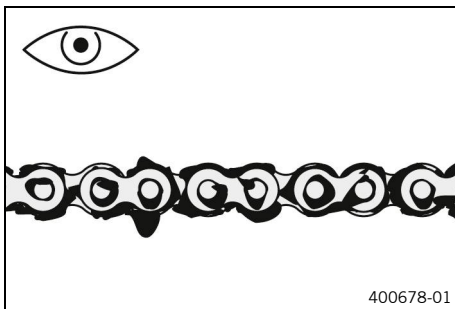
- Attach the recesses on the front rider's seat to the fuel tank at the desired seat position **A** or **B**, and push the front rider's seat forward while lowering it at the rear.
- Check that the front rider's seat is mounted correctly.

Reworking

- Mount the passenger seat. (p. 96)



13.9 Checking the chain for dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (p. 97)



13.10 Cleaning the chain



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

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



WARNING

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

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



NOTE

Environmental hazard Hazardous substances cause environmental damage.

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



Note

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

13 Service work on the chassis

Preparatory work

- Raise the motorcycle with the rear lifting gear.  (p. 94)

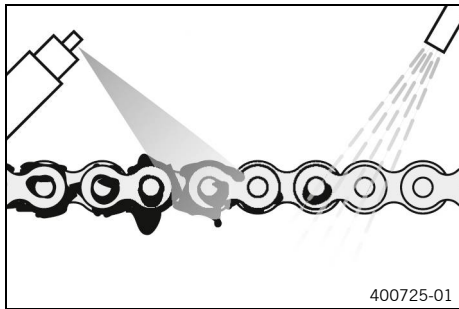
Main work

- Rinse off the loose dirt with a gentle jet of water.
- Remove old grease residues with a chain cleaner.

Chain cleaner  (p. 185)

- After drying, apply chain spray.

Street chain spray  (p. 183)



Reworking

- Remove the rear of the motorcycle from the lifting gear.  (p. 94)

13.11 Checking the chain tension



WARNING

Danger of accidents Incorrect chain tension can damage components and result in an accident.

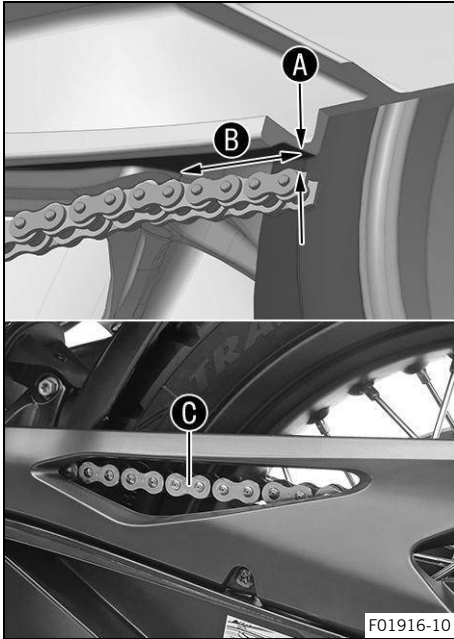
If the chain tension is too high, the chain, front sprocket, rear sprocket, transmission, and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the front sprocket or the rear sprocket. This can damage the rear wheel or the engine.

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

Preparatory work

- Raise the motorcycle with the rear lifting gear.  (p. 94)



Main work

- Shift the transmission into neutral **N**.
- Push the chain behind the chain sliding piece up and determine the chain tension **A** between the link fork and the upper edge of the chain.

Distance B from the chain sliding piece	2.5 cm (0.98 in)
Measure the distance from the flat part of the link fork directly above the chain, not from the edge of the link fork.	
Chain tension	2 mm ... 5 mm (0.08 in ... 0.20 in)
The top part of chain C must be taut.	
Chain wear is not always even. Repeat this measurement at different chain positions.	

- » If the chain tension does not meet the specification:
 - Adjust the chain tension. (p. 99)
- Remove the rear of the motorcycle from the lifting gear. (p. 94)



13.12 Adjusting the chain tension



WARNING

Danger of accidents Incorrect chain tension can damage components and result in an accident.

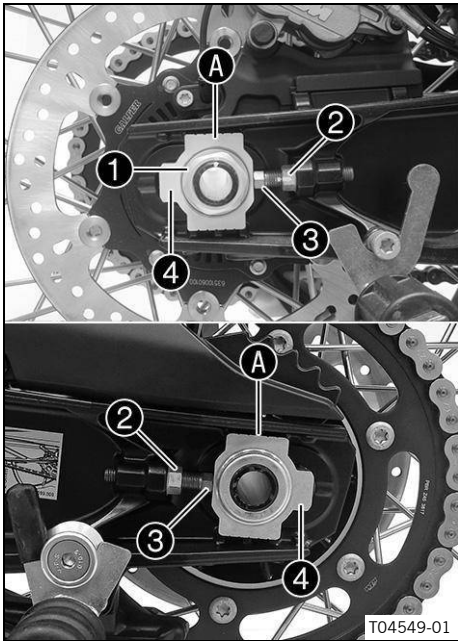
If the chain tension is too high, the chain, front sprocket, rear sprocket, transmission, and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the front sprocket or the rear sprocket. This can damage the rear wheel or the engine.

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

Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 94)
- Check the chain tension. (p. 98)



Main work

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

Chain tension	2 mm ... 5 mm (0.08 in ... 0.20 in)
Turn adjusting screws 3 on the left and right so that the markings on left and right chain adjusters 4 are in the same position relative to reference marks A. The rear wheel is then correctly aligned.	
The upper part of the chain must be taut.	
Chain wear is not always even. Repeat this measurement at different chain positions.	

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

Nut, wheel spindle, rear	
M25×1.5	90 Nm (66.4 ft·lb _f) Long-life grease

Reworking

- Check the chain tension. (p. 98)

13.13 Checking the chain, rear sprocket, front sprocket, and chain guide

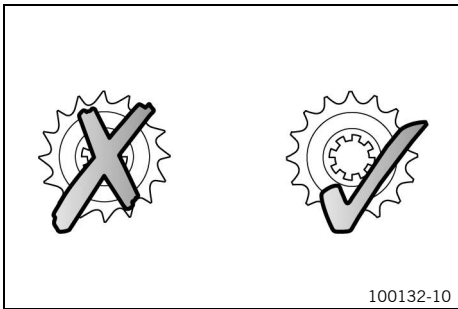
Preparatory work

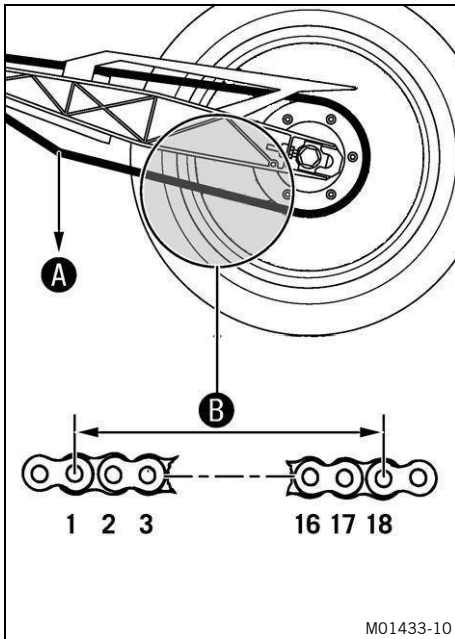
- Raise the motorcycle with the rear lifting gear. (p. 94)

Main work

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

Always replace the front sprocket, rear sprocket, and chain together.





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

Weight, chain wear measurement	15 kg (33.1 lb)
--------------------------------	--------------------

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

Maximum distance B of chain rollers at the longest chain section	272 mm (10.71 in)
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Chain wear is not always even. Repeat this measurement at different chain positions.

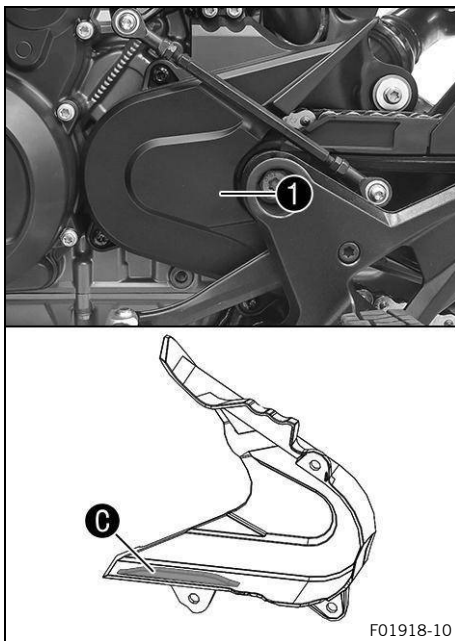
- » If distance **B** is greater than the specified measurement:
 - Change the drivetrain kit.

When installing a new chain, also replace the rear sprocket and front sprocket.

i Note

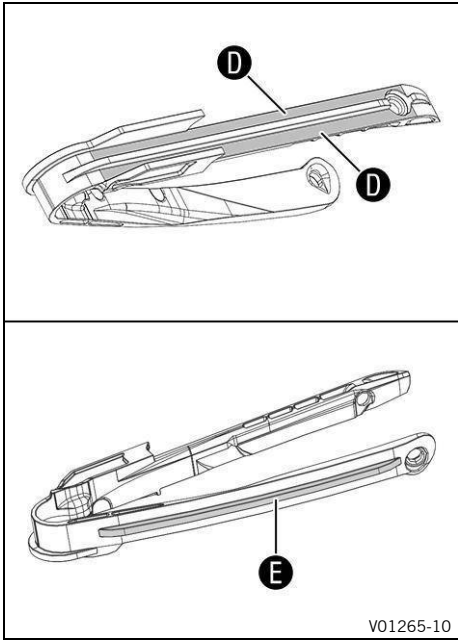
New chains wear out faster on old, worn sprockets.

For safety reasons, the chain has no chain joint.



- Check the engine sprocket cover **1** for wear.
 - » If the engine sprocket cover is highly worn in the marked area **C**:
 - Change the front sprocket cover.
- Check the engine sprocket cover **1** for tightness.
 - » If the engine sprocket cover is loose:
 - Tighten the screws on the engine sprocket cover.

Screw, front sprocket cover	
M5	5 Nm (3.7 ft·lb _f) Loctite® 243



- Check the chain slider at the top for wear.
 - » If continuous signs of wear to the chain are visible on the chain sliding guard in the area **D** marked:
 - Change the chain slider.
 - » If the chain sliding guard is highly worn on the underside in the marked area **E**:
 - Change the chain slider.
- Check that the chain slider is firmly seated.
 - » If the chain slider is loose:
 - Tighten the screws of the chain slider.

Remaining screws on chassis	
M5	5 Nm (3.7 ft·lb _r)

Reworking

- Remove the rear of the motorcycle from the lifting gear. (p. 94)

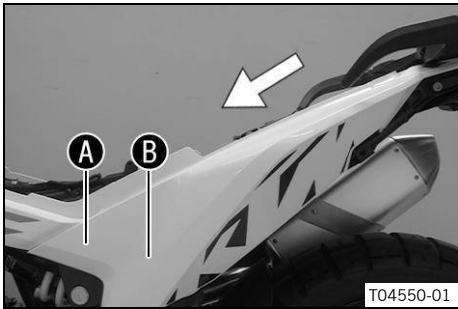
13.14 Removing the left side cover

Preparatory work

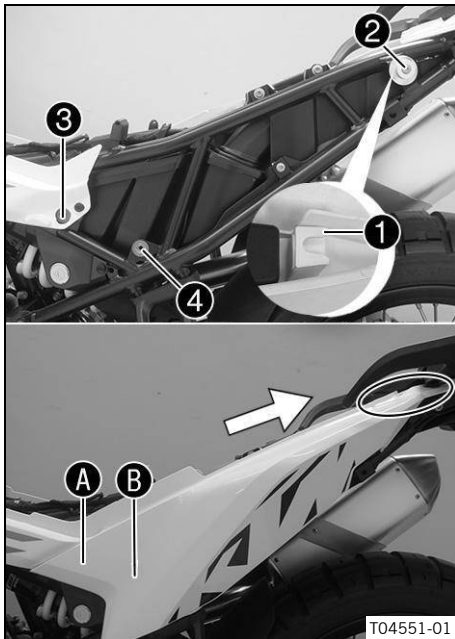
- Remove the passenger seat. (p. 96)
- Remove the front rider's seat. (p. 96)

Main work

- Remove left side fairing from the rubber bushings in areas **A** and **B**.
- Pull off the left side cover sideways and remove it toward the front.



13.15 Installing the left side fairing



Main work

- Position the left side cover with holding lug ① on bushing ② and push backward.
✓ The left side cover engages under the tail part.
- Press the left side fairing in area A into rubber bushing ③ and press into rubber bushing ④ in area B.

Reworking

- Mount the front rider's seat. 📖 (p. 97)
- Mount the passenger seat. 📖 (p. 96)

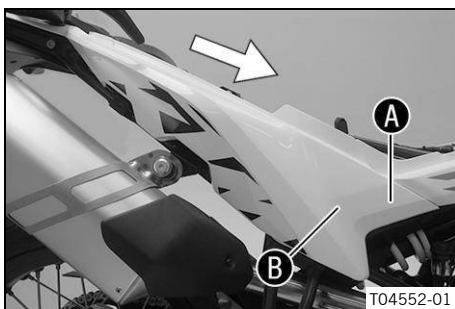


13.16 Removing the right side fairing

Preparatory work

- Remove the passenger seat. 📖 (p. 96)
- Remove the front rider's seat. 📖 (p. 96)

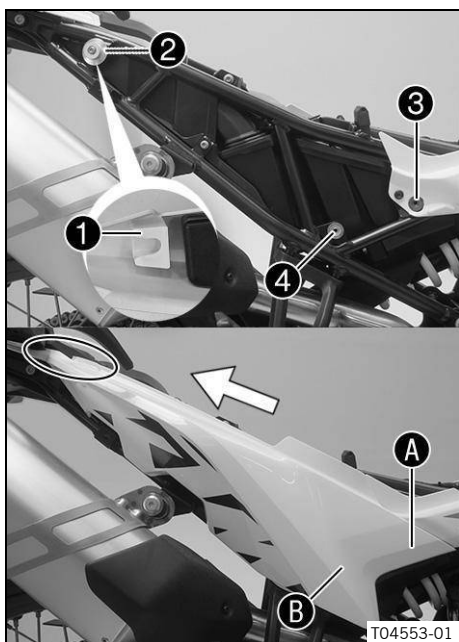
Main work



- Remove the side fairing from the rubber bushings in areas A and B.
- Pull off the right side cover sideways and remove it toward the front.



13.17 Installing the right side cover



Main work

- Position the right side cover with holding lug 1 on bushing 2 and push backward.
✓ The right side cover engages under the tail part.
- Press the right side fairing in area A into rubber bushing 3 and press into rubber bushing B in area 4.

Reworking

- Mount the front rider's seat. (p. 97)
- Mount the passenger seat. (p. 96)

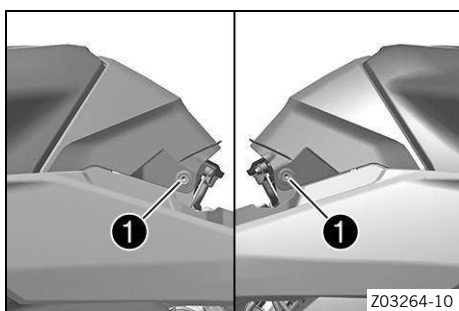
13.18 Removing the battery cover

Preparatory work

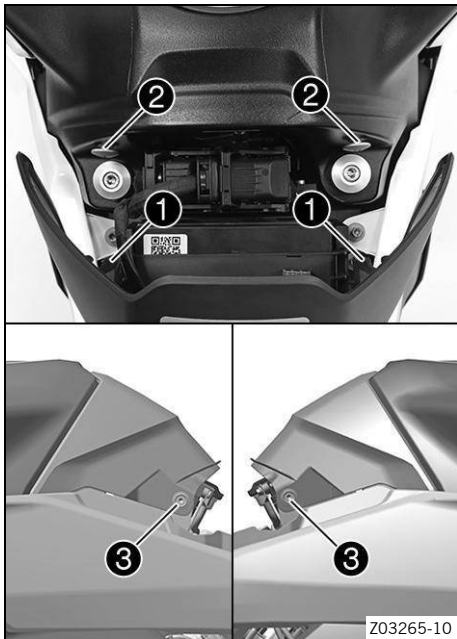
- Remove the passenger seat. (p. 96)
- Remove the front rider's seat. (p. 96)

Main work

- Remove screws 1 and bushings.
- Remove the battery cover from above.



13.19 Installing the battery cover



Main work

- Position the battery cover with holding lugs ① on bushings ② and push downward.
- ✓ The battery cover engages on the left and right under the fuel tank spoiler.
- Mount screw ③ and bushing and tighten.

Screw, seat installation	
M6	6 Nm (4.4 ft·lb _r)

Reworking

- Mount the front rider's seat. (p. 97)
- Mount the passenger seat. (p. 96)

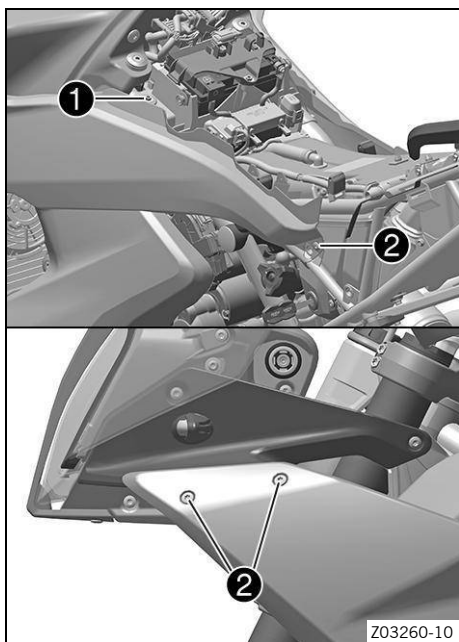


13.20 Removing left fuel tank spoiler

Preparatory work

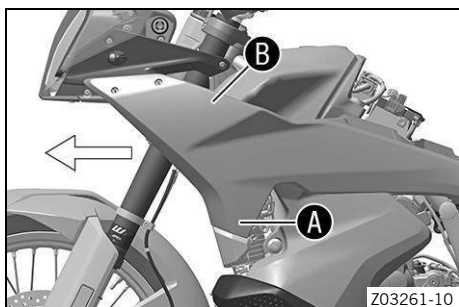
- Remove the passenger seat. (p. 96)
- Remove the front rider's seat. (p. 96)
- Remove the left side cover. (p. 102)
- Remove the battery cover. (p. 104)

13 Service work on the chassis



Main work

- Remove screw ①.
- Remove screws ②.

