Owner's manual **2026**



Vitpilen 401

Item no.: 3402936en

FOR | PIONEERS

Dear Husqvarna Mobility-customer,

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. 18)	Stamp of the contractual partner
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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Vitpilen 401 B.D UK (F1322Z1)

Vitpilen 401 B.D. AR (F1342Z1)

3402936en

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1.1 Conventions

1.1.1 Icons

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

1.1.2 Formatting

Proprietary name	Indicates a proprietary name.
Name ®	Indicates a protected name.
Brand ™	Indicates a brand available on the open market.
Underlined terms	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 themself 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.
An appropriate driver's license is needed to drive the vehicle on public roads.
Have any faults that impair safety immediately remedied by an authorized contractual partner.
Adhere to the information and warning labels on the vehicle.

2.4 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

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

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

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

2.7 Owner's manual

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

Tip

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

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

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

The owner's manual can be downloaded multiple times using the QR code or the link on the delivery certificate.

The owner's manual is also available for download from authorized contractual partners and on the Husqvarna Mobility website.

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

A printed copy can be ordered from the following address.

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

2.8 Use definition – intended use

This vehicle has been designed and built to withstand the normal stresses and strains of road use.

This vehicle is not suitable for use on race tracks or offroad.

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 prescribed in the service schedule must only be carried out by an authorized contractual partner and then 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 safety reasons, only spare parts and accessory products approved by Husqvarna Mobility may be used. Husqvarna Mobility accepts no liability for other products and any resulting damage or loss.

Certain spare parts and accessory products are specified in parentheses in the descriptions. Authorized contractual partners will be happy to help.

You can find the latest Husqvarna Mobility Technical Accessories for your vehicle at your authorized contractual partner and 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 is properly carried out as described in the owner's manual. An incorrect suspension setting can lead to damage and breakage of chassis components.

Use of the vehicle under difficult conditions, such as dusty environments, heavy rain, high heat or with a heavy load, can lead to increased wear of components such as the air filter, powertrain, brake systems, or suspension components. For this reason, it may be necessary to inspect or replace components before the next scheduled service interval.

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

The relevant mileage or time interval is whichever occurs first.

A list of services that have already been carried out on the vehicle can be found in the Service area on the international Husqvarna Mobility website:

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

Authorized contractual partners will be happy to answer any questions regarding the services performed.

The list of authorized contractual partners is available on the Husqvarna Mobility website.

3.5 Figures

Some of the figures in this document contain optional extras.

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

3.6 Customer service

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

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

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

3.7 Roadside Assistance

For peace of mind when traveling with your vehicle in Europe, we offer Roadside Assistance free of charge in selected countries (handled in cooperation with a contracting partner).

Each service at your authorized contractual partner extends your free Roadside Assistance until the next service or for a maximum of 12 months.

In the event of a breakdown, call the Husqvarna Mobility Assistance Center hotline or contact them directly via the Ride Husqvarna Motorcycles app.

The applicable conditions and benefits can be found on the Husqvarna Mobility website:

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

4 View of the vehicle

4.1 View of vehicle, front left (example)



W00601-10

1. Handbrake lever (p. 20)
2. Combination instrument (p. 27)
3. Light switch (p. 20)
3. Turn signal switch (p. 21)
3. Horn button (p. 21)
4. Clutch lever (p. 20)
5. Seat
6. Seat lock (p. 24)
7. Gear shift lever (p. 25)
8. Engine number (p. 18)

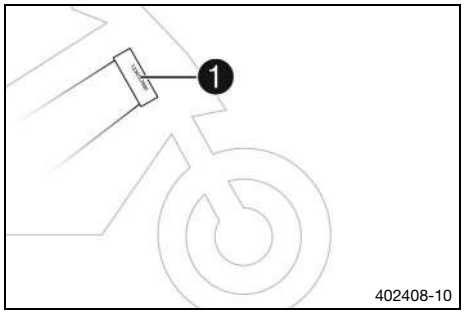
4.2 View of vehicle, rear right (example)



1. On-board tool kit (p. 25)
2. Ignition and steering lock (p. 22)
3. Emergency OFF switch (p. 21)
3. Electric starter (p. 22)
4. Throttle grip (p. 20)
5. Level viewer, engine oil
6. Brake pedal (p. 26)
7. Rear brake reservoir

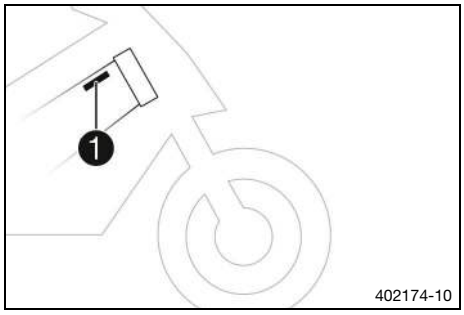
5 Serial number

5.1 Vehicle identification number



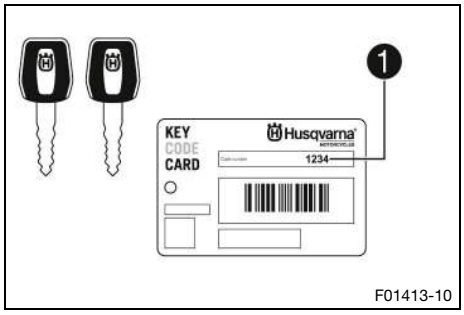
The vehicle identification number ❶ is stamped on the right side of the steering head.

5.2 Type approval label



The type label ❶ is located on the front frame tube.

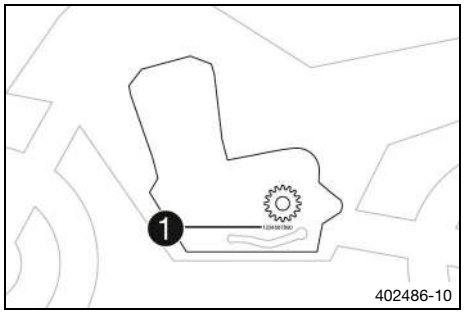
5.3 Key number



Key number ❶ for the ignition and steering lock is indicated on the **KEYCODECARD**.

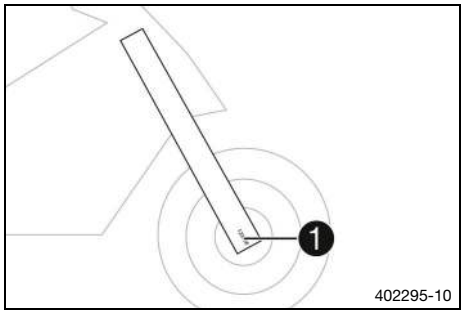
Note
The key number is required to order a spare key and should therefore be kept in a safe place.

5.4 Engine number



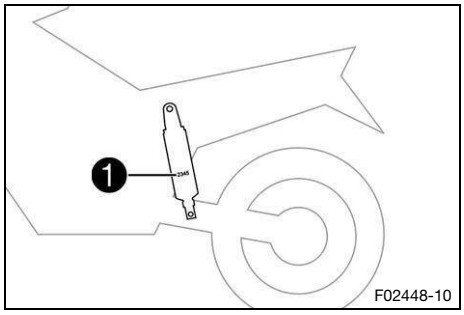
The engine number ❶ is located on the left side of the engine under the engine sprocket.

