

Owner's manual 2025



Norden 901
Norden 901 Expedition
Item no.: 3402841en

FOR | PIONEERS

Congratulations on your decision to purchase a Husqvarna 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. 17)	Dealer stamp
Engine number  (p. 18)	

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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This document is valid for the following models:
Norden 901 EU (F2803Y1)
Norden 901 Expedition EU (F2803Y2)
Norden 901 Expedition BR (F2840Y2)



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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 Husqvarna Mobility workshop with any special tools required.



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 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.

2.3 Safe 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.



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

Any faults that affect safety must be rectified immediately at an authorized Husqvarna Mobility workshop.

Adhere to the information and warning labels on the vehicle.

2.4 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.

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

2.5 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.

2.6 Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the motorcycle sport, make sure that you use your motorcycle legally, be environmentally aware, and respect the rights of others.

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

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. Your authorized Husqvarna Mobility dealer will be glad to advise you.

2.7 Owner's manual

Read this owner's manual carefully and completely before making your first trip. The owner's manual contains useful information and many tips on how to operate, handle, and service your vehicle. Only then will you find out how to customize the vehicle ideally for your own use and how you can protect yourself from injury.



Tip

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

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

The owner's manual is an important component of the vehicle. If the vehicle is sold, the owner's manual must be downloaded again by the new owner.

The owner's manual can be downloaded 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 Husqvarna Mobility dealer and on the Husqvarna Mobility website. A printed copy can also be ordered from your authorized Husqvarna Mobility dealer.

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

2.8 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.

2.9 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.

3 Important notes

3.1 Manufacturer's warranty, implied warranty

The work specified in the service schedule must only be carried out in an authorized Husqvarna Mobility workshop and confirmed in the electronic proof of service, 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, technical accessories

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

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

The current accessories for your vehicle can be found on the Husqvarna Mobility website.

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the owner's manual. An incorrect suspension setting can lead to damage and breakage of chassis components.

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

Please adhere to the prescribed run-in times and service intervals at all times. Strictly adhering to this will ensure a much longer service life for your motorcycle.

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.

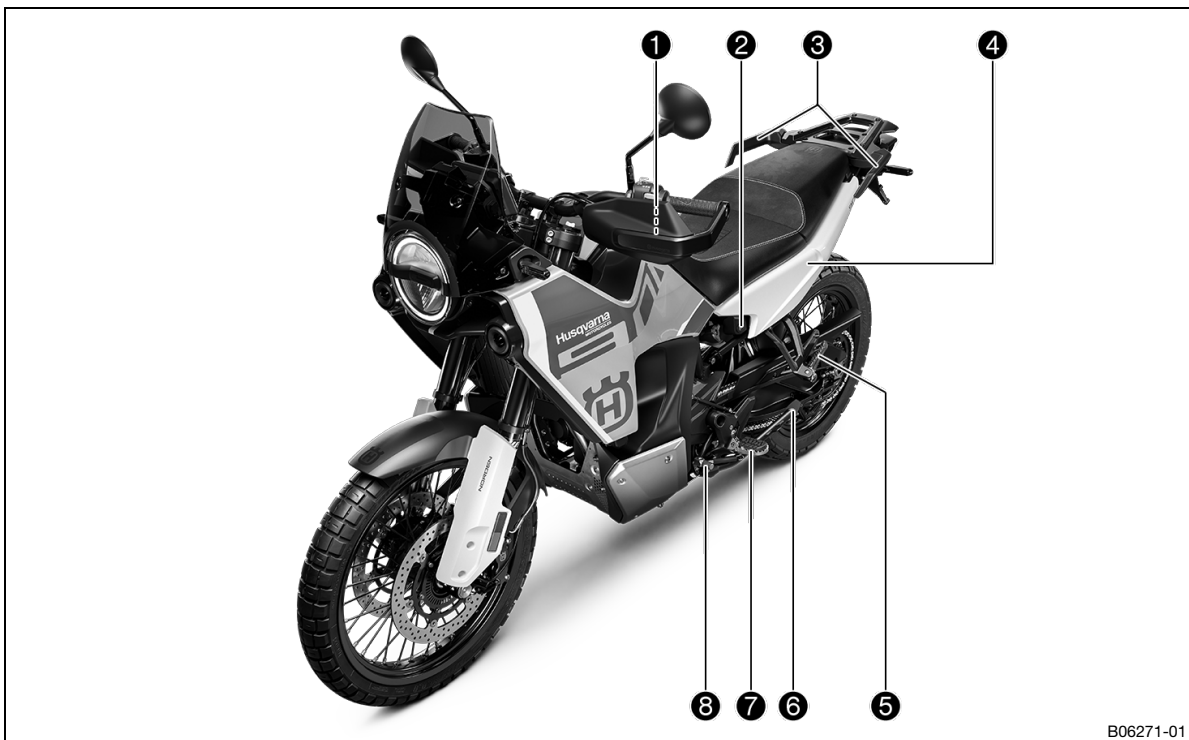
3.6 Customer service

Your authorized Husqvarna Mobility dealer will be happy to answer any questions you may have regarding your vehicle and Husqvarna Mobility.

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

International Husqvarna Mobility website: <https://www.husqvarna-motorcycles.com>

4.1 View of vehicle, front left (example)



B06271-01

- | | |
|-----------------------------|--------------------------------|
| ❶ Clutch lever 📖 (p. 19) | ❺ Passenger footpegs 📖 (p. 30) |
| ❷ Seat lock 📖 (p. 29) | ❻ Side stand 📖 (p. 31) |
| ❸ Grab handles 📖 (p. 29) | ❼ Rider footrests |
| ❹ Storage compartment, left | ❽ Gear shift lever 📖 (p. 30) |

4 View of the vehicle

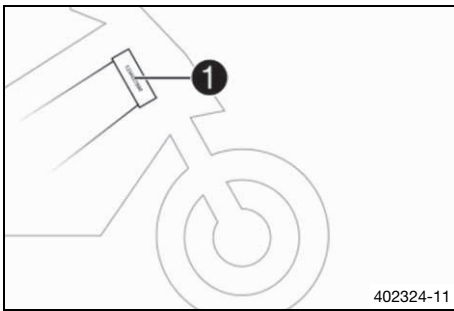
4.2 View of vehicle, rear right (example)



B06272-01

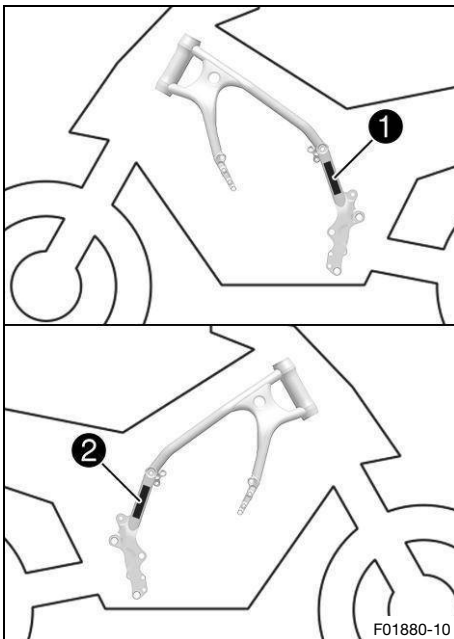
- | | |
|--|--|
| ① Storage compartment, right | ④ Socket for electrical accessories  (p. 24) |
| ② Light switch  (p. 20) | ⑤ Start button/kill switch  (p. 22) |
| ② Menu buttons  (p. 21) | ⑥ Handbrake lever  (p. 19) |
| ② Turn signal switch  (p. 21) | ⑦ Engine oil level viewer |
| ② Horn button  (p. 22) | ⑧ Brake pedal  (p. 30) |
| ③ Fuel tank cap | |

5.1 Vehicle identification number



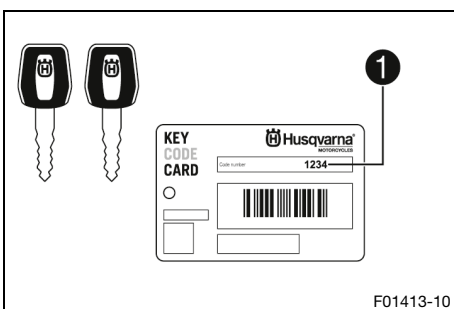
The vehicle identification number ❶ is stamped on the right-hand side of the steering head.

5.2 Type label



The type label ❶ is located on the frame on the left.
The type approval label for USA/Canada ❷ is attached to the frame on the right.

5.3 Key number



Key number ❶ for the ignition and steering lock is indicated on the key card.

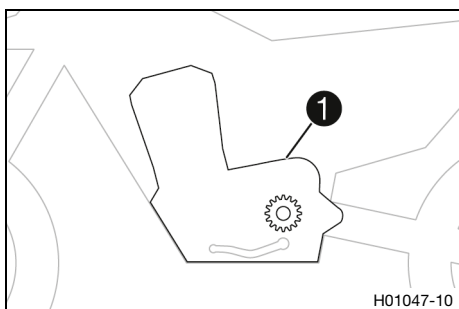


Note

The key number is required to order a spare key and should therefore be kept in a safe place.

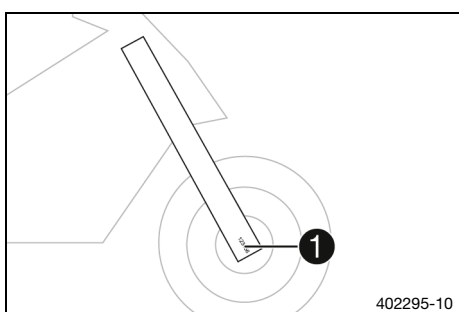
5 Serial number

5.4 Engine number



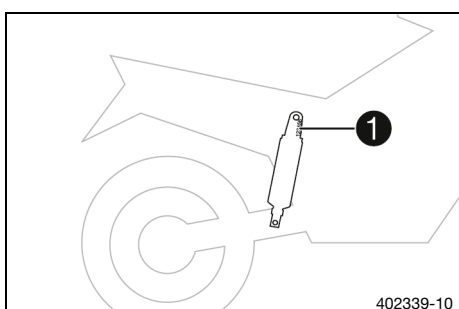
The engine number ❶ is stamped onto the engine case at the top.

5.5 Fork part number



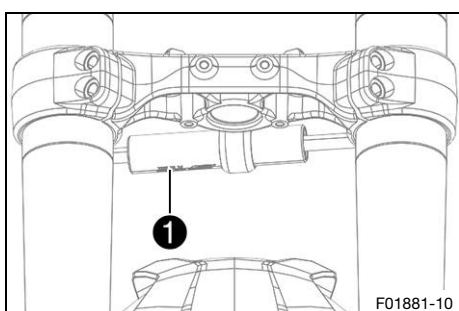
Fork part number ❶ is stamped on the inside of the fork shoe.

5.6 Shock absorber part number



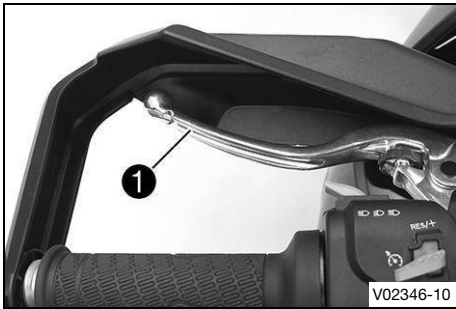
Shock absorber article number ❶ is attached the top of the shock absorber.

5.7 Steering damper article number



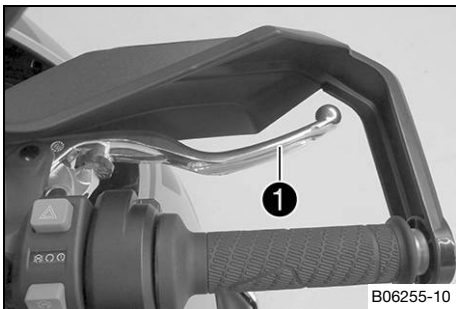
Steering damper article number ❶ is embossed on the underside of the steering damper.

6.1 Clutch lever



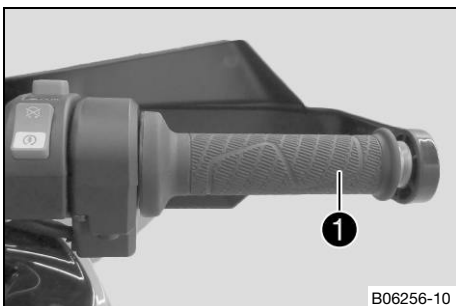
Clutch lever ❶ is fitted on the left side of the handlebar.

6.2 Handbrake lever



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

6.3 Throttle grip



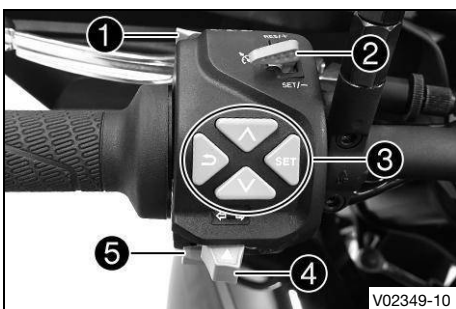
The throttle twist grip ❶ is fitted on the right side of the handlebar.

6.4 Switches on the left side of the handlebar

6.4.1 Combination switch

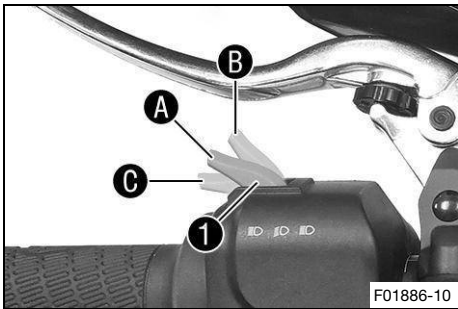
The combination switch is fitted on the left side of the handlebar.

Overview of the left combination switch



- ❶ Light switch  (p. 20)
- ❷ Cruise control system tip switch  (p. 20)
- ❸ Menu buttons  (p. 21)
- ❹ Turn signal switch  (p. 21)
- ❺ Horn button  (p. 22)

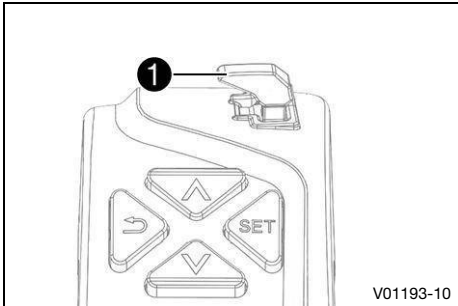
6.4.2 Light switch



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

Condition		Meaning
	Low beam on	Light switch in position ❶. In this position, the low beam and the tail light are switched on.
	High beam on	Light switch in position ❷. In this position, the high beam and the tail light are switched on.
	Headlight flasher	Push the light switch into position ❸.

6.4.3 Cruise control system tip switch



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

Condition	Meaning
Cruise control tip switch ❶ in the basic position.	No function
Cruise control tip switch ❶ pressed to the left.	In this position, the cruise control system function is switched on and off. The operating mode is displayed on the combination instrument.
Cruise control tip switch ❶ briefly pressed up.	The last saved speed is reached and maintained. Every subsequent brief pressing increases the target speed by 1 km/h or 1 mph.
Cruise control tip switch ❶ pressed and held up.	The target speed increases in increments of 5 km/h or 5 mph.
Cruise control tip switch ❶ briefly pressed down.	The cruise control function is activated and the current speed is maintained. Every subsequent brief press reduces the target speed by 1 km/h or 1 mph.
Cruise control tip switch ❶ pressed and held down.	The target speed decreases in increments of 5 km/h or 5 mph.

**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 system function, press the **cruise control system tip switch** 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



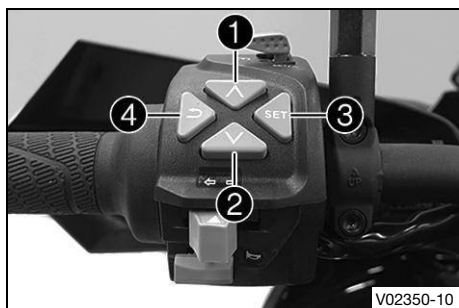
WARNING

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 function can only be activated in 2nd, 3rd, 4th, 5th and 6th gear. The control range is from 30 to 160 km/h or from 18 to 98 mph.

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

Button **2** is the **DOWN** button.

Button **3** is the **SET** button.

Button **4** is the **BACK** button.

6.4.5 Turn signal switch



Turn signal switch **1** 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 the turn signal switch towards the switch case.

6.4.6 Horn button

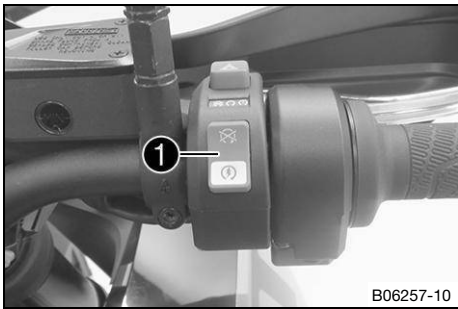


Horn button ❶ is fitted on the left side of the handlebar.

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

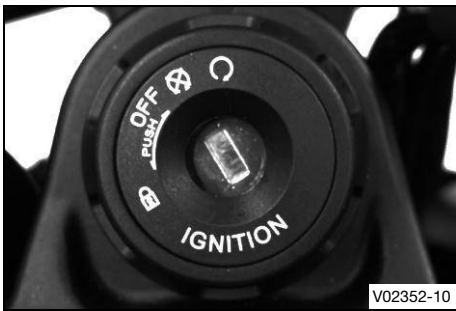
6.5.1 Start button/kill switch



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. A message appears on the display.
	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.

6.6 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



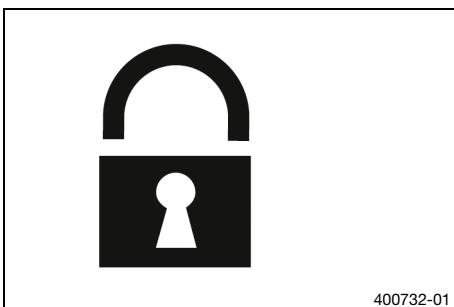
NOTE

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.

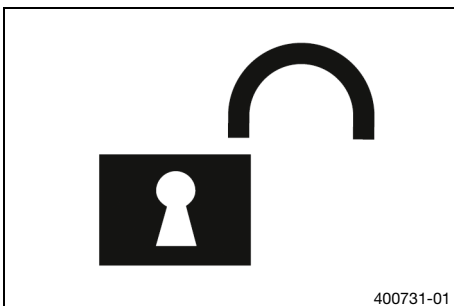


400732-01

- 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



400731-01

- 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.



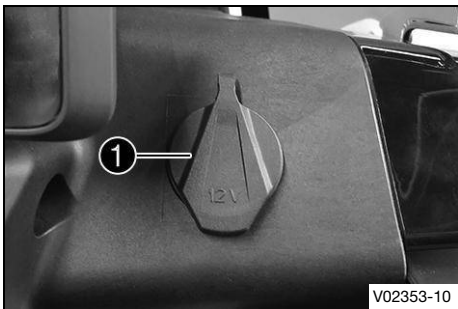
6.9 Supplementary headlight switch



Supplementary headlight switch ❶ is located on the left, next to the combination instrument.

Note
When the symbol lights up on the switch, the supplementary headlights are switched on.

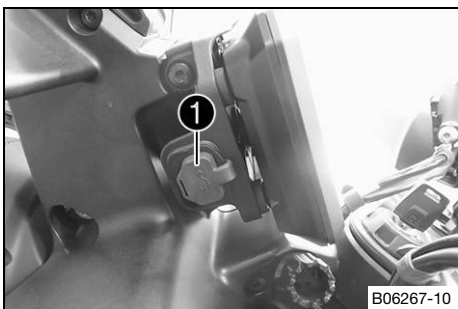
6.10 Socket for electrical accessories



Socket ❶ for electrical accessories is located on the right, next to the combination instrument.
The socket is connected to the ignition plus and is fuse-protected.

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

6.11 USB socket



USB socket ❶ for the power supply to external devices is mounted on the left side of the mask support.
The USB socket is activated when the ignition is switched on.

USB socket	
Voltage	5 V
Maximum current consumption	2.1 A

6.12 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**

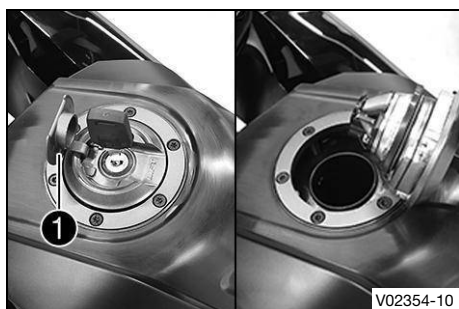
Danger of poisoning Fuel is harmful to health.

- 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**

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.

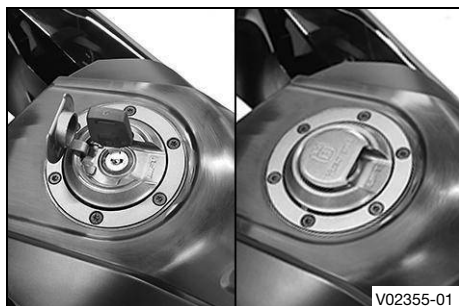
**NOTE**

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.



6.13 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**

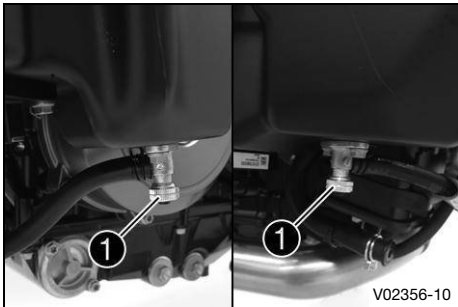
Fire hazard Fuel is highly flammable and a health hazard.

- 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.



6.14 Fuel petcocks



A fuel petcock 1 is located on each side of the fuel tank.

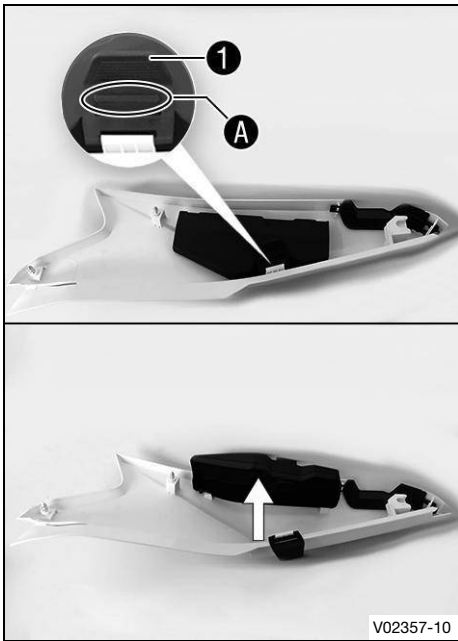
Note
The fuel cocks are located behind the fuel tank covers.
The fuel cocks must always be open during operation.
The fuel petcocks are only closed to remove the fuel tank.

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.

6.15 Opening the storage compartment on the left

- Preparatory work**
- Remove the passenger seat. (p. 94)
 - Remove the front rider's seat. (p. 94)
 - Remove the left side cover. (p. 106)

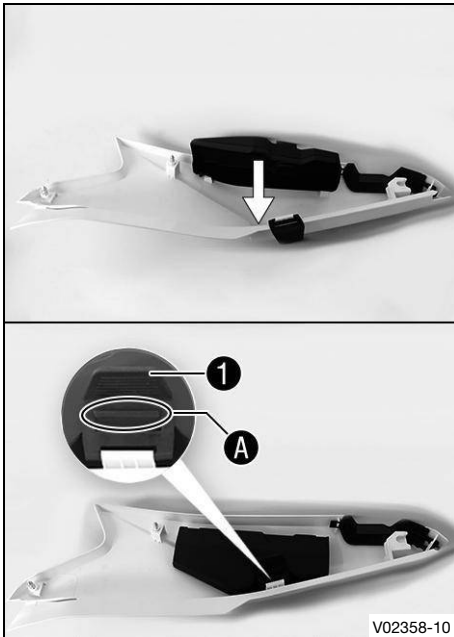
- Removal process**
- Lift the elastic fastener 1 and detach in area A.
 - Open storage compartment.



6.16 Closing the storage compartment on the left

Installation procedure

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



Reworking

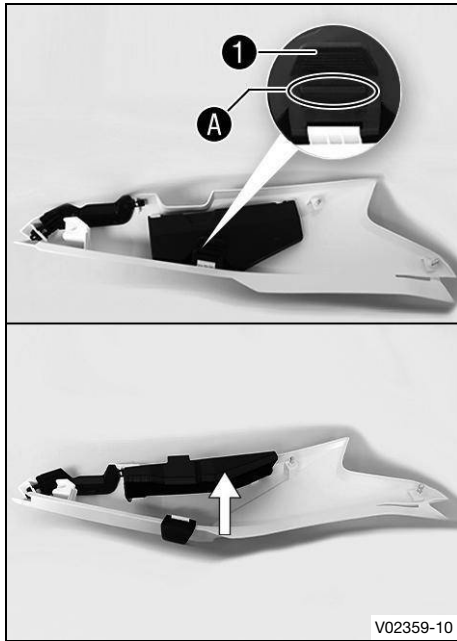
- Install the left side cover. 📖 (p. 106)
- Mount the front rider's seat. 📖 (p. 95)
- Mount the passenger seat. 📖 (p. 94)



6.17 Opening the storage compartment on the right

Preparatory work

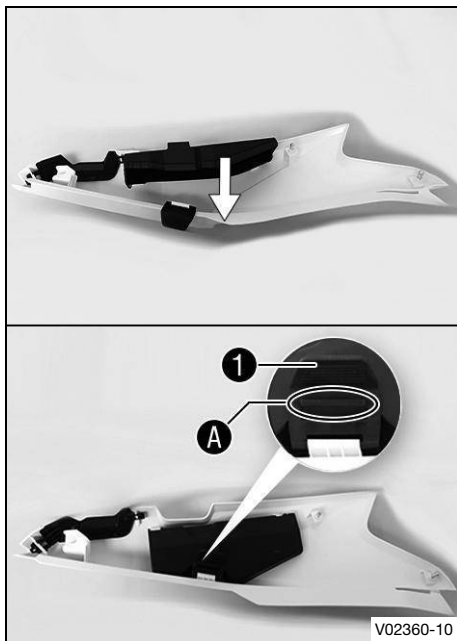
- Remove the passenger seat. 📖 (p. 94)
- Remove the front rider's seat. 📖 (p. 94)
- Remove the right side cover. 📖 (p. 107)



Removal process

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

6.18 Closing the storage compartment on the right



Installation procedure

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

Reworking

- Install the right side cover. 📖 (p. 107)
- Mount the front rider's seat. 📖 (p. 95)
- Mount the passenger seat. 📖 (p. 94)

6.19 On-board tool kit



The left or right storage compartment contains the on-board tool set 1.

6.20 Grab 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.

6.21 Baggage carrier



The luggage rack plate 1 is located behind the seat.

The base plate of a luggage system can be mounted on the luggage rack plate (optional).

The luggage rack plate may not be loaded with more than the specified weight.

Maximum permissible load of luggage rack plate	5 kg (11.0 lb)
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Note
Follow the instructions provided by the luggage manufacturer.

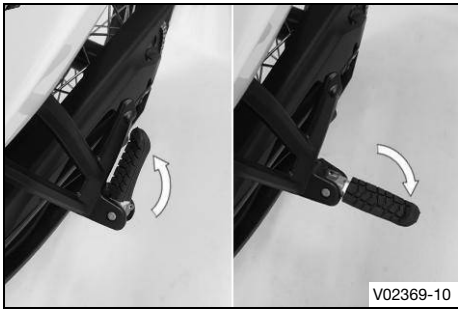
6.22 Seat lock



Seat lock 1 is located on the left side of the vehicle.

It can be unlocked using the ignition key.

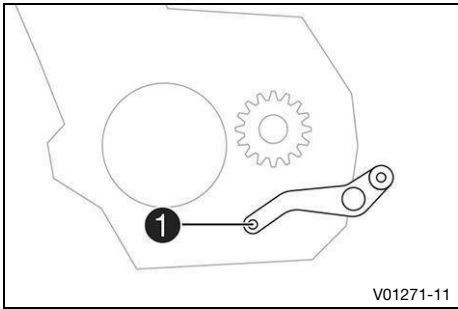
6.23 Passenger footpegs



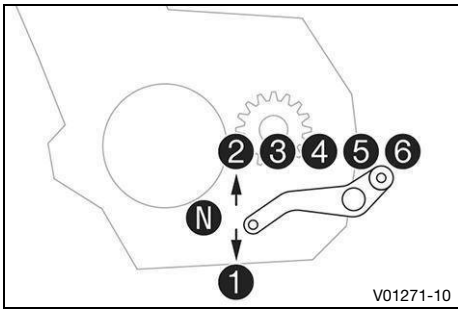
The passenger foot pegs can be folded up and down.

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

6.24 Gear shift lever

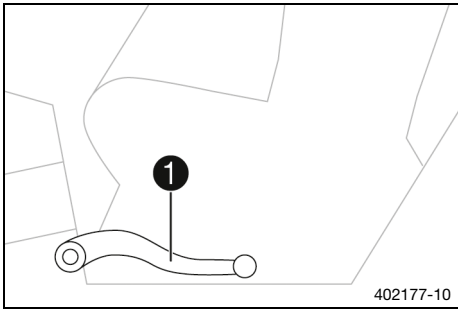


Gear shift lever ❶ is mounted on the left of the engine.



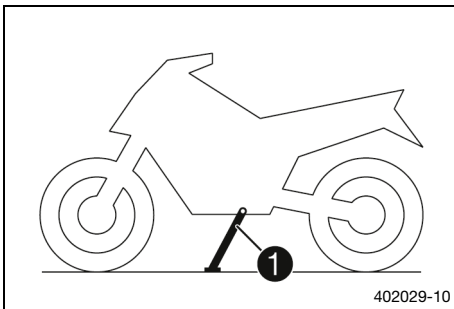
The gear positions can be seen in the figure.
The neutral or idle position is between the first and second gears.