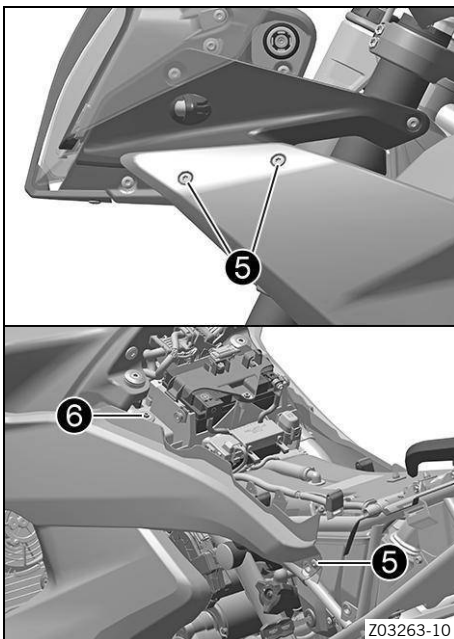
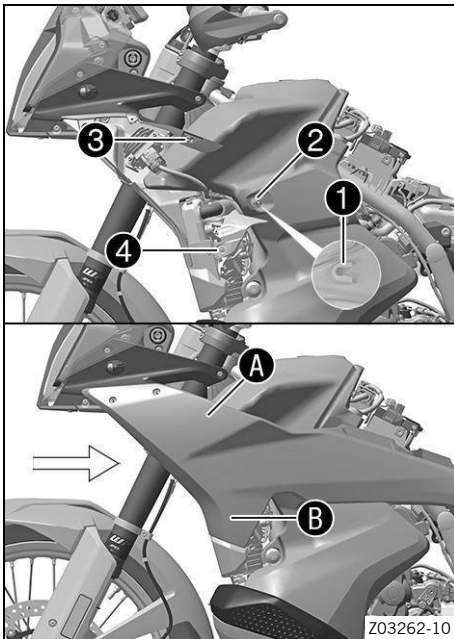


- Remove the left fuel tank spoiler from the rubber bushing in area A.
- Pull the left fuel tank spoiler in area B out of the bracket.
- Pull off the left fuel tank spoiler sideways and take it off toward the front.

13.21 Installing the left fuel tank spoiler

Main work

- Position the left fuel tank spoiler with holding lug ① on bushing ② and push backward laterally.
- Press the left fuel tank spoiler into bracket A in area ③.
- Press the left fuel tank spoiler into rubber bushing ④ in area B.



- Mount screws ⑤, but do not tighten yet.

Screw, trim	
M5	3 Nm (2.2 ft·lb _r)

- Mount screw ⑥, but do not tighten yet.

Screw, fuel tank spoiler	
M6	5 Nm (3.7 ft·lb _r)

- ✓ The front edge of the left fuel tank spoiler is evenly aligned.

- Tighten all the screws of the left fuel tank spoiler.

Screw, trim	
M5	3 Nm (2.2 ft·lb _r)
Screw, fuel tank spoiler	
M6	5 Nm (3.7 ft·lb _r)

Reworking

- Install the battery cover. 📖 (p. 105)
- Install the left side fairing 📖 (p. 103)
- Mount the front rider's seat. 📖 (p. 97)
- Mount the passenger seat. 📖 (p. 96)

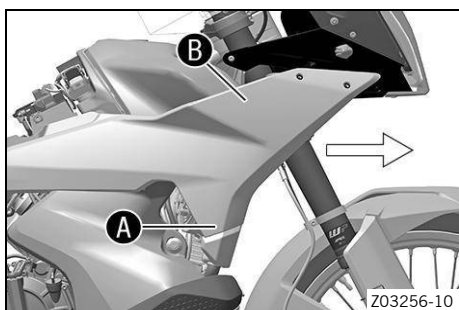
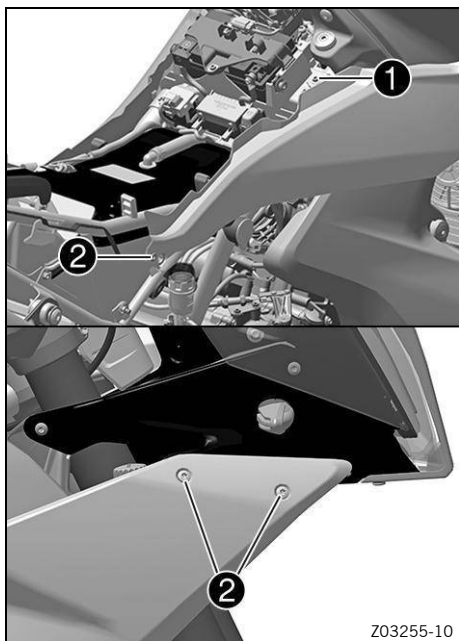
13.22 Removing the right fuel tank spoiler

Preparatory work

- Remove the passenger seat.  (p. 96)
- Remove the front rider's seat.  (p. 96)
- Remove the right side fairing.  (p. 103)
- Remove the battery cover.  (p. 104)

Main work

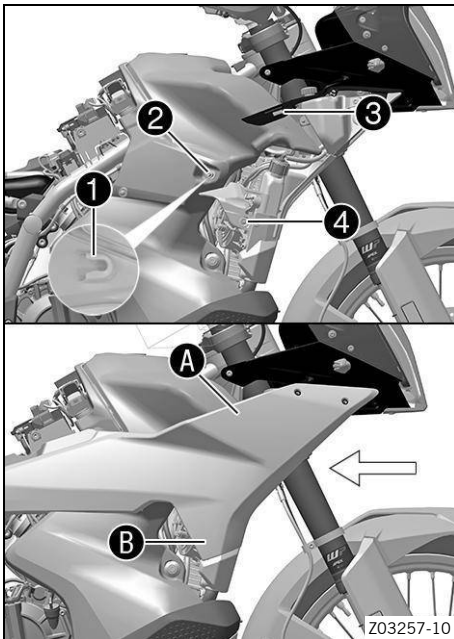
- Remove screw **1**.
- Remove screws **2**.



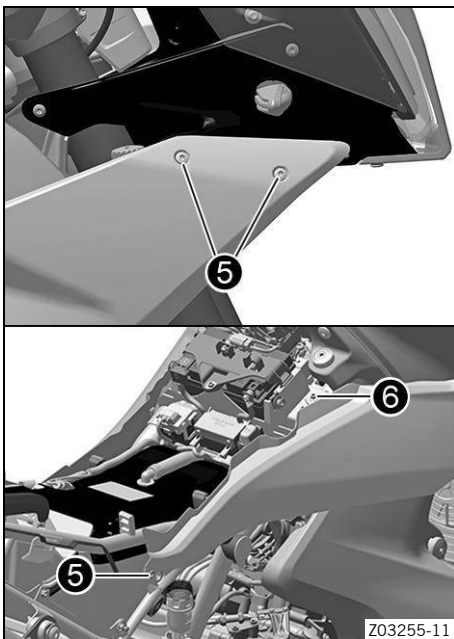
- Remove the fuel tank spoiler from the rubber bushing in area **A**.
- Pull the right fuel tank guard in area **B** out of the bracket.
- Pull off the right fuel tank spoiler sideways and take off toward the front.

13.23 Installing the right fuel tank spoiler

Main work



- Position the right fuel tank spoiler with holding lug ① on bushing ② and push backward laterally.
- Press the right fuel tank spoiler into bracket ④ in area ③.
- Press the right fuel tank spoiler into rubber bushing ④ in area ③.



- Mount screws ⑤, but do not tighten yet.

Screw, trim	
M5	3 Nm (2.2 ft·lb _r)

- Mount screw ⑥, but do not tighten yet.

Screw, fuel tank spoiler	
M6	5 Nm (3.7 ft·lb _r)

- ✓ The front edge of the right fuel tank spoiler is evenly aligned.

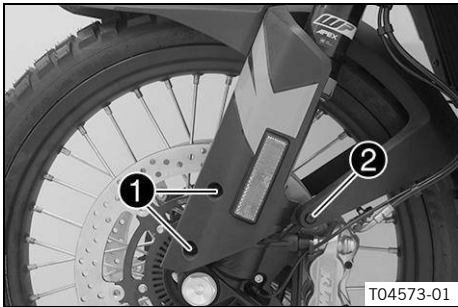
- Tighten all the screws of the right fuel tank spoiler.

Screw, trim	
M5	3 Nm (2.2 ft·lb _r)
Screw, fuel tank spoiler	
M6	5 Nm (3.7 ft·lb _r)

Reworking

- Install the battery cover. 📖 (p. 105)
- Install the right side cover. 📖 (p. 104)
- Mount the front rider's seat. 📖 (p. 97)
- Mount the passenger seat. 📖 (p. 96)

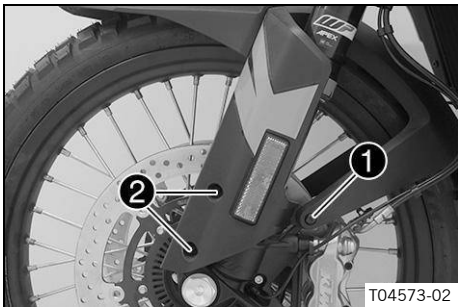
13.24 Removing the front top fender



- Remove screws 1 on both sides.
- Remove screws 2 on both sides.
- Take the fender off to the front.

Pay attention to the routing of the brake lines and cables.

13.25 Installing the front top fender



- Position the fender.

Pay attention to the routing of the brake lines and cables.

- Mount screws 1 on both sides but do not tighten yet.

Screw, fender	
M5×12	3 Nm (2.2 ft·lb _f)

- Mount screws 2 on both sides but do not tighten yet.

Screw, fender	
M5×12	3 Nm (2.2 ft·lb _f)

✓ The fender is directed evenly toward the front.

- Tighten all the screws of the fender.

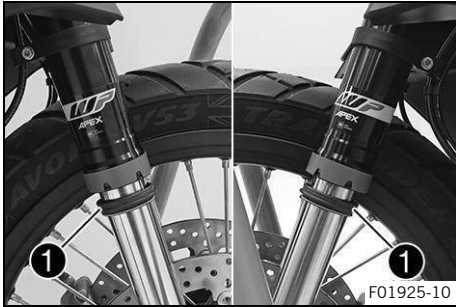
Screw, fender	
M5×12	3 Nm (2.2 ft·lb _f)

Screw, fender	
M5×12	3 Nm (2.2 ft·lb _f)

13.26 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 94)
- Lift the motorcycle with the front lifting gear. (p. 94)
- Remove the front top fender. (p. 110)



Main work

- Push dust boot ① downward on both fork legs.



Note

The dust boots should remove dust and coarse dirt particles from the inner 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, grease or wax on the brake discs reduces the brake action.

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

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

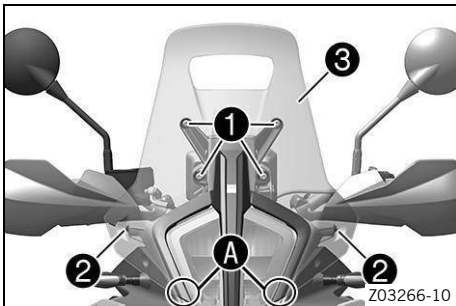
Universal oil spray  (p. 183)

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

Reworking

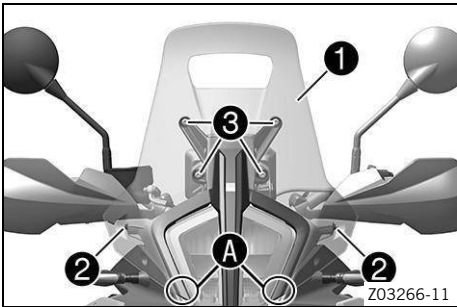
- Install the front top fender.  (p. 110)
- Take the motorcycle off the front lifting gear.  (p. 95)
- Remove the rear of the motorcycle from the lifting gear.  (p. 94)

13.27 Removing the windshield



- Remove screws ①.
- Remove screws ② and detach windshield ③ in area A.

13.28 Installing the windshield



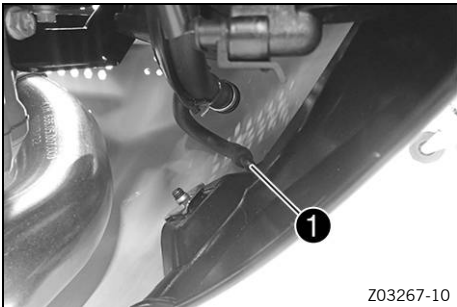
- Hook windshield 1 into area A.
- Mount and tighten screws 2.

Remaining screws on chassis	
M5	5 Nm (3.7 ft·lb _f)

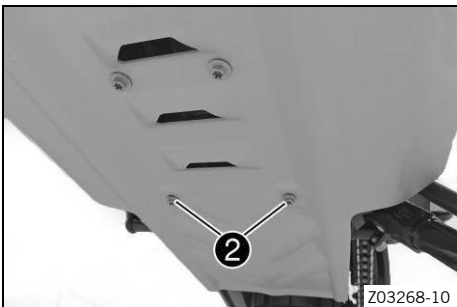
- Mount and tighten screws 3.

Remaining screws on chassis	
M5	5 Nm (3.7 ft·lb _f)

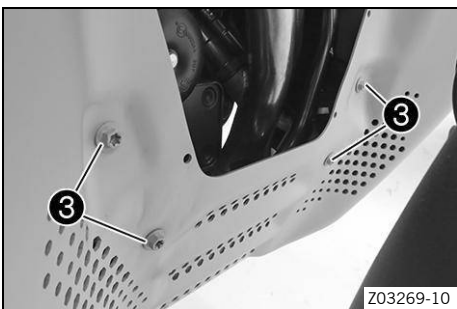
13.29 Removing the skid plate



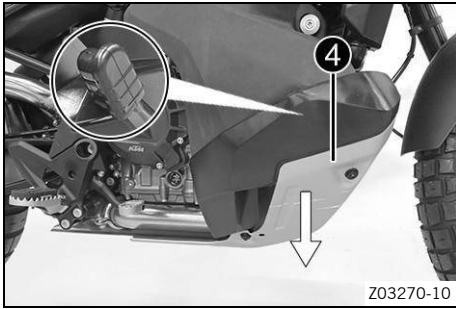
- Pull out hose 1 from the angle piece.



- Remove screws 2.

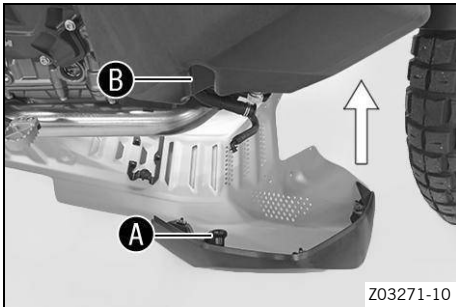


- Remove screws 3.

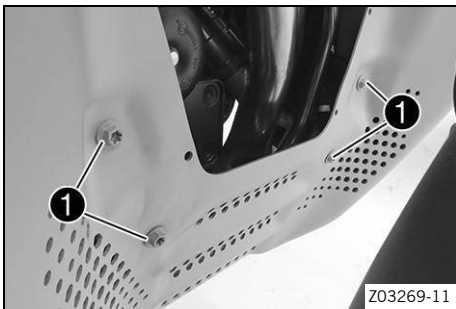


- Remove engine guard ④.
- Pull the damping rubbers out of the cut-outs on both sides.

13.30 Installing the skid plate

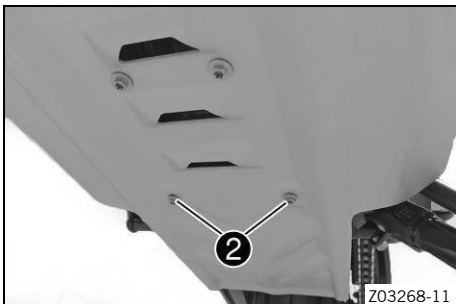


- Position skid plate.
✓ Damping rubbers ① engage in cut-outs ② on both sides.



- Mount screws ①, but do not tighten yet.

Screw, engine guard		
M6×10	10 Nm (7.4 ft·lb _f)	Loctite® 243

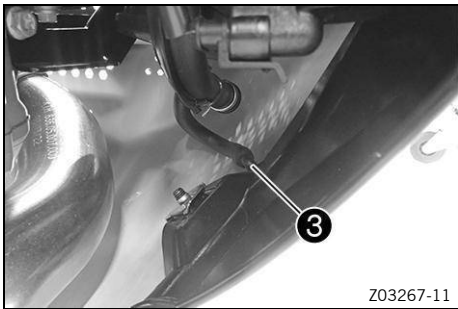


- Mount screws ②, but do not tighten yet.

Screw, engine guard	
M6×8	8 Nm (5.9 ft·lb _f)

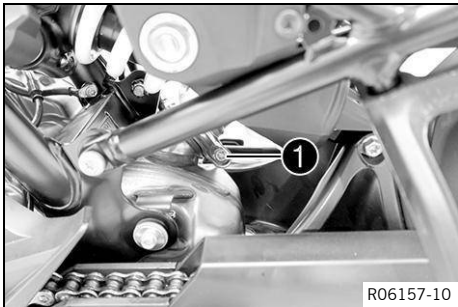
- Tighten all the screws of the skid plate.