5.5 Fork part number



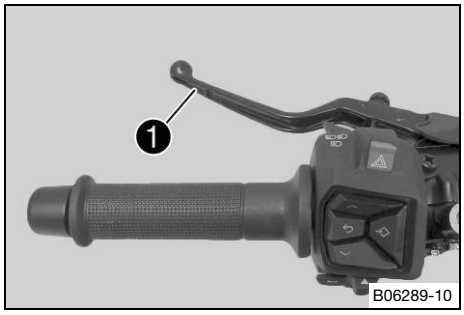
The fork article number ❶ is stamped on the inside of the axle clamp.

5.6 Shock absorber part number



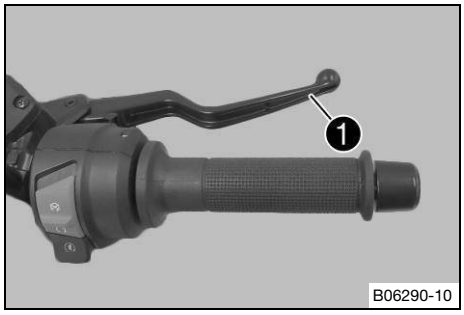
Shock absorber article number ❶ is on the left side of the shock absorber.

6.1 Clutch lever



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

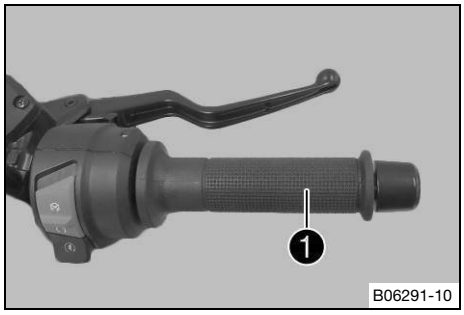
6.2 Handbrake lever



The front brake is engaged using the hand brake lever.

Hand brake lever ❶ is located on the right side of the handlebar.

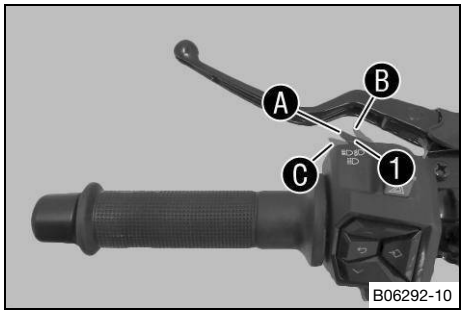
6.3 Throttle grip



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

6.4 Switches on the left side of the handlebar

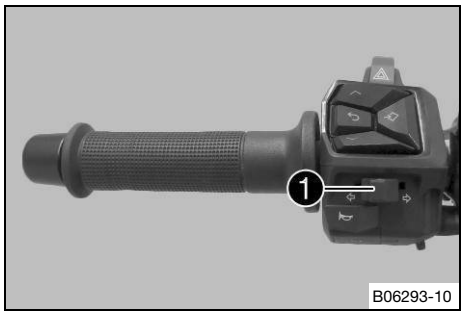
6.4.1 Light switch



Light switch ❶ is fitted on the left side of the handlebar.

Condition		Meaning
	Light switch in position Ⓐ.	In this position, the dipped beam and the tail light are switched on.
	Light switch in position Ⓑ.	In this position, the high beam and the tail light are switched on.
	Light switch in position Ⓒ.	The headlight flasher is operated in this position.

6.4.2 Turn signal switch



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

Condition		Meaning
⇦	Turn signal switch pressed to the left	Left turn signal, on
⇨	Turn signal switch pressed to the right	Right turn signal, on

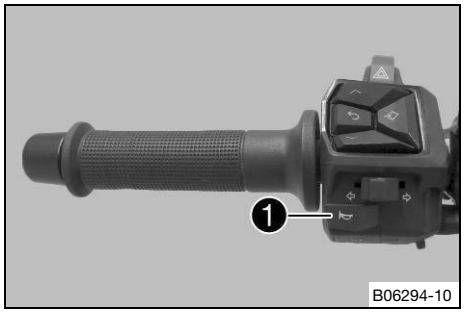
Note

If the turn signal has been on for at least 10 seconds and the vehicle has traveled 150 meters, the turn signal is automatically switched off by a software function (**ATIR**).

If the vehicle is stationary, both counters are stopped.

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

6.4.3 Horn button

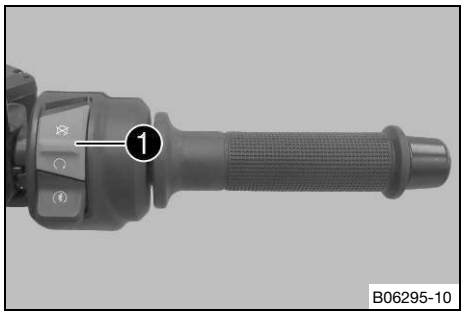


Horn button ❶ is fitted on the left side of the handlebar.

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

6.5 Switches on the right side of the handlebar

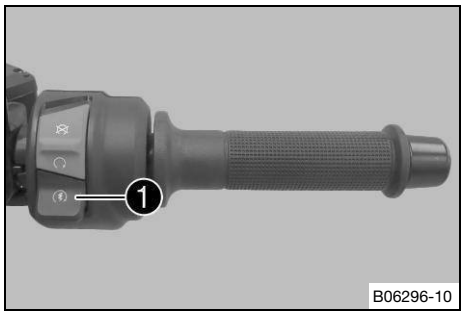
6.5.1 Emergency OFF switch



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

Condition		Meaning
⊗	Emergency OFF switch off	In this position, the ignition circuit is interrupted, a running engine stops, and cannot be started. A message appears on the display.
○	Emergency OFF switch on	This position is required for operation; the ignition circuit is closed.

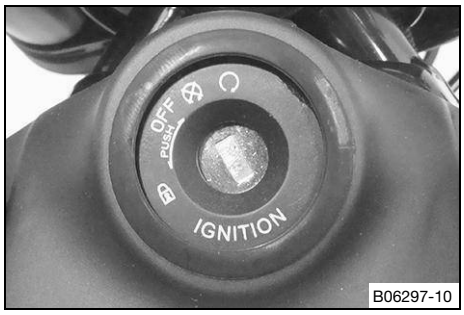
6.5.2 Electric starter



Start button ❶ is fitted on the right side of the handlebar.

Condition		Meaning
	Electric starter in the basic position	No function
	Electric starter pressed	In this position, the starter motor is actuated.