6.25 Brake pedal



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

6.26 Side stand



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

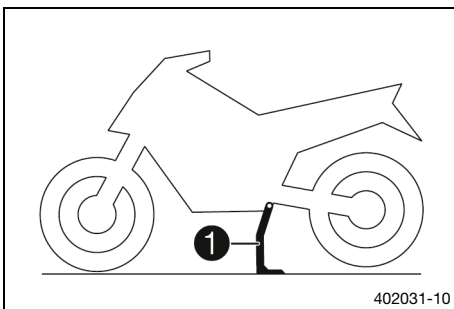


Note

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

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

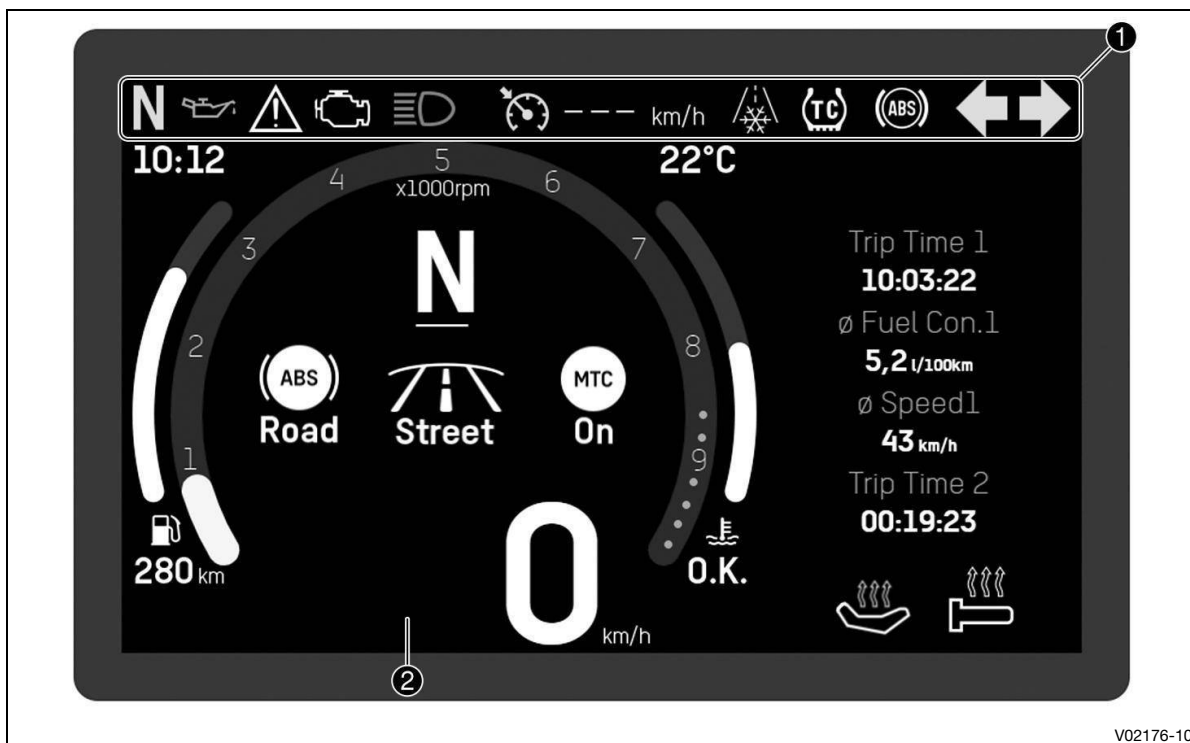
6.27 Center stand



In addition to the side stand, the vehicle is equipped with a center stand **1**.

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. 34)

Display ②



CAUTION

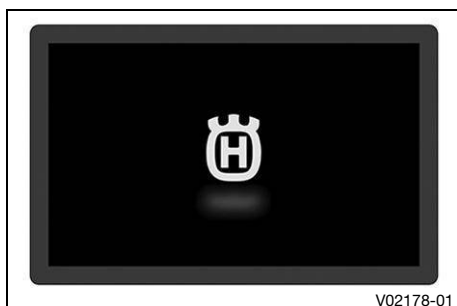
Danger of burns Parts of the combination instrument become hot in certain situations.

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.

7.2.2 Test

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



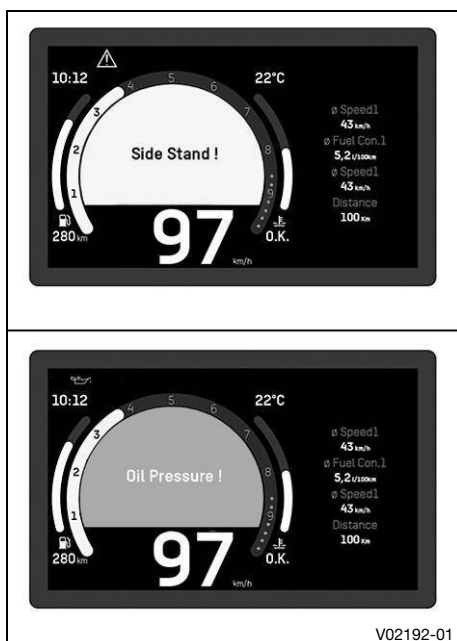
Note

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

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

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

7.3 warnings



Warnings appear in the middle of the display; these are marked yellow or red depending on their relevance.

Yellow warnings indicate malfunctions or information which require prompt intervention or an adjustment to the riding style.

Red warnings indicate malfunctions or information which require 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.

7.4 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 has fallen to or below the specified value.

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

The **ice warning** disappears from the display when the ambient temperature has risen to or 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, the warning **Ice Warning** also appears.

7.5 indicator lamps



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



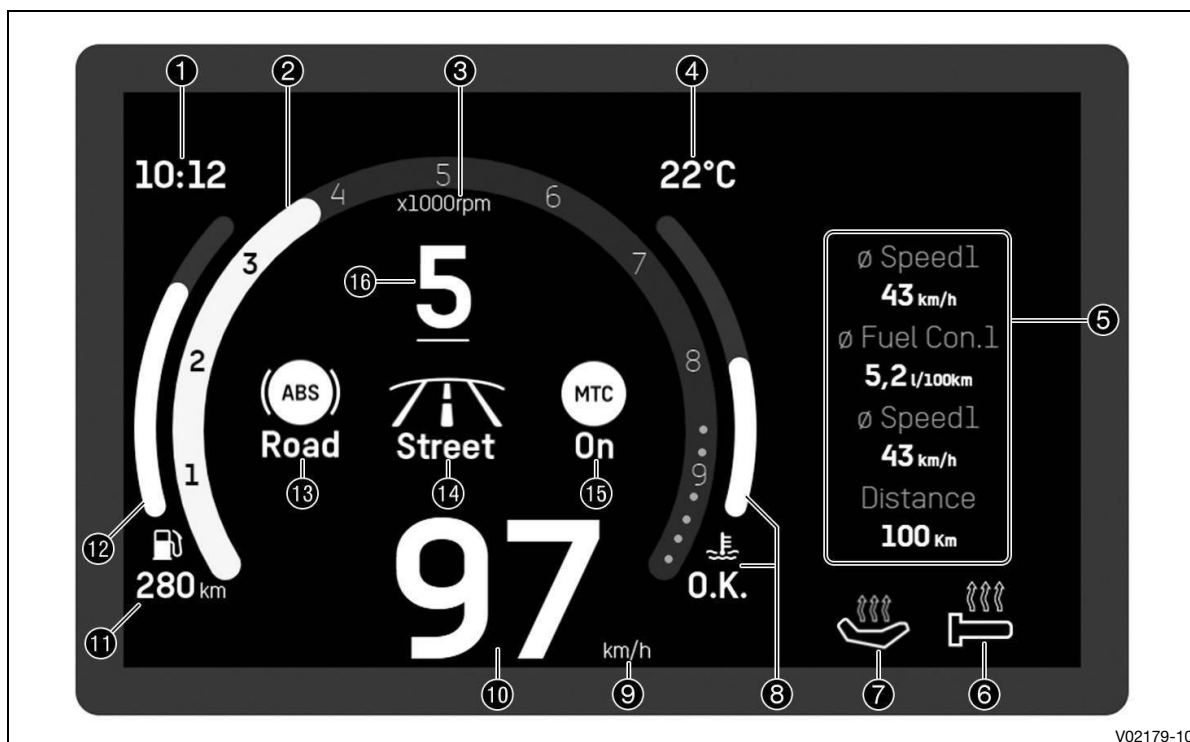
Note

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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.

7.6 Display



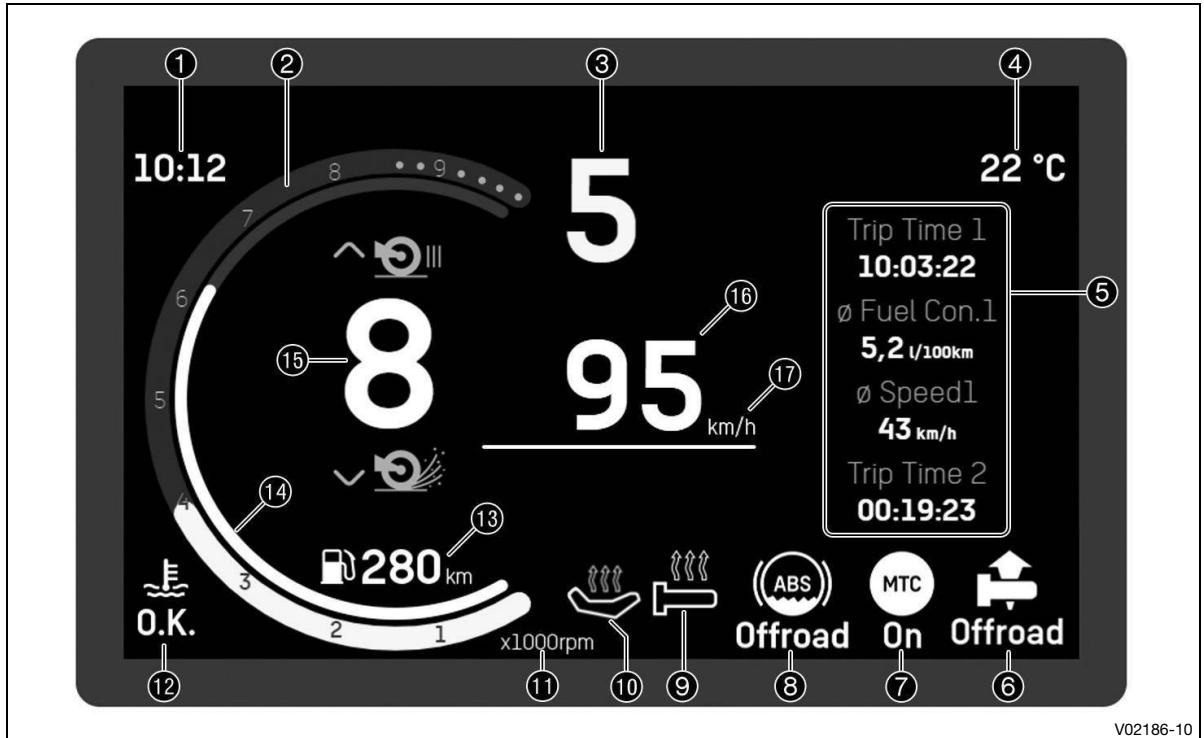
V02179-10

- | | |
|---|--|
| ① time (p. 38) | ⑧ coolant temperature indicator (p. 40) |
| ② speed (p. 37) | ⑨ Unit of speed |
| ② shift light (p. 37)
The shift light is integrated in the rpm gauge display. | ⑩ speed display (p. 38) |
| ③ Unit for the engine speed display | ⑪ Fuel range display |
| ④ ambient air temperature indicator (p. 39) | ⑫ fuel level display (p. 40) |
| ⑤ Favorites display (p. 41) | ⑬ ABS display (p. 39) |
| ⑥ heated grip (optional) (p. 40) | ⑭ Ride-Mode display (p. 39) |
| ⑦ seat heating (optional) (p. 41) | ⑮ MTC display (p. 39) |
| | ⑯ Gear display |

7.7 Explorer display (optional)

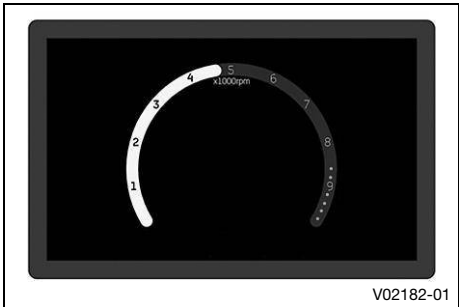
i Note

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



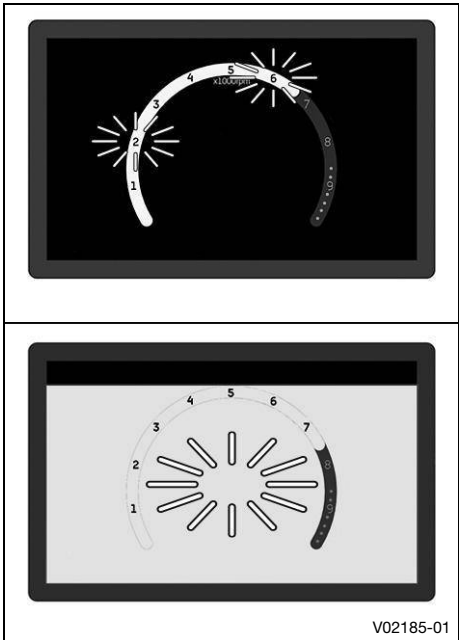
- | | |
|---|--|
| 1 time (p. 38) | 8 ABS display (p. 39) |
| 2 speed (p. 37) | 9 heated grip (optional) (p. 40) |
| 2 shift light (p. 37) | 10 seat heating (optional) (p. 41) |
| The shift light is integrated in the rpm gauge display. | 11 Unit for the engine speed display |
| 3 Gear display | 12 coolant temperature indicator (p. 40) |
| 4 ambient air temperature indicator (p. 39) | 13 Fuel range display |
| 5 Favorites display (p. 41) | 14 fuel level display (p. 40) |
| 6 Throttle (optional) (p. 154) | 15 slip adjustment (optional) (p. 154) |
| 7 MTC display (p. 39) | 16 speed display (p. 38) |
| | 17 Unit of speed |

7.8speed



The engine speed is displayed in revolutions per minute.

7.9shift 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. The shift warning light is always active during the running-in phase (up to 1,000 km / 621 mi). The shift warning light can only be deactivated, and the values for **RPM1** and **RPM2** can only be adjusted after this. At **RPM1**, the engine speed display flashes, and at **RPM2** the entire display flashes yellow.

i

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

7.10 speed 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 **Units** menu.

7.11 Cruise control indicator



The operating state of the active cruise control is shown in the area ❶ of the display.
Cruise control is operated using the cruise control tip switch (p. 20).

i 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.

7.12 time



The time is shown in area ❶ of the display.
The time can be displayed in 24-hour format or 12-hour format in all languages.
The format of the time can be configured in the **Units** menu.

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

7.13 ambient air temperature indicator



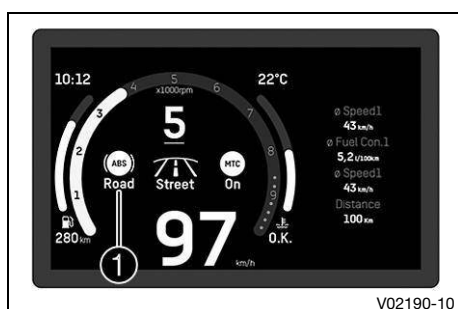
The ambient temperature is shown in area **1** of the display.
 The ambient air temperature is displayed in °C or °F.
 The unit of the ambient air temperature can be configured in the **Units** menu.

7.14 Ride-Mode display



The **Ride Mode**  (p. 153) setting is shown in area **1** of the display.
 The riding mode can be configured in the menu **Ride Mode**.

7.15 ABS display



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



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.

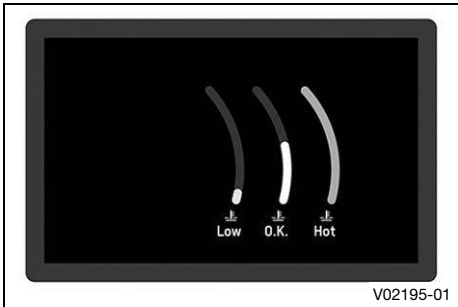
7.16 MTC display



The **1** area of the display indicates whether **MTC**  (p. 153) is switched on or off.

The motorcycle traction control can be switched on or off in the **MTC + MSR** menu.

7.17 coolant temperature indicator



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



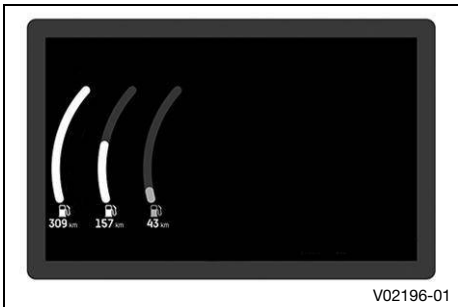
NOTE
Engine failure Overheating damages the engine.

- 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.

7.18 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 there is in the fuel tank.



Note
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.

7.19 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 **Heating** menu.

7.20 seat heating (optional)



The status of the seat heating is shown in area **1** of the display. The seat heating can be configured in the **Heating** menu.



Note

The heating level for the passenger seat heating (optional) can be controlled by a switch next to the right grab handle.

7.21 Favorites display



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

The **Favorites** indicator can be freely configured in the **Favorites** menu.

7.22 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.



Note

If the visual navigation is activated, the **Favorites** indicator is hidden.

7.23 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.

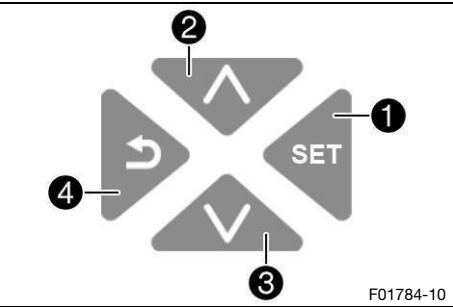
 **Note**

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.

7.24 Menu



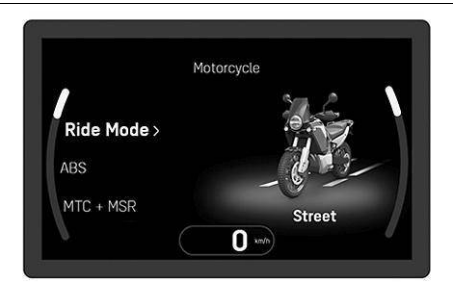
 **Note**

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.

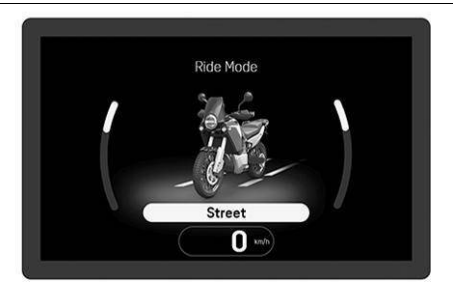
By pressing the **BACK** button ④, the menu structure jumps one step back, or the menu is closed.

7.24.1 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, motor slip regulation, Easy Shift, seat heating, grip heater, and interface.
- When the **Ride Mode Explorer** (optional) is activated, the characteristics of the throttle response and slip on the rear wheel can also be configured.

7.24.2 Ride Mode



- Condition: Start button/kill switch on (middle position), Cruise control function 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.

 **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. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.

- Press the **SET** button to select the **Ride 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 Explorer (optional) on unpaved roads.
Do not open the throttle during the selection.

- ✓ **Street** - Homologated performance with balanced response; the motorcycle traction control allows normal slip on the rear wheel. The anti-wheelie mode is active. 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. The anti-wheelie mode is active. 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. The anti-wheelie mode is deactivated. ABS only controls the front wheel.
- ✓ **Explorer** (optional) - Setting with homologated performance and extremely direct response. The motorcycle traction control and the characteristics of the throttle response can be set individually. The anti-wheelie mode is deactivated. ABS can be configured separately.

7.24.3 ABS mode



Condition: **Explorer Mode** (optional)

- 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 Mode** 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.

Do not open the throttle during the selection.
--



Note
The ABS mode can be switched during the journey.
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.

7.24.4 MTC + MSR



Condition: Cruise control function deactivated

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is high-lighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **MTC + MSR** is high-lighted. 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 + MSR** button.

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.

**Note**

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.

- SET Press and hold button for 3–5 seconds.	Switching off the motorcycle traction control and the engine traction torque control.
--	---

7.24.5 Easy Shift



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is high-lighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Easy Shift** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.
- Switch Easy Shift  (p. 74) on or off by pressing the **SET** button.

7.24.6 Heating (optional)



- 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 submenu.

The grip heater and rider's seat heating (function optional) can be configured in **Heating**.

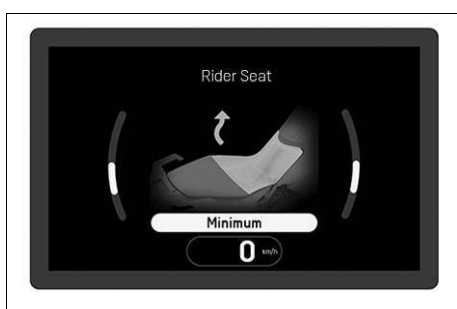
7.24.7 Heating Grips (optional)



Condition: Model with grip heater, Submenu **Heated Grips** (optional) 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 submenu.
- Press the **UP** or **DOWN** button until **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 select the heating level or to switch the heated grip on or off.

7.24.8 Heating Rider Seat (optional)



Condition: Model with seat heating, Submenu **Heated Seat** (optional) 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 submenu.
- Press the **UP** or **DOWN** button until **Rider Seat** 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 select the heating level or to switch the front rider's seat heating on or off.

7.24.9 Interface



- 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 **Interface** 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 select the desired display mode.
 - ✓ **Default** - Display with favorites indicator.
 - ✓ **No Favorites** - Display without a favorites indicator.
 - ✓ **Reduced** (not in explorer riding mode) - Display only with tachometer, gear indicator and speedometer.

7.24.10 Throttle (optional)



Condition: Ride mode **Explorer** (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 **Throttle** is highlighted. Press the **SET** button to open the submenu.
- Activate the menu item using the **UP** or **DOWN** button.

Do not open the throttle when adjusting the throttle response.

- Press the **SET** button to select **Throttle** mode.
 - ✓ **Street** - Balanced response.
 - ✓ **Rally** - Extremely direct response.
 - ✓ **Offroad** - Gentle response.

7.24.11 Slip Adjuster (optional)



Condition: Ride mode **Explorer** (optional) is activated, **MTC + MSR** 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 **Slip Adjuster** 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 set the maximum permitted slip for the motorcycle traction control.

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 1 allows the maximum slip on the rear wheel, and level 9 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**.

i Note

The slip adjustment is only available in **Explorer** riding mode (optional).

The spin adjuster is only available when motorcycle traction control is activated.

7.24.12 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**.

7.24.13 Bike Info



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

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

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.

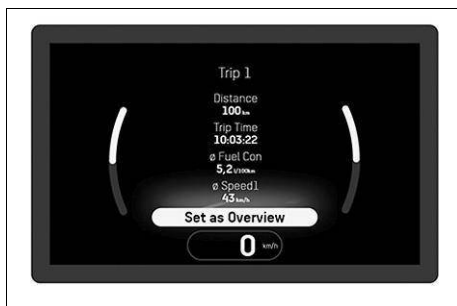
7.24.14 Trip info



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

General information on the distance traveled, trip time, average fuel consumption and average speed can be accessed in **Trip**.

7.24.15 Trip 1



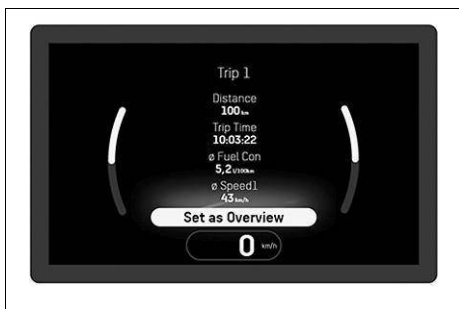
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Trip Info** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Trip 1** is highlighted. Press the **SET** button to open the submenu.

Information on **Trip 1** can be accessed in the **Trip 1** menu.



Note

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



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

ØFuel Con indicates the average fuel consumption based on **Distance**.

ØSpeed1 indicates the average speed based on **Distance** and **Trip Time**.

i Note

Press the **UP** or **DOWN** button until **Reset Trip** is highlighted. Press the **SET** button to reset all entries in the **Trip 1** menu.

7.24.16 Trip 2



- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Trip Info** is highlighted. Press **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 accessed in the **Trip 2** menu.

i Note

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

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

ØFuel Con indicates the average fuel consumption based on **Distance**.

ØSpeed2 indicates the average speed based on **Distance** and **Trip Time**.

i Note

Press the **UP** or **DOWN** button until **Reset Trip** is highlighted. Press the **SET** button to reset all entries in the **Trip 2** menu.

7.24.17 Navigation



Condition: Function **Bluetooth®** activated, **Ride Husqvarna Navigation** app is installed and opened on a suitable cell phone (**Android®** devices from version 6.0, iOS devices from version 10), 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 **Ride Husqvarna Navigation** app (optional).

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

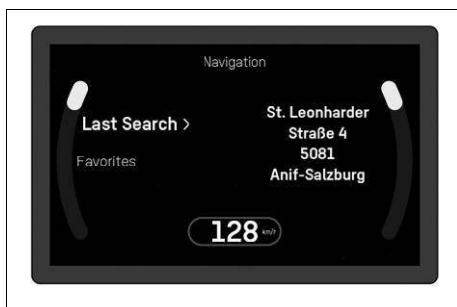


Note

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.

7.24.18 Last search (optional)



Condition: Function **Bluetooth®** activated, **Ride Husqvarna** 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 the **UP** or **DOWN** button until **Ride Husqvarna Navigation** is highlighted. Pressing the **SET** button opens the menu.
- Press the **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.



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.

- Press the **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



Note

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

7.24.19 Favorites (optional)



Condition: Function **Bluetooth®** activated, **Ride Husqvarna** 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 **Ride Husqvarna** app (optional)

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



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.

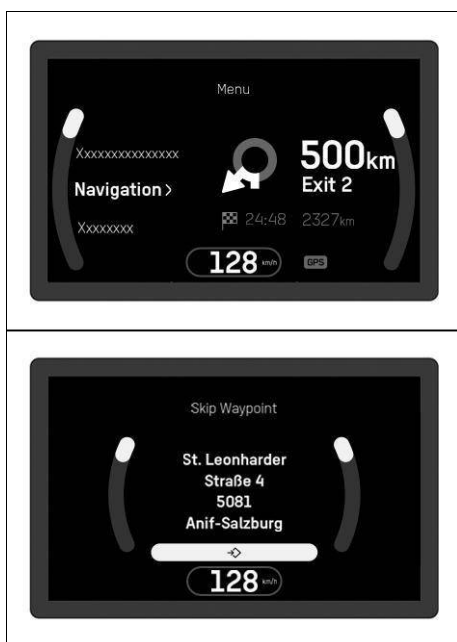
- Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button to select an address.
- Press the **SET** button to confirm the selection and start navigation.



Note

In **Favorites**, 10 addresses can be stored in the **Ride Husqvarna** app (optional).

7.24.20 Skip Waypoint (optional)



Condition: Navigation with at least one interim destination has been started in the **Ride Husqvarna** app.

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

**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.

- Press the **UP** or **DOWN** button until **Skip Waypoint** is highlighted. Press the **SET** button to select the waypoint.
- Press the **SET** button again to confirm the selection and remove the waypoint.

7.24.21 Volume (optional)



Condition: The **Ride Husqvarna** app (optional) is installed and opened on a suitable cell phone (**Android**® devices from version 6.0, iOS devices from version 10)., 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 **Ride Husqvarna** app (optional).

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

**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.



WARNING

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

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

- Press the **UP** or **DOWN** button until **Volume** is 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.

7.24.22 Stop Navigation (optional)



Condition: Function **Bluetooth®** activated, **Ride Husqvarna** 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 the **UP** or **DOWN** button until **Ride Husqvarna Navigation** is highlighted. Pressing the **SET** button opens the menu.
- Press the **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.



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.

- Press the **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.

7.24.23 Audio (optional)



Condition: Function **Bluetooth®** activated, Dashboard is connected to a suitable cell phone, The dashboard is connected to a suitable audio device or **Headset Type Coded** is selected.

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



WARNING

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

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

- Press the **UP** or **DOWN** button until **Audio** is highlighted. Pressing the **SET** button opens the menu.
- 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 Up** or **Quick Selector Down** for easier operation.

7.24.24 Call out



Condition: Dashboard is connected to a suitable cell phone, Dashboard is connected to a suitable audio device

- 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 highlighted. 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.

7.24.25 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, **Ride Husqvarna** (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.

7.24.26 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 **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the submenu.

In **Favorites**, up to four items of information can be selected and displayed on the **Favorites** indicator on the display.

7.24.27 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 **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button to select **Favorites 1**, **Favorites 2**, **Favorites 3**, or **Favorites 4**. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button to select the desired information. Press the **SET** button to confirm the selection.

7.24.28 Quick selector up



Condition: Motorcycle is stationary

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

Note
When it is closed, the menu set in **UP** is opened by pressing the **Quick Selector Up** button.
Press the **BACK** button to close the **Quick Selector Up** display.

7.24.29 Quick selector down



Condition: Motorcycle is stationary

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



Note

When it is closed, the menu set in **DOWN** is opened by pressing the **Quick Selector Down** button.
Press the **BACK** button to close the **Quick Selector Down** display.

7.24.30 Ride Husqvarna (optional)



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

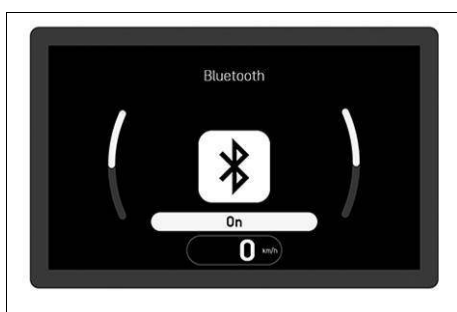
A suitable cell phone or communication system can be paired with the dashboard via **Bluetooth®** in menu **Ride Husqvarna**.



Note

Not every cell phone or communication system is suitable for pairing with the dashboard.
The standard **Bluetooth®** 2.1 must be supported.

7.24.31 Bluetooth (optional)



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.
- Press the **UP** or **DOWN** button until **Ride Husqvarna** is marked. Press the **SET** button to open the submenu.
- 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.

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

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

7.24.32 Phone Pairing (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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Ride Husqvarna** is marked. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Phone Pairing** is highlighted. Press the **SET** button to open the submenu.



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. Press the **SET** button to open the submenu.
- 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.

- 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.



Note

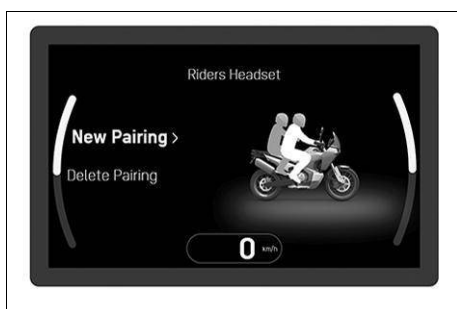
Press the **UP** or **DOWN** button until **Delete Pairing** is highlighted. The paired device can be deleted by pressing the **SET** button.