Screw, engine guard	
M6×8	8 Nm (5.9 ft·lb _f)
Screw, engine guard	
M6×10	10 Nm (7.4 ft·lb _f) Loctite® 243

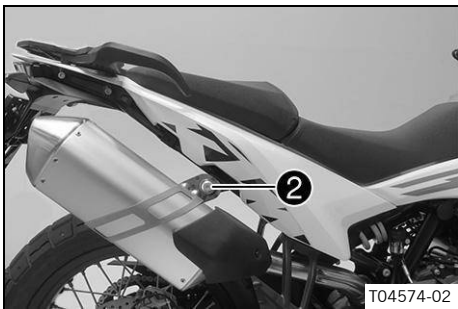


- Attach hose 3 to the angle piece.

13.31 Removing the muffler

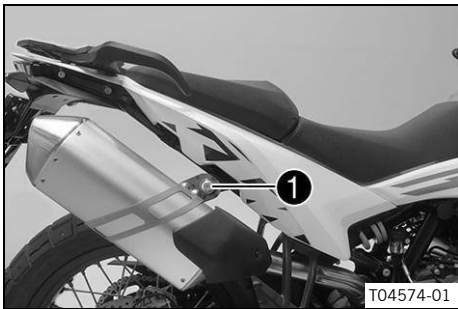


- Remove screw 1.
- Remove the clamp.



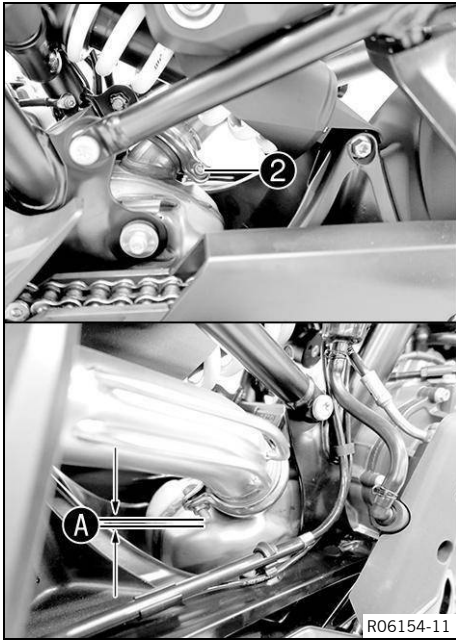
- Remove screw 2 with the washer.
- Take off the main silencer.

13.32 Installing muffler



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

Screw, exhaust clamp	
M6	8 Nm (5.9 ft·lb _f)

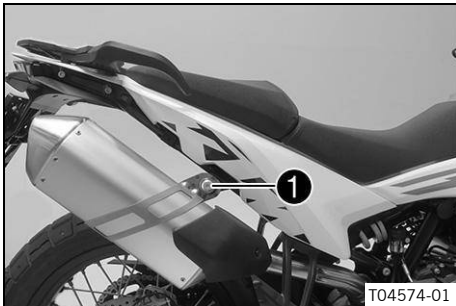


- Position the clamp.

Distance A	1 mm (0.04 in)
The clamp must not touch the brake line when the rear wheel suspension compresses.	

- Mount and tighten screw **2**.

Screw, presilencer exhaust clamp	
M6	8 Nm (5.9 ft·lb _f) Copper paste



- Tighten screw **1**.

Screw, exhaust clamp	
M6	8 Nm (5.9 ft·lb _f)

14.1 Anti-lock braking system



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 the vehicle manufacturer.
- Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.
- Maintain the specified tire pressure.
- Ensure that service work and repairs are performed professionally.

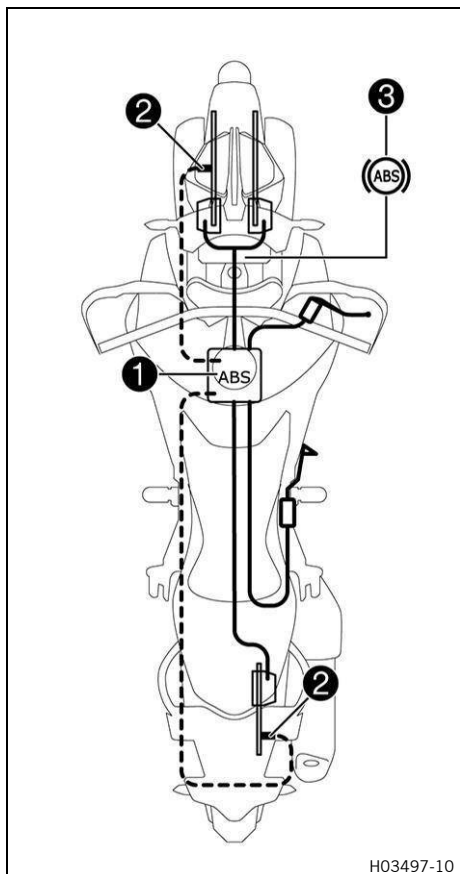


WARNING

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.



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 An incorrectly selected ABS mode makes it more difficult to control the vehicle. The ABS modes are each only suitable for certain conditions.

- Always select an ABS mode that suits the ground and the riding situation.

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

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

In riding modes **Street** and **Rain**, the ABS controls both wheels.

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

ABS can be configured in riding mode **Rally** (optional).

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

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



Note

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 tendency 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 light **3** 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 light goes out after starting off.

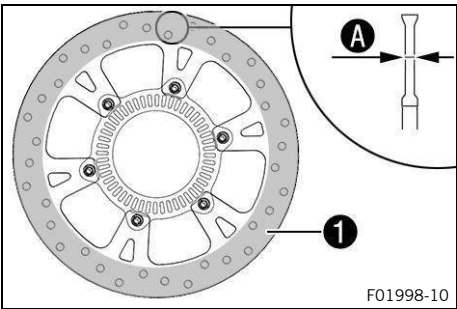
14.2Checking the brake discs



WARNING

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

- Make sure that worn-out brake discs are replaced immediately.



- Check the brake disc thickness of the front and rear brake disc at several places on the disc to see if they conform to measurement **A**.

Brake disc wear limit	
front	4.5 mm (0.177 in)
rear	4.5 mm (0.177 in)



Note

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

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

- Check the front and rear brake discs for damage, cracks, and deformation.
 - » If the brake disc shows signs of damage, cracks, or deformation:
 - Change the front brake discs. 
 - Change the brake discs on the rear brake. 

14.3 Checking the brake fluid level for the front brake



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.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.

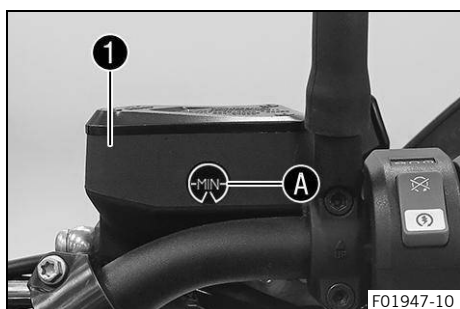


WARNING

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

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Check brake fluid level in brake fluid reservoir **1**.
 - » If the brake fluid level has dropped below **MIN** marking **A**:
 - Add brake fluid for the front brake.   (p. 118)

14.4 Adding brake fluid for the front brake



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.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

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

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

Health hazard 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 ingested.
- 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 accordance with the applicable regulations.



Note

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

Preparatory work

- Check that the brake pads of the front brake are secured.
 (p. 120)

Main work

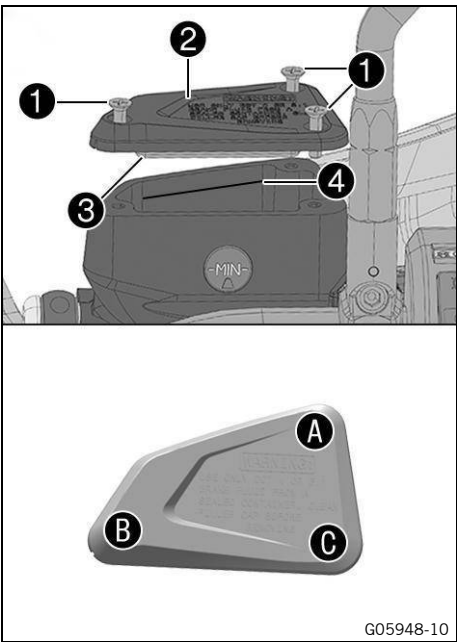
- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove screws **1**.
- Take off cover **2** with diaphragm **3**.
- Add brake fluid to mark **4**.
- Position cover **2** with diaphragm **3**.
- Mount screws **1** and tighten in the order **A B C**.

Brake fluid DOT 5.1  (p. 184)

Brake fluid reservoir cover, front

1 Nm
(0.7 ft·lb_f)

Immediately clean up any brake fluid that has overflowed or spilled with water.

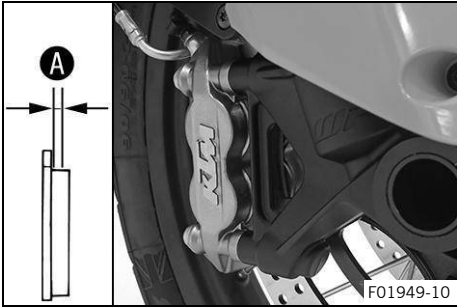


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14.5 Checking that the brake pads of the front brake are secured

**WARNING**
Danger of accidents Worn brake pads reduce the brake action.
– Make sure that worn brake pads are replaced immediately.

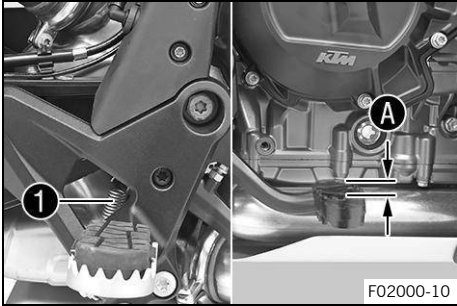
**WARNING**
Danger of accidents Damaged brake discs reduce the braking action.
If the brake linings are not changed in time, the brake lining carriers grind against the brake disc. As a consequence, the brake action is greatly reduced and the brake discs are destroyed.
– Check the brake linings regularly.



- Check all brake linings on both brake calipers to ensure they have the minimum thickness **A**.
- | | |
|--------------------------------|-----------------------|
| Minimum pad thickness A | ≥ 1 mm
(≥ 0.04 in) |
|--------------------------------|-----------------------|
- » If the minimum thickness is less than specified:
 - Change the front brake pads. 
 - Check all the brake linings on both the brake calipers for damage and cracking.
 - » If there is damage or cracking:
 - Change the front brake pads. 
 - Check that the brake pads are secured.
 - » If the brake pads are not secured correctly:
 - Secure brake pads, replace with new parts if necessary.

14.6 Checking the free travel of the brake pedal

**WARNING**
Danger of accidents The brake system fails in the event of overheating.
If there is no free travel on the brake lever, pressure builds up in the brake system.
– Set the free travel on the brake lever as specified.



- Detach spring **1**.
 - Move the brake pedal back and forth between the end stop and the brake pedal cylinder piston actuation and check free travel **A**.
- | | |
|----------------------------|--|
| Free travel of brake pedal | 3 mm ... 5 mm
(0.12 in ... 0.20 in) |
|----------------------------|--|
- » If the free travel does not meet the specifications:
 - Adjust the basic position of the brake pedal. 
-  (p. 74)
- Attach spring **1**.

14.7 Checking the brake fluid level for the rear brake



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.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.

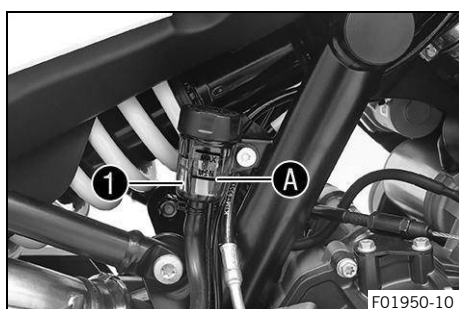


WARNING

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

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



- Stand the vehicle upright.
- Check brake fluid level in brake fluid reservoir ①.
 - » If the fluid level reaches the **MIN** marking A:
 - Add brake fluid for the rear brake. 🛠️ 📖 (p. 121)

14.8 Adding brake fluid for the rear brake 🛠️



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.
- Make sure that only clean, approved brake fluid from a tightly sealed container is used.



WARNING

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

If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

Health hazard 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 ingested.
- 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 accordance with the applicable regulations.



Note

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

Preparatory work

- Check that the brake pads of the rear brake are secured.
 (p. 122)

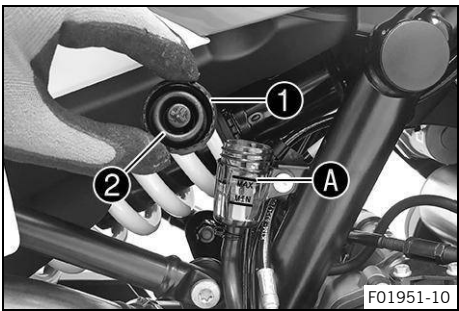
Main work

- Stand the vehicle upright.
- Remove screw cover **1** with insert and membrane **2**.
- Add brake fluid up to the **MAX** marking **A**.

Brake fluid DOT 5.1  (p. 184)

- Mount and tighten screw cover **1** with the insert and membrane **2**.

Immediately clean up any brake fluid that has overflowed or spilled using water.



14.9 Checking that the brake pads of the rear brake are secured



WARNING

Danger of accidents Worn brake pads reduce the brake action.

- Make sure that worn brake pads are replaced immediately.

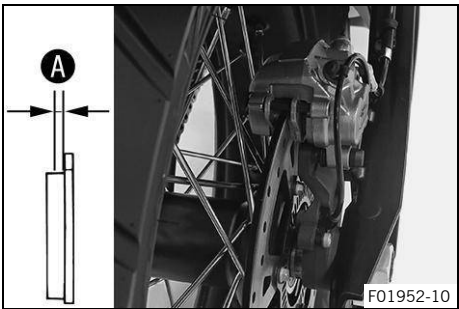


WARNING

Danger of accidents Damaged brake discs reduce the braking action.

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

- Check the brake linings regularly.



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

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

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

15.1 Removing the front wheel

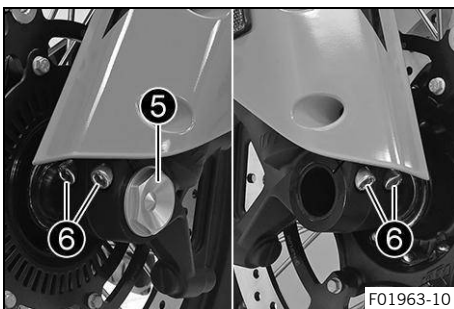
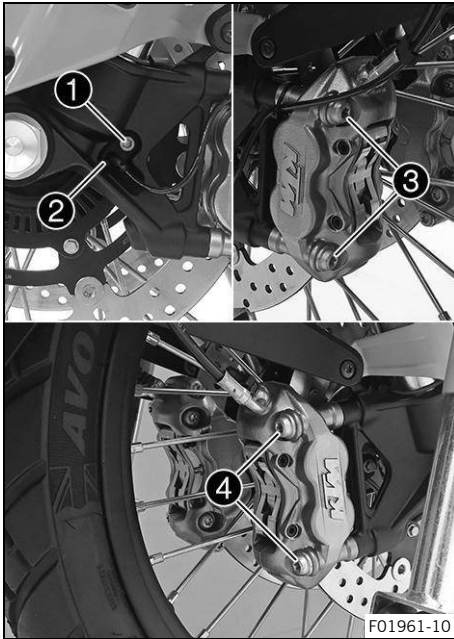
Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 94)
- Lift the motorcycle with the front lifting gear. (p. 94)

Main work

- Remove screw ① and pull wheel speed sensor ② out of the hole.
- Remove screws ③ and ④.
- Press back the brake linings by slightly tilting the left and right brake caliper laterally on the brake disc. Pull the left and right brake caliper carefully back from the brake disc and hang to the side.

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



- Loosen screw ⑤ by four turns.
- Loosen screws ⑥.
- Press on screw ⑤ to push the wheel spindle out of the fork shoe.
- Remove screw ⑤.

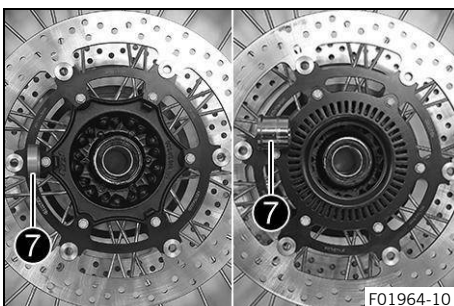


WARNING

Danger of accidents Damaged brake discs reduce the braking action.

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

- Hold front wheel and remove wheel spindle. Take the front wheel out of the fork.
- Remove spacers ⑦.



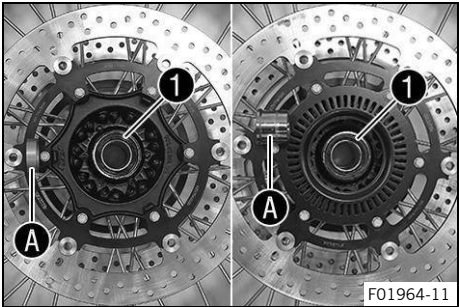
15.2 Installing the front wheel



WARNING

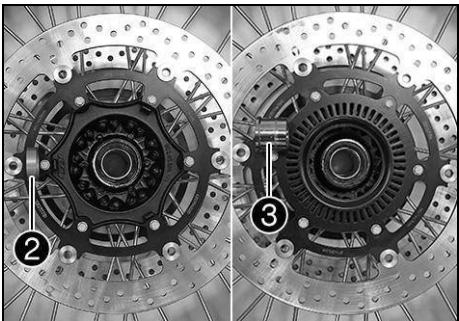
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

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



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the front wheel bearing. 
- Clean and grease radial shaft seal 1 and contact surfaces A on the spacers.