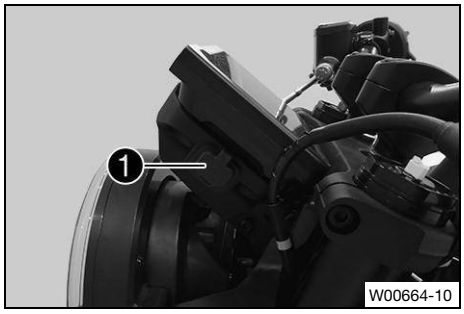
6.6 Ignition and steering lock



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 USB-C socket



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

USB-C socket	
Voltage	5 V
Maximum current consumption	2.1 A

6.8 Locking the steering

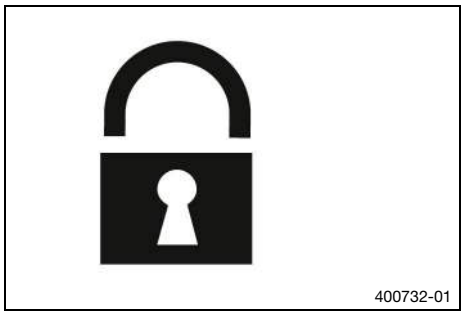
NOTE

Material damage The vehicle may be damaged if parked incorrectly.

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

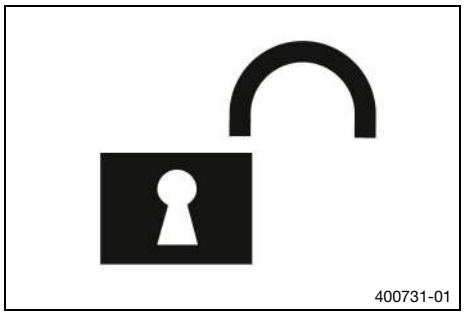
The components for parking the vehicle are designed only for the weight of the vehicle.

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



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

6.9 Unlocking the steering



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

6.10 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.

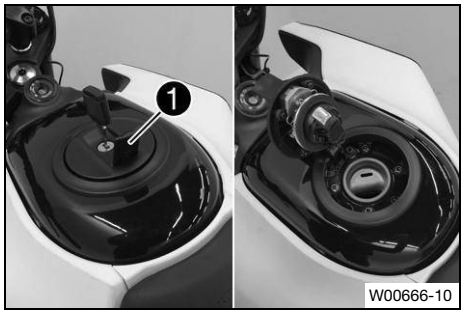
– Do not allow fuel to come into contact with skin, eyes, or clothing.
– Consult a doctor immediately if fuel has been ingested.
– Do not inhale fuel vapors.
– Rinse the affected area immediately with plenty of water in the event of contact with skin.
– Rinse eyes thoroughly with water and consult a 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 ❶ 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.

6.11 Closing the fuel tank cap



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.

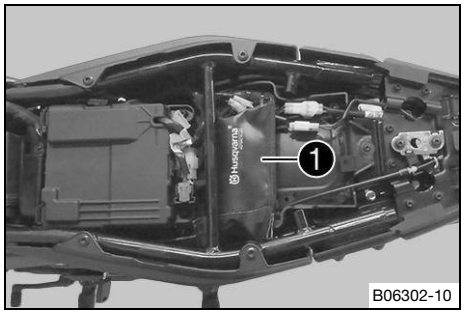
– Fold down the fuel tank filler cap.
– Turn the ignition key 90° clockwise.
– Push down the fuel tank filler cap and turn the ignition key counterclockwise until the fuel tank filler cap lock engages.
– Remove the ignition key and close the cover.

6.12 Seat lock



The seat lock ❶ is located at the front left below the fuel tank.
The seat lock can be unlocked using the ignition key.

6.13 On-board tool kit



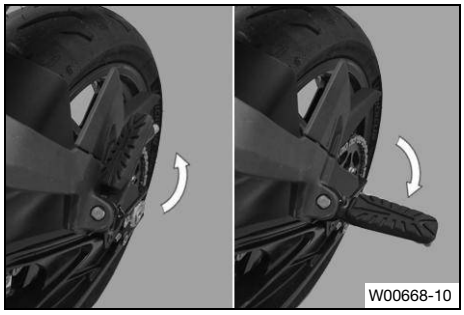
The tool set ❶ is located under the seat.

6.14 Passenger strap



Supporting strap ❶ is used for maneuvering the motorcycle.
If you carry a passenger, the passenger can hold onto the grab handles during the trip.

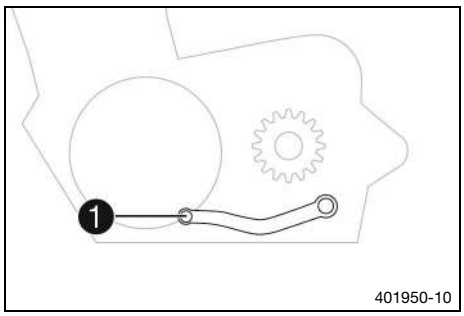
6.15 Passenger footpegs



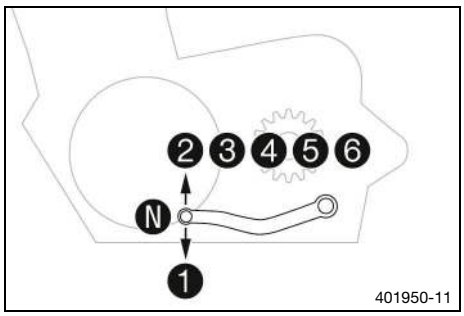
The passenger foot pegs can be folded up and down.

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

6.16 Gear shift lever

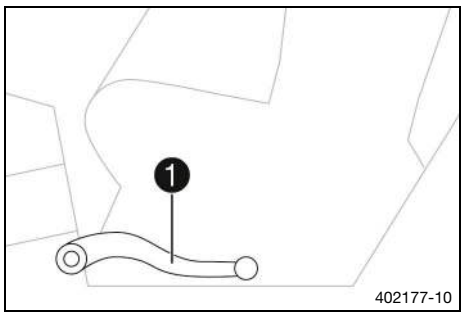


Shift lever ❶ is mounted on the left of the engine.



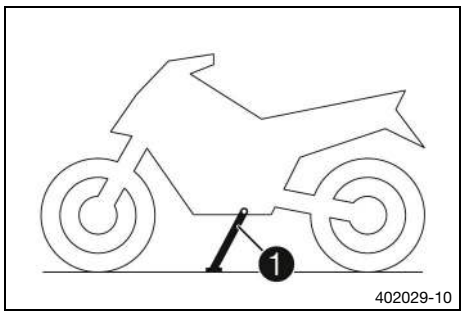
The gear positions can be seen in the figure.
The neutral or idle position is between the first and second gears.