Not every cell phone 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.

A suitable cell phone can be paired with the vehicle in menu **New Pairing**.

7.24.33 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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Ride Husqvarna** is marked. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Riders Headset** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **New Pairing** is marked. Press the **SET** button to open the submenu.
- The vehicle starts searching for a suitable headset. 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 headset must be in pairing mode for the vehicle to find the headset. Follow the instructions in the headset owner's manual.

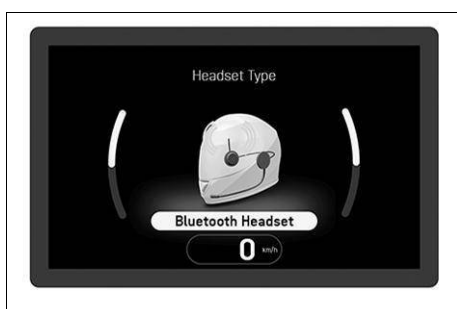
Press the **UP** or **DOWN** button until **Delete Pairing** is highlighted. The paired device can be deleted by pressing the **SET** button.

Not every headset 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 headset can be paired with the vehicle.

7.24.34 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. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Ride Husqvarna** is marked. Press the **SET** button to open the submenu.
- 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.

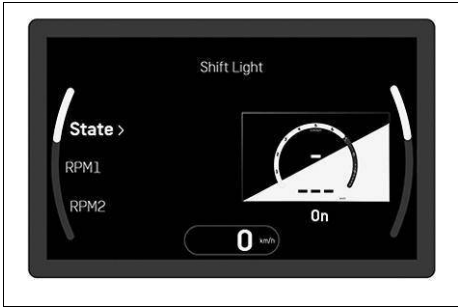
The headset is connected to the vehicle wirelessly via **Bluetooth®** in **Bluetooth Headset** mode.

The headset is connected directly to the smartphone by a cable in **Corded Headset** mode.



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

7.24.35 Shift Light

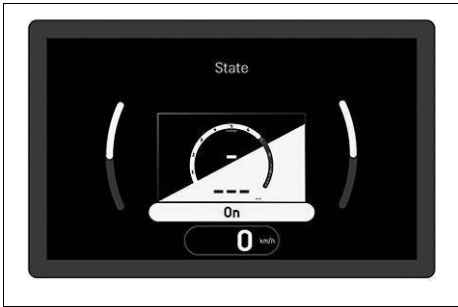


Condition: Motorcycle is stationary, **ODO** > 1,000 km (621 miles)

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **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 speed for the shift warning light can be set in **Shift Light**.

7.24.36 Shift light state



Condition: Motorcycle is stationary

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **State** 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.

7.24.37 Shift light RPM1



Condition: Motorcycle is stationary

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **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.
- Press the **SET** button to switch the value for **RPM1** on or off.

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

**Note**

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

If the engine speed reaches set value **RPM1**, the shift warning light flashes yellow.

7.24.38 Shift light RPM2



Condition: Motorcycle is stationary

- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **RPM2** is highlighted.
- Activate the menu item using the **UP** or **DOWN** button.
- Press the **SET** button to switch the value for **RPM2** on or off.

RPM2 must not be smaller than **RPM1**

**Note**

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

If the engine speed reaches set value **RPM2**, the entire display flashes yellow.

7.24.39 Clock & date



Condition: Motorcycle is stationary

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

Set the time, date and display formats in **Clock & Date**.

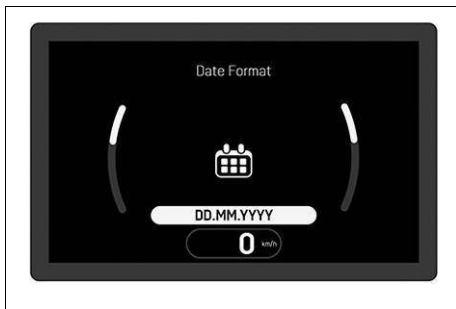
7.24.40 Clock format



Condition: Motorcycle is stationary

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

7.24.41 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 **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted.
- Press the **UP** or **DOWN** button until **Date Format** 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 select the date format.

7.24.42 Units

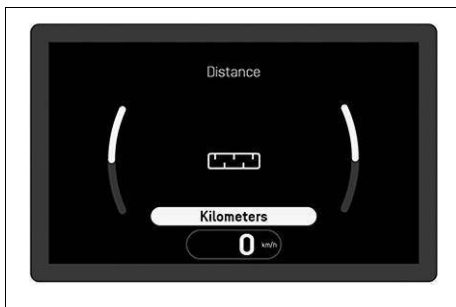


Condition: Motorcycle is stationary

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

7.24.43 Distance



Condition: Motorcycle is stationary

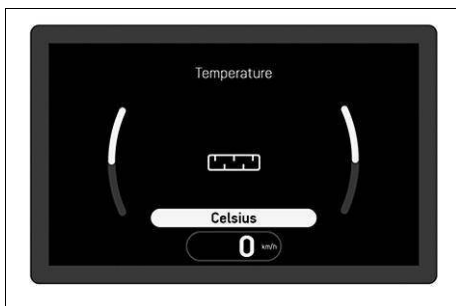
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Settings** is highlighted. Press **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Units** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or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



Note

Kilometers and miles can be set.

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

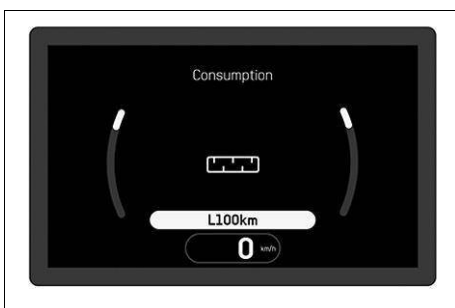
**Note**

Celsius and Fahrenheit can be set.

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

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

7.24.47 Language

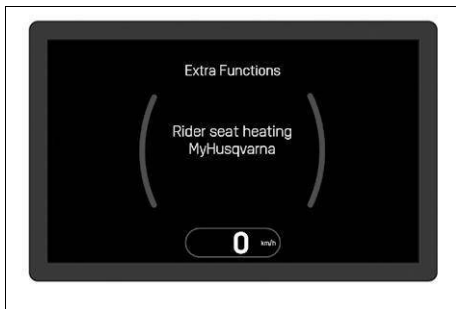
Condition: Motorcycle is stationary

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

7.24.48 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 **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. Current accessories and available software for your vehicle can be found on the Husqvarna Mobility website.

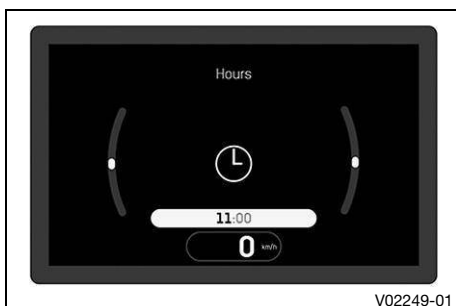
7.24.49 Setting the time and date

Condition: Motorcycle is stationary



V02236-01

- 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.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted. Press the **SET** button to open the submenu.



V02249-01

- Press the **UP** or **DOWN** button until **Set Clock** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Hours** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the hour is correctly set.
- Press the **SET** button.
 - ✓ The selected hour is stored.
- Press the **UP** or **DOWN** button until **Minutes** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the minute is correctly set.
- Press the **SET** button.
 - ✓ The selected minute is stored.



- Press the **UP** or **DOWN** button until **Set Date** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until **Day** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the day is correctly set.
- Press the **SET** button.
 - ✓ The selected day is stored.
- Press the **UP** or **DOWN** button until **Month** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the month is correctly set.
- Press the **SET** button.
 - ✓ The selected month is stored.
- Press the **UP** or **DOWN** button until **Year** is highlighted. Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the year is correctly set.
- Press the **SET** button.
 - ✓ The selected year is stored.



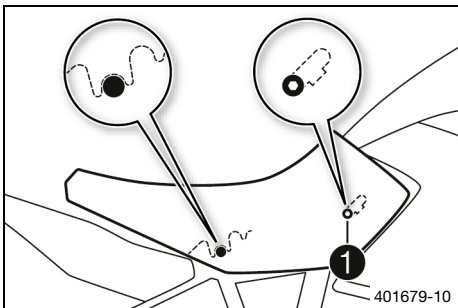
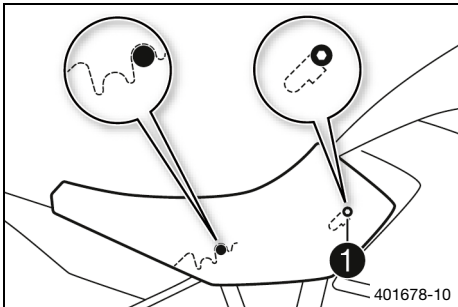
8.1 Setting the front rider's seat

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)

Adjustment procedure

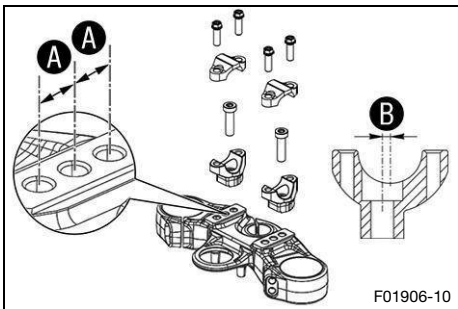
- Select one of the following alternatives.
 - Attach the front rider's seat to the fuel tank at the recesses ❶, and push the front rider's seat down and forward at the same time.
 - Attach the front rider's seat to the fuel tank at the recesses ❶, and push the rider's seat up and forward at the same time.
- Finally, check that the front rider's seat is correctly mounted.



Reworking

- Mount the passenger seat.  (p. 94)

8.2 Handlebar position



On the upper triple clamp, there are three holes at a distance of ❶ to each other.
The holes on the handlebar support are placed at a distance of ❷ from the center.

Hole distance ❶	15 mm (0.59 in)
Hole distance ❷	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

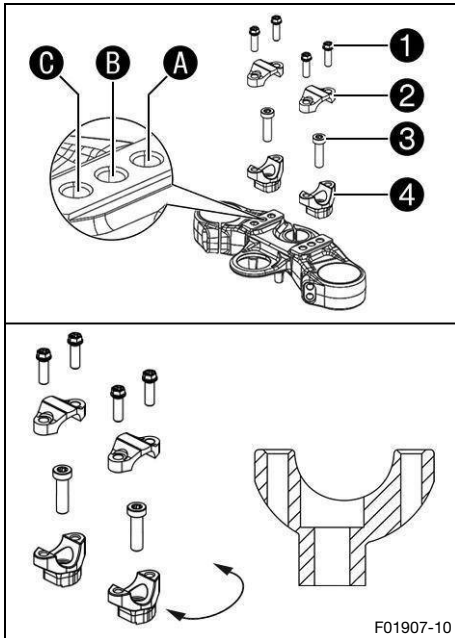


WARNING

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 ❶ screws. Take off the handlebar clamps ❷.
- Position the handlebar so that screws ❸ are accessible.

Protect the components against damage by covering them.

Do not kink the cables or lines.

- Remove ❸ screws.
- Take off handlebar supports ❹.
- Move the handlebar supports into the desired position ❷, ❸ or ❹.
- Mount and tighten screws ❸.

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

Screw, handlebar mount

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

- Position the handlebar.

Make sure the cables and wiring are positioned correctly.

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

Handlebar clamp screw

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

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 ❶.

The range of adjustment is limited.

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

Do not make any adjustments while riding.

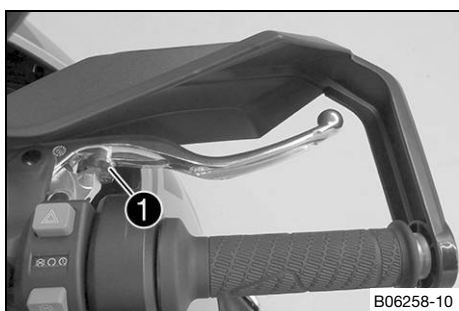


Note

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.

8.5 Adjusting the basic position of the hand brake lever



- Push hand brake lever forward.

The range of adjustment is limited.

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

Do not make any adjustments while riding.

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

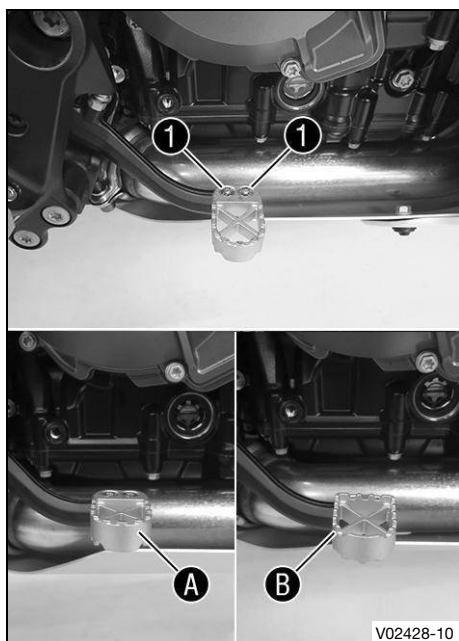


Note

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.

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) Loctite® 243



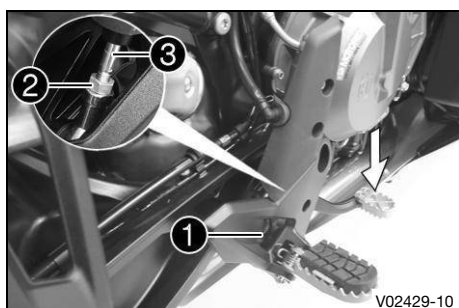
8.7 Adjusting the basic position of the brake pedal



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.

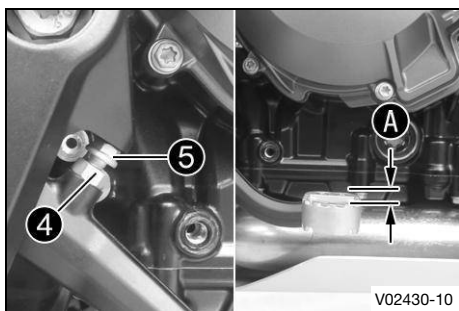
- Turn the push rod ③ to set the basic position of the foot brake lever.

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**.

Nut, foot brake lever adjustment	
M6	6 Nm (4.4 ft·lb _f)

- Tighten nut **2**.

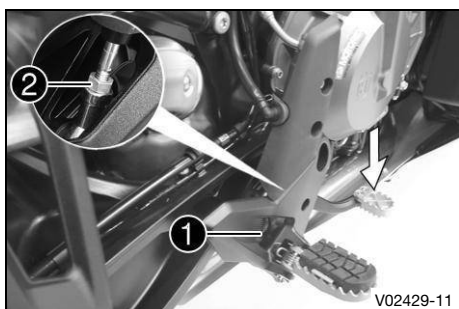
Nut, push rod, foot brake lever	
M6	6 Nm (4.4 ft·lb _f)



Tip

Press the foot brake lever downwards to make this easier.

- Attach spring **1**.

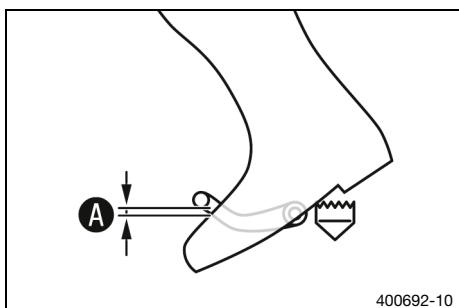


8.8 Checking the basic position of the gear shift lever

i 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 a malfunction of the Easy Shift.



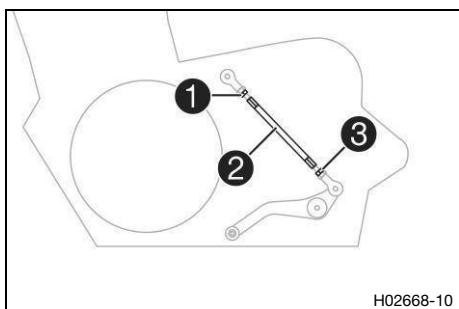
- Sit on the vehicle in the riding position and measure the distance **A** between the upper edge of your boot and the shift lever.

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. 68)

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	
M6LH	6 Nm (4.4 ft·lb _f)

- Tighten nut ① while holding stud ②.

Nut, shift rod	
M6	6 Nm (4.4 ft·lb _f)



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

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.



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

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 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.



Note

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

- Ensure that the pre-delivery inspection work has been carried out by an authorized Husqvarna Mobility workshop.
 - ✓ 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. 65)
- Adjust the basic position of the hand brake lever.  (p. 66)
- Adjust the basic position of the brake pedal.   (p. 67)
- Get used to the handling characteristics of the motorcycle on suitable terrain before undertaking a more challenging ride.
- Also, ride as slowly as possible and in a standing position to get a better feel for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footpegs when riding.

- Run in the engine.  (p. 71)



9.2 Running in the engine

- During the running-in phase, 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

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 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 The luggage system will be damaged if it is overloaded.

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



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.

9 Preparing for use



WARNING

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

- Adapt your speed to your payload.



WARNING

Fire hazard The hot exhaust system may burn luggage.

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

- 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.

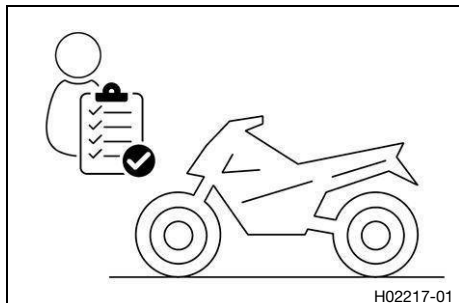
The maximum permissible total weight and the maximum permissible axle loads must not be exceeded.	
Maximum permissible total weight	450 kg (992.1 lb)
Maximum permissible front axle load	175 kg (385.8 lb)
Maximum permissible rear axle load	175 kg (385.8 lb)

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. 155)
- Check the brake fluid level for the front brake. (p. 123)
- Check the brake fluid level for the rear brake. (p. 125)
- Check that the brake pads of the front brake are secured. (p. 124)
- Check that the brake pads of the rear brake are secured. (p. 127)
- Check that the brake system is functioning properly.
- Check the coolant level in the compensating tank. (p. 150)
- Check the chain for dirt. (p. 95)
- Check the chain tension. (p. 96)
- Check the tire condition. (p. 134)
- Check the tire pressure. (p. 135)
- 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.

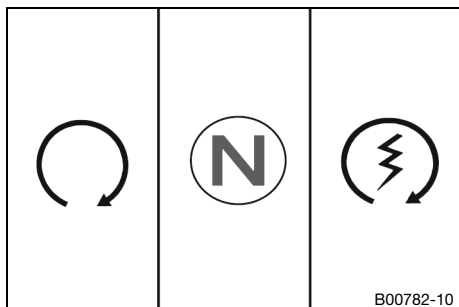
- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.



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 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 (⌘).



Note

Only press the start button/emergency OFF switch into the lower position (⌘) when the combination instrument function check has been completed.

Do not open the throttle to start.

If the starting attempt is unsuccessful, wait for 15 seconds before making another attempt at starting.

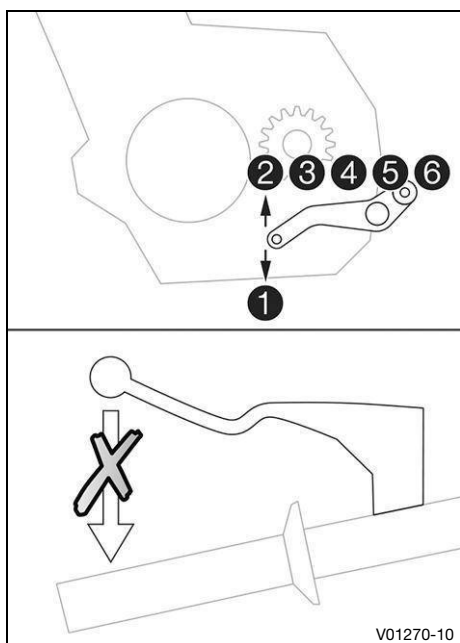
After 6 unsuccessful starting attempts, do not try again, and check the vehicle for other malfunctions instead.

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



If **Easy Shift** is activated, you can shift up and down without operating the clutch.

Because there is no need to close the throttle grip, uninterrupted gear shifts are possible.

Easy Shift uses the shifter shaft position to check whether or not a shift should be initiated, and sends a corresponding signal to the engine control unit.

If Easy Shift is disabled in the combination instrument, the clutch needs to be operated in the normal way for each shift.

10.5 Shifting, riding



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 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.



WARNING

Danger of accidents An incorrect ignition key position causes malfunctions.

- Do not change the ignition key position while riding.



WARNING

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

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



WARNING

Risk of injury The passenger may fall from the 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 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 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** A fall can damage the vehicle more seriously than it may first appear.
- Check the vehicle after a fall as you do when preparing for use.



NOTE

- Engine failure** 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

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



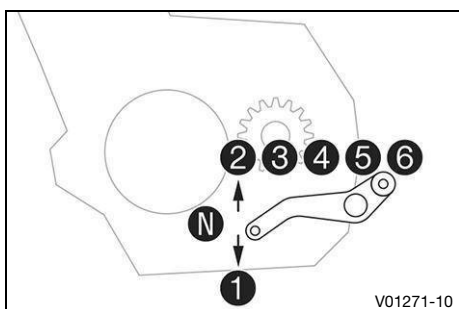
NOTE

- Transmission damage** Incorrect use of Easy Shift will damage the transmission. Easy Shift can only be used if the function is activated in the combination instrument. Easy Shift is not active if you pull the clutch lever.
- Only use Easy Shift in the permitted speed range shown.



Note

If unusual noises occur during operation, stop immediately, switch off the engine, and contact an authorized Husqvarna Mobility workshop.



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



Note

The gear positions can be seen 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 Husqvarna Mobility workshop.
- If the malfunction indicator light  lights up while riding, please contact an authorized Husqvarna Mobility workshop 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.

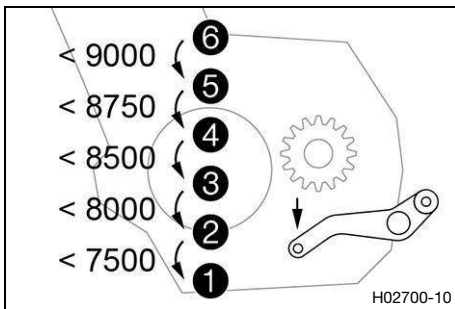
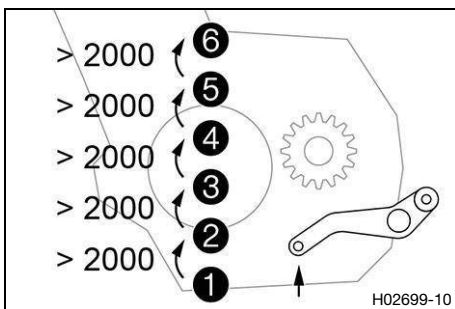
- If the ice warning appears in the combination instrument, the roads may be icy. Adjust your speed to the road conditions.
- If **Easy Shift** (optional) is activated on the dashboard, you can shift up in the rev range shown without pulling the clutch lever.

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



Note

The minimum engine speed in rpm before shifting up is shown in the figure.



- If **Easy Shift** (optional) is activated on the dashboard, you can shift up in the rev range shown without pulling the clutch lever.

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

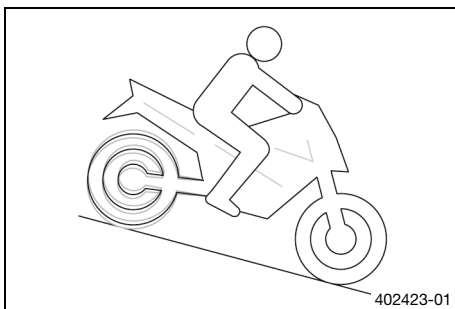


Note

The maximum engine speed in rpm before shifting down is shown in the figure.



10.6 ETTC



The **MSR** is a 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 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 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 Higher total weight increases the stopping distance.

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



WARNING

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

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



WARNING

Danger of accidents ABS may increase the stopping distance in certain situations.

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



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 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 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



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.



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.



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.



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.

- 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.
- Select one of the following alternatives.
 - Swing side stand forward with your foot as far as it will go and lean the vehicle on it.
 - Raise the vehicle with the center stand. (p. 93)
- 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

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.

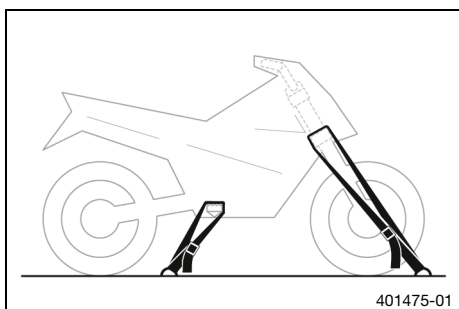
- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



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.



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

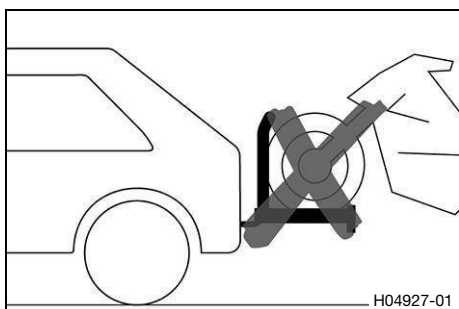
10.10 Towing in the event of a breakdown



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

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

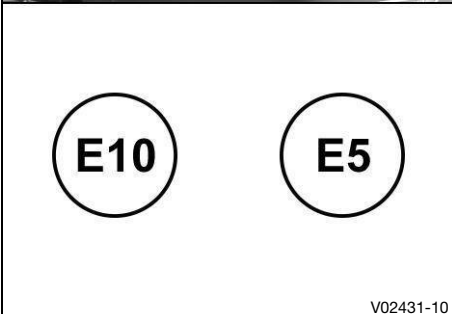
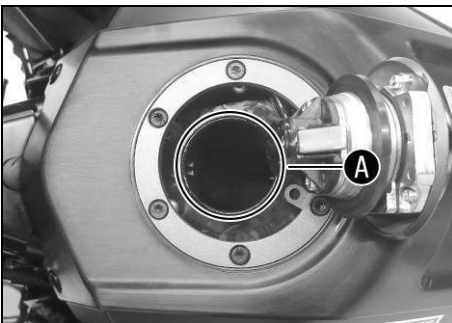
- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



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.



- Switch off the engine.
- Open the fuel tank cap. (p. 24)
- Fill the fuel tank with fuel up to the lower edge **A** of the filler neck.

Total fuel tank capacity, approx.

(All EU models)	
Super unleaded (ROZ 95) (p. 192)	19 l (5.0 liq. gal _{US})
(Norden 901 Expedition BR)	
Super unleaded, type C (ROZ 95/RON 95/PON 91) (p. 192)	

- Close the fuel tank cap. (p. 25)

11.1 Service work

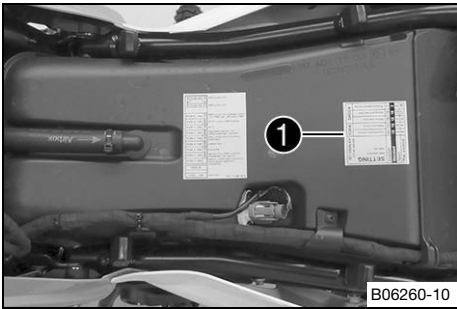
Any further work that results from the service work must be ordered separately and invoiced separately. Different service intervals may apply in your country, depending on the local operating conditions. Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule is available for authorized dealers for the electronic proof of service. Your authorized dealer 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. 124)	○	●	●	●	●	●
Check that the brake pads of the rear brake are secured. 📖 (p. 127)	○	●	●	●	●	●
Check the brake discs. 📖 (p. 122)	○	●	●	●	●	●
Check the brake lines for damage and tightness. 🛠️	○	●	●	●	●	●
Check the brake fluid level for the front brake. 📖 (p. 123)	○	●	●	●		
Change the brake fluid for the front brake. 🛠️					●	●
Check the brake fluid level for the rear brake. 📖 (p. 125)	○	●	●	●		
Change the brake fluid for the rear brake. 🛠️					●	●
Check the free travel of the clutch lever. 🛠️	○	●	●	●	●	●
Check the free travel of the brake pedal. 📖 (p. 125)	○	●	●	●	●	●
Change the engine oil and the oil filter, clean the oil screens. 🛠️ 📖 (p. 155)	○	●	●	●	●	●
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. 134)	○	●	●	●	●	●
Check the tire pressure. 📖 (p. 135)	○	●	●	●	●	●
Check the rim run-out. 🛠️	○	●	●	●	●	●
Retighten the spokes. 🛠️	○					

	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)					
Check the spoke tension.  (p. 136)		•	•	•	•	•
Check the chain, rear sprocket, engine sprocket, and chain guide.  (p. 98)		•	•	•	•	•
Check the chain tension.  (p. 96)	○	•	•	•	•	•
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. 146)	○	•	•			
Check the tightness of the safety-relevant screws and nuts which are easily accessible. 	○	•	•	•	•	•
Clean the dust boots of the fork legs. 		•	•			
Check the frost protection and coolant level. 	○	•	•	•	•	
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. 	○	•	•	•	•	•
Set the service display using the diagnostic tool. 	○	•	•	•	•	•
Enter electronic proof of service. 	○	•	•	•	•	•

- One-time interval
- Periodic interval

12.1 Fork/shock absorber



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

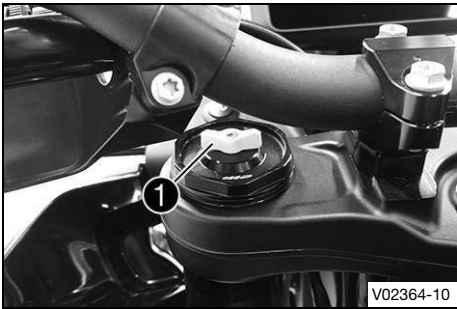
i Note
The recommendations for the suspension setting are shown in table 1. The table is located under the seat on the air filter box.

These adjustments are guidelines and should always be the basis for a suspension setting. If the guidelines are not adhered to, the riding characteristics could deteriorate, particularly at high speeds.

12.2 Adjusting the compression damping of the fork

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

(Norden 901)



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

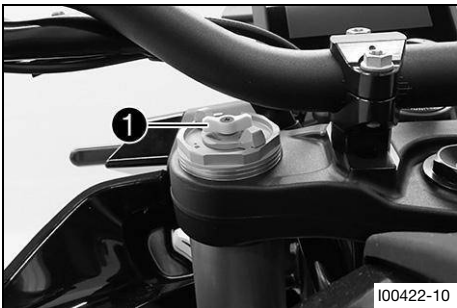
i Note
Adjuster 1 COMP is located at the upper end of the left fork leg.