Long-life grease  (p. 183)

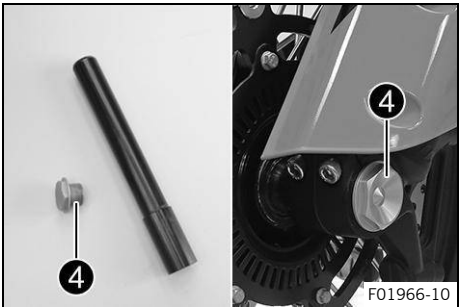


- Insert narrow spacer 2 on the right in the direction of travel.
- Insert wide spacer 3 on the left in the direction of travel.

i Note

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.



- Clean screw 4 and the wheel spindle.
 - Grease wheel spindle lightly.
- Long-life grease  (p. 183)
- Jack up the front wheel into the fork, position it, and insert the wheel spindle.

- Mount and tighten screw ④.

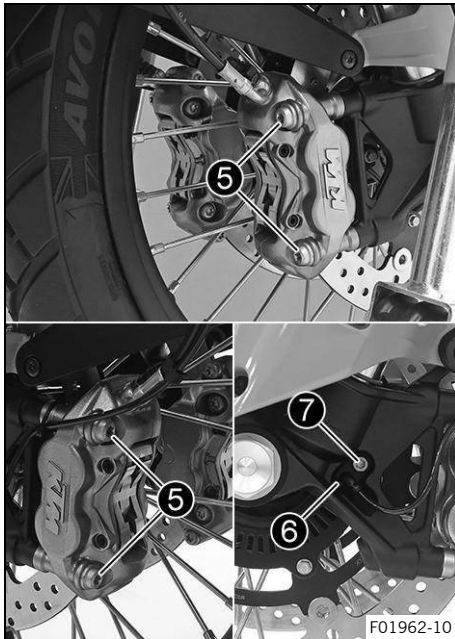
Screw, wheel spindle, front	
M25×1.5	45 Nm (33.2 ft·lb _f) Long-life grease



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 both brake calipers.
✓ The brake linings are correctly positioned.
- Mount screws ⑤ on both sides but do not tighten yet.

Screw, front brake caliper	
M10×1.25	45 Nm (33.2 ft·lb _f) Loctite® 243

- Operate the hand brake lever repeatedly until the brake pads are in contact with the brake disc and a pressure point is reached. Secure the hand brake lever in the activated position.
✓ The brake calipers straighten.
- Tighten screws ⑤ on both sides.

Screw, front brake caliper	
M10×1.25	45 Nm (33.2 ft·lb _f) Loctite® 243

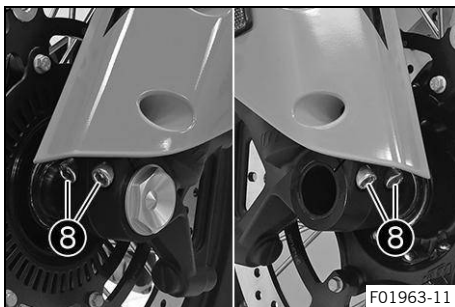
- Position wheel speed sensor ⑥ in the hole.
- Mount and tighten screw ⑦.

Screw, front wheel speed sensor	
M6	6 Nm (4.4 ft·lb _f)

- Remove the locking piece of the hand brake lever.
- Take the motorcycle off the front lifting gear. (p. 95)
- Remove the rear of the motorcycle from the lifting gear.
 (p. 94)

- Operate the front brake and compress the fork a few times firmly.
✓ The fork legs straighten.
- Tighten screws ⑧.

Screw, fork shoe	
M8	15 Nm (11.1 ft·lb _f)



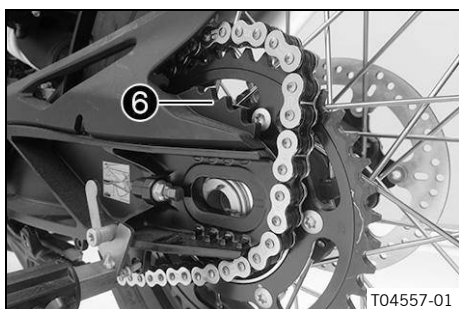
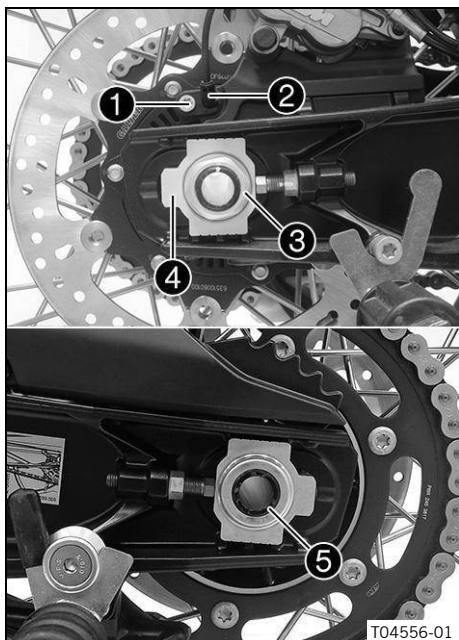
15.3 Removing the rear wheel

Preparatory work

- Raise the motorcycle with the rear lifting gear.  (p. 94)

Main work

- Manually press the brake caliper toward the brake disc to push back the brake pistons.
- Remove screw **1** and pull wheel speed sensor **2** out of the hole.
- Remove nut **3**. Remove chain tension adjuster **4**.
- Pull out wheel spindle **5** far enough to allow the rear wheel to be pushed forward.



- Push the rear wheel forward as far as possible. Take the chain off the rear sprocket and place it on chain sprocket guard **6**.

Protect the components against damage by covering them.

- Hold the rear wheel and remove wheel spindle.
- Pull the rear wheel back until the brake caliper bracket is suspended freely between the brake disc and rim.



WARNING

Danger of accidents Damaged brake discs reduce the braking action.

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

- Take the rear wheel out of the swingarm.

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

15.4 Installing the rear wheel

WARNING

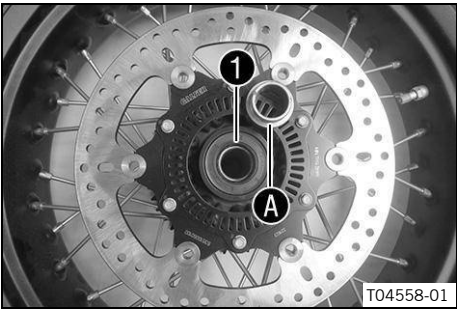
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

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

WARNING

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

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



- Main work**
- Check the rear hub damping rubber pieces. (p. 128)
 - Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
 - Remove spacer.
 - Clean and grease shaft seal ring **1** and contact surface **A** of the spacer.

Long-life grease (p. 183)

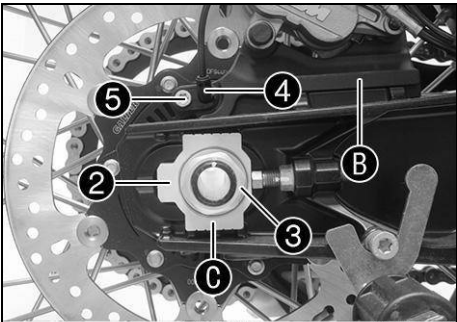
- Insert a spacer.
- Clean and grease the thread of the wheel spindle and nut.

Long-life grease (p. 183)

- Clean and lightly grease the wheel spindle.

Long-life grease (p. 183)

- Clean the contact areas on the brake caliper bracket and link fork.

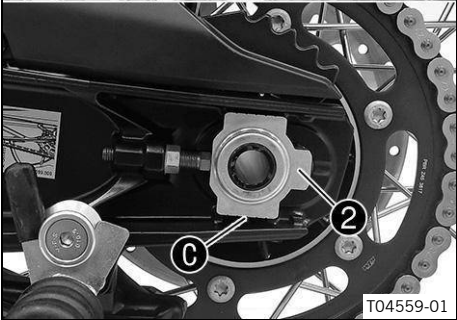


- Engage the thrust bearing of brake caliper bracket **B** and the link fork.
- Jack up the rear wheel into the link fork, position it, and insert the wheel spindle.
- ✓ The brake pads are positioned correctly.
- Place the chain on the sprocket.
- Position chain tension adjuster **2**. Mount nut **3** but do not tighten yet.

Mount the left and right chain tension adjuster in the same position.

- Make sure that chain adjusters **2** are fitted correctly on the adjusting screws. Tighten nut **3**.

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



Nut, wheel spindle, rear	
M25×1.5	90 Nm (66.4 ft·lb _r) Long-life grease

- Position wheel speed sensor ④ in the hole.
- Mount and tighten screw ⑤.

Screw, rear wheel speed sensor	
M6	6 Nm (4.4 ft·lb _f)

- Actuate the brake pedal repeatedly until the brake pads are in contact with the brake disc and a pressure point is achieved.

Reworking

- Check the chain tension. 📖 (p. 98)
- Remove the rear of the motorcycle from the lifting gear. 📖 (p. 94)

15.5 Checking the rear hub damping rubber pieces 🛠️

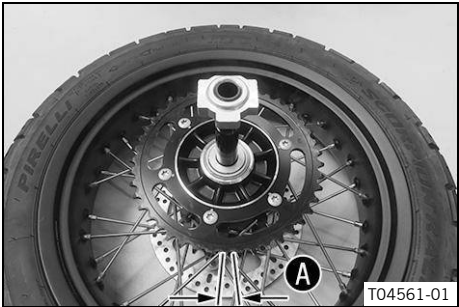
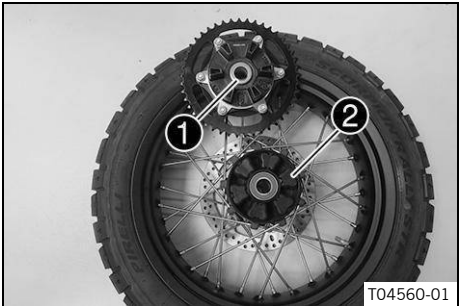
i Note
The engine power is transmitted from the rear sprocket to the rear wheel via the 6 damping rubber pieces. They eventually wear out during operation. If the damping rubber pieces are not changed in time, the rear sprocket carrier and the rear hub will be damaged.

Preparatory work

- Raise the motorcycle with the rear lifting gear. 📖 (p. 94)
- Remove the rear wheel. 🛠️ 📖 (p. 126)

Main work

- Check bearing ①.
 - » If the bearing is damaged or worn:
 - Change the bearing of the rear sprocket carrier. 🛠️
- Check damping rubber pieces ② of the rear hub for damage and wear.
 - » If the damping rubber pieces of the rear hub are damaged or worn:
 - Change all the damping rubber pieces of the rear hub.



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

Play of damping rubber pieces on rear wheel	≤ 5 mm (≤ 0.20 in)
Measure the play on the outside of the rear sprocket.	

- » If clearance A is larger than the specified value:
 - Change all the damping rubber pieces of the rear hub. 🛠️

Reworking

- Install the rear wheel. 🛠📖 (p. 127)
- Check the chain tension. 📖 (p. 98)
- Remove the rear of the motorcycle from the lifting gear. 📖 (p. 94)



15.6 Checking the tire condition

WARNING

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

- Ensure that damaged or worn tires are replaced immediately.

WARNING

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

- Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.

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 (124.3 mi)
-----------------	----------------------

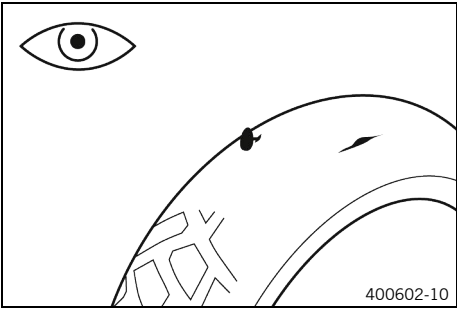
WARNING

Danger of accidents Different tire profiles on the front and rear wheels can make it more difficult to control the vehicle.

- Make sure that only tires of the same tread type are mounted to the front and rear wheel.

Note

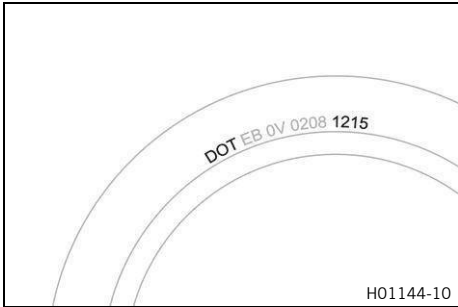
Tire type, tire condition, and tire pressure influence the braking and handling characteristics of the vehicle. Worn tires have a negative effect on handling characteristics, especially on wet surfaces.



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

Minimum tread depth	≥ 2 mm (≥ 0.08 in)
Observe the minimum tread depth required by national law.	

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



- Check the tire age.

Note

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.

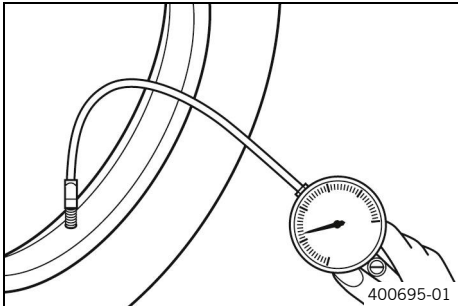
KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

- » If the tires are older than five years:
 - Change the tires.

15.7 Checking the tire pressure

Note

Low tire pressure leads to abnormal wear and the tire overheating.
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 solo / with passenger	
front	2.4 bar (34.8 psi)
rear	2.4 bar (34.8 psi)

Tire pressure full payload	
front	2.6 bar (37.7 psi)
rear	2.9 bar (42.1 psi)

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

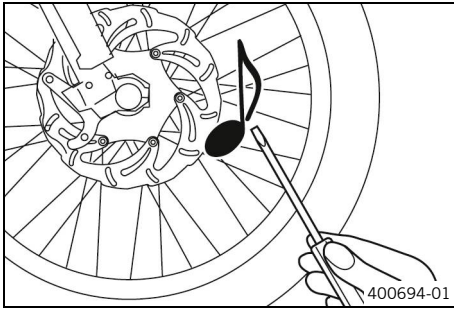
15.8 Checking the spoke tension

WARNING

Danger of accidents Incorrectly tensioned spokes impair the handling characteristic and can result in secondary damage.

If the spokes are too tight, they can break due to being overloaded.
Loose spokes can cause lateral or radial run-out in the wheel and other spokes will loosen as a result.

- Check the spoke tension regularly, especially on a new vehicle.



- Briefly tap each spoke with a screwdriver.

You should hear a high-pitched sound.



Note

The frequency of the sound depends on the spoke length and spoke diameter.

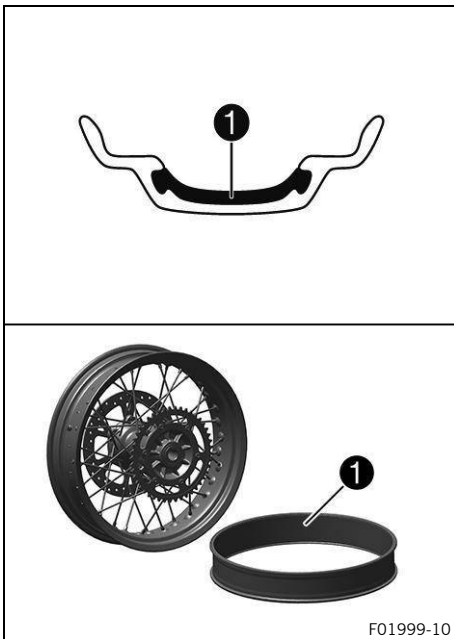
If spokes of the same length and diameter vibrate with a different tone, this is an indication that the spoke tensions differ.

- » If the spoke tension differs:

- Correct the spoke tension.



15.9 Tubeless tire system



This vehicle uses a tubeless tire system in which a rim seal band **1** is used instead of the conventional tube.

The advantage of the tubeless system is that there is no danger of a faulty tube. This greatly reduces the risk of a sudden loss in pressure.

The moments of inertia of these wheels are smaller than in conventional spoke wheels with a tube. This results in better handling and riding comfort.

The rigid rim design results in a spoke wheel that is almost entirely maintenance-free.

KTM recommends that the rim seal band be changed after 5 years at the latest, regardless of the actual state of wear.

15.10 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 the nearest authorized dealer and have the tire replaced.

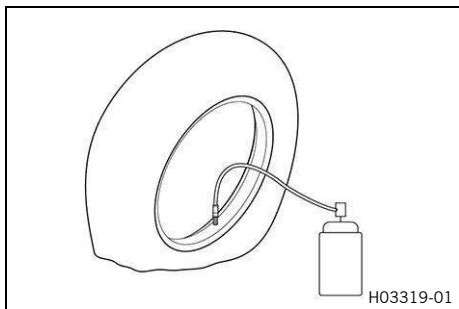


NOTE

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.

15 Wheels, tires



Tire repair spray should only be used in an emergency. Transporting the broken-down vehicle to the nearest authorized dealer is recommended instead of repairing it.

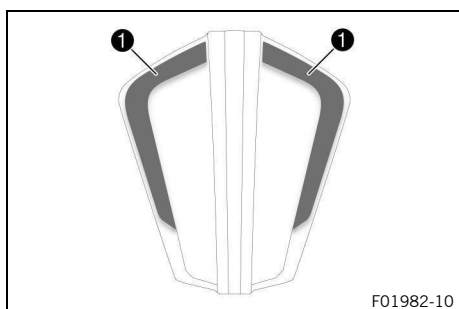
16.1 daytime running light



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 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 diagnostic tool when the menu item is not available, but the low beam is required.
- Note the legal regulations regarding the daytime running light.



The daytime running light ❶ (DRL) is integrated in the main headlight.

The daytime running light ❶ (DRL) must only be switched on when visibility conditions are good.

The daytime running light ❶ (DRL) is activated on the dashboard. This is controlled by the ambient light sensor in the combination instrument. When visibility conditions are good, the low beam is switched off and the daytime running light is switched on.



Note

The position light lights up with all types of lighting.

16.2 Removing the 12 V battery 🔧



WARNING

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.