6.17 Brake pedal



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

6.18 Side stand

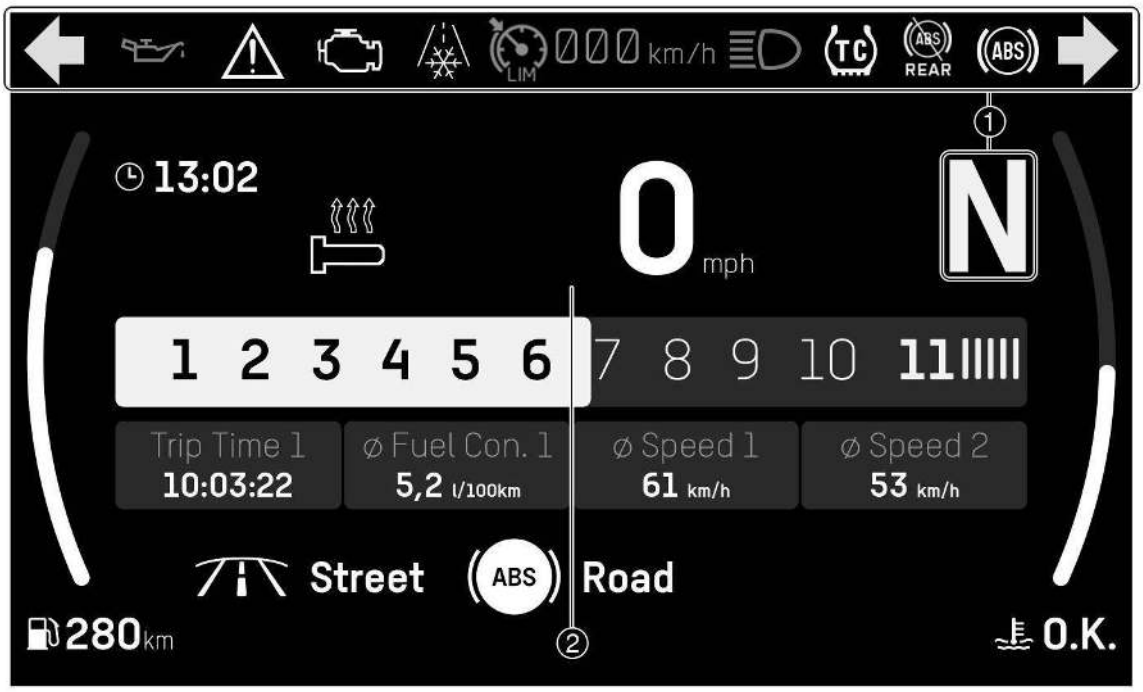


The side stand ❶ is located on the left of the vehicle.
The side stand is used for parking the motorcycle.

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

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

7.1 Combination instrument



I00868-11

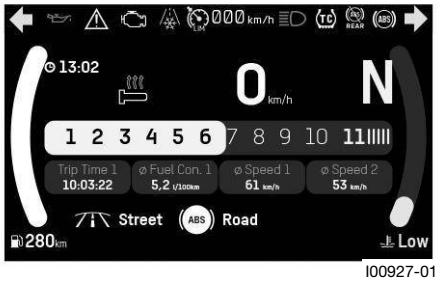
The combination instrument is attached in front of the handlebar.
The combination instrument is divided into two function areas.

❶ indicator lamps (p. 29)
Display ❷

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



I00927-01

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 message appears on the display and all indicator lamps, except for the TC indicator lamp, are briefly illuminated to check that they are working properly.

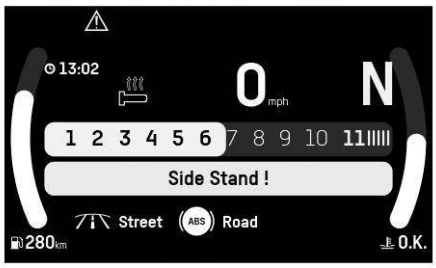
Note

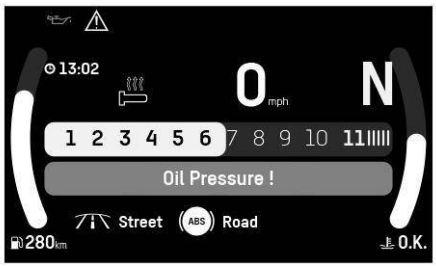
The malfunction indicator lamp always lights up as long as the engine is not running. If the engine is running and the failure indicator light lights up, stop (taking care not to endanger yourself or other road users in the process) and contact an authorized dealer.

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

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

7.3 warnings





I00869-01

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

Yellow warnings indicate a malfunction or information which requires prompt intervention or an adjustment to the riding style.

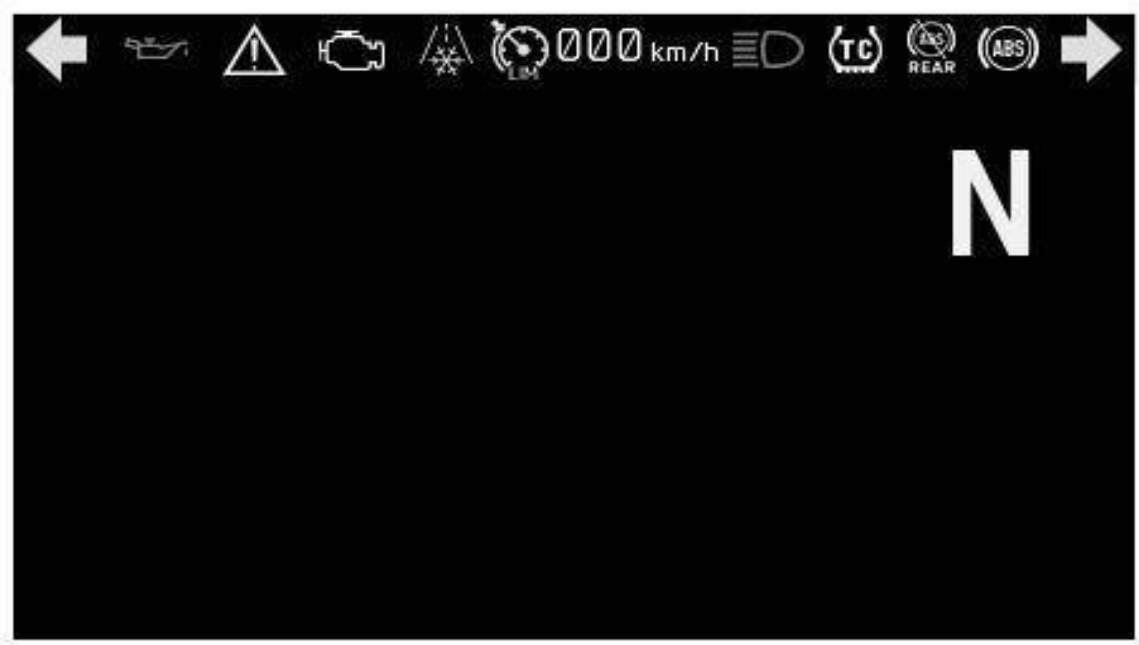
Red warnings indicate a malfunction or information which requires immediate intervention.

Note

Warnings can be hidden by pressing any button.

All the existing warnings are displayed in the **Warning** submenu until they are no longer active.