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

Compression damping	
Comfort	21 clicks
Standard	15 clicks
Sport	9 clicks
Full payload	9 clicks

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

(All special models)



- 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 clockwise by the number of clicks corresponding to the fork type.

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

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



12.3 Adjusting the rebound damping of the fork

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

(Norden 901)



- 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 clockwise by the number of clicks corresponding to the fork type.

Rebound damping	
Comfort	21 clicks
Standard	15 clicks
Sport	9 clicks
Full payload	9 clicks

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

(All special models)



- 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 clockwise by the number of clicks corresponding to the fork type.

Rebound damping	
Comfort	18 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	15 clicks

i

Note

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

12.4 Adjusting the spring preload of the fork

Preparatory work

- Raise the vehicle with the center stand.  (p. 93)

Adjustment procedure

- Turn T-grips ❶ counterclockwise all the way.

Make the adjustment by hand only. Do not use a tool.

Make the same adjustment on both fork legs.

✓ Marking +0 aligns with the right-hand part of the grip.

- Turn the T-grips clockwise.

Spring preload - Preload Adjuster (All special models)	
Comfort	+0
Standard	+0
Sport	+0
Full payload	+3

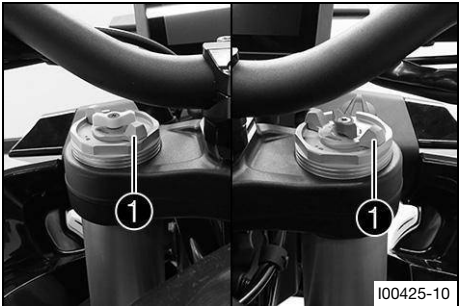
Adjust the spring preload to the numerical values only as the preload will not engage between the numerical values.

✓ The T-grips engage noticeably at the numerical values.

i

Note

Turn clockwise to increase the spring preload; turn counterclockwise to reduce the spring preload.
Adjusting the spring preload has no influence on the absorption setting of the rebound.
Basically, however, you should set the rebound damping higher with a higher spring preload.



Reworking

- Remove the vehicle from the center stand.  (p. 93)

12.5

Compression damping of the shock absorber (All special models)

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed. High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.

The high-speed compression adjuster, for example, has an effect when riding over an asphalt edge: the rear wheel suspension compresses quickly.

The low-speed compression has an effect, for example, when riding over long bumps: the rear wheel suspension compresses slowly.

These two ranges can be adjusted separately, although the transition between high-speed and low-speed is gradual. As a result, changes in the high-speed range affect the compression damping in the low-speed range and vice versa.

12.6

Adjusting the low-speed compression damping of the shock absorber (All special models)



CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

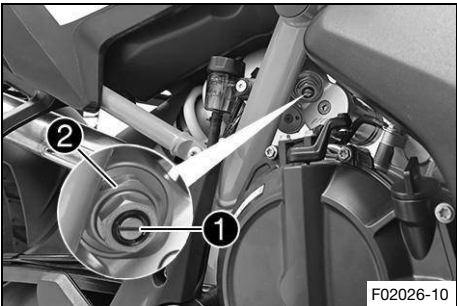
The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.



Note

The effect of the low-speed compression adjustment can be seen in slow to normal compression of the shock absorber.



- Turn adjusting screw ❶ clockwise with a screwdriver as far as the last perceptible click.
- Do not loosen fitting ❷!
- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Low-speed compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	7 clicks



Note

Turning clockwise increases damping; turning anti-clockwise reduces damping.

12.7 Adjusting the high-speed compression damping of the shock absorber (All special models)



CAUTION

Risk of injury Parts of the shock absorber will move erratically if the shock absorber is detached incorrectly.

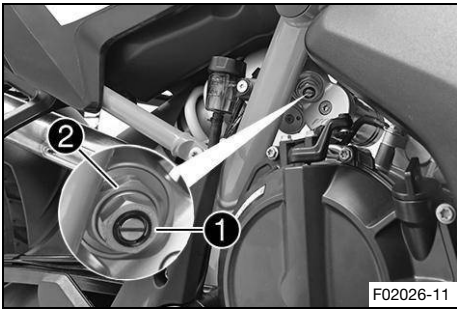
The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided.



Note

The effect of the high-speed compression adjustment can be seen in the fast compression of the shock absorber.



- Turn adjusting screw ❶ all the way clockwise with a socket wrench.
- Do not loosen fitting ❷!
- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

High-speed compression damping	
Comfort	2 turns (720°)
Standard	1.5 turns (540°)
Sport	1 turn (360°)
Full payload	0.5 turns (180°)



Note

Turning clockwise increases damping; turning anti-clockwise reduces damping.

12.8 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.

(Norden 901)

Rebound damping	
Comfort	18 clicks
Standard	12 clicks
Sport	7 clicks
Full payload	5 clicks

(All special models)

Rebound damping	
Comfort	20 clicks
Standard	12 clicks
Sport	5 clicks
Full payload	5 clicks



Note

Turning clockwise increases damping; turning anti-clockwise reduces damping on rebound.



12.9 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

(Norden 901)



- Turn handwheel ❶ counterclockwise as far as it will go.
- Turn it clockwise by the number of turns corresponding to the shock absorber type and use.

Spring preload – preload adjuster	
Comfort	3 turns (1,080°)
Standard	3 turns (1,080°)
Sport	5 turns (1,800°)
Full payload	10 turns (3,600°)

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

(All special models)



- Turn handwheel ❶ counterclockwise as far as it will go.
- Turn it clockwise by the number of turns corresponding to the shock absorber type and use.

Spring preload - Preload Adjuster	
Comfort	3 turns (1,080°)
Standard	3 turns (1,080°)
Sport	5 turns (1,800°)
Full payload	10 turns (3,600°)

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

13.1 Raising the motorcycle with rear lifting gear



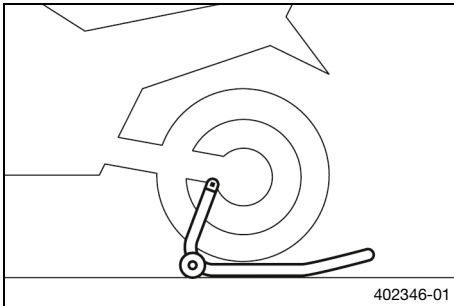
NOTE

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 lifting gear.

Retaining adapter (61029955144)

Rear wheel work stand (6932995500033)

- 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



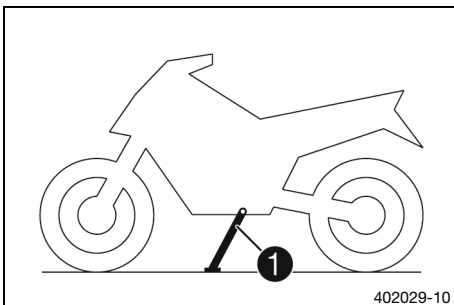
NOTE

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.

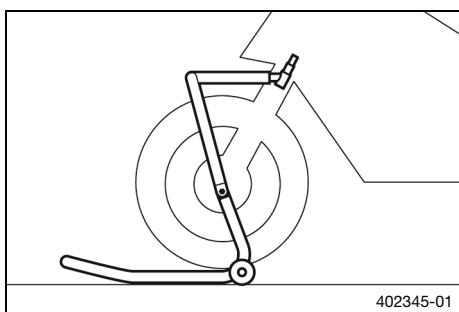
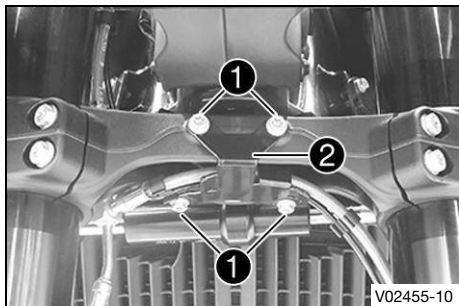
13 Service work on the chassis

Preparatory work

- Raise the motorcycle with the rear lifting gear.  (p. 91)

Installation procedure

- Remove **1** screws.
- 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



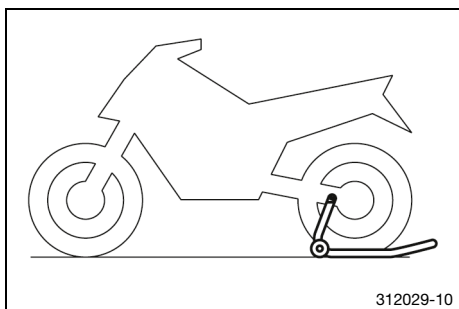
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

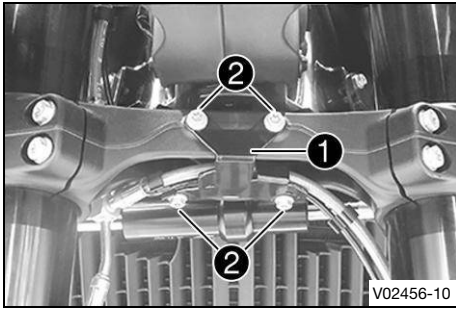
Damage can occur if the vehicle rolls away or falls over.

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 _f)
----	------------------------------------

13.5 Raising the vehicle with the center stand



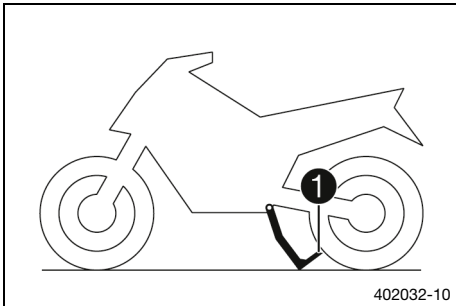
NOTE

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.



- Stand to the left of the vehicle.
 - Hold the handlebar with your left hand and push the center stand onto the ground with your right foot.
 - Put your entire body weight on arm **1** of the center stand while pulling the vehicle up at the left grab handle.
- ✓ The center stand is folded out to the stop.

13.6 Removing the vehicle from the center stand



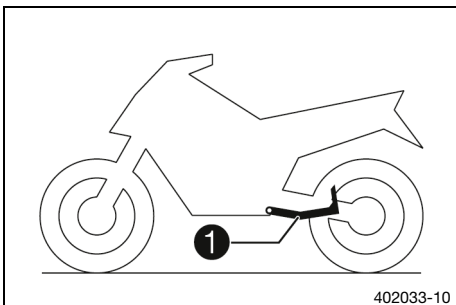
NOTE

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.

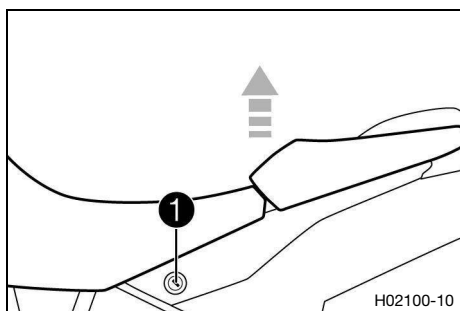
- Park the vehicle on a firm and level surface.
- Make sure that nobody sits on the vehicle when it is parked on a stand.



- Make sure that the steering is unlocked.
- Move the vehicle forward with both hands on the handlebar.
- While the vehicle tips off the center stand, actuate the front brake to stop the vehicle from rolling away.
- Check that the center stand **1** is folded all the way up.

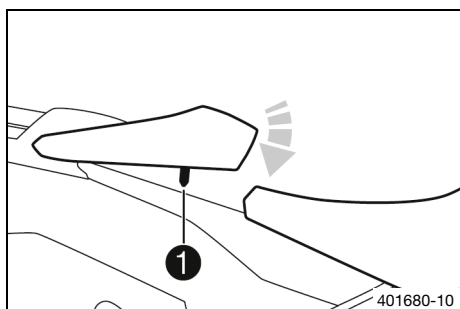
13 Service work on the chassis

13.7 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.

13.8 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.

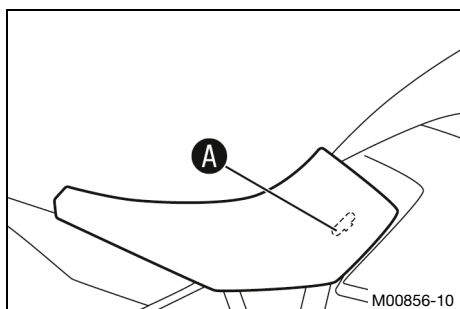
13.9 Remove the front rider's seat

Preparatory work

- Remove the passenger seat.  (p. 94)

Removal process

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



(All special models)

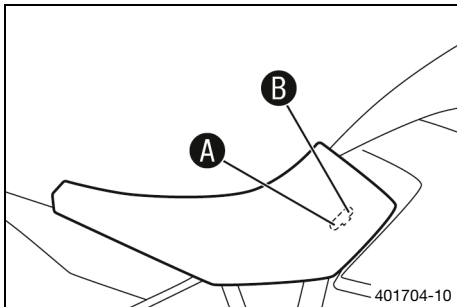
- Disconnect the seat heating plug-in connector.

13.10 Mounting the front rider's seat

Installation procedure

(All special models)

- Connect the seat heating plug-in connector.
- 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.

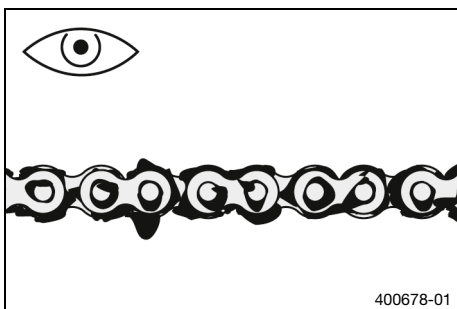


Reworking

- Mount the passenger seat. (p. 94)



13.11 Checking the chain for dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (p. 95)



13.12 Cleaning the chain



WARNING

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

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



WARNING

Danger of accidents Oil, 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

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.

Preparatory work

- Raise the motorcycle with the rear lifting gear. (p. 91)

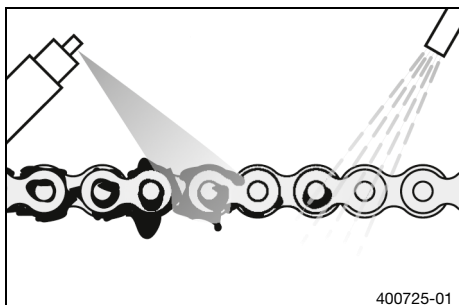
Cleaning process

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

Chain cleaner (p. 197)

- After drying, apply chain spray.

Street chain spray (p. 193)



Reworking

- Remove the rear of the motorcycle from the lifting gear. (p. 91)

13.13 Checking the chain tension



WARNING

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

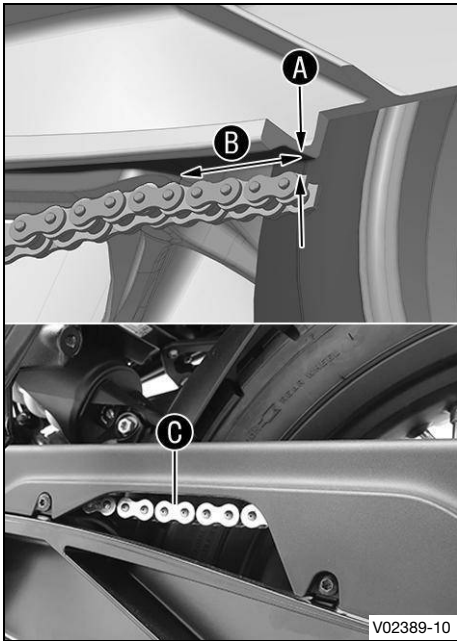
If the chain tension is too high, the chain, front sprocket, rear sprocket, transmission, and rear wheel bearings wear more quickly. Some components may break if overloaded.

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. 91)



Control process

- 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.	
Repeat this measurement at different chain positions.	

i Note
Chain wear is not always even.

- » If the chain tension does not meet the specification:
 - Adjust the chain tension. (p. 97)
- Remove the rear of the motorcycle from the lifting gear. (p. 91)



13.14 Adjusting the chain tension



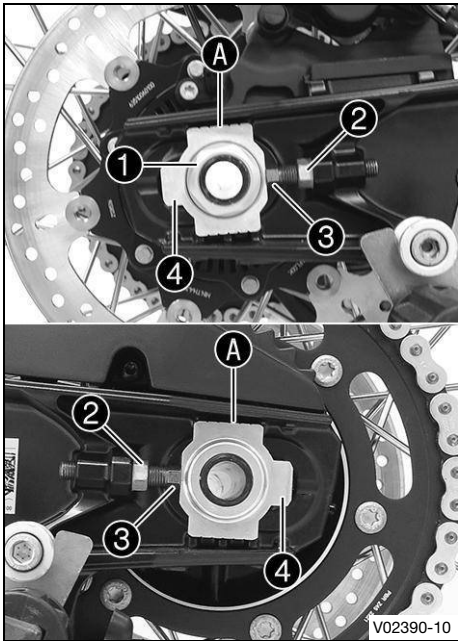
WARNING

Danger of accidents Incorrect chain tension can damage components and result in an accident. If the chain is 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. 91)
- Check the chain tension. (p. 96)



Adjustment procedure

- 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.	
Repeat this measurement at different chain positions.	



Note

Chain wear is not always even.

- 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) Long-life grease

Reworking

- Check the chain tension. (p. 96)
- Remove the rear of the motorcycle from the lifting gear. (p. 91)

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

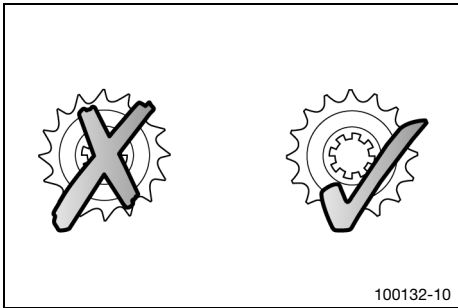
Preparatory work

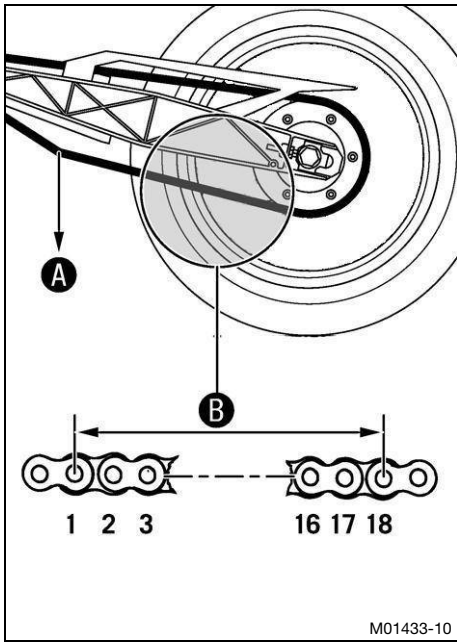
- Raise the motorcycle with the rear lifting gear. (p. 91)

Control process

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

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





- 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)
---	----------------------

Repeat this measurement at different chain positions.



Note

Chain wear is not always even.

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

- Change the drivetrain kit.

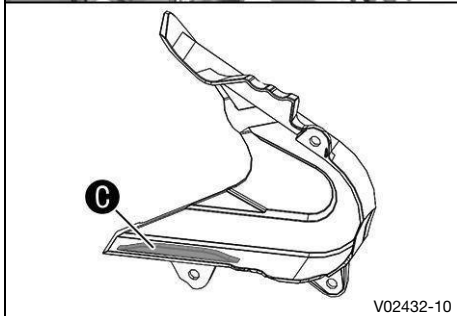
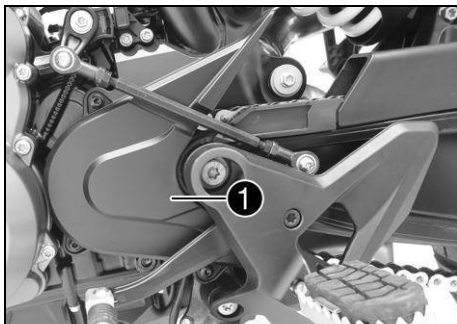
When you replace the chain, you should also replace the rear sprocket and front sprocket.



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 engine sprocket cover.

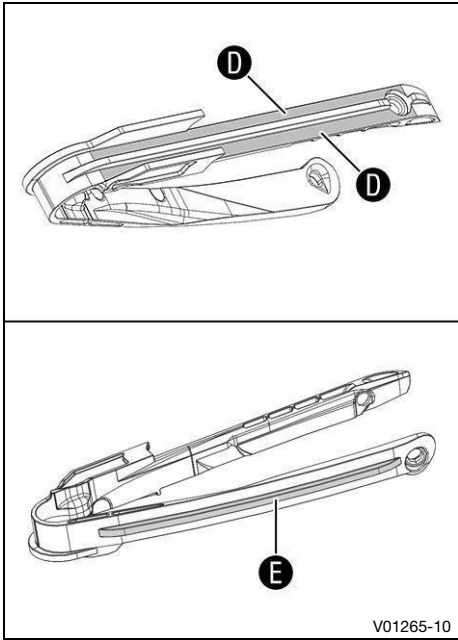
- Check the engine sprocket cover **1** for tightness.

- » If the engine sprocket cover is loose:
 - Tighten the screws on the engine sprocket cover.

Screw, front sprocket cover

M5×17	5 Nm (3.7 ft·lb _f)
-------	-----------------------------------

13 Service work on the chassis



- 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. 91)

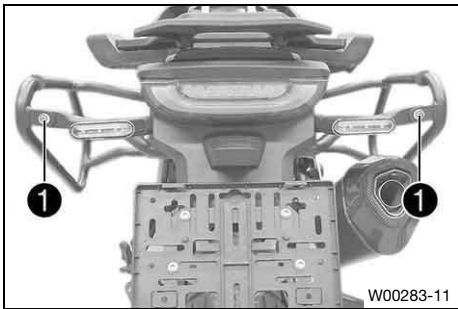
13.16 Removing the side bag rack (All special models)

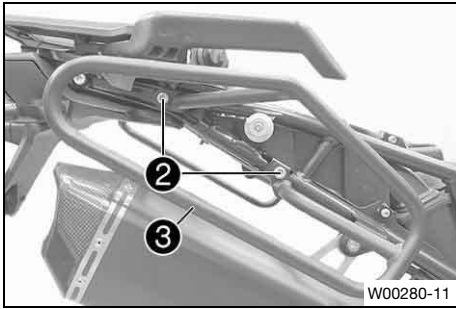
Preparatory work

- Remove the side bags. 📖 (p. 104)
- Remove the passenger seat. 📖 (p. 94)
- Remove the front rider's seat. 📖 (p. 94)
- Remove the left side cover. 📖 (p. 106)
- Remove the right side cover. 📖 (p. 107)

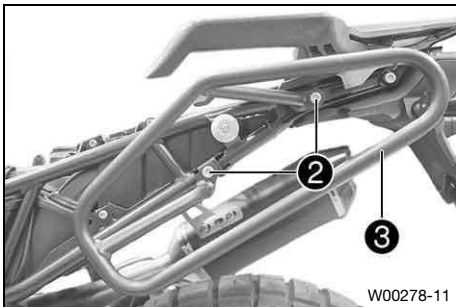
Removal process

- Remove **1** screws.
- Remove the connecting pipe.

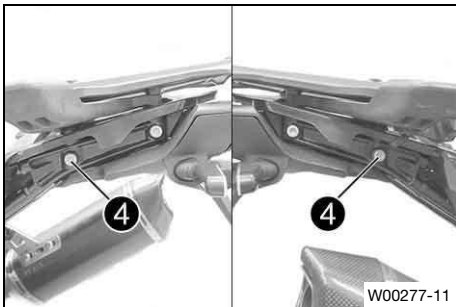




- Remove ② screws.
- Take off side bag rack ③.



- Remove ② screws.
- Take off side bag rack ③.



- Mount and tighten screws ④.

Screw, side bag rack	
M8	25 Nm (18.4 ft·lb _f)

Reworking

- Install the left side cover. (p. 106)
- Install the right side cover. (p. 107)
- Mount the front rider's seat. (p. 95)
- Mount the passenger seat. (p. 94)



13.17 Fitting the side bag rack (All special models)



WARNING

Danger of accidents Loading luggage can significantly affect the handling characteristics.

Luggage affects the handling, cornering and braking characteristics, particularly when fully laden, and increases crosswind sensitivity.

- Ride especially carefully in strong wind.
- Slowly accelerate to the permitted maximum speed.

Maximum speed with luggage mounted	130 km/h (80.8 mph)
------------------------------------	------------------------



WARNING

Danger of accidents Overloading, a one-sided payload, or the luggage slipping impairs handling characteristics.

- Make sure that the maximum payload is not exceeded.

Payload per side bag	≤ 3 kg (≤ 6.6 lb)
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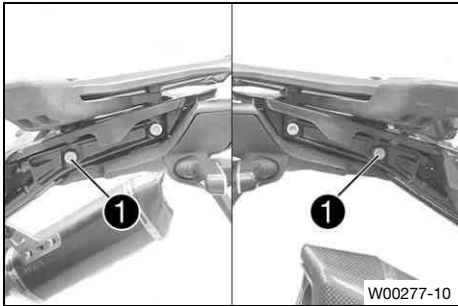
- Distribute the luggage evenly on both sides (for side bags mounted on both sides).
- Secure the side bags against slipping.

Preparatory work

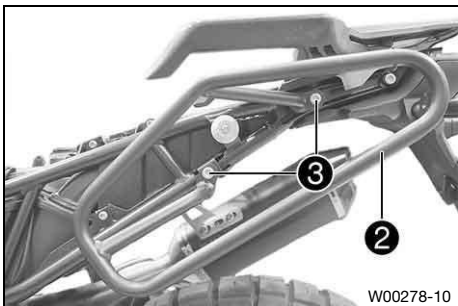
- Remove the passenger seat. (p. 94)
- Remove the front rider's seat. (p. 94)
- Remove the left side cover. (p. 106)
- Remove the right side cover. (p. 107)

Installation procedure

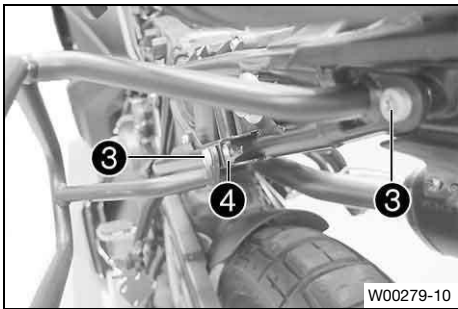
- Remove screws **1**.



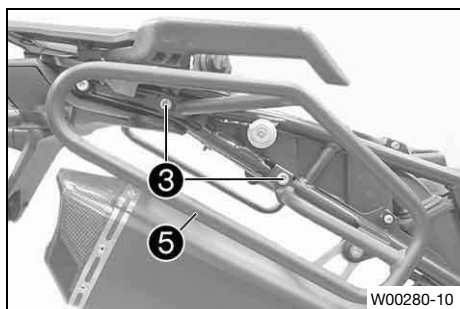
- Position left side bag rack **2**.



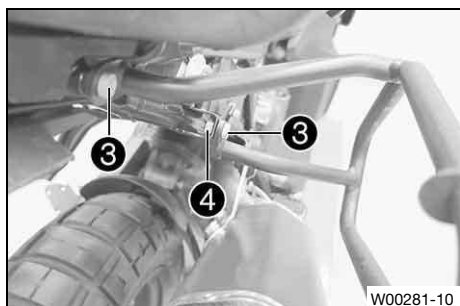
- Mount screws **3** and nut **4**, but do not tighten yet.



Screw, side bag rack	
M8×20	25 Nm (18.4 ft·lb) Loctite® 243

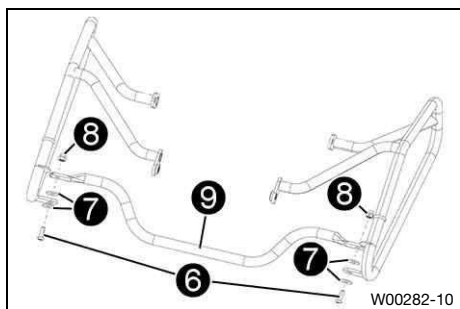


- Position right side bag rack **5**.



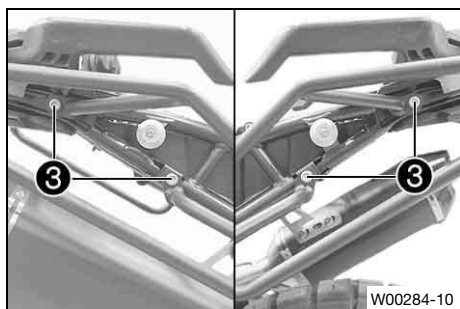
- Mount screws **3** and nut **4**, but do not tighten yet.

Screw, side bag rack	
M8×20	25 Nm (18.4 ft·lb) Loctite® 243



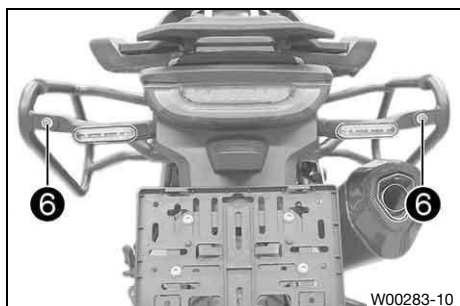
- Position connecting pipe **9** with washers **7**.
 - ✓ The connecting pipe is located in front of the screw connection point of the side bag rack.
 - ✓ The recess of the connecting pipe points toward the rear.
- Mount screws **6** with washers **7** and nuts **8**, but do not tighten yet.

Screw, side bag rack	
M6	10 Nm (7.4 ft·lb) Loctite® 243



- Tighten screws **3**.

Screw, side bag rack	
M8×20	25 Nm (18.4 ft·lb) Loctite® 243



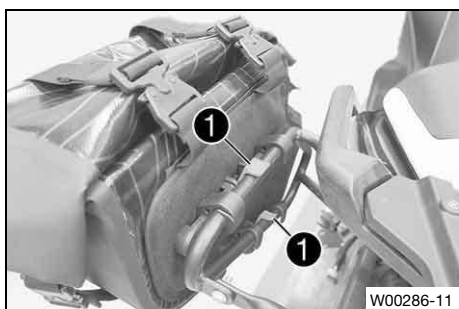
- Tighten screws **6**.