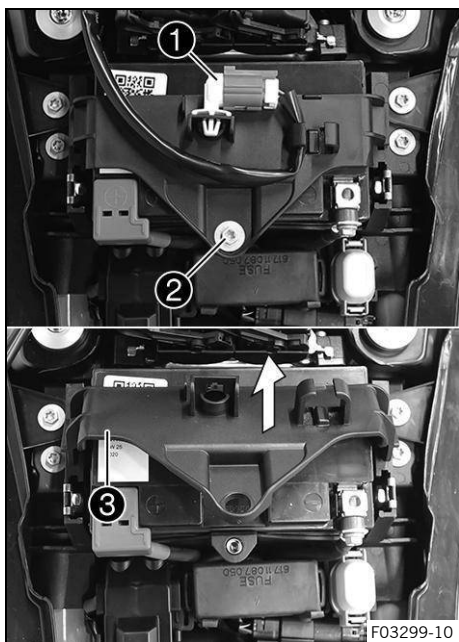
WARNING

Risk of injury Battery acid and battery gases cause 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 skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.

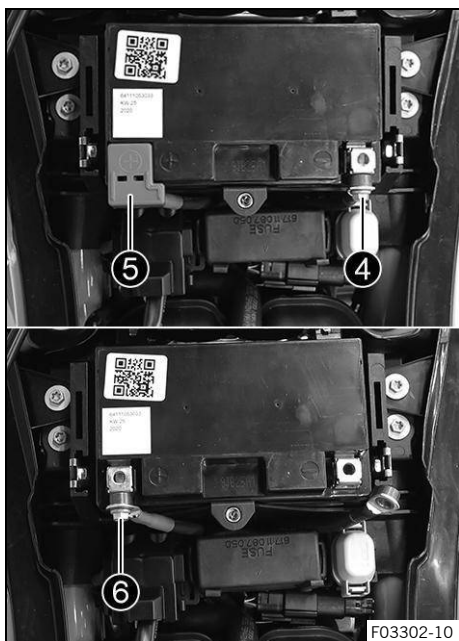
Preparatory work

- Remove the passenger seat. 📖 (p. 96)
- Remove the front rider's seat. 📖 (p. 96)
- Remove the battery cover. 📖 (p. 104)



Main work

- Pull the diagnostics connector **1** out of the bracket and hang to the side.
- Remove screw **2**.
- Raise the battery mounting element **3** at the rear and remove in upward direction.



- Disconnect negative cable **4** from the 12 V battery.
- Remove positive terminal cover **5**.
- Disconnect positive cable **6** from the 12-V battery.
- Pull the 12-V battery upwards and out of the battery compartment.

16.3 Installing the 12 V battery



WARNING

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

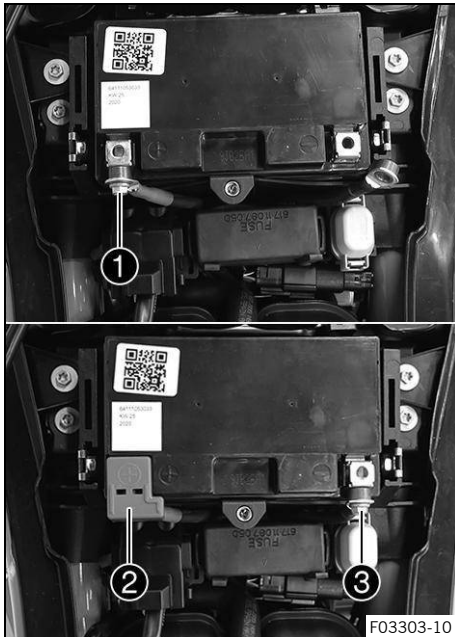
If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.

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

**WARNING**

Risk of injury Battery acid and battery gases cause 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 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.

**Main work**

- Position the 12-V battery in the battery compartment.

12 V battery (HTZ12A-BS)

✓ The battery terminals face opposite the direction of travel.

- Connect positive cable ① to the 12 V battery.

Screw, battery terminal	
-------------------------	--

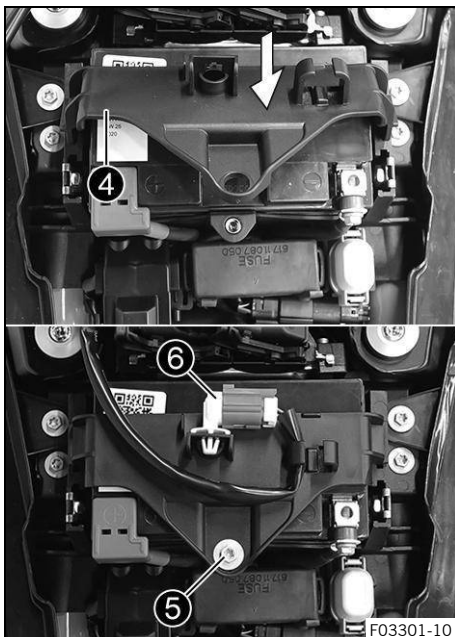
M6	4.5 Nm (3.32 ft·lb _f)
----	--------------------------------------

- Mount positive terminal cover ②.

- Connect negative cable ③ to the 12 V battery.

Screw, battery terminal	
-------------------------	--

M6	4.5 Nm (3.32 ft·lb _f)
----	--------------------------------------



- Hang battery holding bracket ④ to the left and right in the holding lugs and push downward at the rear.

- Mount and tighten screw ⑤.

Screw, battery holding bracket	
--------------------------------	--

M6	4.5 Nm (3.32 ft·lb _f)
----	--------------------------------------

- Position the diagnostics connector ⑥ in the holder.

Reworking

- Install the battery cover.  (p. 105)
- Mount the front rider's seat.  (p. 97)
- Mount the passenger seat.  (p. 96)
- Set the time and date.  (p. 66)

16.4 Charging the 12 V battery



WARNING

Risk of injury Battery acid and battery gases cause 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 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 accordance with the applicable regulations.



Note

Even when there is no load on the 12-V battery, it discharges steadily each day.

The state of charge 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.

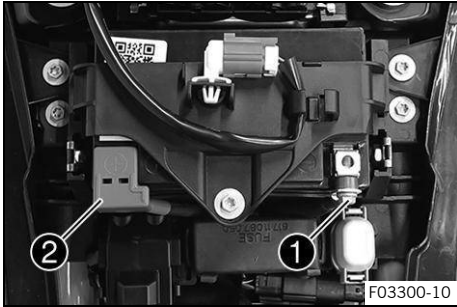
If the charging current, charging voltage, or charging time is exceeded, electrolyte escapes through the safety valves. This reduces the capacity of the 12-V battery.

If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and sulfating occurs, destroying the battery.

The 12 V battery is maintenance-free. The acid level does not have to be checked.

Preparatory work

- Remove the passenger seat.  (p. 96)
- Remove the front rider's seat.  (p. 96)
- Remove the battery cover.  (p. 104)



Main work

- Disconnect negative cable **1** from the 12 V battery to avoid damaging the onboard electronics.
- Remove positive terminal cover **2**.

- Connect a charger to the 12 V battery. Connect the battery charger to the mains connection.

EU battery charger TecMATE Optimate PRO (A61029974044)

Work material (Alternative 1 / 2)
--

USA/CA battery charger TecMATE Optimate PRO (A61029974144)

Work material (Alternative 2 / 2)
--

Battery charger TecMATE Optimate PRO UK (A61029974244)



Note

After charging, the battery charger can remain on the vehicle, ensuring that the battery voltage is maintained during the maintenance charging cycle.



Note

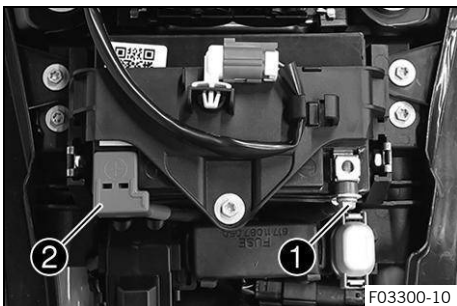
It is impossible to overcharge the 12-V battery using this battery charger.

- Disconnect the battery charger from the mains connection and the 12-V battery after charging.

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

If the 12 V battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.
--

Recharge the 12 V battery regularly when the motorcycle is not being used.	3 months
--	----------



- Mount positive terminal cover **2**.
- Connect negative cable **1** to the 12 V battery.

Screw, battery terminal

M6	4.5 Nm (3.32 ft·lb _r)
----	--------------------------------------

Reworking

- Install the battery cover.  (p. 105)
- Mount the front rider's seat.  (p. 97)
- Mount the passenger seat.  (p. 96)
- Set the time and date.  (p. 66)

16.5 Changing the main fuse



WARNING

- Fire hazard** Incorrect fuses overload the electrical system.
- Use only fuses with the prescribed amperage.
 - Do not bypass or repair fuses.



Note

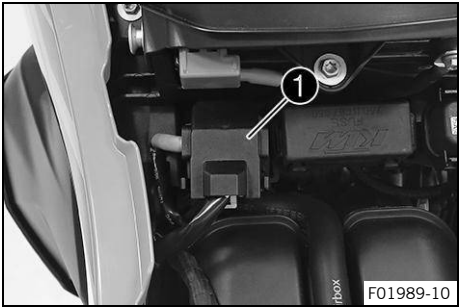
The main fuse protects all electrical power loads of the vehicle. The main fuse is under the passenger seat.

Preparatory work

- Remove the passenger seat.  (p. 96)

Main work

- Remove protection cap **1**.



- Remove faulty main fuse **2**.

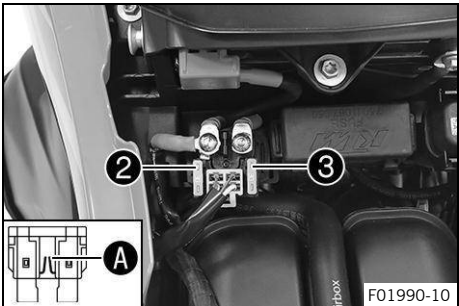


Note

A faulty fuse has a burned-out fuse wire **A**.
A spare fuse **3** is located in the starter relay.

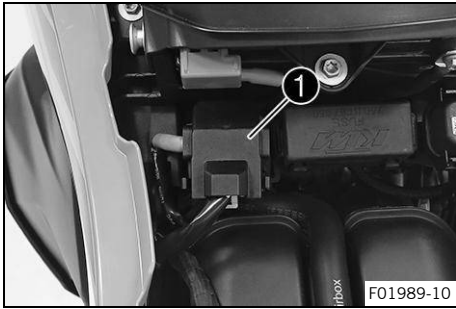
- Insert the main fuse.

Fuse (58011109130)



Tip

Insert a new spare fuse into the starter relay to have it available when needed.



- Mount protection cap ①.

Reworking

- Mount the front rider's seat. 📖 (p. 97)
- Mount the passenger seat. 📖 (p. 96)
- Set the time and date. 📖 (p. 66)



16.6 Changing the ABS fuses



WARNING

Fire hazard Incorrect fuses overload the electrical system.

- Use only fuses with the prescribed amperage.
- Do not bypass or repair fuses.



Note

Two fuses for the ABS are located under the passenger 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. 96)
- Remove the front rider's seat. 📖 (p. 96)

Main work

- Select one of the following alternatives.

To change the fuse of the ABS hydraulic unit:

- Remove the protection cap and fuse ①.



Note

A faulty fuse has a burned-out fuse wire **A**.

- Insert the spare fuse with the correct rating.

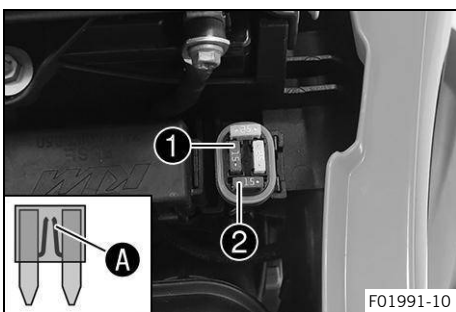
Fuse (75011088015)

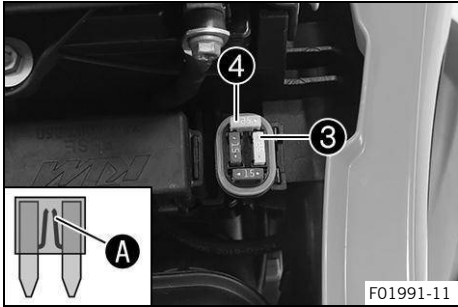


Tip

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 ❸.

Note
A faulty fuse has a burned-out fuse wire **A**.

- Insert the spare fuse with the correct rating.

Fuse (75011088025)

Tip
Insert spare fuse ❹ in the fuse box so that it is available if needed.

- Mount the protection cap.

Reworking

- Mount the front rider's seat. (p. 97)
- Mount the passenger seat. (p. 96)

16.7 Changing the fuses of individual electrical power consumers

WARNING

Fire hazard Incorrect fuses overload the electrical system.

- Use only fuses with the prescribed amperage.
- Do not bypass or repair fuses.

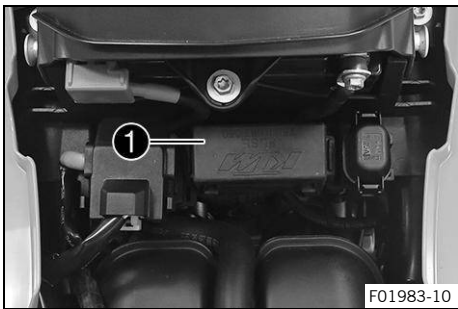
Note
The fuse box containing the fuses of individual electrical power consumers is located under the seat.

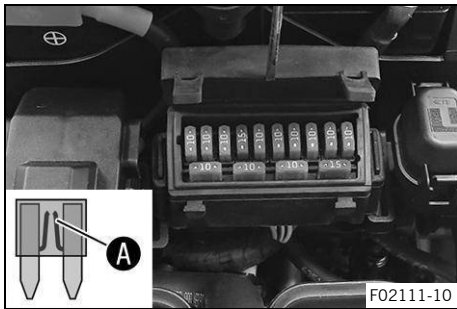
Preparatory work

- Remove the passenger seat. (p. 96)
- Remove the front rider's seat. (p. 96)

Main work

- Open fuse box cover ❶.





- Remove the faulty fuse.

Fuse 1 - 10 A - ignition, alarm system (optional)
Fuse 2 - 10 A - ignition, engine control unit, electronic fuel injection, fuel vapor retention system, lambda sensor, immobilizer
Fuse 3 - 10 A - fuel pump
Fuse 4 - 15 A - radiator fan
Fuse 5 - 10 A - horn, combination instrument, brake light
Fuse 6 - 10 A - high beam, low beam, position light, tail light, license plate lamp
Fuse 7 - 10 A - ACC1
Fuse 8 - 15 A - ACC2, HCU (optional)
Fuse 9 - 10 A - ABS control unit, diagnostics connector, 5D sensor, TPMS (function optional)
Fuse 10 - 10 A - light control unit
Fuse SPARE - 10 A – spare fuses
Fuse SPARE - 15 A – spare fuses

Note
A faulty fuse has a burned-out fuse wire **A**.

- Insert the spare fuse with the correct rating.

Fuse (75011088010)
Fuse (75011088015)

Tip
Put a spare fuse in the fuse box so that it is available if needed.

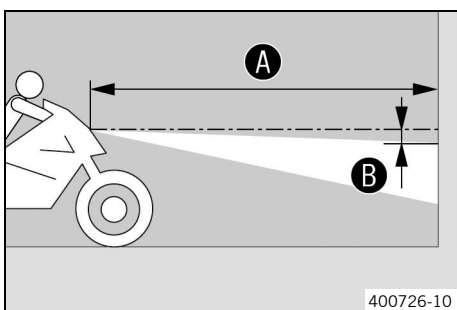
- Check the function of the electrical power consumer.
- Close the fuse box cover.

Reworking

- Mount the front rider's seat. (p. 97)
- Mount the passenger seat. (p. 96)



16.8 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.

Distance B	5 cm (2.0 in)
-------------------	------------------

- Position the vehicle upright at distance **A** from the wall and switch on the low beam.

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

- Get on the motorcycle, together with any luggage or passenger.
- Check the headlight adjustment.

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 headlight range.  (p. 142)

16.9 Adjusting the headlight range

Preparatory work

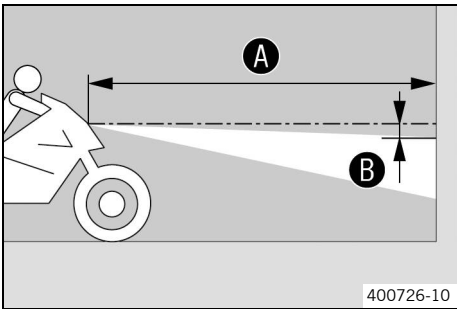
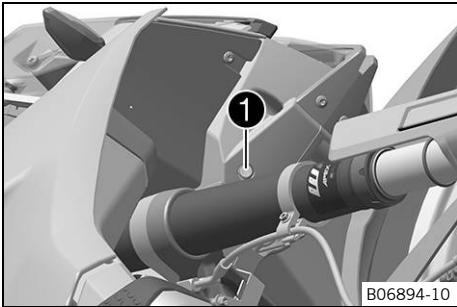
- Check the headlight setting.  (p. 141)

Main work

- Turn adjusting screw ❶ to adjust the headlight range.

**Note**

Turn clockwise to reduce the headlight range; turn counterclockwise to increase the headlight range.
If you have a payload, you may have to correct the headlight range.



- 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 ❷ under the first marking.

Distance ❷	5 cm (2.0 in)
------------	------------------

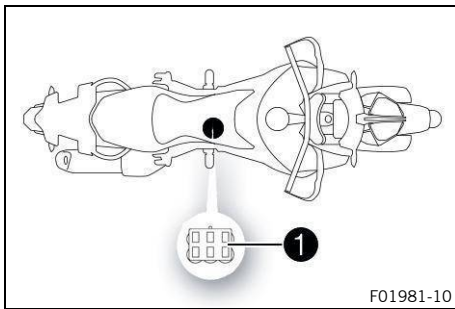
- Position the vehicle upright at distance ❶ from the wall and switch on the low beam.