7.4 indicator lamps



I00926-01

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

Note

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

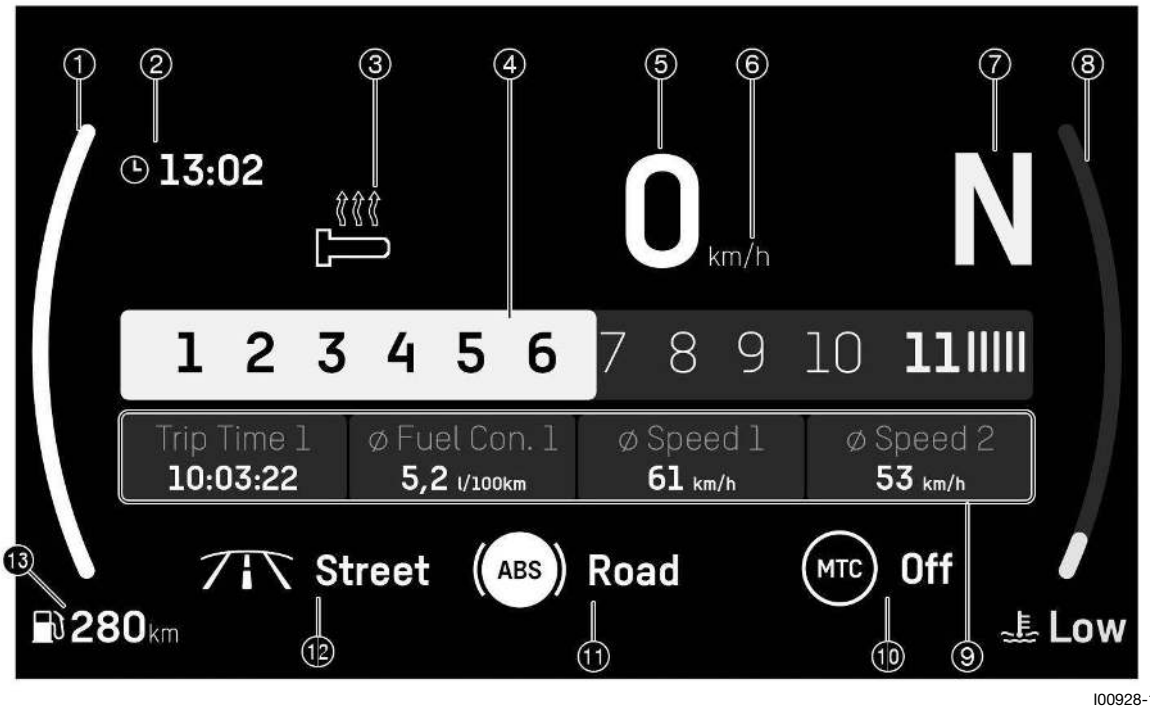
The oil pressure warning lamp always lights up as long as the engine is not running. If the engine is running and the oil pressure warning lamp lights up, stop immediately (taking care not to endanger yourself or other road users in the process) and switch off the engine.

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

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

Condition		Meaning
N	The idle indicator lamp lights up green	The transmission is in the neutral position.
TC	TC indicator lamp lights up/flashes yellow	**MTC** is not enabled or is currently intervening. The TC indicator lamp also lights up if a malfunction is detected. Contact an authorized contractual partner. The TC indicator lamp flashes if **MTC** makes an active 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.
	The alarm system indicator lamp lights up or flashes red	Status or error message of the alarm system.
LIM	The speed limiter indicator lamp lights up yellow	The speed limiter function is switched on, but the speed limiter is not active.
LIM	The speed limiter indicator lamp lights up green	The speed limiter function is switched on and the speed limiter is active.
	The high beam indicator lamp lights up blue	The high beam is switched on.
	General warning light lights up yellow	A note/warning note on operating safety has been detected. This is also shown in the display.
	Ice warning is active on the display.	The warning lamp lights up when there is increased risk of icy roads.

7.5 Display



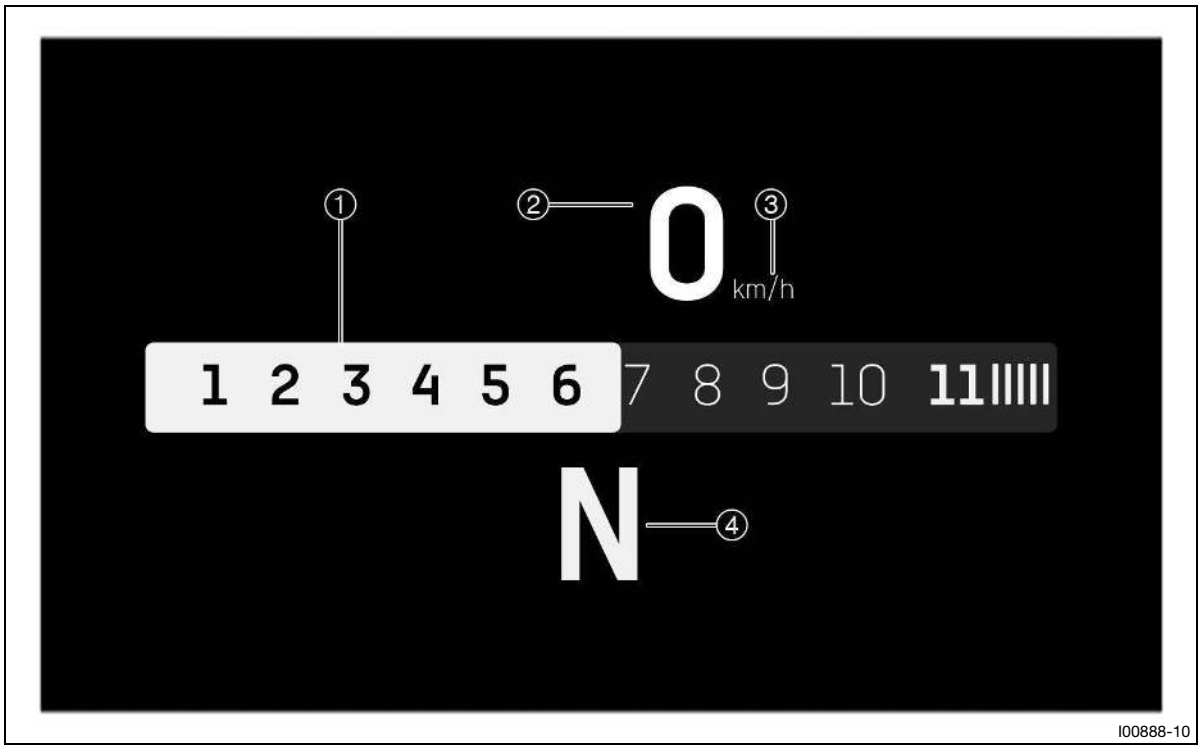
❶ fuel level display (p. 35)

❷ time (p. 33)

❸ heated grip (optional) 📖 (p. 35)
❹ speed 📖 (p. 32)
❹ shift light 📖 (p. 32)
The shift light is integrated in the rpm gauge display.
❺ speed display 📖 (p. 32)
❻ Unit of speed
❼ Gear display
❽ coolant temperature indicator 📖 (p. 34)
❾ **Favorites** display 📖 (p. 35)
❿ **MTC** display (optional) 📖 (p. 34)
⓫ **ABS** display 📖 (p. 33)
⓬ **Ride-Mode** display 📖 (p. 33)
⓭ Fuel range display

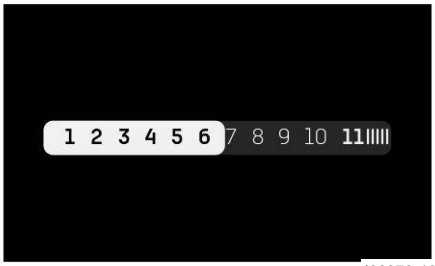
7.6 Minimum display

Note
The figure shows the start screen of the combination instrument in active mode **Minimal**. If the menu is open, the speed and the selected gear are still displayed.