Screw, side bag rack	
M6	10 Nm (7.4 ft·lb) Loctite® 243

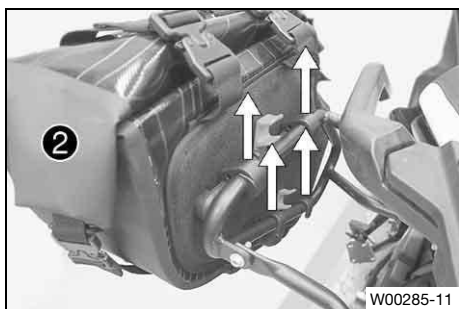
Reworking

- Install the left side cover.  (p. 106)
- Install the right side cover.  (p. 107)
- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)
- Fit the side bags.  (p. 105)

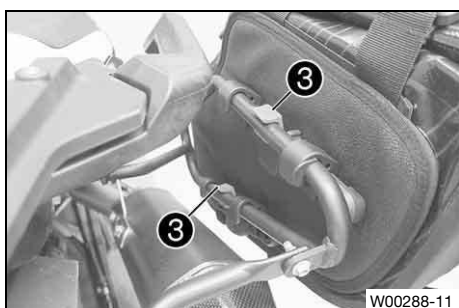
13.18 Removing the side bags (All special models)



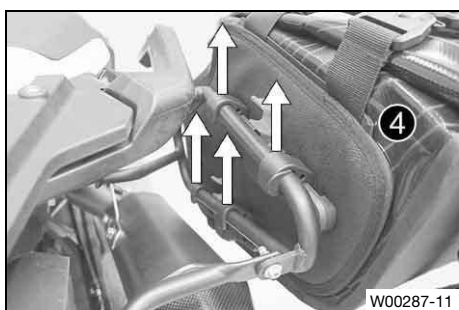
- To remove the bag, press locking clips **1** away from the rack.



- Remove side bag **2** upwards.



- To remove the bag, press locking clips **3** away from the rack.



- Remove side bag **4** upwards.

13.19 Fitting the side bags (All special models)



WARNING

Danger of accidents Loading luggage can significantly affect the handling characteristics. Luggage affects the handling, cornering and braking characteristics, particularly when fully laden, and increases crosswind sensitivity.

- Ride especially carefully in strong wind.
- Slowly accelerate to the permitted maximum speed.

Maximum speed with luggage mounted	130 km/h (80.8 mph)
------------------------------------	------------------------



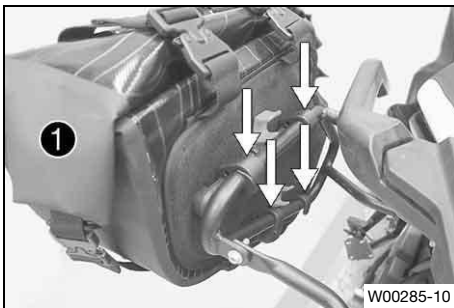
WARNING

Danger of accidents Overloading, a one-sided payload, or the luggage slipping impairs handling characteristics.

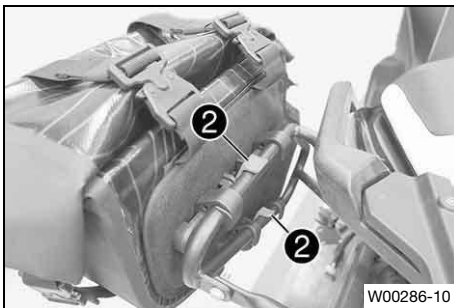
- Make sure that the maximum payload is not exceeded.

Payload per side bag	≤ 3 kg (≤ 6.6 lb)
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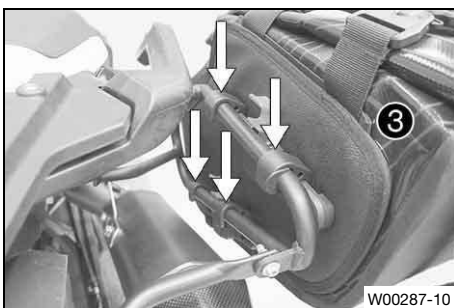
- Distribute the luggage evenly on both sides (for side bags mounted on both sides).
- Secure the side bags against slipping.



- Position left side bag brackets **1** above and below on the side bag rack and press downwards until they are firmly seated on the rack.

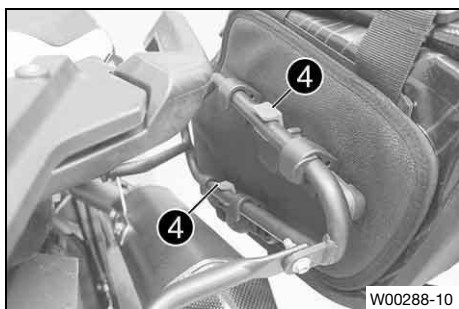


- Press locking clips **2** down until they click into place on the rack.



- Position right side bag brackets **3** above and below on the side bag rack and press downwards until they are firmly seated on the rack.

13 Service work on the chassis



- Press locking clips 4 down until they click into place on the rack.

Make sure that all accessory parts and pieces of luggage are carefully attached.

Check all the screw connections to ensure that they are tight.

The side bags must be kept closed at all times during the ride.

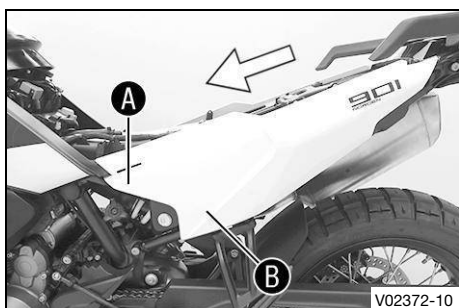
13.20 Removing the left side cover

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)

Removal process

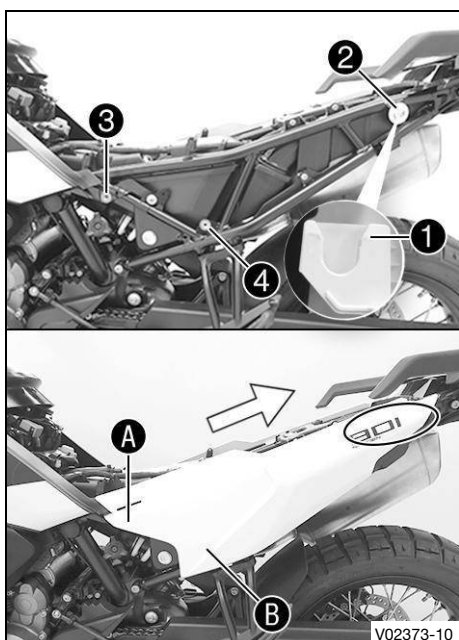
- Remove left side cover from the rubber bushings in the areas A and B.
- Pull off the left side cover sideways and remove it toward the front.



13.21 Installing the left side cover

Installation procedure

- 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 cover in area A into rubber bushing 3 and press into rubber bushing B in area 4.



Reworking

- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)



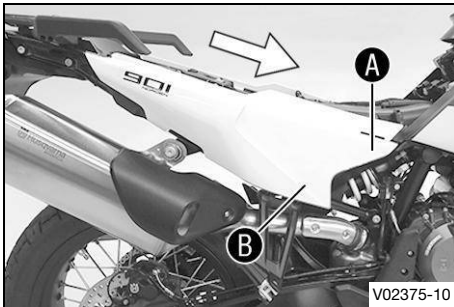
13.22 Removing the right side cover

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)

Removal process

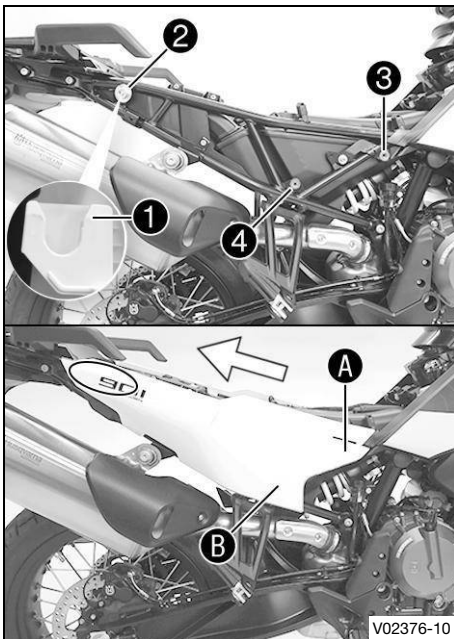
- Remove the side cover from the rubber bushings in areas **A** and **B**.
- Pull off the right side cover sideways and remove it toward the front.



13.23 Installing the right side cover

Installation procedure

- 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 cover in the area **A** into rubber bushing **3** and press into rubber bushing **B** in area **4**.



Reworking

- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)



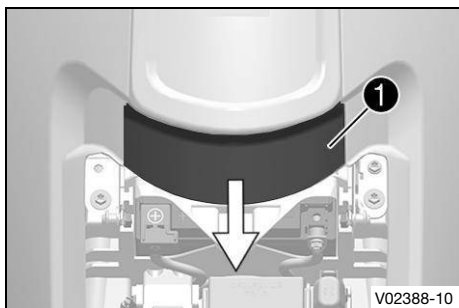
13.24 Removing the battery cover

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)

Removal process

- Pull battery cover **1** toward the rear out of the brackets.

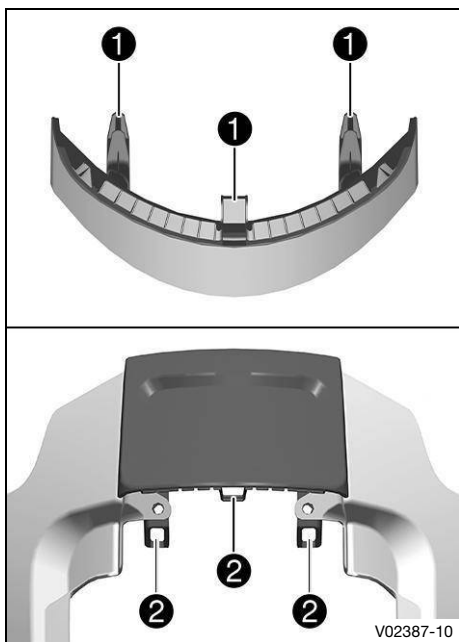


13.25 Installing the battery cover

Installation procedure

- Position the battery cover with holding lugs **1** on brackets **2** of the center fuel tank spoiler and push it forward.

Make sure the holding lugs engage in the brackets.



Reworking

- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)

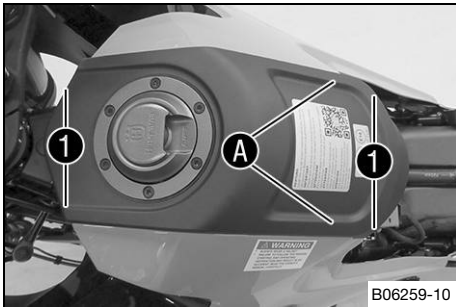
13.26 Removing the center fuel tank spoiler

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)
- Remove the battery cover.  (p. 108)

Removal process

- Remove **1** screws.
- Pull the center fuel tank spoiler in area **A** out of the bracket.



13.27 Installing the center fuel tank spoiler

Installation procedure

- Position the center fuel tank spoiler and press the holding lugs in area **A** into the bracket.

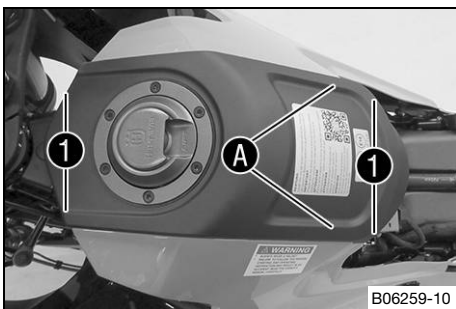
Make sure the holding lugs engage in the brackets.

- Mount and tighten screws **1**.

Screw, trim

M5

3 Nm
(2.2 ft·lb_f)



Reworking

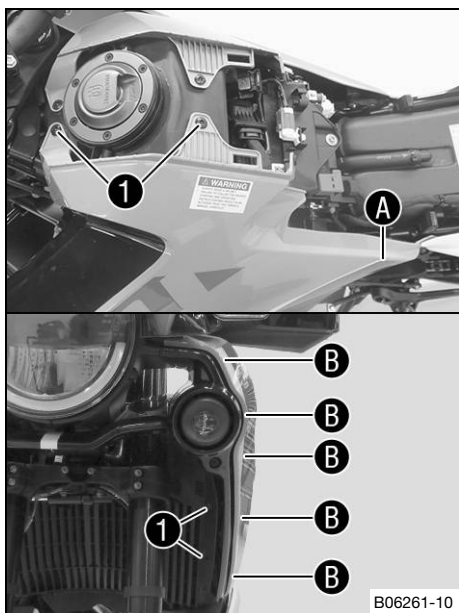
- Install the battery cover.  (p. 108)
- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)

13.28 Removing left fuel tank spoiler

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)
- Remove the battery cover.  (p. 108)
- Remove the center fuel tank spoiler.  (p. 109)

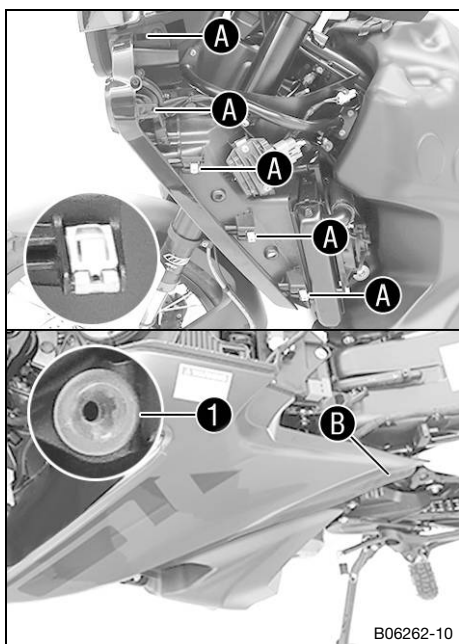
13 Service work on the chassis



Removal process

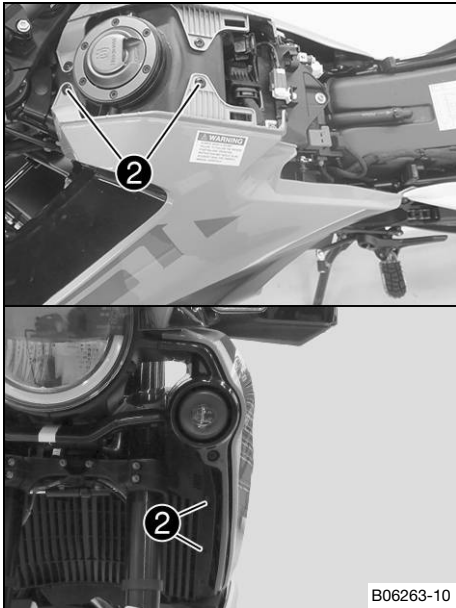
- Remove ❶ screws.
- Remove the left fuel tank spoiler from the rubber bushing in area ❶.
- Pull the left fuel tank spoiler in areas ❷ out of the brackets.
- Take off the left fuel tank spoiler, pulling it sideways.

13.29 Installing the left fuel tank spoiler



Installation procedure

- Position the left fuel tank spoiler and press it into the brackets in area ❶.
- Make sure the holding lugs engage in the brackets.
- Press the left fuel tank spoiler into rubber bushing ❶ in area ❷.



- Mount screws ②, but do not tighten yet.

Screw, trim	
M5	3 Nm (2.2 ft·lb _f)

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

Reworking

- Install the center fuel tank spoiler. 📖 (p. 109)
- Install the battery cover. 📖 (p. 108)
- Mount the front rider's seat. 📖 (p. 95)
- Mount the passenger seat. 📖 (p. 94)

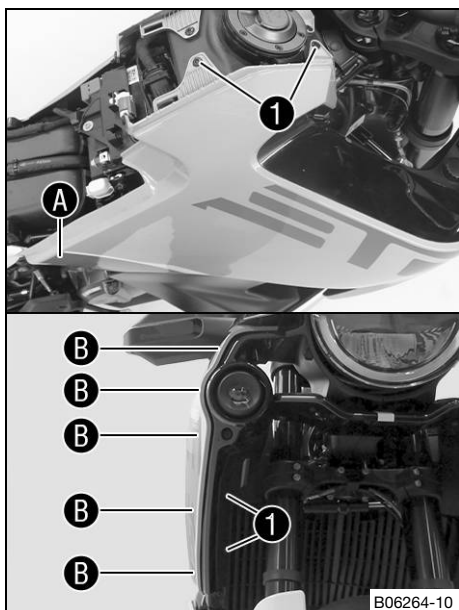


13.30 Removing the right fuel tank spoiler

Preparatory work

- Remove the passenger seat. 📖 (p. 94)
- Remove the front rider's seat. 📖 (p. 94)
- Remove the battery cover. 📖 (p. 108)
- Remove the center fuel tank spoiler. 📖 (p. 109)

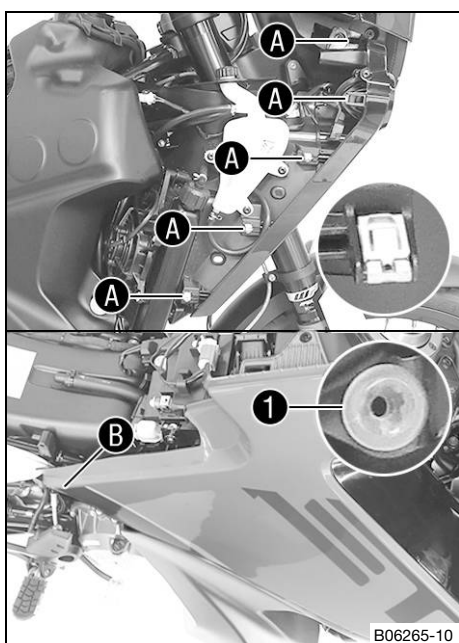
13 Service work on the chassis



Removal process

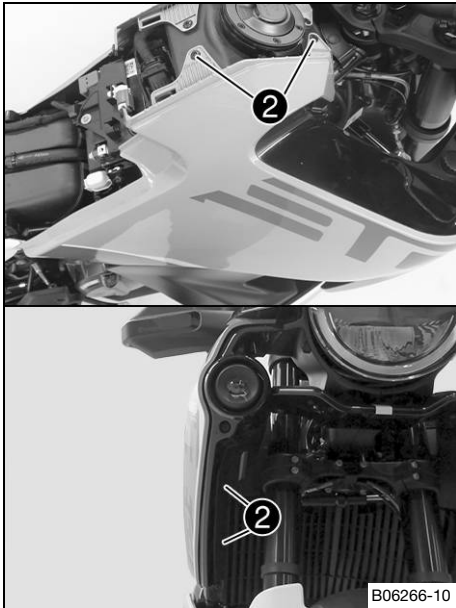
- Remove ❶ screws.
- Remove the fuel tank spoiler from the rubber bushing in area ❶.
- Pull the right fuel tank spoiler in areas ❷ out of the brackets.
- Take off the right fuel tank spoiler, pulling it sideways.

13.31 Installing the right fuel tank spoiler



Installation procedure

- Position the right fuel tank spoiler and press it into the brackets in area ❶.
- Make sure the holding lugs engage in the brackets.
- Press the right fuel tank spoiler into rubber bushing ❶ in area ❷.



- Mount screws **2**, but do not tighten yet.

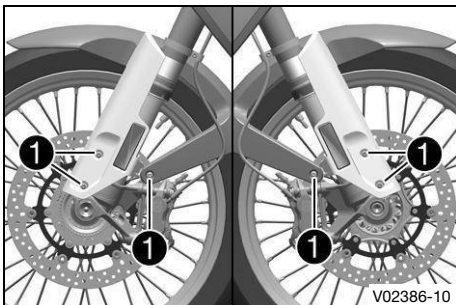
Screw, trim	
M5	3 Nm (2.2 ft·lb _i)

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

Reworking

- Install the center fuel tank spoiler. (p. 109)
- Install the battery cover. (p. 108)
- Mount the front rider's seat. (p. 95)
- Mount the passenger seat. (p. 94)

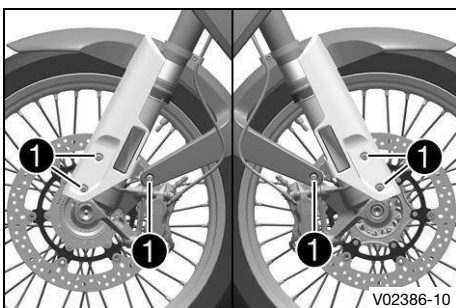
13.32 Removing the front top fender



- Remove **1** screws.
- Take the fender off to the front.

Pay attention to the brake lines and the cable.

13.33 Installing the front top fender



- Position the fender. Mount screws **1**, but do not tighten yet.

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

- Mount and tighten screws **1**.

Screw, trim	
M5	3 Nm (2.2 ft·lb _i)

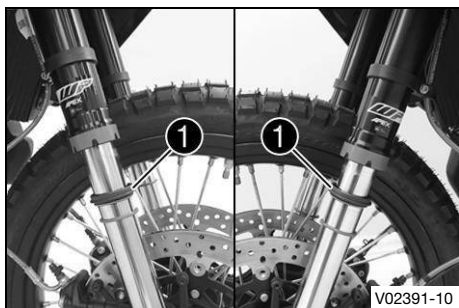
13.34 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with the rear lifting gear.  (p. 91)
- Lift the motorcycle with the front lifting gear.  (p. 91)

Cleaning process

- 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.

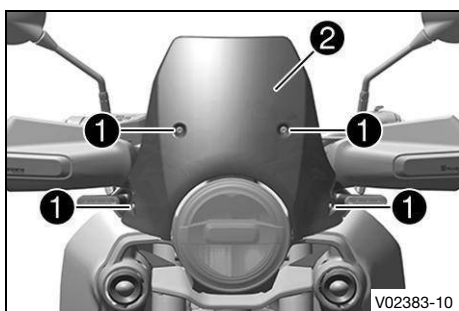
Universal oil spray  (p. 193)

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

Reworking

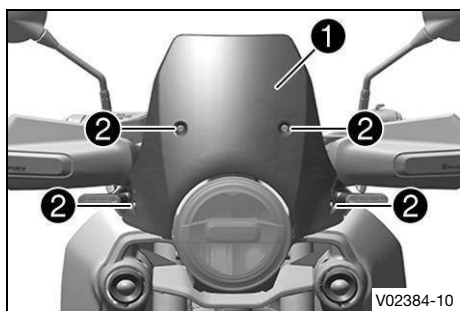
- Take the motorcycle off the front lifting gear.  (p. 92)
- Remove the rear of the motorcycle from the lifting gear.  (p. 91)

13.35 Removing the windshield



- Remove screws **1** and take off windshield **2**.

13.36 Installing the windshield

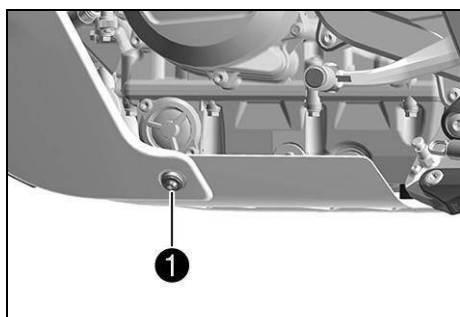


- Position windshield ①.
- Mount and tighten screws ②.

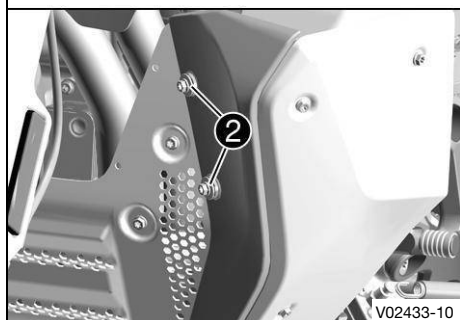
Windshield screw	
M5×14	5 Nm (3.7 ft·lb _f)



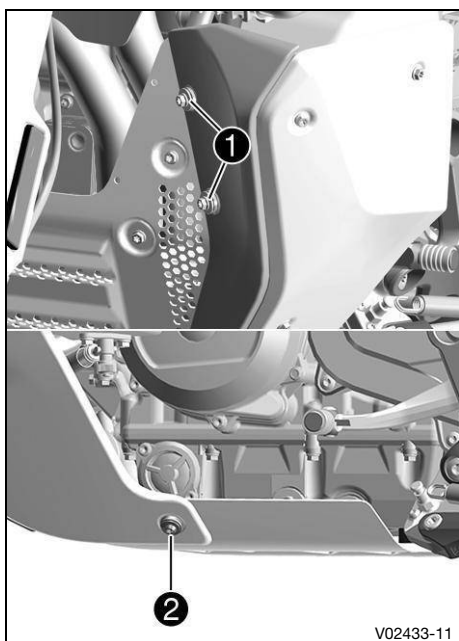
13.37 Removing left fuel tank cover



- Remove screw connection ①.
- Remove ② screws.
- Take off the left fuel tank cover, pulling it downward.



13.38 Installing the left fuel tank cover



- Position the left fuel tank cover.
- Mount screws ①, but do not tighten yet.

Screw, tank guard on engine guard, front	
--	--

M6×25	10 Nm (7.4 ft·lb _f)
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- Mount fitting ②, but do not tighten yet.

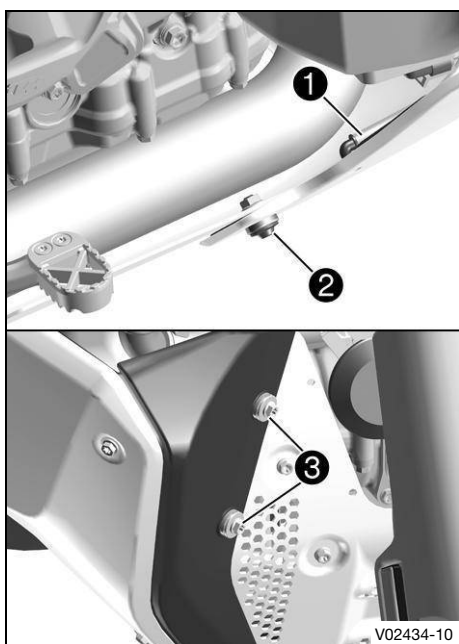
Screw, tank guard on engine guard, bottom	
---	--

M6×18	10 Nm (7.4 ft·lb _f)
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✓ The left fuel tank cover is directed evenly toward the front.

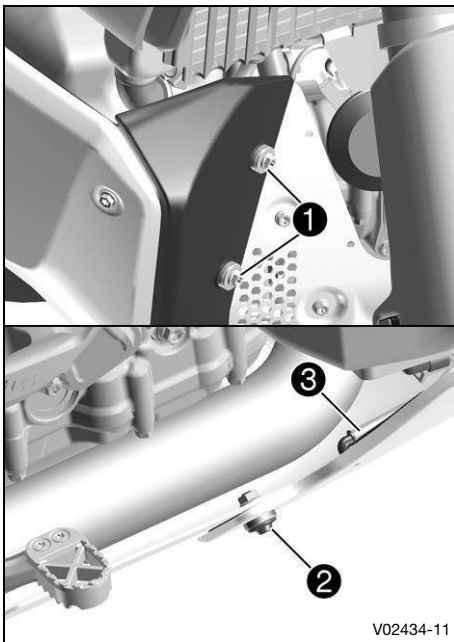
- Tighten all the screws of the left fuel tank cover.

13.39 Removing right fuel tank cover



- Pull out hose ① from the angle piece.
- Remove screw connection ②.
- Remove ③ screws.
- Remove right fuel tank cover.

13.40 Installing the right fuel tank cover



- Position the right fuel tank cover.
- Mount screws ①, but do not tighten yet.

Screw, tank guard on engine guard, front	
--	--

M6×25	10 Nm (7.4 ft·lb _f)
-------	------------------------------------

- Mount fitting ②, but do not tighten yet.

Screw, tank guard on engine guard, bottom	
---	--

M6×18	10 Nm (7.4 ft·lb _f)
-------	------------------------------------

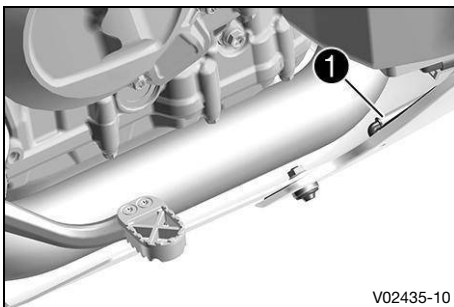
✓ The right fuel tank cover is directed evenly toward the front.

- Tighten all the screws of the right fuel tank cover.
- Attach hose ③ to the angle piece.

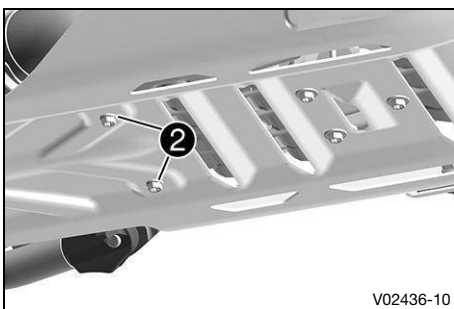


13.41 Removing the skid plate

(Norden 901)

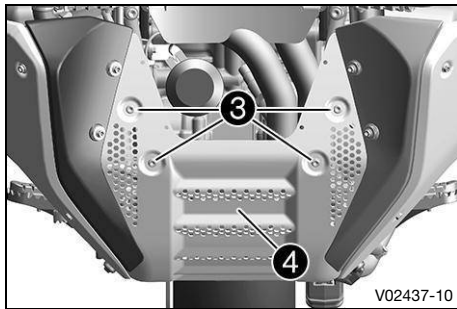


- Pull out hose ① from the angle piece.



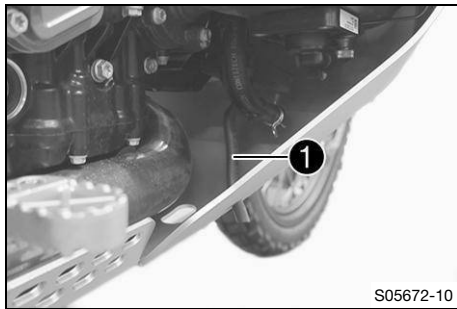
- Remove ② screws.

13 Service work on the chassis

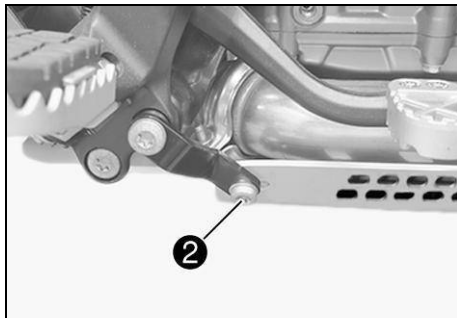


- Remove screws ③ and engine guard ④.