Distance ❶	5 m (16 ft – 5 in)
------------	-----------------------

- Get on the motorcycle, together with any luggage or passenger.
- Check the headlight adjustment.

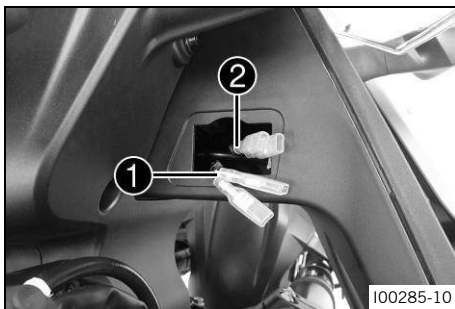
The light-dark boundary must lie exactly on the lower marking when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.

16.10 Diagnostic connector



Diagnostics connector ❶ is located under the battery cover.

16.11 Front ACC1 and ACC2



Installation location

- The front power supplies ACC1 ❶ and ACC2 ❷ are located in the right mask support.



Note

The front power supplies ACC1 and ACC2 can be accessed behind the cover of the right mask support.

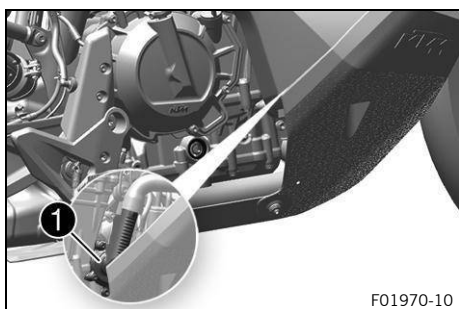
16.12 Rear ACC1 and ACC2



Installation location

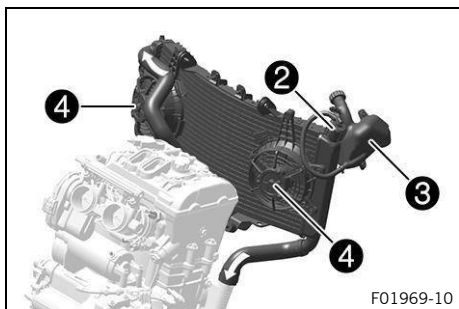
- The rear power supplies ACC1 ❶ and ACC2 ❷ are located under the passenger seat.

17.1 Cooling system



Water pump ① in the engine circulates the coolant. The pressure resulting from the warming of the cooling system is regulated by a valve in radiator cap ②. Heat expansion causes excess coolant to flow into compensating tank ③. When the temperature falls, this surplus coolant is sucked back into the cooling system. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

115 °C
(239.0 °F)



The coolant is cooled by the air stream and two radiator fans ④, which are activated at high temperature. The lower the vehicle speed, the lower the cooling effect. Dirty cooling fins also reduce the cooling effect.

17.2 Checking the coolant level in the compensating tank



WARNING

Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



WARNING

Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- 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.

Condition: The engine is cold, Radiator is completely full

- Park the motorcycle on a horizontal surface.



- Check the coolant level in the compensating tank.

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

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



Do not start the motorcycle.

- Fill/bleed the cooling system. 
- » If the coolant level in the reservoir is not correct, but the reservoir is not yet empty:
 - Correct the coolant level in the compensating tank.  (p. 145)



17.3 Correcting the coolant level in the compensating tank



WARNING

Health hazard Coolant is harmful to health.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event of contact with skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
- If coolant spills on to your clothing, change the clothing.
- Store coolant properly in a suitable container and keep out of the reach of children.



WARNING

Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.

- 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.

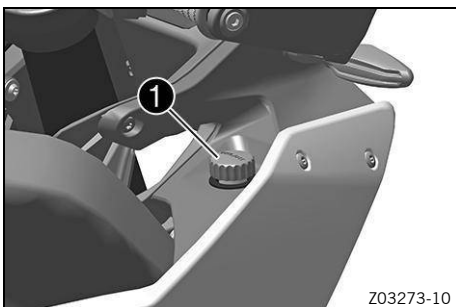
Condition: The engine is cold, Radiator is completely full

Preparatory work

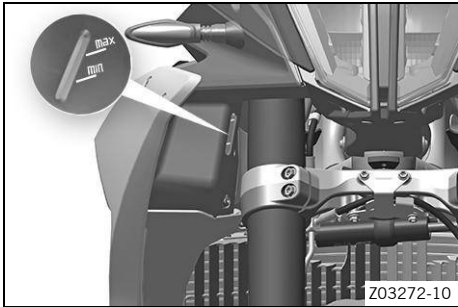
- Check the coolant level in the compensating tank.  (p. 144)

Main work

- Remove compensating tank cover **1**.



17 Cooling system



- Add coolant until the coolant reaches the specified level.

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

coolant	
Coolant  (p. 184)	1.60 l
Antifreeze protection to at least: -25 °C (-13.0 °F)	(0.423 liq. gal _{US})

- Mount cover of the compensating tank.

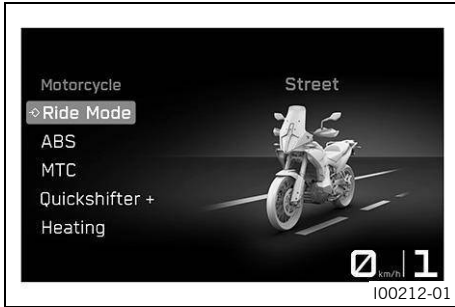
18.1 Ride Mode



WARNING

Danger of accidents An incorrectly selected ride mode makes it more difficult to control the vehicle. 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.



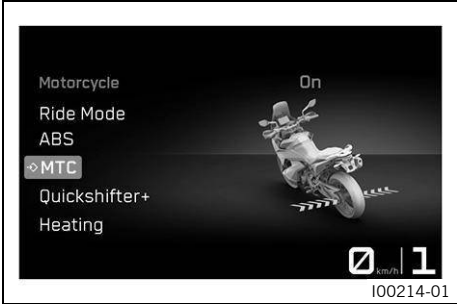
Various vehicle tunings can be selected in the combination instrument in the **Ride Mode** submenu. **Street**, **Rain**, **Offroad** and **Rally** are available (optional).

The most recently selected ride mode appears on the display.

The ride mode can also be changed while riding with the throttle grip closed.

Condition	Meaning
Street	Homologated performance with balanced response; the motorcycle traction control allows normal slip on the rear wheel.
Rain	Reduced homologated performance with soft response for improved rideability on surfaces with low road grip; the motorcycle traction control allows very little slip on the rear wheel.
Offroad	Reduced homologated performance for better rideability on unpaved roads; the motorcycle traction control allows high slip on the rear wheel.
Rally	Homologated performance and extremely direct response. The motorcycle traction control and the characteristics of the throttle response can be set individually.

18.2 Motorcycle traction control



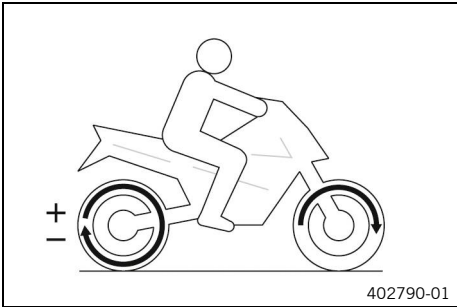
The motorcycle traction control (**MTC**) lowers the engine torque in case of loss of traction in the rear wheel. Depending on the riding mode  (p. 147), different amounts of slip are allowed when traction control is activated.

i Note
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.

i Note
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.

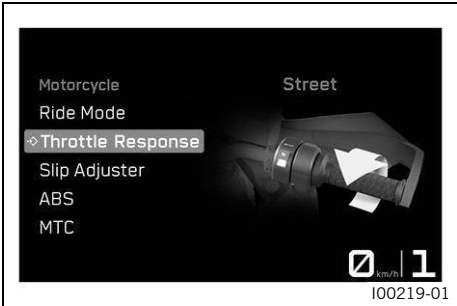
18.3 slip adjustment (optional)



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 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.

i Note
The slip adjustment is only available in **Rally** riding mode (optional).

18.4 Throttle Response (optional)



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.

i Note
Throttle response is only available in riding mode **Rally** (optional).

Condition	Meaning
Street	Balanced response.
Rally	Extremely direct response
Offroad	Very direct response.

19.1 Checking the engine oil level

Note

Oil consumption depends on the riding style and the operating conditions.

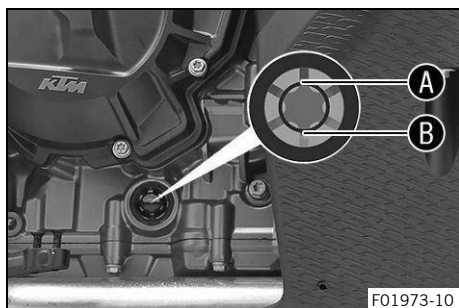
Condition: The engine is at operating temperature

Preparatory work

- Stand the motorcycle upright on a level surface.

Main work

- Check the engine oil level.



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

The engine oil must be between marking **A** and marking **B** of the oil level viewer.

- » If the engine oil level is below the marking **B**:
 - Add engine oil.  (p. 151)
- » If the engine oil level is above the marking **A**:
 - Correct engine oil level.



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



WARNING

Danger of scalding Engine and gear oil heat up 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 accordance with the applicable regulations.

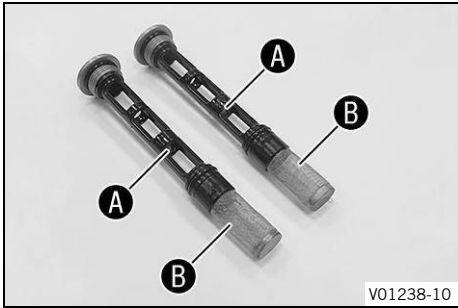
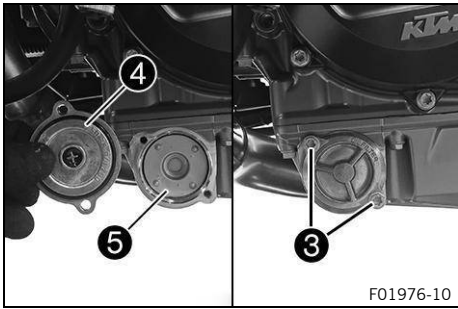
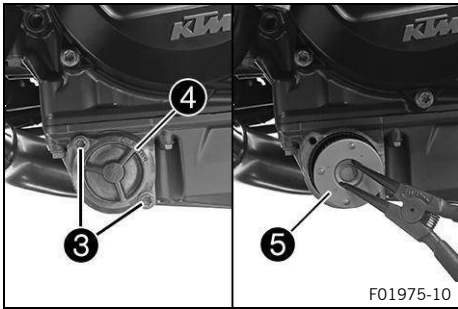
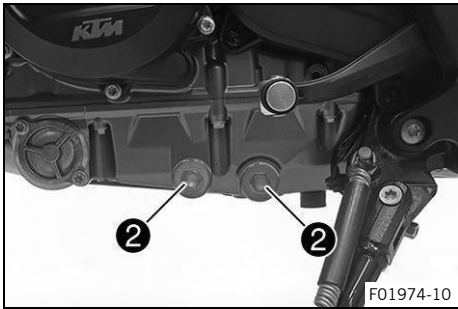
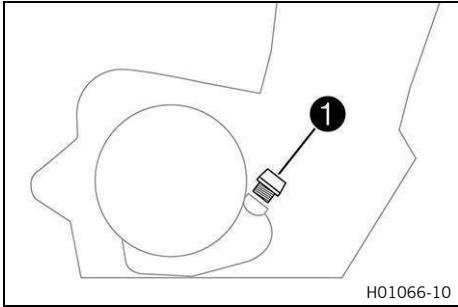


Note

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

Preparatory work

- Remove the skid plate.  (p. 112)



Main work

- Rest the motorcycle on its side stand on a horizontal surface.
- Position an appropriate container under the engine.
- Remove filler plug 1 with the O-ring.

- Remove oil drain plugs 2 along with the magnets, the O-rings, and the oil screens.

- Remove screws 3. Take off oil filter cover 4 with the O-ring.
- Pull oil filter 5 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 5.

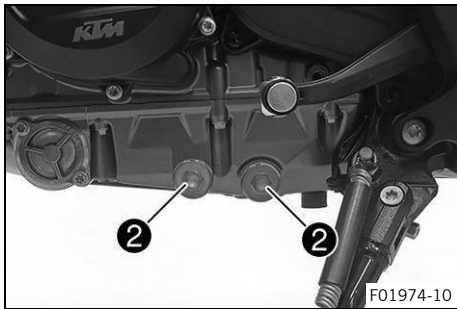
Only insert the oil filter by hand.

- Oil the new O-ring of the oil filter cover. Position oil filter cover 4.
- Mount and tighten screws 3.

Screw, oil filter cover

M5	6 Nm (4.4 ft·lb _r)
----	-----------------------------------

- Thoroughly clean magnets A and oil screens B of the oil drain plugs.



- Mount the oil drain plugs **2** with magnets and new seal rings, and tighten.

Plug, oil screen	
M20×1.5	20 Nm (14.8 ft·lb _f)

- Fill up with engine oil at the clutch cover.

engine oil	
engine oil (SAE 10W/50) (p. 183) fully synthetic	2.8 l (0.74 liq. gal _{US})

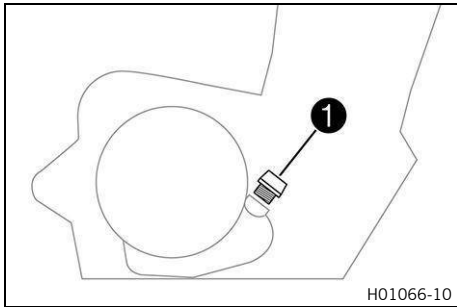
- Mount and tighten oil plug **1** with O-ring.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



- Start the engine and check it for leaks.

Reworking

- Check the engine oil level. (p. 149)
- Install the skid plate. (p. 113)

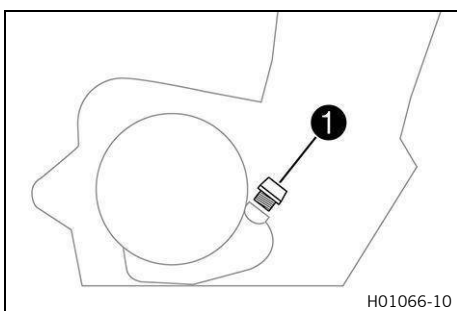


19.3 Adding engine oil



Note

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



Main work

- Remove oil plug **1** with O-ring.
- Fill engine oil to the middle of the level viewer.

engine oil (SAE 10W/50) (p. 183) fully synthetic
--



Note

In order to achieve optimal engine oil performance, it is not advisable to mix different engine oils.
KTM recommends changing the engine oil if necessary.

- Mount and tighten oil plug ❶ with O-ring.



DANGER

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

- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check it for leaks.

Reworking

- Check the engine oil level. 📖 (p. 149)

19.4 Checking the free travel of the clutch lever



NOTE

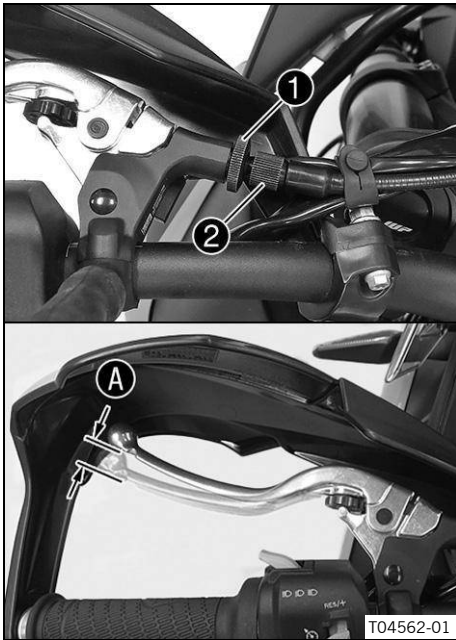
Clutch damage If there is no free travel by the clutch lever, the clutch will slip.

- Check the free travel of the clutch lever each time before using the vehicle.
- Adjust the free travel of the clutch lever when necessary in accordance with the specification.



- Check the clutch lever for smooth operation.
 - Move the handlebar to the straight-ahead position.
 - Pull the clutch lever until resistance is perceptible, and determine the free travel ❶.
- | | |
|-------------------------------|-------------------|
| Free travel ❶ of clutch lever | 5 mm
(0.20 in) |
|-------------------------------|-------------------|
- » If the free travel of the clutch lever does not meet specifications:
 - Set the free travel of the clutch lever. 🛠️ 📖 (p. 153)
 - Move the handlebar back and forth over the entire steering range.
- | |
|--|
| The free travel of the clutch lever must not change. |
|--|
- » If the free travel of the clutch lever changes:
 - Check the routing of the clutch cable.

19.5 Adjusting the free travel of the clutch lever



- Move the handlebar to the straight-ahead position.
- Loosen lock nut ①.
- Adjust the free travel A by turning adjusting screw ②.

Free travel A of clutch lever	5 mm (0.20 in)
-------------------------------	-------------------

- Tighten lock nut ①.



20.1 Cleaning the motorcycle



NOTE
Material damage Components can be damaged or destroyed if a high-pressure cleaner is used incorrectly. The high pressure forces water into the electrical components, socket connectors, clutch cables, and bearings, etc.

Too high a pressure can cause malfunctions and destroy components.

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

Minimum distance	60 cm (23.6 in)
------------------	--------------------

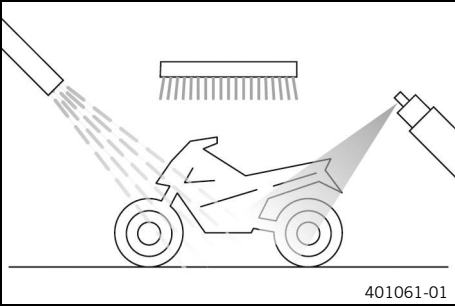


NOTE
Environmental hazard Hazardous substances cause environmental damage.

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



Note
To maintain the value and appearance of the motorcycle over a long period, clean it regularly.
Avoid direct sunshine when cleaning the motorcycle.