❶ speed 📖 (p. 32)
❶ shift light 📖 (p. 32)
The shift light is integrated in the rpm gauge display.
❷ speed display 📖 (p. 32)
❸ Unit of speed
❹ Gear display

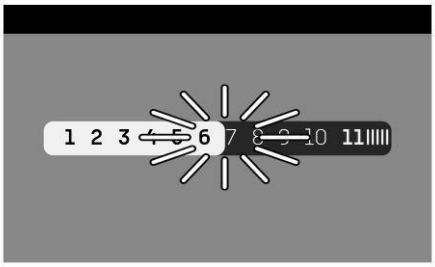
7.7 speed

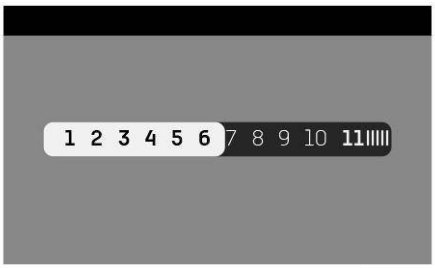


I00870-10

The engine speed is displayed in revolutions per minute.

7.8 shift light





I00871-01

The shift warning light is integrated in the display.

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

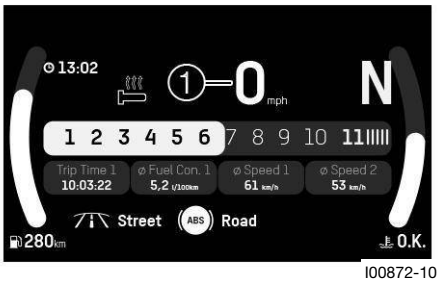
Note

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	Lights up continuously

7.9 speed display



I00872-10

The speed is shown in area ❶ of the display.

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

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

7.10 speed limiter display



I00873-10

The operating status of the activated speed limiter is shown in display area ❶.

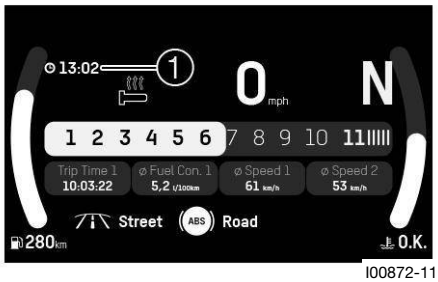
The speed limiter is controlled using the combination switch.

Note

If the speed limiter function is switched on but the speed limiter is not active, the speed limiter indicator lamp lights up yellow.

When the speed limiter function is switched on and the speed limiter is active, the speed limiter indicator lamp lights up green.

7.11 time



I00872-11

The time is shown in area ❶ of the display.

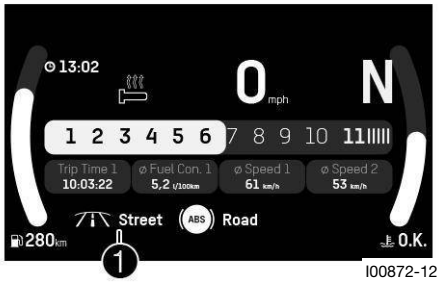
The time can be displayed in 24-hour format or 12-hour format in all languages.

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

Note

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

7.12 Ride-Mode display

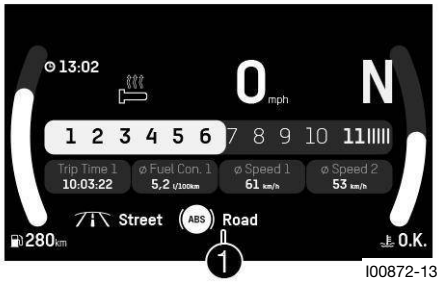


I00872-12

The Ride Mode (p. 122) setting is shown in area ❶ of the display.

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

7.13 ABS display



I00872-13

The ABS mode setting is shown in the ❶ area of the display.

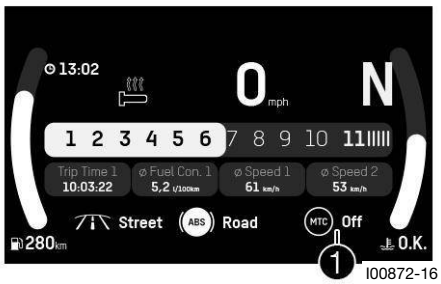
ABS can be configured separately in the **ABS** submenu.

Note

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

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

7.14 MTC display (optional)

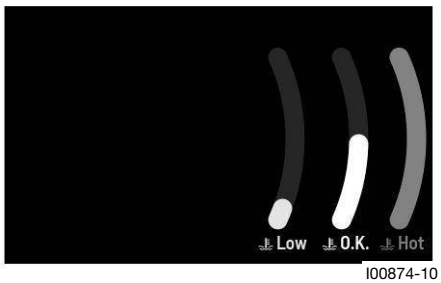


I00872-16

The ❶ area of the display indicates whether **MTC** (p. 122) (optional) is switched on or off.

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

7.15 coolant temperature indicator



I00874-10

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

NOTE

Engine failure Overheating damages the engine.

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

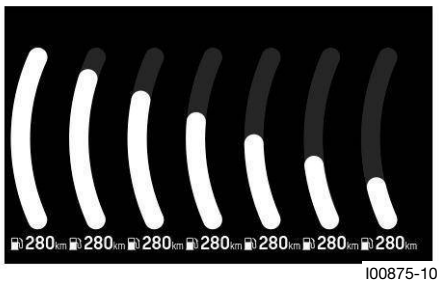
Note

If the coolant temperature indicator shows **HOT**, the indicator also starts to flash.

If the cooling system overheats, the maximum engine speed is limited.

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

7.16 fuel level display



I00875-10

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.

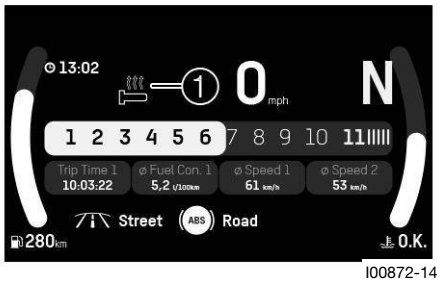
The fuel level is displayed with a slight delay to prevent the indicator from constantly moving while riding.

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.

7.17 heated grip (optional)

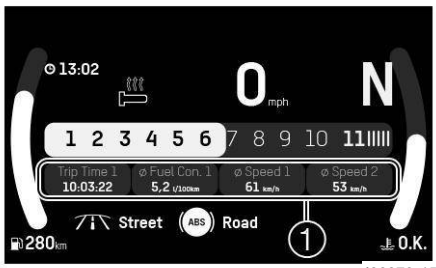


I00872-14

The status of the heated grip is shown in area ❶ of the display.

The heated grip can be configured in the **Heated Grips** menu.

7.18 Favorites display

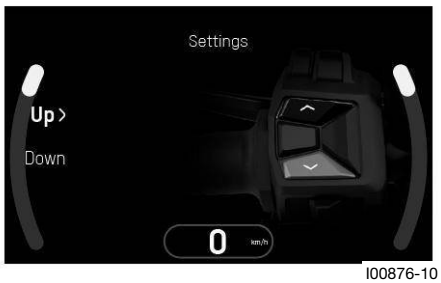


I00872-15

Up to four items of information are displayed in the **Favorites** display ❶.