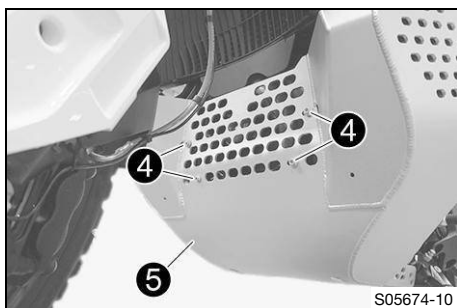
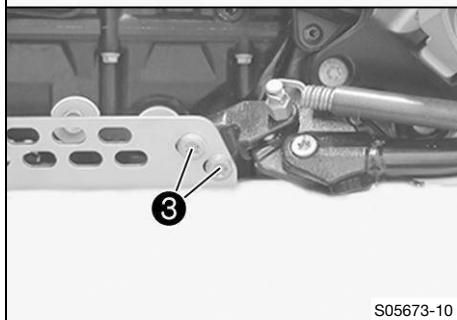
(All special models)



- Pull hose ① out of the engine guard.



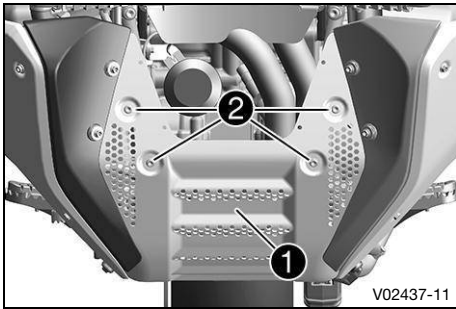
- Remove screw ② and screws ③.



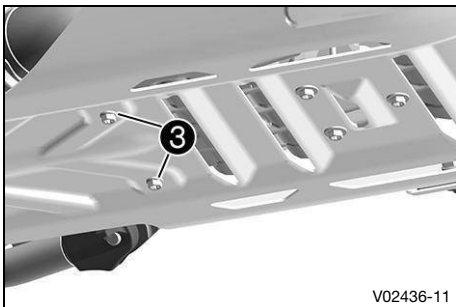
- Remove screws ④ and engine guard ⑤.

13.42 Installing the skid plate

(Norden 901)

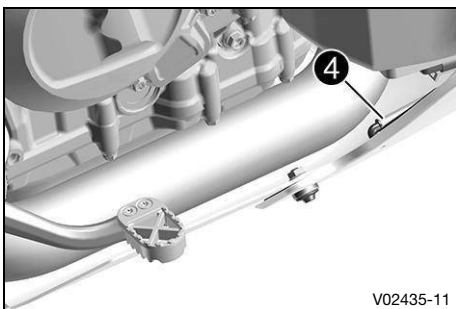


- Position engine guard **1**.
- Mount screws **2**, but do not tighten yet.



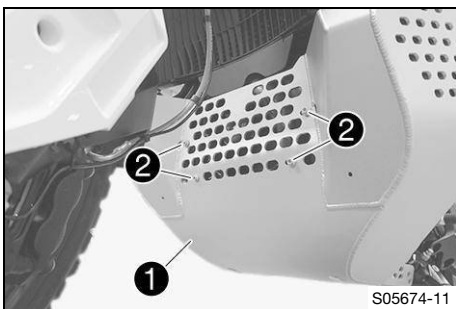
- Mount screws **3**, but do not tighten yet.
- Tighten all the screws of the skid plate.

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



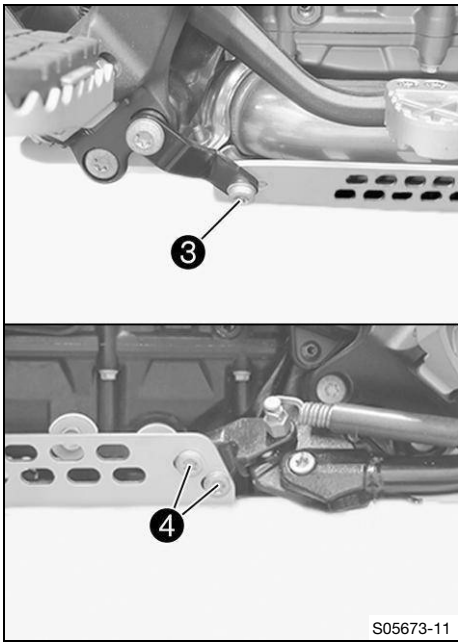
- Attach hose **4** to the angle piece.

(All special models)



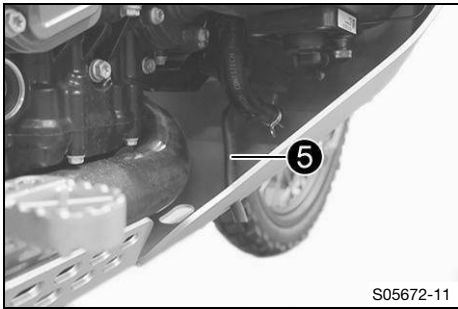
- Position engine guard **1**.
- Mount screws **2**, but do not tighten yet.

13 Service work on the chassis



- Mount screw 3 and screws 4, but do not tighten yet.
- Tighten all the screws of the skid plate.

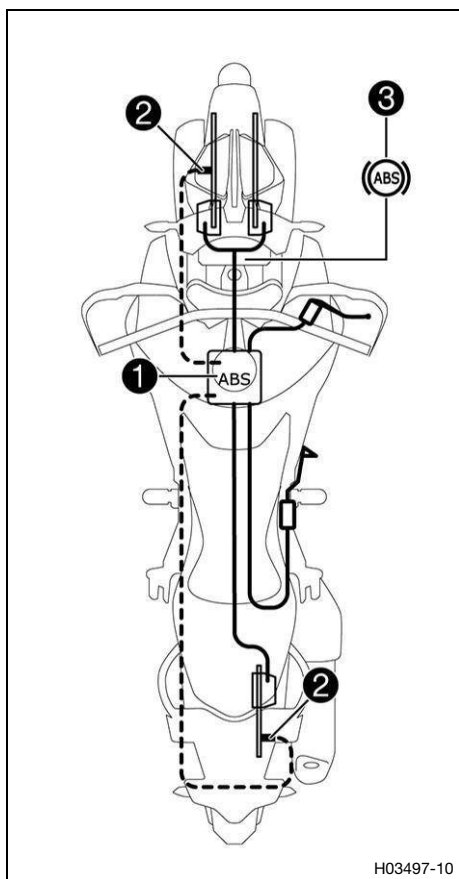
Screw, engine guard	
M6×13	10 Nm (7.4 ft·lb _f)
Screw, engine guard rack	
M8×20	15 Nm (11.1 ft·lb _f)
Screw, retaining bracket	
M8×20	15 Nm (11.1 ft·lb _f)



- Insert hose 5 through the engine guard.



14.1 Anti-lock braking system



H03497-10

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

**WARNING**

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

- Do not make any changes to the suspension travel.
- Only use spare parts on the brake system which have been approved and recommended by 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.

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

**WARNING**

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

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

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

**WARNING**

Danger of accidents An incorrectly selected ABS mode makes 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 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 **Explorer** (optional).

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

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

i 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.

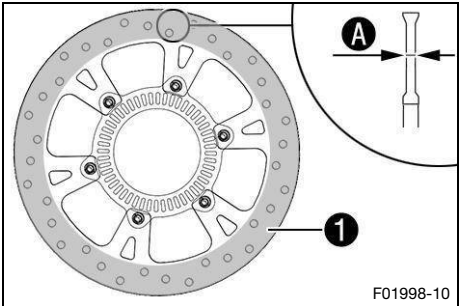
The ABS warning light **3** must light up after the ignition is switched on and go out after starting off. If it does not go out after starting off or if it lights up while riding, this indicates a malfunction in the ABS. In this case, the ABS is no longer enabled and the wheels may lock during braking. The brake system itself stays functional; only ABS control is not available.

The ABS warning light may also light up if the rotating speeds of the front and rear wheels differ greatly under extreme riding conditions, for example when doing a wheelie 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.

14.2 Checking 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)

- i 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 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.

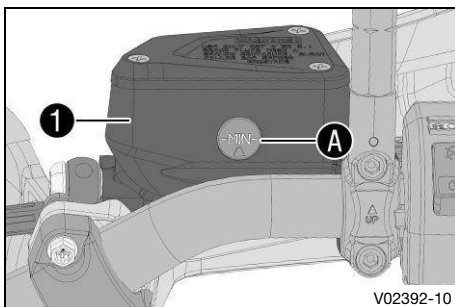
- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

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.



- 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. 123)

14.4 Adding brake fluid for the front brake



WARNING

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



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.



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. 124)

Filling procedure

- Move the brake reservoir mounted on the handlebar to a horizontal position.
- Remove **1** screws.
- Take off cover **2** with diaphragm **3**.
- Add brake fluid to mark **4**.

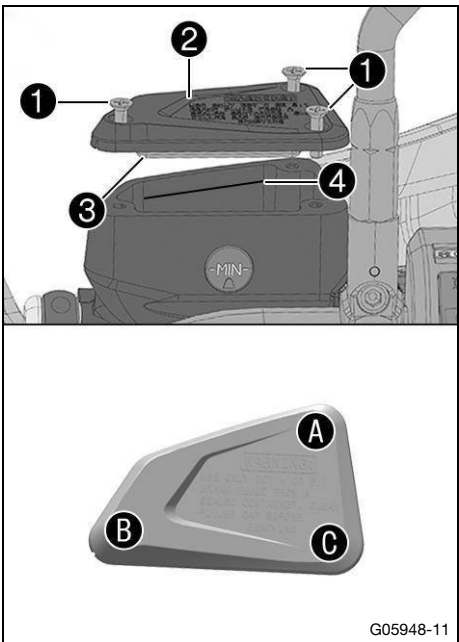
Brake fluid DOT 4 / DOT 5.1  (p. 194)

- Position cover **2** with diaphragm **3**.
- Mount screws **1** and tighten in the order **A B C**.

Brake fluid reservoir cover, front

2 Nm (1.5 ft·lb _f)

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



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.

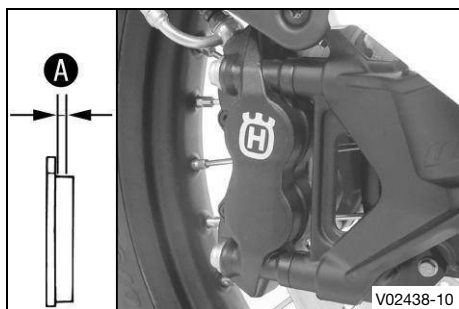


WARNING

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.



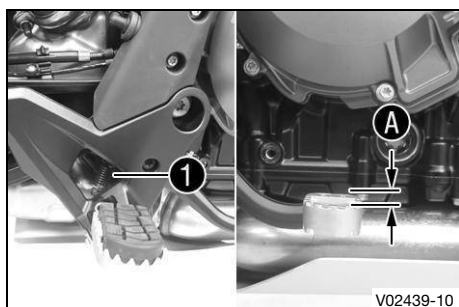
14.6 Checking the free travel of the brake pedal



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. 67)
- Attach spring **1**.



14.7 Checking the brake fluid level for the rear brake



WARNING

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.

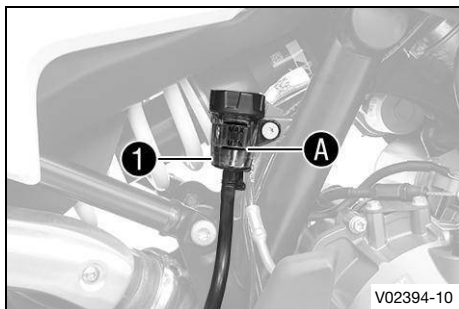
- Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



WARNING

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.



- 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. 126)

14.8 Adding brake fluid for the rear brake



WARNING

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

If the brake fluid level drops below the 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.



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.



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.

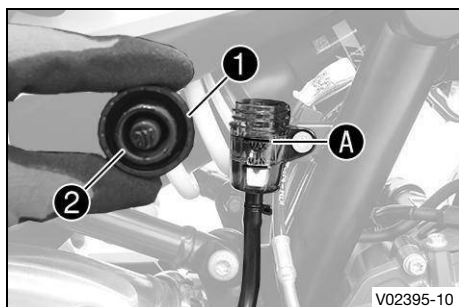


Note

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. 127)



Filling procedure

- 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 4 / DOT 5.1 (p. 194)

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

Brake fluid reservoir cover, rear

1.5 Nm (1.11 ft·lb _f)

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.

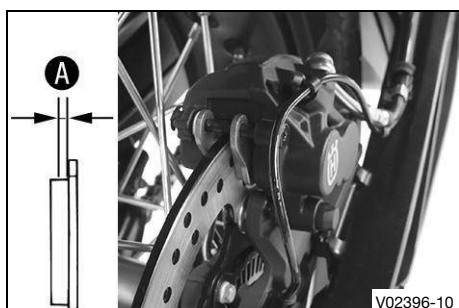


WARNING

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	≥ 1 mm (≥ 0.04 in)
-------------------------	-----------------------

- » If the minimum thickness is less than specified:
 - Change the rear brake pads.
- Check the brake linings 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

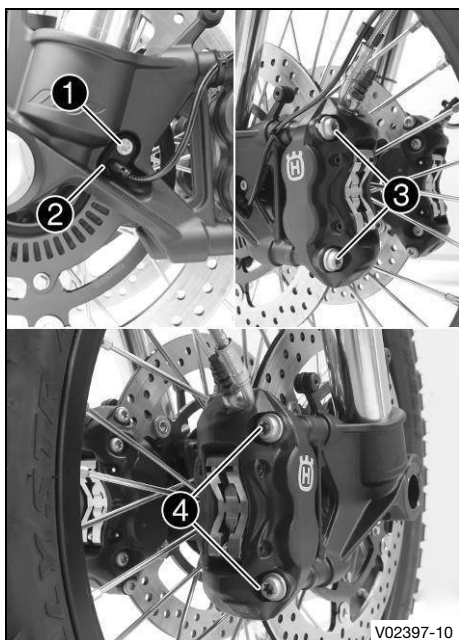
Preparatory work

- Raise the vehicle with the center stand.  (p. 93)
- Place a load on the rear of the vehicle.
- ✓ The front wheel is not in contact with the ground.

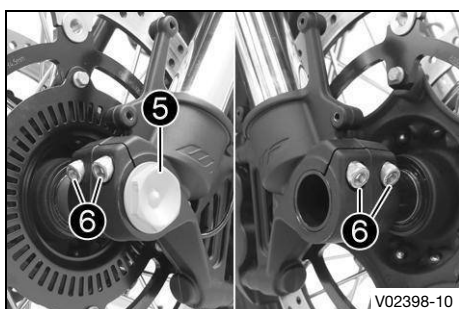
Removal process

- 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**.

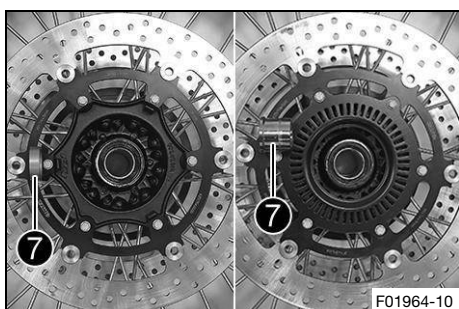


WARNING

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**.



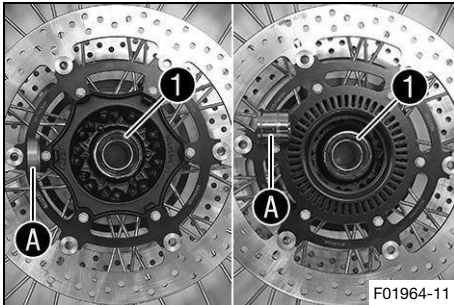
15.2 Installing the front wheel



WARNING

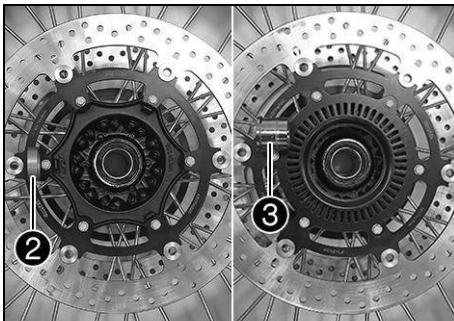
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.

- 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. 193)

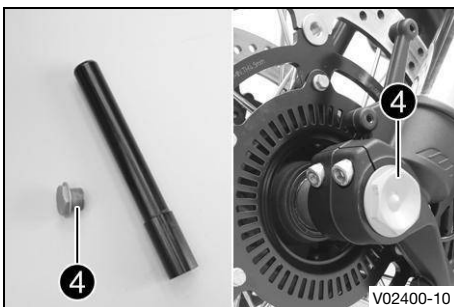
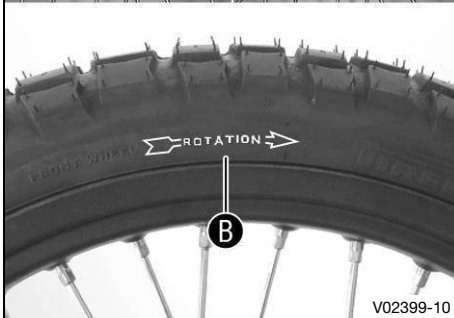


- Insert narrow spacer (2) on the right in the direction of travel.
- Insert wide spacer (3) on the left in the direction of travel.

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. 193)

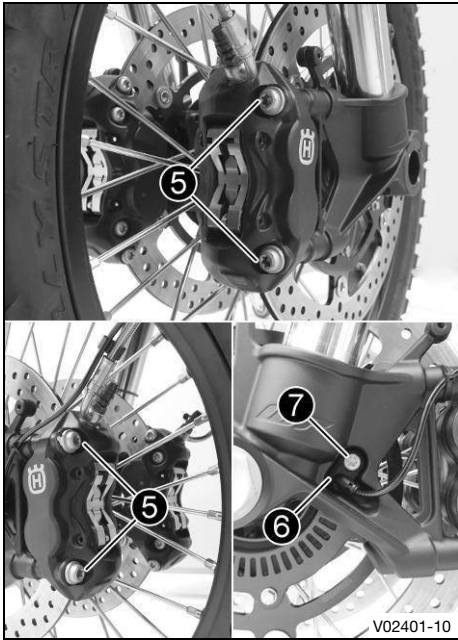
- Jack up the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw (4).

Screw, wheel spindle, front

M25×1.5

45 Nm
(33.2 ft·lb_f)

Long-life grease



- 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	10 Nm (7.4 ft·lb _f)

- Remove the locking piece of the hand brake lever.

Removing the vehicle from the center stand

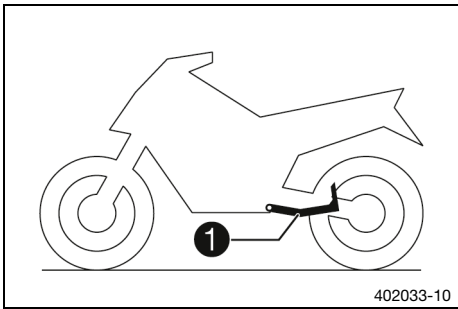


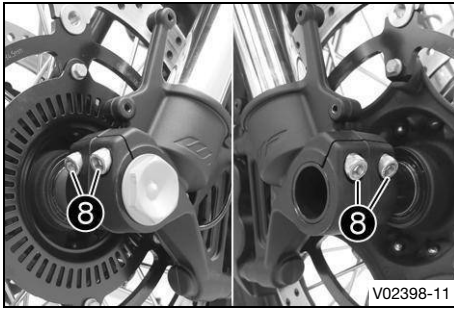
NOTE

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.
-
- Make sure that the steering is unlocked.
 - Move the vehicle forward with both hands on the handlebar.
 - While the vehicle tips off the center stand, actuate the front brake to stop the vehicle from rolling away.
 - Check that the center stand 1 is folded all the way up.





- 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)

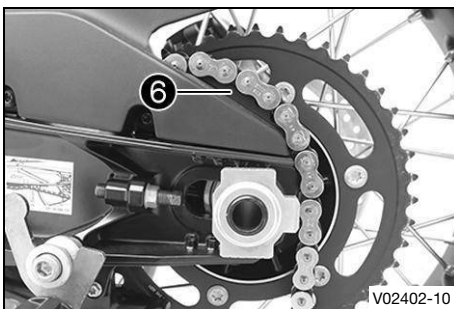
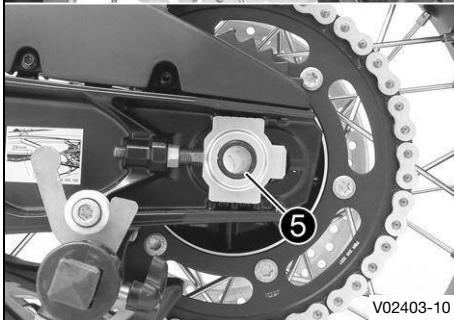
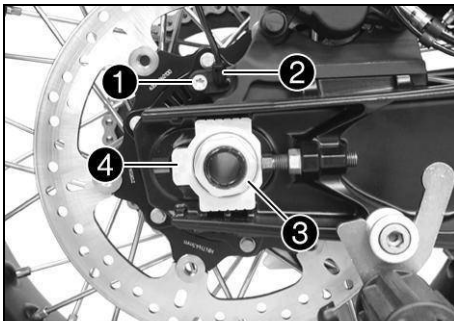
15.3 Removing the rear wheel

Preparatory work

- Raise the vehicle with the center stand. (p. 93)
- Raise the motorcycle with the rear lifting gear. (p. 91)

Removal process

- 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 actuate the brake pedal 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.

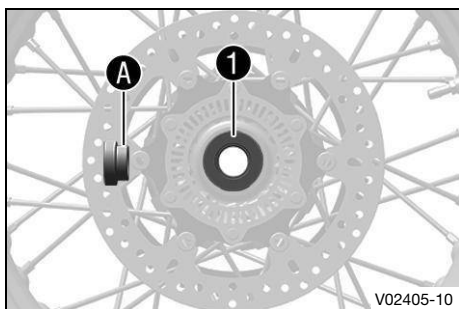
- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



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.



Installation procedure

- Check the rear hub damping rubber pieces. (p. 133)
- 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. 193)

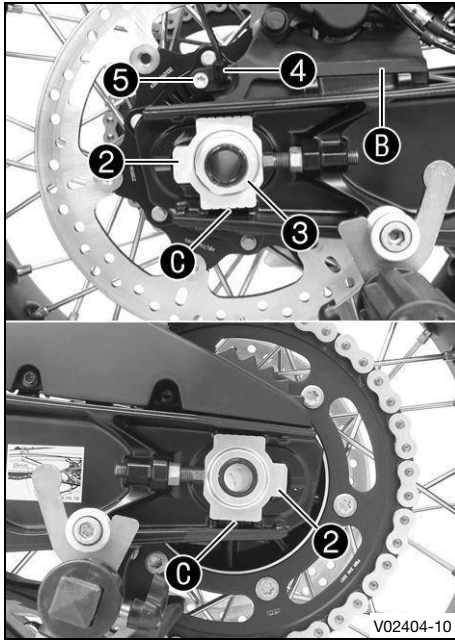
- Insert a spacer.
- Clean and grease the thread of the wheel spindle and nut.

Long-life grease (p. 193)

- Clean and lightly grease the wheel spindle.

Long-life grease (p. 193)

- 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 adjusters 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) 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)
----	---------------------

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

Reworking

- Check the chain tension. (p. 96)
- Remove the rear of the motorcycle from the lifting gear. (p. 91)
- Remove the vehicle from the center stand. (p. 130)



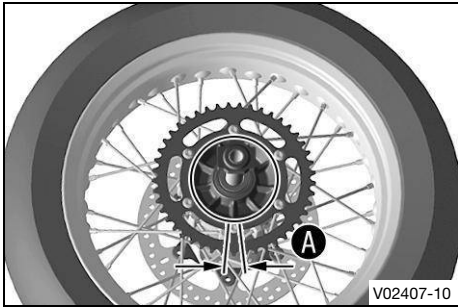
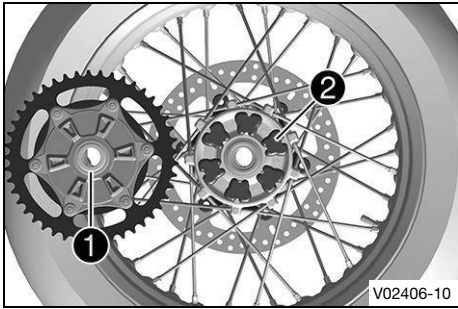
15.5 Checking the rear hub damping rubber pieces

Note

The engine power is transmitted from the rear sprocket to the rear wheel via the 6 damping rubber pieces. These 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 vehicle with the center stand. (p. 93)
- Raise the motorcycle with the rear lifting gear. (p. 91)
- Remove the rear wheel. (p. 131)



Control process

- 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 ①A, 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)
---	-----------------------

i Note
Measure the play on the outside of the rear sprocket.

- » If clearance ①A is larger than the specified value:
 - Change all the damping rubber pieces of the rear hub. 🛠️

Reworking

- Install the rear wheel. 🛠️ 📖 (p. 132)
- Check the chain tension. 📖 (p. 96)
- Remove the rear of the motorcycle from the lifting gear. 📖 (p. 91)
- Remove the vehicle from the center stand. 📖 (p. 130)

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 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**
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.

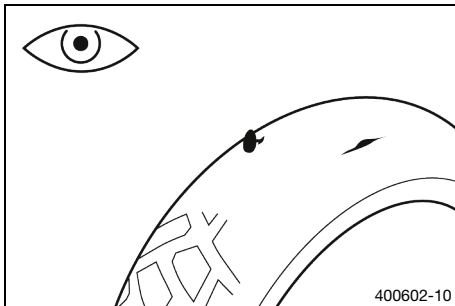
The contact surface on new tires is not yet roughened.

- Run in new tires with moderate riding and only gradually increase the lean angle.

Run-in distance	200 km (124.3 mi)
-----------------	----------------------

**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)
---------------------	-----------------------

**Note**

Adhere to the legally required minimum tread depth specific to the country concerned.

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

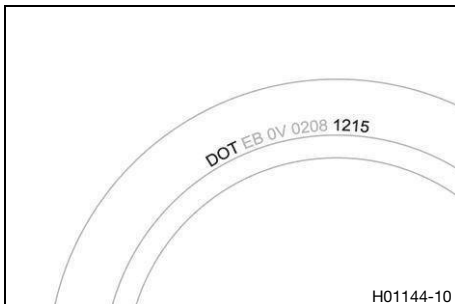
- Check the tire age.

**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.

Husqvarna Mobility recommends changing the tires, regardless of the actual wear, after 5 years at the latest.

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

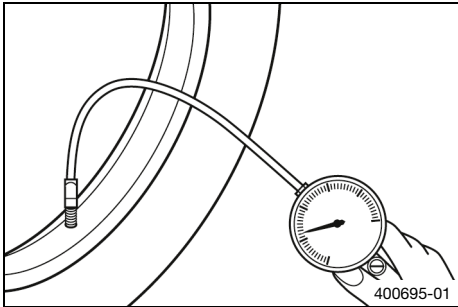


15.7 Checking the tire pressure

**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)

Off-road tire pressure	
front	1.8 bar (26.1 psi)
rear	1.8 bar (26.1 psi)

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

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

15.8 Checking the spoke tension

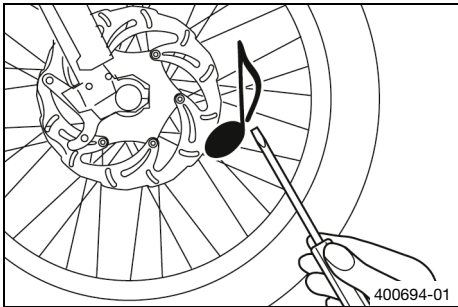
WARNING

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.

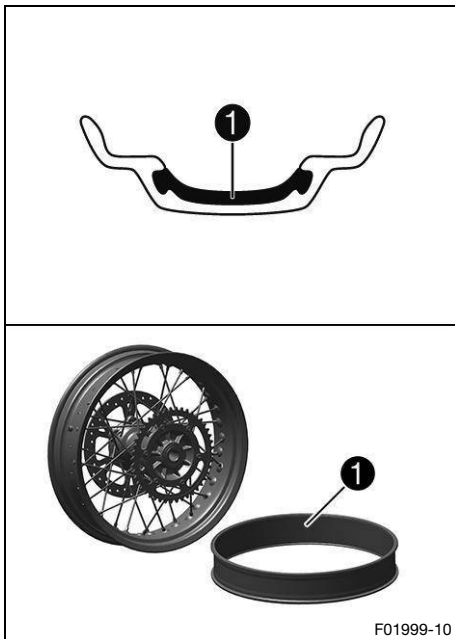
Note

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.

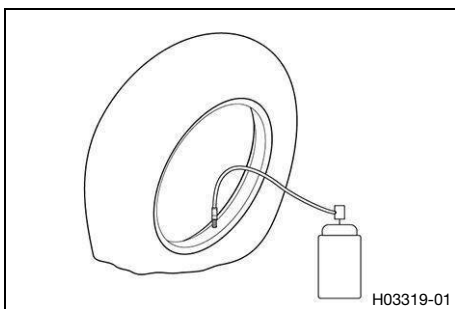
The advantage of the tubeless system is that there is no danger of a faulty tube. This greatly reduces the risk of a sudden loss in pressure.

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

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

Husqvarna Mobility recommends that the rim rubber seal is 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 to the nearest workshop and have the tire changed.

Tire repair spray should only be used in an emergency.

We recommend transporting the broken down vehicle to the nearest workshop instead of using tire repair spray.



NOTE

Material damage Tire repair spray damages the tire pressure sensor.

- Note that after using tire repair spray, the tire pressure sensor may need to be replaced.

16.1 Removing 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.



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.

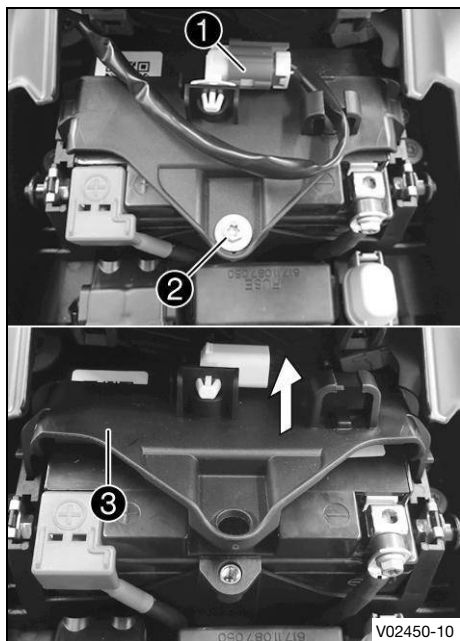
- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

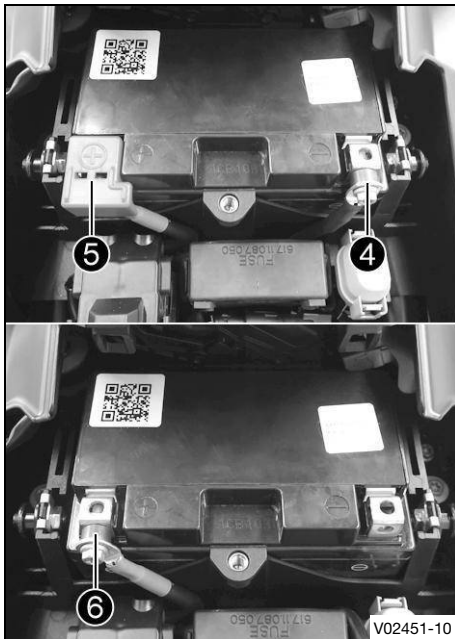
Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)
- Remove the battery cover.  (p. 108)

Removal process

- 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.