- Seal the exhaust system to prevent water from entering into it.
- Remove loose dirt first with a soft jet of water.
- Spray the heavily soiled parts with a standard commercial motorcycle cleaner and clean using a brush.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

Environmentally neutral universal cleaning agent
 (p. 185)



Note
Use warm water containing standard motorcycle cleaner and a soft sponge.
If the vehicle was driven in road salt, clean it with cold water. Warm water enhances the corrosive effects of salt.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the cover from 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 pads and the brake discs.

- After cleaning, ride the vehicle a short distance until the engine warms up.



Note

The heat produced causes water to evaporate at inaccessible locations in the engine and on the brake system.

- After the motorcycle has cooled off, lubricate all moving parts and pivot points.



WARNING

Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

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

- Clean the chain. (p. 97)
- Treat bare metal (except for brake discs and the exhaust system) with an anticorrosive.

Preserving materials (p. 185)

- Treat all painted parts with a mild paint polish.

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

Shine spray with beading effect (p. 185)

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

Cleaning agents for plastics, glass, lacquers, metals, windshields and visors (p. 185)

- Oil the ignition and steering lock, tank lock, and seat lock.

Universal oil spray (p. 183)



20.2 Checks and maintenance steps for winter operation



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

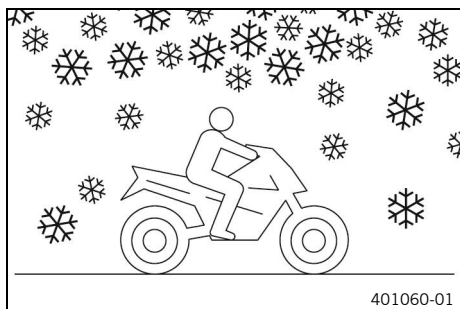
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

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



Note

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



- Clean the motorcycle. 📖 (p. 154)
- Clean brake system.

After every trip on salted roads, thoroughly wash the brake calipers and brake pads with cold water and dry carefully. This should be done after the parts are cooled down and while they are installed.

After riding on salted roads, thoroughly clean the vehicle with cold water and dry it well.



Note

Warm water enhances the corrosive effects of salt.

- Treat the engine, swingarm, and all other bare or zinc-plated parts (except the brake discs) with a wax-based anticorrosive.

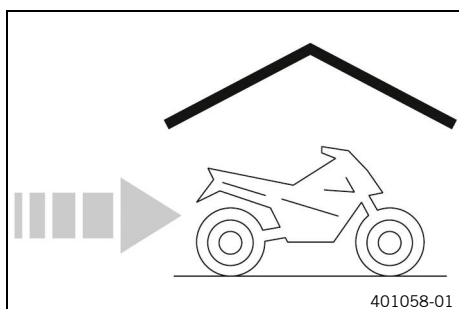
Corrosion inhibitor must not come into contact with the brake discs. This would severely lower the braking effect.

- Clean the chain. 📖 (p. 97)

21.1 Storage

**Note**

If you plan to garage the motorcycle for a longer period, perform the following steps or have them performed. 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 (workshops less busy). In this way, you can avoid long workshop waiting times at the start of the new season.



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

Fuel additive (p. 182)

- Refuel. (p. 88)

**Tip**

Fill the fuel tank completely as specified, using fuel with the lowest possible ethanol content.

- Clean the motorcycle. (p. 154)
- Change the engine oil and the oil filter, clean the oil screens. (p. 149)
- Check the coolant fill level and antifreeze.
- Check the tire pressure. (p. 130)
- Remove the 12 V battery. (p. 133)

Storage temperature of the 12 V battery without direct sunlight	0 °C ... 35 °C (32.0 °F ... 95.0 °F)
---	---

- Charge the 12 V battery. (p. 136)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

**Note**

KTM recommends jacking up the motorcycle.

- Raise the motorcycle with the rear lifting gear. (p. 94)
- Lift the motorcycle with the front lifting gear. (p. 94)

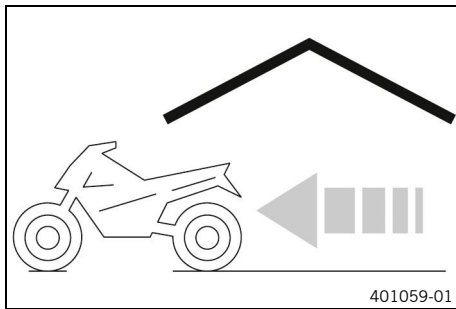
Cover the motorcycle with a tarp or cover that is permeable to air.

Do not use non-porous materials because they prevent humidity from escaping and thus cause corrosion.

**Note**

Avoid running the engine of a motorcycle in storage 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. 95)
- Remove the rear of the motorcycle from the lifting gear.  (p. 94)
- Charge the 12 V battery.   (p. 136)
- Install the 12 V battery.   (p. 134)
- Set the time and date.  (p. 66)
- Perform checks and maintenance measures when preparing for use.  (p. 80)
- Take a test ride.

22.1 troubleshooting

Cause	Finding	Remedy
The engine does not turn over when the start button is actuated	Operating error 12 V battery discharged Fuse 1 , 2 or 3 blown Main fuse blown Combination switch cable damaged No ground connection present on the starter motor	– Carry out the starting procedure.  (p. 80) – Charge the 12 V battery.  –  (p. 136) – Check the open-circuit current.  – Change the fuses of individual electrical power consumers.  (p. 140) – Change the main fuse.  (p. 138) – Check the combination switch cable for damage. – Check the ground connection.
The engine only turns over if the clutch lever is pulled	The vehicle is in gear The vehicle is in gear and the side stand is folded out	– Shift the transmission into neutral . – Shift the transmission into neutral .
The engine turns but does not start	Operating error Lack of fuel Fuse 3 blown Quick-lock coupling not joined Fuel taps on the fuel tank cover closed Malfunction in the electronic fuel injection Throttle opened while starting	– Carry out the starting procedure.  (p. 80) – Refuel.  (p. 88) – Change the fuses of individual electrical power consumers.  (p. 140) – Join quick-lock couplings. – Open the fuel taps on the fuel tank cover. – Read out the fault memory using the diagnostics tool.  – When starting, DO NOT open the throttle. – Carry out the starting procedure.  (p. 80)
Engine has too little power	Air filter is very dirty Fuel screen is very dirty Fuel filter is very dirty Malfunction in the electronic fuel injection	– Remove the air filter.  – Install the air filter.  – Change the fuel screen. – Check the fuel pressure.  – Read out the fault memory using the diagnostics tool. 
Engine overheats	Too little coolant in cooling system Radiator fins very dirty Foam formation in the cooling system Buckled or damaged radiator hose Thermostat defective Fuse 4 blown Defect in radiator fan system	– Check the transmission and cooling system for leaks.  – Check the coolant level in the compensating tank.  (p. 144) – Clean the radiator fins. – Drain the coolant.  – Fill/bleed the cooling system.  – Change the radiator hose.  – Check the thermostat.  – Change the fuses of individual electrical power consumers.  (p. 140) – Check the radiator fan system. 

Cause	Finding	Remedy
The malfunction indicator light lights up or flashes	Malfunction in the electronic fuel injection	– Read out the fault memory using the diagnostics tool. 
N The idling speed indicator lamp does not light up when the transmission is in neutral	Gear position sensor not programmed	– Read out the fault memory using the diagnostics tool. 
The engine dies during the trip	Lack of fuel Fuse 1 , 2 or 3 blown	– Refuel.  (p. 88) – Change the fuses of individual electrical power consumers.  (p. 140)
The ABS warning light lights up	ABS fuse blown Large difference in wheel speeds of the front and rear wheels Wheel speed sensor wheel bent or damaged Wheel speed sensor damaged Malfunction in ABS	– Change the ABS fuses.  (p. 139) – Stop the vehicle, switch off the ignition, and start it again. – Check the wheel speed sensor wheel for damage.  – Check the wheel speed sensor for damage.  – Read out the ABS fault memory using the diagnostic tool. 
High oil consumption	Engine vent hose bent The engine oil level is too high The engine oil is too thin (low viscosity)	– Route the vent hose without bends or change it if necessary. – Check the engine oil level.  (p. 149) – Change the engine oil and the oil filter, clean the oil screens.   (p. 149)
Headlight and position light are not functioning	Fuse 6 blown	– Change the fuses of individual electrical power consumers.  (p. 140)
Turn signal, brake light, and horn are not functional	Fuse 5 blown	– Change the fuses of individual electrical power consumers.  (p. 140)
Time is not displayed or not correctly displayed	Fuse 1 blown	– Change the fuses of individual electrical power consumers.  (p. 140)
12 V battery discharged	Ignition was not switched off when vehicle was parked The 12-V battery is not being charged by the alternator	– Charge the 12 V battery.   (p. 136) – Check the charging voltage. 
The dashboard shows nothing on the display	Fuse 1 or 2 blown	– Change the fuses of individual electrical power consumers.  (p. 140) – Set the time and date.  (p. 66)

23.1 Engine

23.1.1 Technical data - engine

Design	2-cylinder 4-stroke in-line engine, water-cooled
Displacement	799 cm ³ (48.76 in ³)
Stroke	65.7 mm (2.587 in)
Bore	88 mm (3.46 in)
Compression ratio	12.5:1
Control	DOHC, 4 valves per cylinder controlled via cam lever, chain drive
Valve diameter, intake	36 mm (1.42 in)
Valve diameter, exhaust	29 mm (1.14 in)
Valve clearance, cold	
Intake at: 20 °C (68.0 °F)	0.10 mm ... 0.15 mm (0.0039 in ... 0.0059 in)
Exhaust at: 20 °C (68.0 °F)	0.15 mm ... 0.20 mm (0.0059 in ... 0.0079 in)
Crankshaft bearing	Plain bearing
big (bottom) end bearing	Plain bearing
Piston	Forged light alloy
Piston rings	1 compression ring, 1 lower compression ring, 1 oil ring with spring expander
Engine lubrication	Pressure circulation lubrication with 2 trochoidal pumps
Primary transmission	39:75
Clutch	Slipper clutch in oil bath/mechanically operated
Transmission	6 speed transmission, claw shift
Gear ratios	
1st gear	13:37
2nd gear	17:34
3rd gear	20:31
4th gear	22:28
5th gear	24:26
6th gear	23:22
Mixture formation	Electronic fuel injection
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V 400 W (0.536 hp)
Spark plug	NGK LMAR9AI-10

Plug gap of spark plug	1.0 mm ... 1.1 mm (0.039 in ... 0.043 in)
Cooling	Liquid cooling, permanent circulation of coolant by water pump
idle speed	1,600 rpm (26.67 Hz)
Starting aid	Starter motor

23.1.1.1 Coolant capacity

coolant	
Coolant  (p. 184)	1.60 l
Antifreeze protection to at least: -25 °C (-13.0 °F)	(0.423 liq. gal _{US})

23.1.1.2 Filling quantity of engine oil

engine oil	
engine oil (SAE 10W/50)  (p. 183)	2.8 l
fully synthetic	(0.74 liq. gal _{US})

23.2 Chassis

23.2.1 Technical data - chassis

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Suspension travel:	
front	200 mm (7.87 in)
rear	200 mm (7.87 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, floating brake disc
Brake discs - diameter	
front	320 mm (12.60 in)
rear	260 mm (10.24 in)
Brake disc wear limit	
front	4.5 mm (0.177 in)
rear	4.5 mm (0.177 in)
Tire pressure solo / with passenger	
front	2.4 bar (34.8 psi)

rear	2.4 bar (34.8 psi)
Tire pressure full payload	
front	2.6 bar (37.7 psi)
rear	2.9 bar (42.1 psi)
Final drive	16:45 Note Modifications to the transmission ratio are not permitted and can lead to malfunctions.
Chain	5/8 x 1/4" (520) X-ring
Steering head angle	64.1° (1.119 rad)
Wheelbase	1,509 mm (59.41 in)
Seat Height unloaded	
Lower position	840 mm (33.07 in)
Upper position	860 mm (33.86 in)
Ground clearance unloaded	233 mm (9.17 in)
Weight without fuel approx.	200 kg (440.9 lb)
Maximum permissible front axle load	175 kg (385.8 lb)
Maximum permissible rear axle load	275 kg (606.3 lb)
Maximum permissible total weight	450 kg (992.1 lb)

23.2.2 Technical data - tires

Tire front	Rear tire
90/90 R 21 M/C 54P M+S TL Pirelli Scorpion Rally STR	150/70 R 18 M/C 70P M+S TL Pirelli Scorpion Rally STR
The tires specified represent one of the possible series production tires. For alternative manufacturers, if any, contact an authorized manufacturer or qualified tire dealership. If local road approval regulations apply, these and the respective technical specifications must be observed.	

23.2.2.1 Fuel capacity

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95)  (p. 182)	20 l (5.3 liq. gal _{US})

Fuel reserve, approx.	
Super unleaded (ROZ 95)  (p. 182)	3 l (0.8 liq. gal _{US})

23.3 Electrics

23.3.1 Battery

12 V battery	HTZ12A-BS	Battery voltage: 12 V Nominal capacity: 10 Ah Maintenance-free
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23.3.2 Fuses

Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	75011088025	25 A
Fuse	58011109130	30 A

23.3.3 Lamps

Low beam/high beam	LED
Daytime running light/position light	LED
Dashboard illumination and indicator lights	LED
Brake/tail light	LED
License plate lighting	LED

23.4 Fork

23.4.1 Technical data - fork

Fork part number	A610C129W201102
Fork	WP APEX OC
Spring rate	
Medium (standard)	6.5 N/mm (37.12 lb _f /in)
Compression damping	
Standard	15 clicks
Rebound damping	
Standard	15 clicks
Fork length	855 mm (33.66 in)
Spring length with preload spacer(s)	493.5 mm (19.429 in)

23.4.2 Fork capacity

Fork oil per fork leg	
Fork oil (SAE 5)  (p. 183)	460 ±5 ml (15.55 ±0.17 fl. oz _{US})

23.5 Shock absorber

23.5.1 Technical data - shock absorber

Shock absorber part number	A661C451Y313102
Shock absorber	WP APEX
Rebound damping	
Standard	12 clicks
Spring preload – preload adjuster	
Standard	4 turns (1,440°)
Installation position	364 mm (14.33 in)
Spring length	188 mm (7.40 in)
Spring rate	
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	57 N/mm (325.5 lb _r /in)
Static sag	25 mm (0.98 in)
Riding sag	58 mm (2.28 in)
Gas assisted	20 bar (290 psi)

23.5.2 Shock absorber capacity

Shock absorber oil	
Shock absorber oil (50180751S1) (SAE 2.5)  (p. 184)	Fill to the maximum mark

23.6 Tightening torque

23.6.1 engine tightening torques

Hose clip, intake flange	M4	2.5 Nm (1.84 ft·lb _r)
Remaining screws for engine	M5	6 Nm (4.4 ft·lb _r)
Screw, gear position sensor	M5	5 Nm (3.7 ft·lb _r) Loctite® 243

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Screw, oil filter cover	M5	6 Nm (4.4 ft·lb _f)
Oil nozzle for piston cooling	M5	2 Nm (1.5 ft·lb _f)
Screw, cam lever axial lock	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, crankshaft position sensor	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, thermostat case	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Oil nozzle in cylinder head	M5	2 Nm (1.5 ft·lb _f)
Engine vent nozzle	M5	2 Nm (1.5 ft·lb _f)
Screw, shift drum retaining bracket	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, pressure plate	M5	3 Nm (2.2 ft·lb _f) Loctite® 243
Screw, shift shaft sensor	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Securing screw, balancer shaft	M5	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, swing angle sensor	M5	6 Nm (4.4 ft·lb _f) Loctite® 243
Remaining screws for engine	M6	10 Nm (7.4 ft·lb _f)
Screw, clutch pressure plate	M6	8 Nm (5.9 ft·lb _f)
Screw, oil pump cover	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Detent arm screw	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, upper guide rail	M6	8 Nm (5.9 ft·lb _f) Loctite® 243
Screw, clutch cover	M6×25	10 Nm (7.4 ft·lb _f)

Screw, clutch cover	M6×30	10 Nm (7.4 ft·lb _f)
Screw, clutch cover	M6×35	10 Nm (7.4 ft·lb _f)
Screw, engine case	M6×30	12 Nm (8.9 ft·lb _f)
Screw, engine case	M6×60	12 Nm (8.9 ft·lb _f)
Shift star screw	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, shift lever	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, starter motor	M6	10 Nm (7.4 ft·lb _f)
Stator screw	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, valve cover	M6	10 Nm (7.4 ft·lb _f)
Screw, water pump cover	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, water pump impeller	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Chain shaft screw, cylinder head	M6	10 Nm (7.4 ft·lb _f)
Screw, ignition cover	M6×30	10 Nm (7.4 ft·lb _f)
Screw, ignition cover	M6×35	10 Nm (7.4 ft·lb _f)
Screw, camshaft bearing bridge	M6	10 Nm (7.4 ft·lb _f)
Screw, timing chain shaft	M6	10 Nm (7.4 ft·lb _f)
Screw, bleeder flange	EJOT Altracs® – M6×12	8 Nm (5.9 ft·lb _f) Loctite® 243
Screw, shift shaft retaining bracket	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, main shaft bearing support	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, oil pump housing	M6	10 Nm (7.4 ft·lb _f)

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Screw, oil pan	M6×30	10 Nm (7.4 ft·lb _f)
Screw, oil pan	M6×35	10 Nm (7.4 ft·lb _f)
Screw, oil/water heat exchanger	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, ignition coil	M6	8 Nm (5.9 ft·lb _f)
Screw, freewheel ring	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, clutch release lever	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, clutch cable retaining bracket	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Nut, starter motor cable	M6	5 Nm (3.7 ft·lb _f)
Stator screw	M6	10 Nm (7.4 ft·lb _f)
Remaining screws for engine	M8	20 Nm (14.8 ft·lb _f)
Screw, engine case	M8×45	25 Nm (18.4 ft·lb _f) Long-life grease
Screw, engine case	M8×55	25 Nm (18.4 ft·lb _f) Long-life grease
Screw, engine case	M8×65	25 Nm (18.4 ft·lb _f) Long-life grease
Screw, engine case	M8×90	25 Nm (18.4 ft·lb _f) Long-life grease
Slide rail screw	M8	15 Nm (11.1 ft·lb _f) Loctite® 243
Stud, exhaust flange	M8	15 Nm (11.1 ft·lb _f) Loctite® 243
Exhaust flange nut	M8	15 Nm (11.1 ft·lb _f) Copper paste
Screw plug, locking screw	M8	15 Nm (11.1 ft·lb _f)