The **Favorites** display can be freely configured in the **Favorites** submenu.

7.19 Quick Selector 1 display



I00876-10

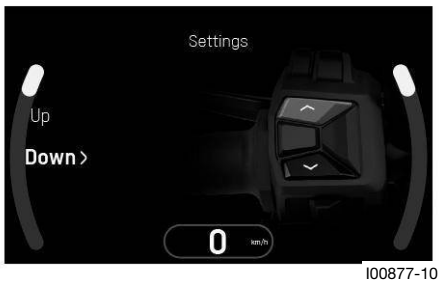
When the menu is closed, the **UP** display is opened by pressing the **Quick Selector 1** button.

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

Note

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

7.20 Quick Selector 2 display



I00877-10

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

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

Note

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

7.21 Navigation display (optional)



I00878-10

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

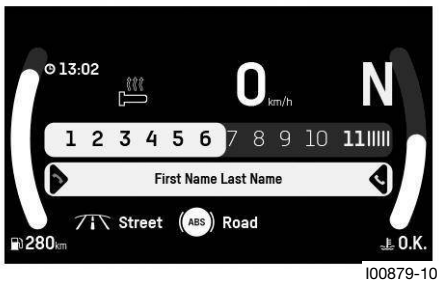
In the **Navigation** display (optional), the direction arrow, the distance from the destination, the estimated arrival time of the cell phone, the distance to the next waypoint, and the street name are displayed.

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

Conditions for use:

- The combination instrument is connected to a suitable cell phone.
- The **Ride Husqvarna** app (optional) is installed and connected on a suitable cell phone (Android devices from version 7.0, iOS devices from version 14).

7.22 Call display



I00879-10

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.

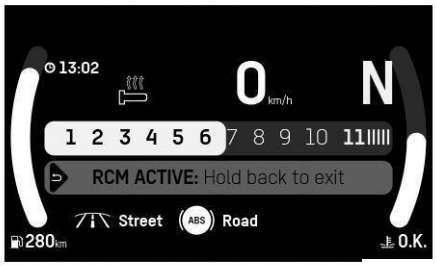
The call duration and contact are displayed. Depending on the cell phone settings, the contact is shown by name.

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

Condition for use:

- The combination instrument is connected to a suitable cell phone.

7.23 Remote Control Mode (optional)



I00880-10

The **Remote Control Mode** indicator (optional) appears when **Remote Control Mode** is activated.

Pressing the **BACK** button for approx. 3 seconds activates the **Remote Control Mode** (optional).

Pressing the **BACK** button for approx. 3 seconds exits the **Remote Control Mode** (optional).

If **Remote Control Mode** (optional) is activated, you can navigate using the combination switch in the app on a cell phone.

Note

In **Remote Control Mode** (optional), you can only navigate within the app.

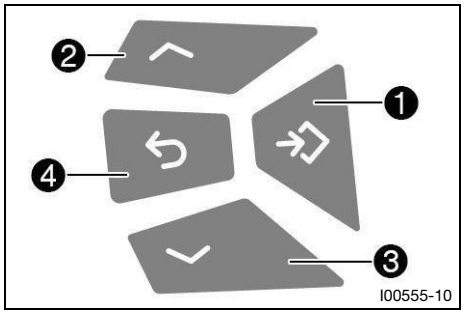
If **Remote Control Mode** (optional) is active, you cannot navigate in the combination instrument.

Remote Control Mode (optional) cannot be activated when a menu is open.

Conditions for use:

- The combination instrument must be connected to a suitable cell phone.
- The **Ride Husqvarna** app (optional) must be installed, connected and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 14).

7.24 Menu



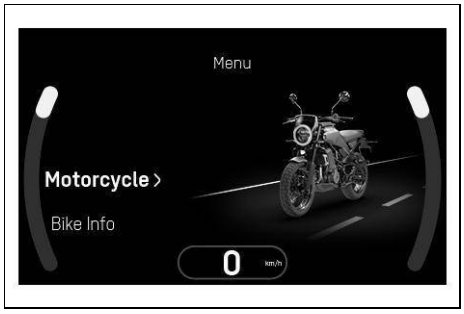
Note

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

Navigate through the menu using the **UP** button ❷ or the **DOWN** button ❸.

By pressing the **BACK** button ❹, 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.

The ride mode and ABS can be set in **Motorcycle**.

7.24.2 Ride Mode



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

WARNING

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

The riding modes are each only suitable for certain conditions.

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

– Press the **UP** or **DOWN** button until **Ride Mode** is highlighted. 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.
  ✓ **Street** - Homologated performance with balanced response.
  ✓ **Rain** - Homologated performance with soft response for better rideability.

The ride mode can be configured in submenu **Ride Mode**.

7.24.3 ABS



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

WARNING

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

The ABS modes are each only suitable for certain conditions.

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

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

Note

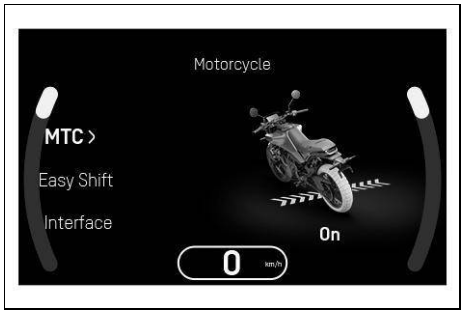
The ABS mode can be switched during the journey.

Do not open the throttle during the selection.

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

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

7.24.4 MTC



Condition: Speed 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.
– Press the **UP** or **DOWN** button until **MTC** is highlighted. Press the **SET** button to open the submenu.
– Activate the menu item using the **UP** or **DOWN** button.
– Switch **SET** on or off by pressing the **MTC** button.

Note

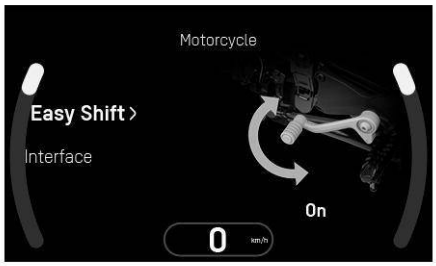
Do not open the throttle when switching on or off.

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

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

After the ignition is switched on, motorcycle traction control is enabled again.

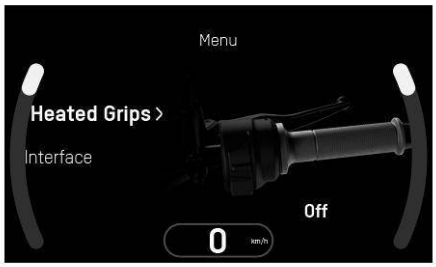
7.24.5 Easy Shift (optional)



Condition: Model with Easy Shift

- 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 **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 on or off by pressing the **SET** button.