16.2 Installing 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.

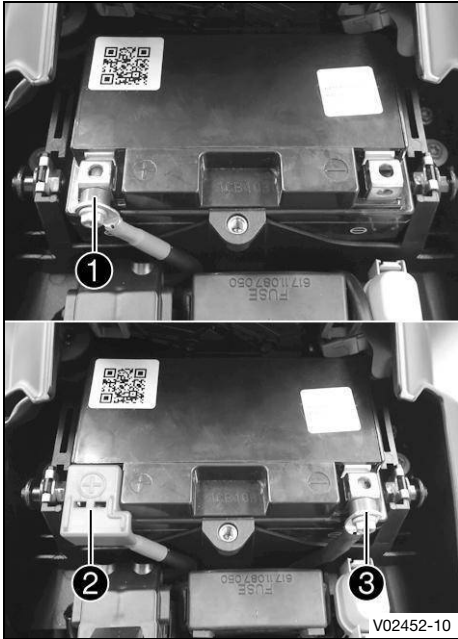


WARNING

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.



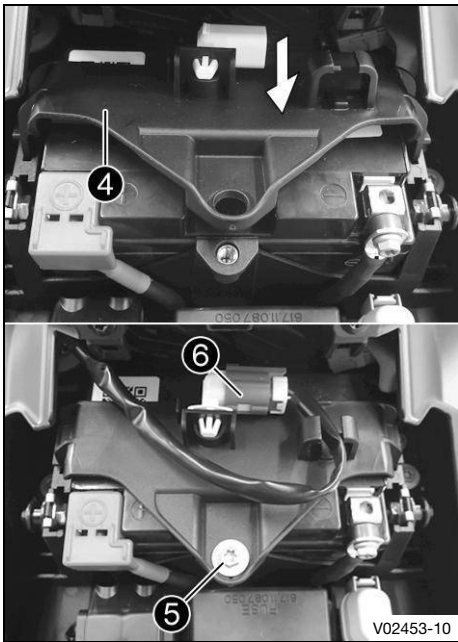
Installation procedure

- Position the 12-V battery in the battery compartment.
12 V battery (HTZ12A-BS) (p. 195)
- ✓ 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. 108)
- Mount the front rider's seat. (p. 95)
- Mount the passenger seat. (p. 94)
- Set time and date. (p. 62)

16.3 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.

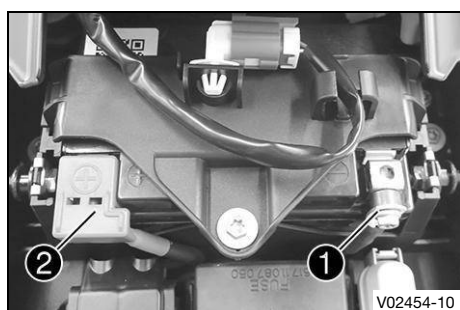
The 12 V battery is maintenance-free. The acid level does not have to be checked.

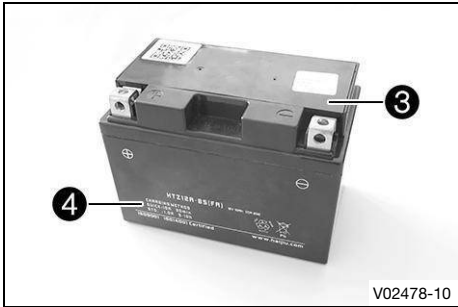
Preparatory work

- Remove the passenger seat. (p. 94)
- Remove the front rider's seat. (p. 94)
- Remove the battery cover. (p. 108)

Filling procedure

- Disconnect negative cable ❶ from the 12 V battery to avoid damaging the onboard electronics.
- Remove positive terminal cover ❷.

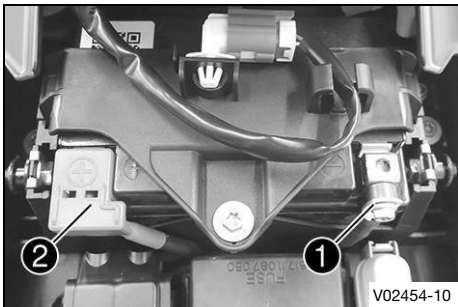




- Connect a charger to the 12 V battery. Switch the charger on.

The battery charger must be suitable for the 12-V battery.
Do not remove cover 3.
Charge the 12-V battery to a maximum of 10% of the capacity specified on battery housing 4.
- Switch off the charger after charging and disconnect from the 12 V battery.

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 _f)

Reworking

- Install the battery cover. (p. 108)
- Mount the front rider's seat. (p. 95)
- Mount the passenger seat. (p. 94)
- Set time and date. (p. 62)

16.4 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

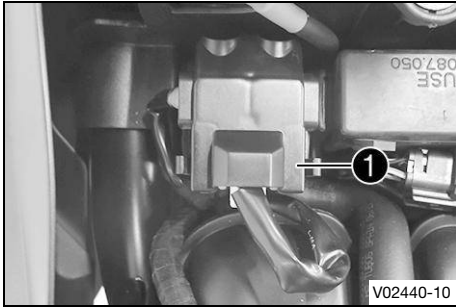
The main fuse protects all electrical power loads of the vehicle. The main fuse is under the seat.

Preparatory work

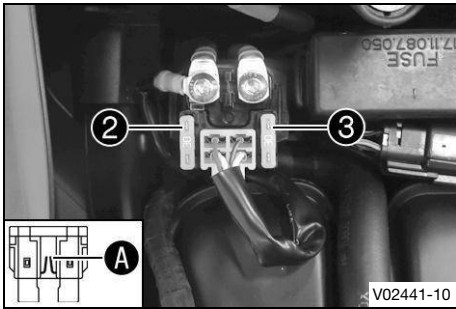
- Remove the passenger seat. (p. 94)
- Remove the front rider's seat. (p. 94)

Replacement process

- 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.

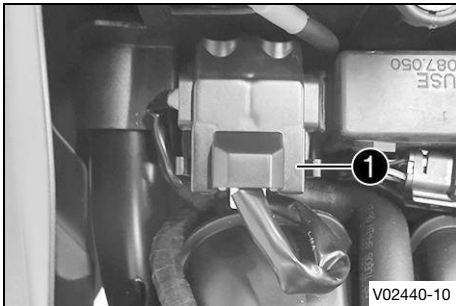
Fuse (58011109130) (p. 196)



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. 95)
- Mount the passenger seat. (p. 94)
- Set time and date. (p. 62)



16.5 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.

i Note

Two fuses for the ABS are located under the seat. These fuses protect the return pump and the hydraulic unit of the ABS. The third fuse, which protects the ABS control unit, is located in the fuse box.

Preparatory work

- Remove the passenger seat.  (p. 94)
- Remove the front rider's seat.  (p. 94)

Replacement process

- 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 (75011088010)  (p. 195)



Tip

Insert spare fuse ② in the fuse box so that it is available if needed.

- Mount the protection cap.
- Remove the protection cap and fuse ③.



Note

A faulty fuse has a burned-out fuse wire **A**.

- Insert the spare fuse with the correct rating.

Fuse (75011088025)  (p. 196)



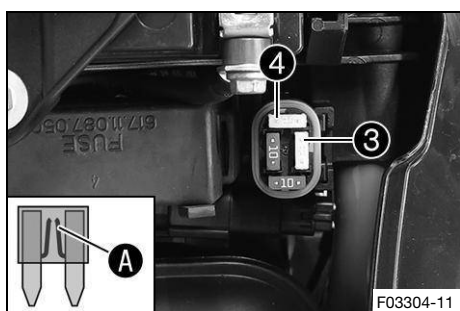
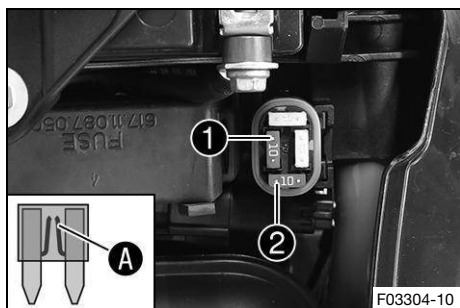
Tip

Insert spare fuse ④ in the fuse box so that it is available if needed.

- Mount the protection cap.

Reworking

- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)



16.6 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**

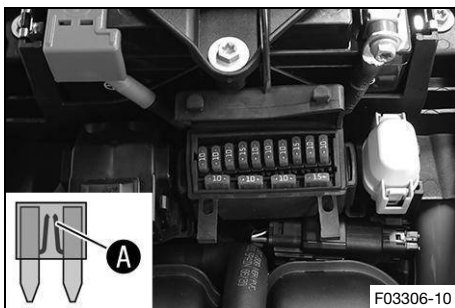
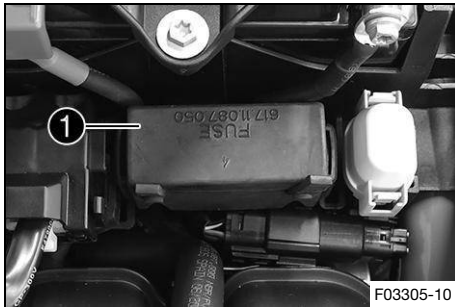
The fuse box containing the fuses of individual electrical power consumers is located under the seat.

Preparatory work

- Remove the passenger seat. (p. 94)
- Remove the front rider's seat. (p. 94)

Replacement process

- Open fuse box cover **1**.



- 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, USB charging socket, supplementary headlight, HCU (optional)
Fuse 9 - 10 A - ABS control unit, diagnostics connector, 6D sensor, TPMS (function optional)
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) (p. 195)
Fuse (75011088015) (p. 195)

**Tip**

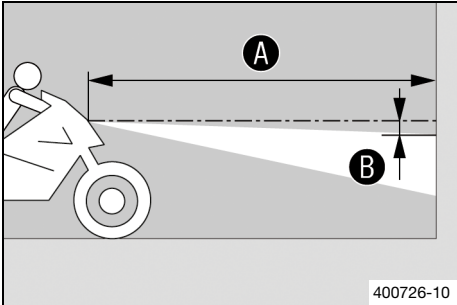
Put a spare fuse in the fuse box so that it is available if needed.

- Check the function of the electrical power consumers.
- Close the fuse box cover.

Reworking

- Mount the front rider's seat.  (p. 95)
- Mount the passenger seat.  (p. 94)

16.7 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. 146)

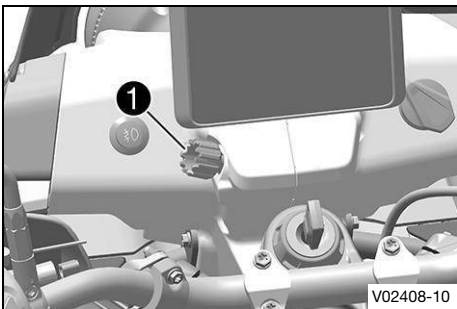
16.8 Adjusting the headlight range

Preparatory work

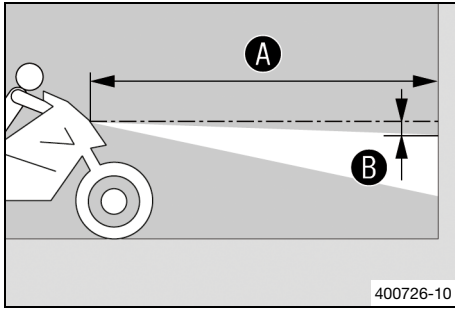
- Check the headlight setting.  (p. 146)

Adjustment procedure

- Turn adjusting wheel **1** to adjust the headlight range.



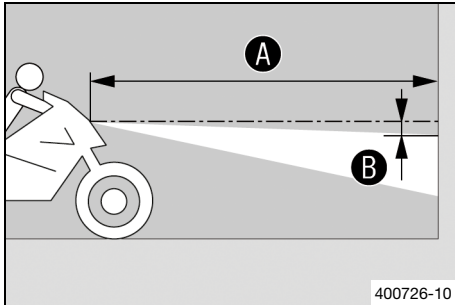
Note
Turn clockwise to reduce the headlight range; turn counterclockwise to increase the headlight range.
If you have a load, you may have to correct the headlight range.



- Set the headlight to marking **B**.

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

16.9 Checking the supplementary 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 supplementary headlight.

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 the supplementary headlight range.

 (p. 147)

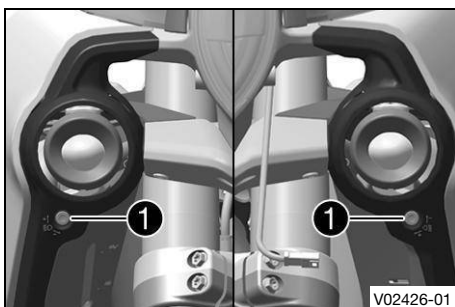
16.10 Adjusting the supplementary headlight range

Preparatory work

- Check the supplementary headlight setting.  (p. 147)

Adjustment procedure

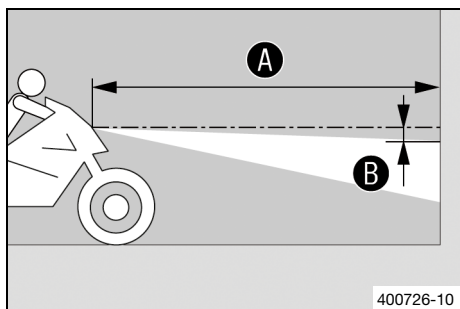
- Use adjusting screws **1** to adjust the supplementary headlight range.



i Note

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

If you have a load, you may have to correct the headlight range of the auxiliary headlights.



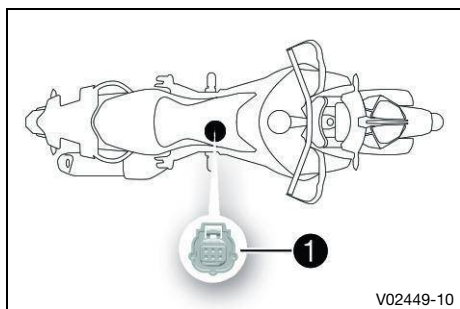
- Set the headlight to marking **B**.

Comply with country-specific specifications.

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

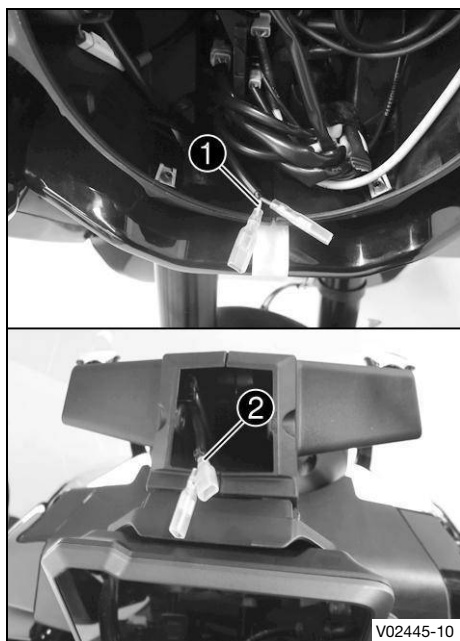
- Adjust the supplementary headlight range equally on both sides.

16.11 Diagnostic connector



Diagnostics connector **1** is located under the battery cover.

16.12 Front ACC1 and ACC2



Installation location

- The front power supply ACC1 **1** is located behind the headlight.
The front power supply ACC2 **2** is located behind the mask support cover.

i Note

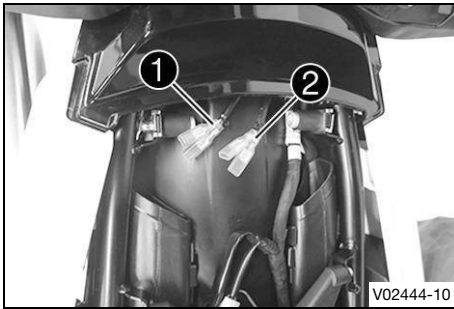
The power supplies are protected by a fuse; however, this fuse also protects other electrical power consumers.

The maximum continuous load is therefore significantly lower than the value of the fuse.

Do not use a stronger fuse.

The power supply ACC1 is switched to permanent positive; connected power consumers are permanently supplied with current, regardless of ignition.

The power supply ACC2 is switched to ignition plus; connected power consumers are only supplied with power when the ignition is switched on.

16.13 Rear ACC1 and ACC2**Installation location**

- Power supplies ACC1 ① and ACC2 ② rear are located under the seat.

**Note**

The cable insulation label indicates the type of power supply.

**Note**

The power supplies are protected by a fuse; however, this fuse also protects other electrical power consumers.

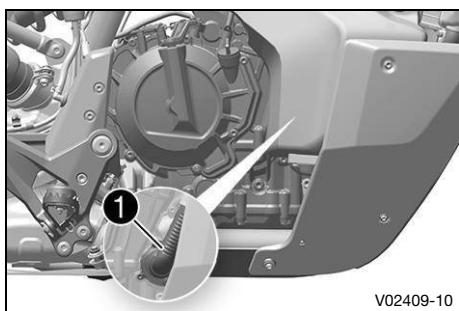
The maximum continuous load is therefore significantly lower than the value of the fuse.

Do not use a stronger fuse.

The power supply ACC1 is switched to permanent positive; connected power consumers are permanently supplied with current, regardless of ignition.

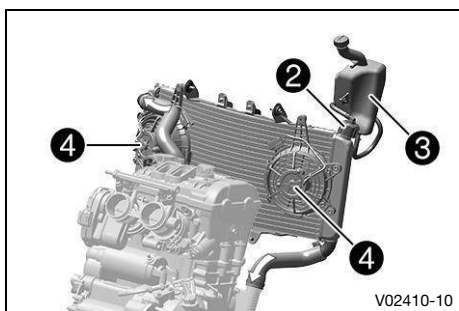
The power supply ACC2 is switched to ignition plus; connected power consumers are only supplied with power when the ignition is switched on.

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

- 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.

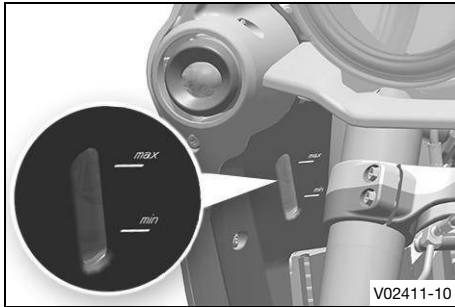


WARNING

- 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.

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 compensating tank is not at the required level, but the tank is not empty:
 - Correct the coolant level in the compensating tank.  (p. 151)



17.3 Correcting the coolant level in the compensating tank



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.



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.

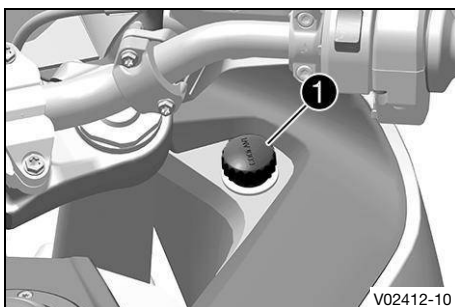
Condition: The engine is cold, Radiator is completely full

Preparatory work

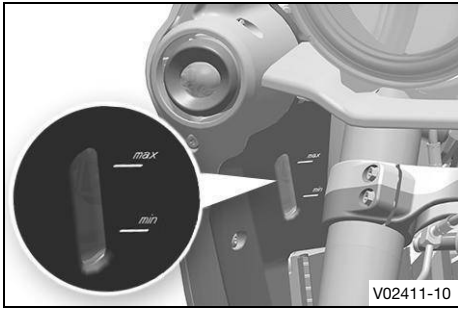
- Check the coolant level in the compensating tank.  (p. 150)

Filling procedure

- 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. 194)	1.60 l
Antifreeze protection to at least: -25 °C (-13.0 °F)	(0.423 liq. gal _{US})

- Mount cover ❶ of the compensating tank.

Compensating tank cover	
	1.1 Nm (0.81 ft·lb _f)

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 dashboard in the **Ride Mode** submenu: **Street**, **Rain**, **Offroad** and **Explorer** (optional).

The most recently selected riding mode appears in the display.

The riding mode can also be changed while riding with the throttle grip closed.



Note

The riding mode selection does not influence the **ABS**.

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. 153), different amounts of slip are allowed when traction control is activated.



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.

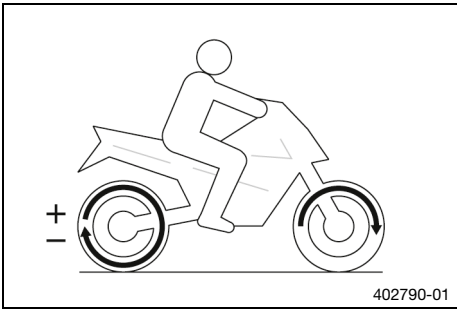


Note

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 **Explorer** riding mode (optional).

18.4 Throttle (optional)



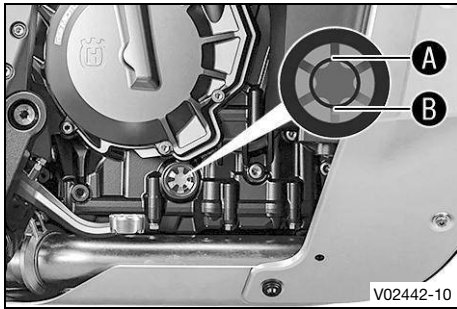
Condition	Meaning
Street	Balanced response
Rally	Extremely direct response
Offroad	Very direct response

In the combination instrument the characteristics of the throttle response can be adjusted via the **Throttle** submenu. The **Throttle** can also be set while riding with a closed throttle grip.

i Note
Throttle is only available in riding mode **Explorer** (optional).

19.1 Checking the engine oil level

Condition: The engine is at operating temperature



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

The engine oil must be between marking **A** and marking **B** of the oil level viewer.

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

- » If the engine oil level is below the marking **B**:
 - Add engine oil. (p. 157)
- » 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.

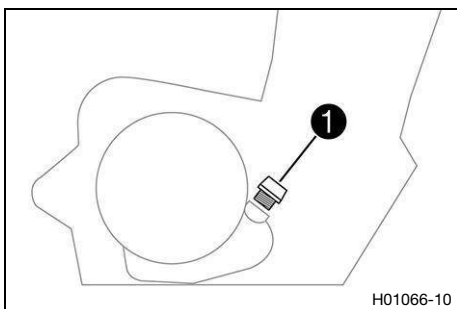
Condition: The engine is at operating temperature

Preparatory work

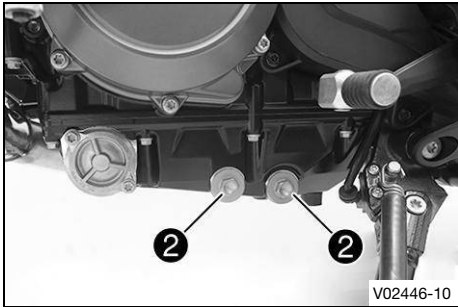
- Remove the skid plate. (p. 117)

Replacement process

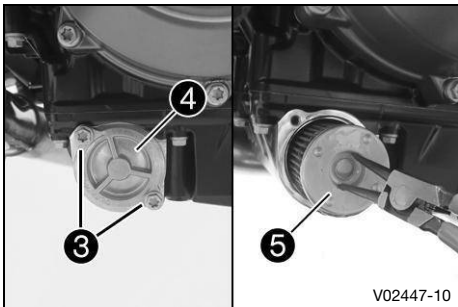
- Rest the motorcycle on its side stand on a horizontal surface.
- Position an appropriate container under the engine.
- Remove filler plug **1** with the O-ring.



19 Service work on the engine



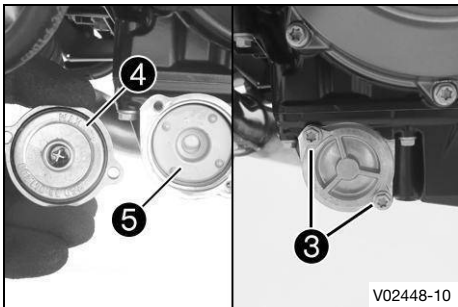
- Remove oil drain plugs **2** along with the magnets, the O-rings, and the oil screens.



- Remove **3** screws.
- 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.

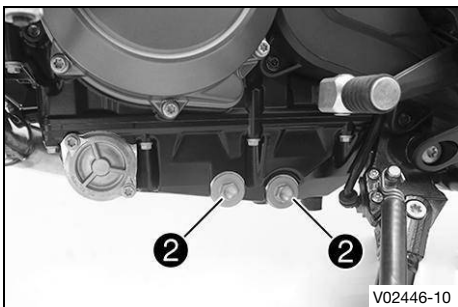
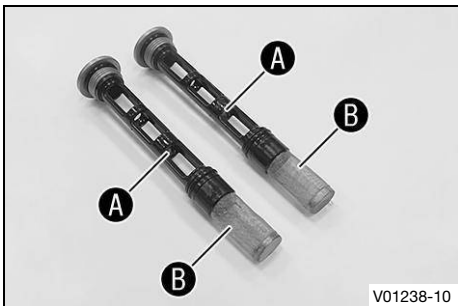


- Insert new oil filter **5**.
- Oil the new O-ring of the oil filter cover.
- Position oil filter cover **4**.
- Mount and tighten screws **3**.

Screw, oil filter cover

M5	6 Nm (4.4 ft·lb _f)
----	-----------------------------------

- 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.

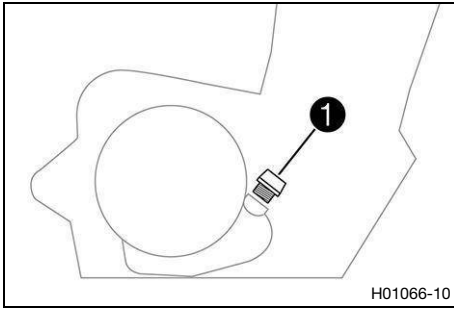
Plug, oil screen

M20×1.5	20 Nm (14.8 ft·lb _f)
---------	-------------------------------------

- Fill up with engine oil at the clutch cover.

engine oil

engine oil (10W/50)  (p. 193) 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. 155)
- Install the skid plate. (p. 119)

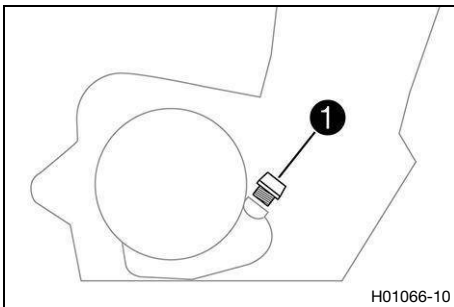


19.3 Adding engine oil



Note

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



Filling procedure

- Remove oil plug **1** with O-ring.
- Fill engine oil to the middle of the level viewer.

engine oil	
engine oil (10W/50) (p. 193) fully synthetic	2.8 l (0.74 liq. gal _{US})



Note

In order to achieve optimal engine oil performance, it is not advisable to mix different engine oils.

Husqvarna Mobility recommends changing the engine oil when necessary.

- 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. 155)

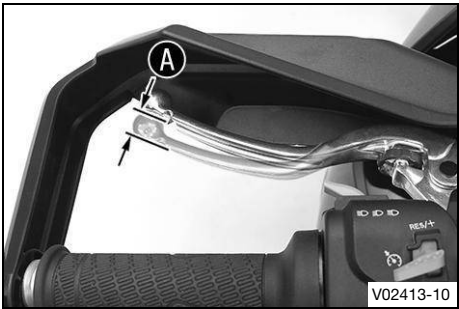
19.4 Checking the free travel of the clutch lever



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 **A**.

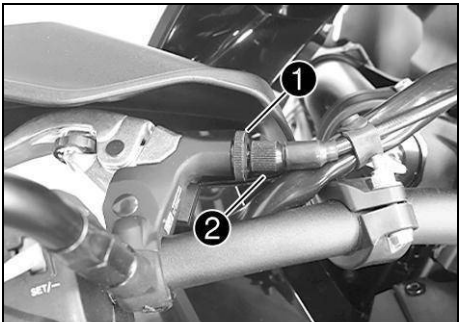
Free travel A of clutch lever	5 mm (0.20 in)
--------------------------------------	-------------------

- » If the free travel of the clutch lever does not meet specifications:
 - Set the free travel of the clutch lever.   (p. 158)
- 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.

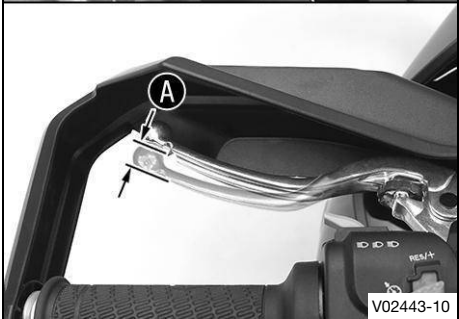
19.5 Adjusting the free travel of the clutch lever



- 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.

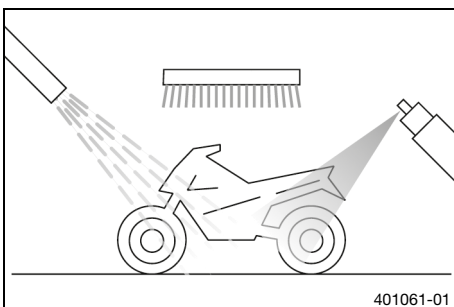
- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.



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.

Environmentally neutral universal cleaning agent
 (p. 197)



Note

Use warm water containing standard motorcycle cleaner and a soft sponge.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

If the vehicle was driven in road salt, clean it with cold water. Warm water would enhance the corrosive effects of salt.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the 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.
- Clean the chain.  (p. 95)
- Treat bare metal (except for brake discs and the exhaust system) with an anticorrosive.

Preserving materials  (p. 197)

- Treat the painted parts with a mild paint polish.

Shine spray with beading effect  (p. 197)

Note

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

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

Cleaning agents for plastics, glass, lacquers, metals, windshields and visors  (p. 197)

- Oil the ignition and steering lock, tank lock, and seat lock.

Universal oil spray  (p. 193)

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.