Screw, oil pump idler gear		M8	15 Nm (11.1 ft·lb _r) Loctite® 243
Oil nozzle for clutch lubrication		M8	5 Nm (3.7 ft·lb _r) Loctite® 243
Screw, conrod bearing M8×0.75 engine oil	1.		5 Nm (3.7 ft·lb _r)
	2.		15 Nm (11.1 ft·lb _r)
	3.		90° (1.57 rad)
Knock sensor screw		M8	20 Nm (14.8 ft·lb _r)
Screw with washer, engine case		M8×65	25 Nm (18.4 ft·lb _r)
Screw with washer, engine case		M8×90	25 Nm (18.4 ft·lb _r)
Screw, release for timing chain tensioner		M10×1	8 Nm (5.9 ft·lb _r)
Screw, cylinder head M10×1.25 engine oil	1.		5 Nm (3.7 ft·lb _r)
	2.		15 Nm (11.1 ft·lb _r)
	3.		90° (1.57 rad)
	4.		90° (1.57 rad)
Oil pressure sensor		M10×1	10 Nm (7.4 ft·lb _r)
Spark plug		M10	11 Nm (8.1 ft·lb _r)
Coolant temperature sensor		M10×1.25	10 Nm (7.4 ft·lb _r)
Screw plug, cam lever shaft		M10×1	8 Nm (5.9 ft·lb _r)
Screw plug, bearing support		M10×1	12 Nm (8.9 ft·lb _r) Loctite® 243
Screw, rotor		M12×1.5	90 Nm (66.4 ft·lb _r) Long-life grease
Screw plug, cylinder head oil drain		M12×1.5	15 Nm (11.1 ft·lb _r)
Screw plug, water jacket		M16×1.5	20 Nm (14.8 ft·lb _r) Loctite® 243

Nut, engine sprocket	M20×1.5	100 Nm (73.8 ft·lb _f) Loctite® 243
Nut, inner clutch hub	M20×1.5	135 Nm (99.6 ft·lb _f)
Plug, oil screen	M20×1.5	20 Nm (14.8 ft·lb _f)
Screw plug, timing chain tensioner	M24×1.5	25 Nm (18.4 ft·lb _f)
Screw plug, alternator cover	M24×1.5	8 Nm (5.9 ft·lb _f)
Screw plug, water pump drain hole	EJOT ALtracs® Plus – 60×14	8 Nm (5.9 ft·lb _f) Loctite® 243

23.6.2 Chassis tightening torques

Remaining screws on chassis	EJOT PT®	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT®	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT®	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT®	2 Nm (1.5 ft·lb _f)
Remaining screws on chassis	EJOT PT®	2 Nm (1.5 ft·lb _f)
Nut, valve	ISO 10V2	12 Nm (8.9 ft·lb _f) Loctite® 2701
Screw, tail light	EJOT PT®	1.5 Nm (1.11 ft·lb _f)
Brake fluid reservoir cover, front		1 Nm (0.7 ft·lb _f)
Compensating tank cover		1.1 Nm (0.81 ft·lb _f)
Nut, tire pressure sensor	ISO 10V2	12 Nm (8.9 ft·lb _f) Loctite® 2701
Remaining screws on chassis	M4	3 Nm (2.2 ft·lb _f)
Screw, fixed grip, left	M4	3 Nm (2.2 ft·lb _f)
Remaining nuts on chassis	M4	3 Nm (2.2 ft·lb _f)
Remaining screws on chassis	M4	3 Nm (2.2 ft·lb _f)

Remaining nuts on chassis	M5	5 Nm (3.7 ft·lb _r)
Remaining screws on chassis	M5	5 Nm (3.7 ft·lb _r)
Screw, foot brake lever stub	M5	10 Nm (7.4 ft·lb _r) Loctite® 243
Screw, side stand sensor	M5	2 Nm (1.5 ft·lb _r) Loctite® 243
Screw, trim	M5	3 Nm (2.2 ft·lb _r)
Screw, heat guard	M5	5 Nm (3.7 ft·lb _r) Loctite® 243
Screw, combination switch, left	M5	2 Nm (1.5 ft·lb _r)
Screw, combination switch, right	M5	5 Nm (3.7 ft·lb _r)
Screw, front sprocket cover	M5	5 Nm (3.7 ft·lb _r) Loctite® 243
Screw, combination instrument	M5	1 Nm (0.7 ft·lb _r)
Screw, air filter box	M5	3 Nm (2.2 ft·lb _r)
Screw, brake fluid reservoir for rear brake	M5	5 Nm (3.7 ft·lb _r) Loctite® 243
Screw, throttle twist grip	M5	3.5 Nm (2.58 ft·lb _r)
Screw, license plate holder	M5	5 Nm (3.7 ft·lb _r) Loctite® 243
Brake line holder on fork screw	M5	1 Nm (0.7 ft·lb _r)
Screw, lower rear panel	M5	3 Nm (2.2 ft·lb _r)
Screw, fender	M5×12	3 Nm (2.2 ft·lb _r)
Screw, instrument support on mask support, rear	M5	5 Nm (3.7 ft·lb _r)
Screw, instrument support on mask support, front	M5	5 Nm (3.7 ft·lb _r)
Screw, mask support center part	M5	3.5 Nm (2.58 ft·lb _r)
Screw, mask support cover	M5	3.5 Nm (2.58 ft·lb _r)

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Screw, fender	M5×12	3 Nm (2.2 ft·lb _f)
Screw, fuel level sensor	M5	3 Nm (2.2 ft·lb _f)
Screw, activated carbon filter on retaining bracket	M6	8 Nm (5.9 ft·lb _f)
Remaining nuts on chassis	M6	10 Nm (7.4 ft·lb _f)
Remaining screws on chassis	M6	10 Nm (7.4 ft·lb _f)
Screw, manifold clamp	M6	8 Nm (5.9 ft·lb _f) Copper paste
Screw, rear brake disc	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, front brake disc	M6	14 Nm (10.3 ft·lb _f) Loctite® 243
Screw, magnetic holder on side stand	M6	2 Nm (1.5 ft·lb _f) Loctite® 243
Screw, rear wheel speed sensor	M6	6 Nm (4.4 ft·lb _f)
Screw, ignition lock (tamper-proof screw)	M6	Tighten until the head tears off. Loctite® 243
Screw, front wheel speed sensor	M6	6 Nm (4.4 ft·lb _f)
Screw, ground wire on frame	M6	6 Nm (4.4 ft·lb _f)
Screw, clutch lever assembly	M6	5 Nm (3.7 ft·lb _f)
Screw, radiator bracket, bottom	M6	5 Nm (3.7 ft·lb _f)
Screw, 6-D sensor	M6	5 Nm (3.7 ft·lb _f)
Screw, seat lock	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, battery terminal	M6	4.5 Nm (3.32 ft·lb _f)
Screw, footrest bracket, rear	M6	9 Nm (6.6 ft·lb _f) Loctite® 243
Screw, fuel tank spoiler attachment	M6	3 Nm (2.2 ft·lb _f)

Screw, battery holding bracket	M6	4.5 Nm (3.32 ft·lb _r)
Screw, seat installation	M6	6 Nm (4.4 ft·lb _r)
Screw, ground wire on starter motor	M6	10 Nm (7.4 ft·lb _r)
Cable on starter motor screw	M6	5 Nm (3.7 ft·lb _r)
Screw, shift rod	M6	10 Nm (7.4 ft·lb _r) Loctite® 243
Screw, shift shaft deflector on shift shaft	M6	10 Nm (7.4 ft·lb _r) Loctite® 243
Nut, hand brake lever	M6	Attach torque to nut. 10 Nm (7.4 ft·lb _r)
Screw, front brake assembly	M6	5 Nm (3.7 ft·lb _r)
Nut, push rod, brake pedal	M6	6 Nm (4.4 ft·lb _r)
Nut, shift rod	M6	6 Nm (4.4 ft·lb _r)
Screw, brake cylinder on the rear brake system	M6	10 Nm (7.4 ft·lb _r) Loctite® 243
Screw, headlight mask	M6	10 Nm (7.4 ft·lb _r) Loctite® 243
Screw, engine guard	M6×8	8 Nm (5.9 ft·lb _r)
Screw, engine guard	M6×10	10 Nm (7.4 ft·lb _r) Loctite® 243
Fuel tank cover screw	M6×12	3 Nm (2.2 ft·lb _r)
Screw cap, fuel tank cover	M6	5 Nm (3.7 ft·lb _r) Loctite® 243
Battery cover attachment screw	M6	5 Nm (3.7 ft·lb _r)
Screw, fuel tank spoiler	M6	5 Nm (3.7 ft·lb _r)
Screw, cross member in rear	M6×13	10 Nm (7.4 ft·lb _r) Loctite® 243
Screw, cross member in rear	M6×12	6 Nm (4.4 ft·lb _r) Loctite® 243

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Fitting, chain guide	M6	10 Nm (7.4 ft·lb _f)
Screw, ABS module	M6	8 Nm (5.9 ft·lb _f)
Screw, brace for mask support center part	M6	3 Nm (2.2 ft·lb _f) Loctite® 243
Screw, mask support on steering head	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, headlight mask support	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, headlight	M6	3 Nm (2.2 ft·lb _f)
Screw, presilencer exhaust clamp	M6	8 Nm (5.9 ft·lb _f) Copper paste
Screw, front wheel speed sensor	M6	6 Nm (4.4 ft·lb _f)
Screw, exhaust clamp	M6	8 Nm (5.9 ft·lb _f)
Screw, fuel pump	M6	6 Nm (4.4 ft·lb _f)
Foot brake lever, fitting	M8	25 Nm (18.4 ft·lb _f) Loctite® 2701
Remaining nuts on chassis	M8	25 Nm (18.4 ft·lb _f)
Remaining screws on chassis	M8	25 Nm (18.4 ft·lb _f)
Screw, footrest bracket, rear	M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, top triple clamp	M8	15 Nm (11.1 ft·lb _f)
Screw, bottom triple clamp	M8	12 Nm (8.9 ft·lb _f)
Screw, fork shoe	M8	15 Nm (11.1 ft·lb _f)
Handlebar clamp screw	M8	20 Nm (14.8 ft·lb _f)
Screw, steering damper on triple clamp	M8	8 Nm (5.9 ft·lb _f) Loctite® 243
Screw, steering damper on holder	M8	8 Nm (5.9 ft·lb _f) Loctite® 243

Screw, steering stem		M8	20 Nm (14.8 ft·lb _f) Loctite® 243
Nut, manifold on cylinder head	M8 Copper paste	Tighten the nuts evenly. Do not bend the metal.	13 Nm (9.6 ft·lb _f)
Screw, presilencer on frame		M8	15 Nm (11.1 ft·lb _f) Loctite® 243
Screw, main silencer fastening		M8	15 Nm (11.1 ft·lb _f)
Screw, engine fixing arm linkage bracket		M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, shift lever		M8	25 Nm (18.4 ft·lb _f) Loctite® 2701
Screw, spring holder plate on the side stand bracket		M8	15 Nm (11.1 ft·lb _f) Loctite® 2701
Pin, rear brake caliper		M8	22 Nm (16.2 ft·lb _f) Loctite® 243
Screw, grab handle		M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Securing bolt for brake pads		M8	10 Nm (7.4 ft·lb _f)
Screw, passenger seat bracket		M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, engine guard frame		M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Subframe screw		M8	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, foot brake lever spring		M8	12 Nm (8.9 ft·lb _f) Loctite® 2701
Nut, rear sprocket screw		M8	35 Nm (25.8 ft·lb _f) Loctite® 2701
Screw, handguard		M8	25 Nm (18.4 ft·lb _f)
Screw, steering damper on triple clamp		M8	8 Nm (5.9 ft·lb _f) Loctite® 243

23 Technical specifications

Remaining nuts on chassis	M10	45 Nm (33.2 ft·lb _f)
Remaining screws on chassis	M10	45 Nm (33.2 ft·lb _f)
Screw, front brake caliper	M10×1.25	45 Nm (33.2 ft·lb _f) Loctite® 243
Screw, front footrest bracket	M10×30	45 Nm (33.2 ft·lb _f) Loctite® 243
Screw, handlebar mount	M10	45 Nm (33.2 ft·lb _f) Loctite® 243
Screw, side stand	M10	40 Nm (29.5 ft·lb _f) Loctite® 243
Banjo bolt, brake line	M10×1	25 Nm (18.4 ft·lb _f)
Screw, front footrest bracket	M10×40	45 Nm (33.2 ft·lb _f) Loctite® 243
Screw, front footrest bracket	M10×65	45 Nm (33.2 ft·lb _f) Loctite® 243
Engine mounting bolt	M10	45 Nm (33.2 ft·lb _f) Loctite® 243
Subframe screw	M10	50 Nm (36.9 ft·lb _f) Loctite® 243
Screw, swingarm pivot	M12	100 Nm (73.8 ft·lb _f)
Top shock absorber screw	M12	80 Nm (59.0 ft·lb _f) Loctite® 2701
Bottom shock absorber screw	M12	80 Nm (59.0 ft·lb _f) Loctite® 2701
Oxygen sensor	M18×1.5	50 Nm (36.9 ft·lb _f)
Screw, steering head	M20×1.5	18 Nm (13.3 ft·lb _f)
Bushing, shock absorber support	M20LH×1.5	10 Nm (7.4 ft·lb _f) Long-life grease
Nut, wheel spindle, rear	M25×1.5	90 Nm (66.4 ft·lb _f) Long-life grease

Screw, wheel spindle, front	M25×1.5	45 Nm (33.2 ft·lb _f) Long-life grease
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24.1 Declarations of conformity



Note

The functional and equipment scope is model-dependent and may not include all wireless systems and application areas referred to.

JNS Instruments Ltd. hereby declares that the **320T1100** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.
Certification website: <https://www.ktm.com/320T1100>

KTM AG hereby declares that the **Immo641** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.
Certification website: <https://www.ktm.com/immo641>

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: <https://www.ktm.com/tpms>

25.1 Recycling



I02045-10

Further information is available at the following website.

Recycling information website: <https://www.quefairedemesdechets.fr>

A Technical terms

ABS	Anti-lock braking system	Safety system that prevents locking of the wheels when riding straight ahead without the influence of lateral forces.
DRL	Daytime Running Light	Light that increases the visibility of the vehicle during the day, but unlike the low beam is not focused and does not illuminate the road ahead.
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
	KTMconnect	System for remote communication with suitable cell phones and communication systems for telephony and audio
MTC	Motorcycle Traction Control	Additional engine management function, where the engine torque is reduced in the event of rear wheel slip.
OBD	On-board diagnosis	Vehicle system that monitors the specified parameters of the vehicle electronics.
	QUICKSHIFTER+	Engine electronics function for shifting up and down without clutch actuation

B Fuels

Super unleaded

Standards

- ROZ 95 → DIN EN 228

Fuel additive

Recommended supplier

MOTOREX®

- FUEL STABILIZER

C Operating supplies

Street chain spray

Recommended supplier

MOTOREX®

- CHAINLUBE ROAD STRONG

Fork oil

Recommended supplier

MOTOREX®

- RACING FORK OIL

Standards

- SAE 5 → SAE

Universal oil spray

Recommended supplier

MOTOREX®

- JOKER 440 SYNTHETIC

Copper paste

Long-life grease

Recommended supplier

MOTOREX®

- Bike Grease 2000

engine oil

Recommended supplier

MOTOREX®

- POWER SYNT 4T

Standards

→ JASO T903 MA2

- SAE 10W/50 → SAE

Properties

- fully synthetic

Shock absorber oil

Order details	
• 50180751S1	
Standards	
• SAE 2.5	→ SAE

Brake fluid DOT 5.1

Recommended supplier	
MOTOREX®	
• BRAKE FLUID DOT 5.1	
Standards	
→ DOT	

Coolant

Recommended supplier	
MOTOREX®	
• COOLANT M3.0	
Properties	
• Antifreeze protection to at least	-25 °C (-13.0 °F)

D Cleaning agents**Shine spray with beading effect**

Recommended supplier

MOTOREX®

- MOTO SHINE MS1

Chain cleaner

Recommended supplier

MOTOREX®

- CHAIN CLEAN

Preserving materials

Recommended supplier

MOTOREX®

- MOTO PROTECT

Cleaning agents for plastics, glass, lacquers, metals, windshields and visors

Recommended supplier

MOTOREX®

- QUICK CLEANER

Environmentally neutral universal cleaning agent

Recommended supplier

MOTOREX®

- MOTO CLEAN UNIVERSAL

E Icons

E.1 Symbol colors

E.1.1 Red symbols

Red symbols indicate a fault status that requires immediate intervention.

	The oil pressure warning light lights up red
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E.1.2 Yellow and orange symbols

Yellow and orange symbols indicate a malfunction status that requires prompt intervention. Active driving aids are also represented by yellow or orange symbols.

	Ice warning is active on the display.
	ABS warning light lights up yellow
	The ABS rear warning light lights up yellow
	The malfunction indicator light lights up yellow
	TC indicator lamp lights up/flashes yellow
	The cruise control system indicator lamp (optional) lights up yellow
	Hazard warning flasher indicator lamps
	General warning light lights up yellow

E.1.3 Green and blue symbols

Green and blue symbols convey information.

	The turn signal indicator light flashes green with a steady blinking interval
	The high beam indicator lamp lights up blue
	The cruise control system indicator lamp (optional) lights up green
	The idle indicator lamp lights up green

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