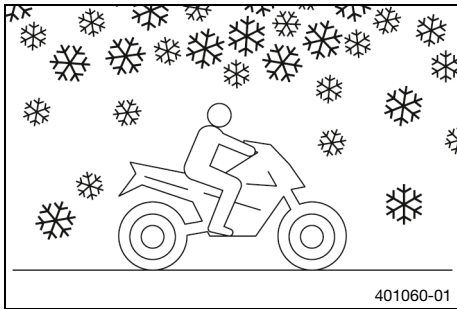
- Always keep the brake discs free of oil, fat and wax.
- Clean the brake discs with brake cleaner when necessary.



Note

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

After riding on salted roads, thoroughly clean the vehicle with cold water and dry it well. Warm water enhances the corrosive effects of salt.



- Clean the motorcycle. 📖 (p. 159)
- Clean brake system.



Note

After **EVERY** trip on salted roads, thoroughly clean the brake calipers and brake linings, after they have cooled down and without removing them, with cold water and dry them carefully.

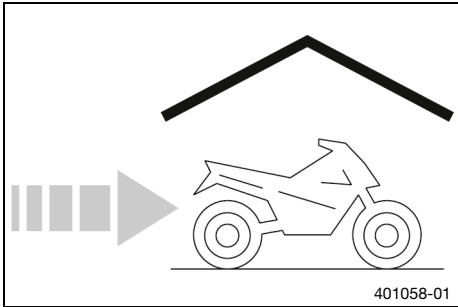
After riding on salted roads, thoroughly clean the motorcycle with cold water and dry it well.

- Treat the engine, link fork, and all other bare or zinc-plated parts (except the brake discs) with a wax-based corrosion inhibitor.
- Clean the chain. 📖 (p. 95)



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. 192)

- Refuel. (p. 81)



Tip
Fill the fuel tank completely as specified, using fuel with the lowest possible ethanol content.

- Clean the motorcycle. (p. 159)
- Change the engine oil and the oil filter, clean the oil screens. (p. 155)
- Check the coolant fill level and antifreeze.
- Check the tire pressure. (p. 135)
- Remove the 12 V battery. (p. 138)

Storage temperature of the 12 V battery without direct sunlight	0 °C ... 35 °C (32.0 °F ... 95.0 °F)
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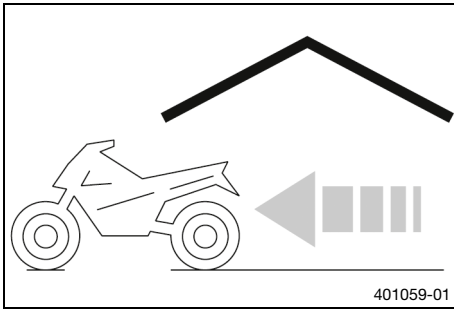
- Charge the 12 V battery. (p. 141)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.
- Raise the vehicle with the center stand. (p. 93)

Cover the motorcycle with a tarp or cover that is permeable to air. Do not use any non-porous materials, as moisture cannot escape and corrosion can occur.



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. 92)
- Remove the rear of the motorcycle from the lifting gear. (p. 91)
- Install the 12 V battery. (p. 139)
- Set time and date.
- Perform checks and maintenance measures when preparing for use. (p. 73)
- 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. 73) – Charge the 12 V battery.   (p. 141) – Check the open-circuit current.  – Change the fuses of individual electrical power consumers.  (p. 144) – Change the main fuse.  (p. 142) – 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 N. – Shift the transmission into neutral N.
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. 73) – Refuel.  (p. 81) – Change the fuses of individual electrical power consumers.  (p. 144) – 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. 73)
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. 150) – 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. 144) – 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. 81) – Change the fuses of individual electrical power consumers.  (p. 144)
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. 143) – 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. 155) – Change the engine oil and the oil filter, clean the oil screens.   (p. 155)
The headlight, position light, tail light, and license plate lamp are not working	Fuse 6 blown	– Change the fuses of individual electrical power consumers.  (p. 144)
Combination instrument, brake light, and horn are not functional	Fuse 5 blown	– Change the fuses of individual electrical power consumers.  (p. 144)
Time is not displayed or not correctly displayed	Fuse 1 blown	– Change the fuses of individual electrical power consumers.  (p. 144) – Set time and date.
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. 141) – Check the charging voltage. 
The dashboard shows nothing on the display	Fuse 1 , 2 or 5 blown	– Change the fuses of individual electrical power consumers.  (p. 144) – Set time and date.

The engine does not turn over when the start button is actuated

No.	Cause	Finding	Remedy
1	Operating error	Confirmed	– Carry out the starting procedure.  (p. 73)
2	12 V battery discharged	Confirmed	– Charge the 12 V battery.   (p. 141) – Check the open-circuit current. 

No.	Cause	Finding	Remedy
3	Fuse 1, 2 or 3 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)
4	Main fuse blown	Confirmed	– Change the main fuse.  (p. 142)
5	Combination switch cable damaged	Confirmed	– Check the combination switch cable for damage.
6	No ground connection present on the starter motor	Confirmed	– Check the ground connection.

The engine only turns over if the clutch lever is pulled

No.	Cause	Finding	Remedy
1	The vehicle is in gear	Confirmed	– Shift the transmission into neutral N .
2	The vehicle is in gear and the side stand is folded out	Confirmed	– Shift the transmission into neutral N .

The engine turns but does not start

No.	Cause	Finding	Remedy
1	Operating error	Confirmed	– Carry out the starting procedure.  (p. 73)
2	Lack of fuel	Confirmed	– Refuel.  (p. 81)
3	Fuse 3 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)
4	Quick-lock coupling not joined	Confirmed	– Join quick-lock couplings.
5	Fuel taps on the fuel tank cover closed	Confirmed	– Open the fuel taps on the fuel tank cover.
6	Malfunction in the electronic fuel injection	Confirmed	– Read out the fault memory using the diagnostics tool. 
7	Throttle opened while starting	Confirmed	– When starting, DO NOT open the throttle. – Carry out the starting procedure.  (p. 73)

Engine has too little power

No.	Cause	Finding	Remedy
1	Air filter is very dirty	Confirmed	– Remove the air filter.  – Install the air filter. 
2	Fuel screen is very dirty	Confirmed	– Change the fuel screen.
3	Fuel filter is very dirty	Confirmed	– Check the fuel pressure. 
4	Malfunction in the electronic fuel injection	Confirmed	– Read out the fault memory using the diagnostics tool. 

Engine overheats

No.	Cause	Finding	Remedy
1	Too little coolant in cooling system	Confirmed	– Check the transmission and cooling system for leaks.  – Check the coolant level in the compensating tank.  (p. 150)
2	Radiator fins very dirty	Confirmed	– Clean the radiator fins.
3	Foam formation in the cooling system	Confirmed	– Drain the coolant.  – Fill/bleed the cooling system. 
4	Buckled or damaged radiator hose	Confirmed	– Change the radiator hose. 
5	Thermostat defective	Confirmed	– Check the thermostat. 
6	Fuse 4 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)
7	Defect in radiator fan system	Confirmed	– Check the radiator fan system. 

The malfunction indicator light lights up or flashes

No.	Cause	Finding	Remedy
1	Malfunction in the electronic fuel injection	Confirmed	– 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

No.	Cause	Finding	Remedy
1	Gear position sensor not programmed	Confirmed	– Read out the fault memory using the diagnostics tool. 

The engine dies during the trip

No.	Cause	Finding	Remedy
1	Lack of fuel	Confirmed	– Refuel.  (p. 81)
2	Fuse 1, 2 or 3 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)

The ABS warning light lights up

No.	Cause	Finding	Remedy
1	ABS fuse blown	Confirmed	– Change the ABS fuses.  (p. 143)
2	Large difference in wheel speeds of the front and rear wheels	Confirmed	– Stop the vehicle, switch off the ignition, and start it again.
3	Wheel speed sensor wheel bent or damaged	Confirmed	– Check the wheel speed sensor wheel for damage. 
4	Wheel speed sensor damaged	Confirmed	– Check the wheel speed sensor for damage. 
5	Malfunction in ABS	Confirmed	– Read out the ABS fault memory using the diagnostic tool. 

High oil consumption

No.	Cause	Finding	Remedy
1	Engine vent hose bent	Confirmed	– Route the vent hose without bends or change it if necessary.
2	The engine oil level is too high	Confirmed	– Check the engine oil level.  (p. 155)
3	The engine oil is too thin (low viscosity)	Confirmed	– Change the engine oil and the oil filter, clean the oil screens.   (p. 155)

The headlight, position light, tail light, and license plate lamp are not working

No.	Cause	Finding	Remedy
1	Fuse 6 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)

Combination instrument, brake light, and horn are not functional

No.	Cause	Finding	Remedy
1	Fuse 5 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144)

Time is not displayed or not correctly displayed

No.	Cause	Finding	Remedy
1	Fuse 1 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144) – Set time and date.

12 V battery discharged

No.	Cause	Finding	Remedy
1	Ignition was not switched off when vehicle was parked	Confirmed	– Charge the 12 V battery.   (p. 141)
2	The 12-V battery is not being charged by the alternator	Confirmed	– Check the charging voltage. 

The dashboard shows nothing on the display

No.	Cause	Finding	Remedy
1	Fuse 1, 2 or 5 blown	Confirmed	– Change the fuses of individual electrical power consumers.  (p. 144) – Set time and date.

23.1 Engine

23.1.1 Technical data - engine

Design	2-cylinder 4-stroke in-line engine, water-cooled
Displacement	890 cm ³ (54.31 in ³)
Stroke	68.8 mm (2.709 in)
Bore	90.7 mm (3.571 in)
Compression ratio	13.5:1
Control	DOHC, 4 valves per cylinder controlled via cam lever, chain drive
Valve diameter, intake	37 mm (1.46 in)
Valve diameter, exhaust	30 mm (1.18 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	14 V 406 W (0.544 hp)
Spark plug	NGK LMAR9AI-10

Plug gap of spark plug	1.0 mm (0.039 in)
Cooling	Liquid cooling, permanent circulation of coolant by water pump
Idle speed	1,550 rpm ... 1,650 rpm (25.83 Hz ... 27.50 Hz)
Starting aid	Starter motor

23.1.1.1 Coolant capacity

coolant	
Coolant  (p. 194)	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 (10W/50)  (p. 193)	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
Fork (All special models)	WP XPLOR OC
Shock absorber (All special models)	WP XPLOR PDS
Suspension travel: (Norden 901)	
front	220 mm (8.66 in)
rear	213.8 mm (8.417 in)
Suspension travel: (All special models)	
front	240 mm (9.45 in)
rear	240 mm (9.45 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	2.6 bar (37.7 psi)
Final drive	16:45
Chain	5/8 x 1/4" (520) X-ring
Steering head angle	64.2° (1.121 rad)
Wheelbase	
(Norden 901)	1,512.9 mm (59.563 in)
(All special models)	1,529 mm (60.20 in)
Seat Height unloaded (Norden 901)	
Upper position	879 mm (34.61 in)
Lower position	859 mm (33.82 in)
Seat Height unloaded (All special models)	
Upper position	887 mm (34.92 in)
Lower position	907 mm (35.71 in)
Ground clearance unloaded	
(Norden 901)	252.4 mm (9.937 in)
(All special models)	270 mm (10.63 in)
Weight without fuel approx.	
(Norden 901)	204 kg (449.7 lb)
(All special models)	214 kg (471.8 lb)
Maximum permissible front axle load	175 kg (385.8 lb)

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Maximum permissible rear axle load	175 kg (385.8 lb)
Maximum permissible total weight	450 kg (992.1 lb)

23.2.2 Technical data - tires

Tire front	Rear tire
90/90 - 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 dealer 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

Fuel reserve, approx.	3 l (0.8 liq. gal _{US})
Total fuel tank capacity, approx.	
(All EU models) Super unleaded (ROZ 95)  (p. 192)	19 l (5.0 liq. gal _{US})
(Norden 901 Expedition BR) Super unleaded, type C (ROZ 95/RON 95/PON 91)  (p. 192)	

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
Dashboard illumination and indicator lights	LED
Turn signal	LED
Brake/tail light	LED
License plate lighting	LED

23.4 Fork

23.4.1 Technical data - fork (Norden 901)

Fork part number	0221C141V201102
Fork	WP APEX OC
Compression damping	
Comfort	21 clicks
Standard	15 clicks
Sport	9 clicks
Full payload	9 clicks
Rebound damping	
Comfort	21 clicks
Standard	15 clicks
Sport	9 clicks
Full payload	9 clicks
Spring length with preload spacer(s)	486 mm (19.13 in)
Spring rate	
Medium (standard)	6.5 N/mm (37.12 lb _f /in)
Fork length	878.5 mm (34.587 in)

23.4.2 Capacities - fork (Norden 901)

Fork oil per fork leg	
Fork oil (5W)  (p. 193)	475 ±5 ml (16.06 ±0.17 fl. oz _{US})

23.4.3 Technical data - fork (All special models)

Fork part number	A678C141W401000
Fork	WP XPLOR OC
Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	15 clicks
Rebound damping	
Comfort	18 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	15 clicks
Spring length with preload spacer(s)	464 mm (18.27 in)

Spring rate	
Weight of rider: 65 kg ... 75 kg (143.3 lb ... 165.3 lb)	6.2 N/mm (35.40 lb _f /in)
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	6.7 N/mm (38.26 lb _f /in)
Weight of rider: 85 kg ... 95 kg (187.4 lb ... 209.4 lb)	7.2 N/mm (41.11 lb _f /in)
Spring preload - Preload Adjuster	
Comfort	+0
Standard	+0
Sport	+0
Full payload	+3
Fork length	912 mm (35.91 in)

23.4.4 Capacities - fork (All special models)

Fork oil per fork leg	
Fork oil (48601166S1) (SAE 4)  (p. 193)	630 ±5 ml (21.30 ±0.17 fl. oz _{US})

23.5 Shock absorber

23.5.1 Technical data - shock absorber (Norden 901)

Shock absorber part number	15.15.7U.30
Shock absorber	WP APEX
Rebound damping	
Comfort	18 clicks
Standard	12 clicks
Sport	7 clicks
Full payload	5 clicks
Preload	
Comfort	10 mm (0.39 in)
Standard	10 mm (0.39 in)
Sport	12 mm (0.47 in)
Full payload	17 mm (0.67 in)
Spring preload – preload adjuster	
Comfort	3 turns (1,080°)
Standard	3 turns (1,080°)

Sport	5 turns (1,800°)
Full payload	10 turns (3,600°)
Installation position	371 mm (14.61 in)
Spring length	195 mm (7.68 in)
Static sag	22 mm (0.87 in)
Riding sag	52 mm (2.05 in)
Spring rate	
Medium (standard)	115 N/mm (656.7 lb _f /in)
Gas assisted	20 bar (290 psi)

23.5.2 Capacities - shock absorber (Norden 901)

Shock absorber oil	
Shock absorber oil (50180751S1) (SAE 2.5)  (p. 194)	Fill to the maximum mark

23.5.3 Technical data - shock absorber (All special models)

Shock absorber part number	A678C441W305000
Shock absorber	WP XPLOR PDS
Low-speed compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	7 clicks
High-speed compression damping	
Comfort	2 turns (720°)
Standard	1.5 turns (540°)
Sport	1 turn (360°)
Full payload	0.5 turns (180°)
Rebound damping	
Comfort	20 clicks
Standard	12 clicks
Sport	5 clicks
Full payload	5 clicks

Spring preload - Preload Adjuster	
Comfort	4 turns (1,440°)
Standard	4 turns (1,440°)
Sport	4 turns (1,440°)
Full payload	10 turns (3,600°)
Installation position	380 mm (14.96 in)
Spring length	204.3 mm (8.043 in)
Static sag	25 mm (0.98 in)
Riding sag	80 mm (3.15 in)
Spring rate	
Weight of rider: 75 kg ... 85 kg (165.3 lb ... 187.4 lb)	95 N/mm (542.5 lb _f /in)
Gas assisted	16 bar (232 psi)

23.5.4 Capacities - shock absorber (All special models)

Shock absorber oil	
Shock absorber oil (50180751S1) (SAE 2.5)  (p. 194)	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 _f)	
Remaining screws for engine	M5	6 Nm (4.4 ft·lb _f)	
Screw, gear position sensor	M5	5 Nm (3.7 ft·lb _f)	Loctite® 243
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
Pressure plate screw	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	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

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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
Cylinder head screw	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 unit	M6	10 Nm (7.4 ft·lb _f)
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 _f) Loctite® 243
Oil nozzle for clutch lubrication	M8	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, conrod bearing M8×0.75 engine oil	1.	5 Nm (3.7 ft·lb _f)
	2.	20 Nm (14.8 ft·lb _f)

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Screw, conrod bearing	M8×0.75 engine oil	3.	90° (1.57 rad)
Knock sensor screw		M8	20 Nm (14.8 ft·lb _f)
Screw with washer, engine case		M8×65	25 Nm (18.4 ft·lb _f)
Screw with washer, engine case		M8×90	25 Nm (18.4 ft·lb _f)
Screw, release for timing chain tensioner		M10×1	8 Nm (5.9 ft·lb _f)
Cylinder head screw	M10×1.25 engine oil	1.	5 Nm (3.7 ft·lb _f)
		2.	15 Nm (11.1 ft·lb _f)
		3.	90° (1.57 rad)
		4.	90° (1.57 rad)
Oil pressure sensor		M10×1	10 Nm (7.4 ft·lb _f)
Spark plug		M10	11 Nm (8.1 ft·lb _f)
Coolant temperature sensor		M10×1.25	10 Nm (7.4 ft·lb _f)
Screw plug, cam lever shaft		M10×1	8 Nm (5.9 ft·lb _f)
Screw plug, bearing support		M10×1	12 Nm (8.9 ft·lb _f) Loctite® 243
Screw, rotor		M12×1.5	90 Nm (66.4 ft·lb _f) Long-life grease
Screw plug, cylinder head oil drain		M12×1.5	15 Nm (11.1 ft·lb _f)
Screw plug, water jacket		M16×1.5	20 Nm (14.8 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
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23.6.2 Chassis tightening torques

Nut, valve	ISO 10V2	12 Nm (8.9 ft·lb _f) Loctite® 2701
Throttle valve body hose clamp		2.8 Nm (2.07 ft·lb _f)
Nut, socket		4 Nm (3.0 ft·lb _f)
Brake fluid reservoir cover, front		2 Nm (1.5 ft·lb _f)
Brake fluid reservoir cover, rear		1.5 Nm (1.11 ft·lb _f)
Compensating tank cover		1.1 Nm (0.81 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)
Screw, air box cover fastening	M5	3 Nm (2.2 ft·lb _f)
Screw, front turn signal adapter	M5	5 Nm (3.7 ft·lb _f)
Remaining nuts on chassis	M5	5 Nm (3.7 ft·lb _f)
Remaining screws on chassis	M5	5 Nm (3.7 ft·lb _f)
Screw, foot brake lever stub	M5	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, side stand sensor	M5	2 Nm (1.5 ft·lb _f) Loctite® 243
Screw, heat guard	M5	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, combination switch, left	M5	1.5 Nm (1.11 ft·lb _f)
Screw, combination switch, right	M5	5 Nm (3.7 ft·lb _f)
Screw, front sprocket cover	M5×17	5 Nm (3.7 ft·lb _f)

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Special screw, top instrument support	M5×12	5 Nm (3.7 ft·lb _f)
Screw, air filter box	M5	3 Nm (2.2 ft·lb _f)
Screw, brake fluid reservoir for rear brake	M5	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, throttle twist grip	M5	3.5 Nm (2.58 ft·lb _f)
Screw, license plate holder	M5	5 Nm (3.7 ft·lb _f) Loctite® 243
Spoke nipple	M5	6 Nm (4.4 ft·lb _f)
Screw, tank guard on tank guard rack	M5×12	3 Nm (2.2 ft·lb _f)
Screw, lower rear panel	M5×10	3 Nm (2.2 ft·lb _f) Loctite® 243
Windshield screw	M5×14	5 Nm (3.7 ft·lb _f)
Screw, splash protector, link fork	M5×20	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, fuel level sensor	M5	3 Nm (2.2 ft·lb _f)
Screw, fuel tank insert	M5	3 Nm (2.2 ft·lb _f)
Screw, fuel tank cap	M5	3 Nm (2.2 ft·lb _f)
Screw, mask support cover	M5×17	3.5 Nm (2.58 ft·lb _f)
Screw, fender on fork protector	M5×12	3 Nm (2.2 ft·lb _f)
Brake line holder on fork screw	M5	1 Nm (0.7 ft·lb _f)
Screw, splash protector, shock absorber	M5×17	2.8 Nm (2.07 ft·lb _f)
Screw, brace for mask support on fuel tank spoiler, inside	M5×12	3 Nm (2.2 ft·lb _f) Loctite® 243
Collar screw, bottom instrument support	M5×20	5 Nm (3.7 ft·lb _f)
Special screw, headlight adjustment on mask support	M5×14	5 Nm (3.7 ft·lb _f)
Special screw, trim, long	M5×17	3 Nm (2.2 ft·lb _f)

Screw, trim	M5	3 Nm (2.2 ft·lb _f)
Screw, air filter box, downwards through subframe	M5×20	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, combination instrument	M5×20	4 Nm (3.0 ft·lb _f) Loctite® 243
Mask support special screw	M5×12	5 Nm (3.7 ft·lb _f)
Screw, rear fairing carrier plate	M6	9 Nm (6.6 ft·lb _f) Loctite® 243
Screw, ball joint of push rod on brake cylinder	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, activated carbon filter on retaining bracket	M6	8 Nm (5.9 ft·lb _f) Loctite® 243
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, 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)

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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, battery holding bracket	M6	4.5 Nm (3.32 ft·lb _f)
Screw, ground wire on starter motor	M6	10 Nm (7.4 ft·lb _f)
Cable on starter motor screw	M6	5 Nm (3.7 ft·lb _f)
Screw, shift rod	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, shift shaft deflector on shift shaft	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Nut, hand brake lever	M6	Attach torque to nut. 10 Nm (7.4 ft·lb _f)
Screw, brake assembly	M6	5 Nm (3.7 ft·lb _f)
Nut, push rod, foot brake lever	M6	6 Nm (4.4 ft·lb _f)
Brake cylinder screw on the rear brake system	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, cross brace in rear	M6×10	10 Nm (7.4 ft·lb _f) Loctite® 243
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
Nut, shift rod	M6LH	6 Nm (4.4 ft·lb _f)
Screw, cross member on lower rear panel	M6×12	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, voltage regulator	M6	6 Nm (4.4 ft·lb _f) Loctite® 243
Screw, brace for mask support	M6×16	10 Nm (7.4 ft·lb _f) Loctite® 243

Screw, subframe on air filter box	M6×12	9 Nm (6.6 ft·lb _f) Loctite® 243
Screw, license plate holder on subframe	M6×16	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, license plate holder on lower rear panel	M6×18	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, sliding seat for side cover	M6×20	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, chain guide	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, fuel cock	M6×16	6 Nm (4.4 ft·lb _f)
Screw, fuel pump	M6	6 Nm (4.4 ft·lb _f)
Screw, fuel tank clamp	M6	3 Nm (2.2 ft·lb _f)
Screw, mask support on steering head	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, cable on starter relay	M6	4.5 Nm (3.32 ft·lb _f)
Screw, tank guard on engine guard, bottom	M6×18	10 Nm (7.4 ft·lb _f)
Screw, tank guard on engine guard, front	M6×25	10 Nm (7.4 ft·lb _f)
Screw, tail light	M6×16	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, headlight adapter on headlight	M6×16	5 Nm (3.7 ft·lb _f) Loctite® 243
Screw, headlight	M6×18	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, ABS module on holder	M6×12	8 Nm (5.9 ft·lb _f)
Screw, ABS module retaining bracket on frame	M6×18	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, tank guard rack on tank holding rubber	M6×15	10 Nm (7.4 ft·lb _f) Loctite® 243

23 Technical specifications

Screw, plate adapter, chain guide	M6×12	10 Nm (7.4 ft·lb _f) Loctite® 243
Screw, side bag rack	M6	10 Nm (7.4 ft·lb _f) Loctite® 243
Adapter piece frame screws for mask support pipe	M6×16	10 Nm (7.4 ft·lb _f) Loctite® 243
Nut, foot brake lever adjustment	M6	6 Nm (4.4 ft·lb _f)
Screw, seat support in subframe	M8	15 Nm (11.1 ft·lb _f) Loctite® 243
Foot brake lever, fitting	M8	25 Nm (18.4 ft·lb _f) Loctite® 243
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, exhaust system clamp	M8	12 Nm (8.9 ft·lb _f) Copper paste
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. 20 Nm (14.8 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® 243
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, 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
Nut, rear sprocket screw	M8	35 Nm (25.8 ft·lb _f) Loctite® 2701
Screw, cross member in rear	M8×35	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, foot brake lever spring	M8	12 Nm (8.9 ft·lb _f) Loctite® 2701
Screw, case holder	M8×20	25 Nm (18.4 ft·lb _f) Loctite® 243
Screw, exhaust system clamp	M8	12 Nm (8.9 ft·lb _f) Copper paste
Screw, activated carbon filter holder fastening	M8×16	25 Nm (18.4 ft·lb _f) Loctite® 243

23 Technical specifications

Screw, side bag rack	M8×20	25 Nm (18.4 ft·lb _f) Loctite® 243
Front brake caliper clamp screw	M8×35	25 Nm (18.4 ft·lb _f)
Front sprocket screw	M10	60 Nm (44.3 ft·lb _f) Loctite® 2701
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 bracket screw	M10	45 Nm (33.2 ft·lb _f) Loctite® 243
Subframe screw	M10	50 Nm (36.9 ft·lb _f) Loctite® 243
Turn signal nut	M10×1.25	4 Nm (3.0 ft·lb _f)
Screw, swingarm pivot	M12×40	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)
Steering head screw	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
Remaining screws on chassis	EJOT PT® – K45×12 – T20	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT® – K50×12 – T20	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT® – K50×14 – T20	1 Nm (0.7 ft·lb _f)
Remaining screws on chassis	EJOT PT® – K50×16 – T20	2 Nm (1.5 ft·lb _f)
Remaining screws on chassis	EJOT PT® – K50×18 – T20	2 Nm (1.5 ft·lb _f)

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.

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>

Polaris hereby declares that the **Connectivity Control Unit "CCU-2"** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.

Certification website: <https://www.ktm.com/ccu-2>

LDL Technology 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>

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>

24.2 Country-specific declarations of conformity

Immo641



MCMC
CIDF18000141





CNC COMISIÓN NACIONAL
DE COMUNICACIONES
H-21170

Complies with
IMDA Standards
N2035-18

ictQATAR
Type Approval reg. No.:
CRA/SA/2018/R-7050

RTIKTM18-0315, KTM, Minda Immo641
La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.



Company Name: KTM AG
Equipment Name: Immobilizer System
Model Name: Minda Immo641
Manufactured Date:
Manufacturer / Country: Minda Corporation Limited / India

R-R-kTM-MindaImmo641



UA.TR.109

Israel 51-65016

מוציא דה פסור מרישיון הפעלה אלוותי.
המוציא אסור לשימוש למתן שירות לצד ג'.
אסור להחליף אנטנת המכשיר המקורית.
אסור לעשות במכשיר כל שינוי טכני.

This product does not need an Israeli wireless operation license.
It is forbidden to use this product for service to third party.
It is forbidden to replace the original antenna.
It is forbidden to make any technical change in this product.

This product contains radio equipment (125 kHz transmitter) which is conform with the regulations for communications equipment (extremely low-power radio station) specified in article 6, paragraph 1 of the Radio Law Enforcement Regulations.



ANATEL
Agência Nacional de Telecomunicações
03469-18-11400

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR 16565 ANRT 2018
Date d'agrément: 15/05/2018

"Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

F03629-01

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.
	Easy Shift	
MTC	Motorcycle Traction Control	Additional engine management function, where the engine torque is reduced in the event of rear wheel slip.
	Ride Husqvarna	

B Fuels

Super unleaded

Standards

- ROZ 95 → DIN EN 228

Super unleaded, type C

Standards

- ROZ 95/RON 95/PON 91 → ANP (Agência Nacional do Petróleo) #57

Fuel additive

Recommended supplier

MOTOREX®

- FUEL STABILIZER

C Operating supplies

Street chain spray

Recommended supplier

MOTOREX®

- CHAINLUBE ROAD STRONG

Fork oil

Order details

- 48601166S1

Standards

- SAE 4 → SAE

Fork oil

Recommended supplier

MOTOREX®

- RACING FORK OIL

Standards

- 5W → SAE

Universal oil spray

Recommended supplier

MOTOREX®

- JOKER 440 SYNTHETIC

Copper paste

Long-life grease

Recommended supplier

MOTOREX®

- 2000

engine oil

Recommended supplier

MOTOREX®

- POWER SYNT 4T

Standards

→ JASO T903 MA2

- 10W/50 → SAE

Properties

- fully synthetic

Shock absorber oil

Order details

- 50180751S1

Standards

- SAE 2.5 → SAE

Brake fluid DOT 4 / DOT 5.1

Recommended supplier

Castrol

- REACT PERFORMANCE DOT 4
- 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 Electrics**Low beam/high beam (LED)****Product code**

- LED

12 V battery (HTZ12A-BS)**Product code**

- HTZ12A-BS

Properties

- | | |
|--------------------|-------|
| • Battery voltage | 12 V |
| • Nominal capacity | 10 Ah |
| • Maintenance-free | |

Turn signal (LED)**Product code**

- LED

Brake/tail light (LED)**Product code**

- LED

License plate lighting**Dashboard illumination and indicator lights (LED)****Product code**

- LED

Fuse (75011088010)**Product code**

- 75011088010

Properties

- 10 A

Fuse (75011088015)**Product code**

- 75011088015

Properties

- 15 A

Fuse (75011088025)

Product code

- 75011088025

Properties

- 25 A

Fuse (58011109130)

Product code

- 58011109130

Properties

- 30 A

E 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

F Icons

F.1 Symbol colors

F.1.1 Red symbols

Red symbols indicate a fault status that requires immediate intervention.

	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.
---	---

F.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.

	ABS warning light lights up yellow – Status or error messages relating to ABS .
	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 Husqvarna Mobility workshop.
	TC indicator lamp lights up/ flashes yellow – MTC is not active or is currently regulating. The TC indicator lamp also lights up if a malfunction is detected. Contact an authorized Husqvarna Mobility workshop. The TC indicator lamp flashes if MTC or MSR actively engage.
	General warning light lights up yellow – A note/warning note on operating safety has been detected. This is also shown in the display.

F.1.3 Green and blue symbols

Green and blue symbols convey information.

	The idle indicator lamp lights up green – The transmission is in the neutral position.
---	--

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29/01/2025