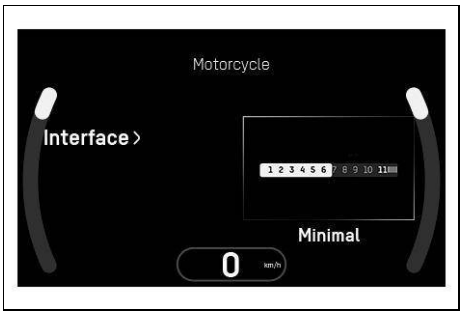
7.24.6 Grip Heating (optional)



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

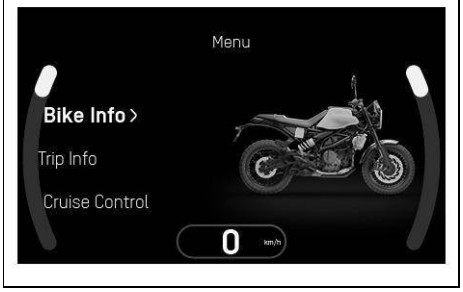
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until **Motorcycle** is highlighted. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Heating** is highlighted. Press the **SET** button to open the submenu.
- Press the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

7.24.7 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.
- You can switch between the normal and minimum speedometer view by pressing the **RIGHT** button.

7.24.8 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**.

7.24.9 Bike info



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

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.

7.24.10 Warning



Condition: Message or warning is present

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Bike Info** is highlighted. Pressing the **SET** button opens the menu.
– Press the **UP** or **DOWN** button until **Warning** is highlighted. Press the **SET** button to open the submenu.
– Use the **UP** or **DOWN** button to navigate through the warnings.

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

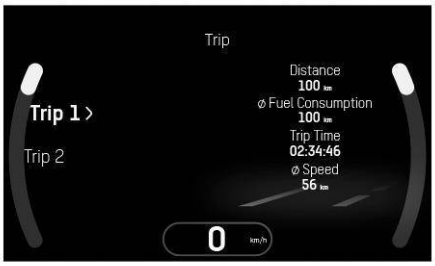
7.24.11 Trip info

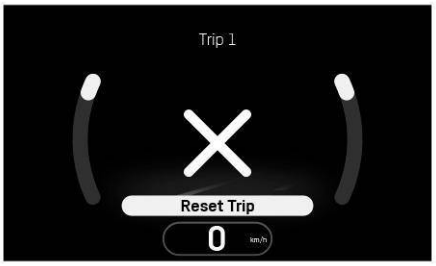


– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Trip** is highlighted. Pressing the **SET** button opens the menu.

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

7.24.12 Trip 1





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

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

Note

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

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

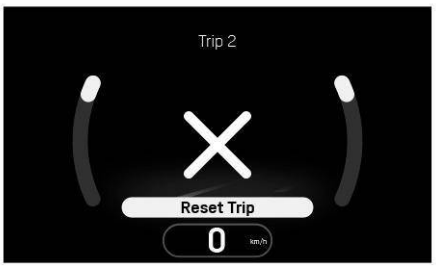
ØConsump. indicates the average fuel consumption based on **Trip**.

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

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

7.24.13 Trip 2





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

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

Note

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

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

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

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

Press **Reset Trip** to reset all entries in the **Trip 2** menu.

7.24.14 speed control



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

Geschwindigkeitsbegrenzer can be activated and deactivated in the **Geschwindigkeitsbegrenzer** menu.

7.24.15 Speed control status



– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Geschwindigkeitsbegrenzer** is highlighted. Pressing the **SET** button opens the menu.
– Press the **UP** or **DOWN** button until **State** is highlighted. Pressing the **SET** button opens the menu.
– Activate the menu item using the **UP** or **DOWN** button.
– Switch **SET** on or off by pressing the **Geschwindigkeitsbegrenzer** button.

7.24.16 Navigation (optional)



Condition: Function **Bluetooth®** activated, The **Ride Husqvarna** app (optional) is installed and connected on a suitable cell phone (Android devices from version 7.0, iOS devices from version 14), The combination instrument is connected to a suitable cell phone, GPS function is activated on the connected cell phone, For voice navigation: The combination instrument is connected to a suitable communication system and an appropriate language package has been downloaded in the **Ride Husqvarna Navigation** app (optional).

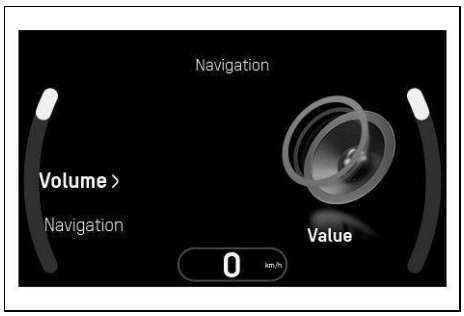
– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Navigation** is marked. Pressing the **SET** button opens the menu.

7.24.17 Volume (optional)



Condition: The **Ride Husqvarna** app (optional) is installed and connected on a suitable cell phone (Android devices from version 7.0, iOS devices from version 14), The combination instrument is connected to a suitable cell phone, For voice navigation: The combination instrument 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 **Navigation** is marked. Pressing the **SET** button opens the menu.



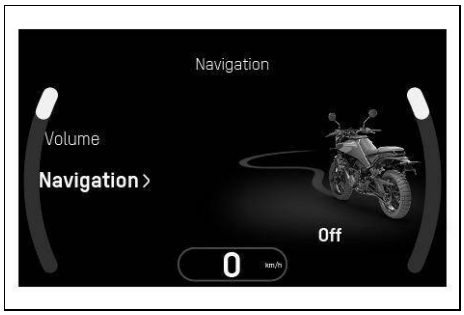
WARNING

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

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

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

7.24.18 State (optional)



Condition: Function **Bluetooth®** activated, The **Ride Husqvarna** app (optional) is installed and opened on a suitable cell phone (Android devices from version 7.0, iOS devices from version 14), The combination instrument is connected to a suitable cell phone

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Navigation** is marked. Pressing the **SET** button opens the menu.
– Press the **UP** or **DOWN** button until **State** is marked. Press the **SET** button to confirm the selection.
– 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.

7.24.19 audio



Condition: Function **Bluetooth®** activated, The combination instrument is connected to a suitable cell phone, The combination instrument is connected to a suitable communication system or the **Headset Type Corded** is selected

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

WARNING

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

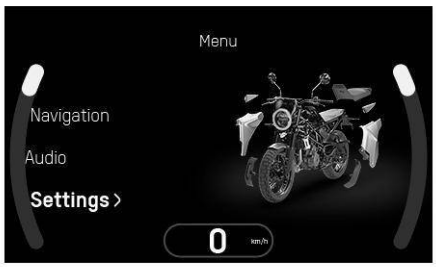
– Always select headphone volume which is low enough for you to still clearly hear acoustic signals.

– Press the **UP** or **DOWN** button until **Audio** is highlighted. Press the **SET** button to open the 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 1** or **Quick Selector 2** for easier operation.

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

7.24.21 favorites

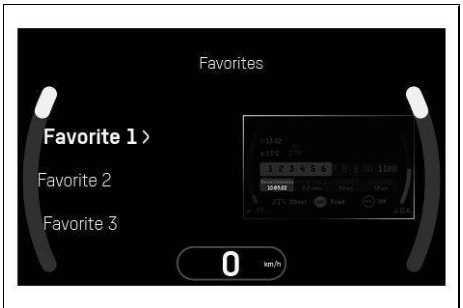


Condition: Motorcycle is stationary

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

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

7.24.22 Favorites-display 1 - 4



Condition: Motorcycle is stationary

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted.
– Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Favorites** is highlighted. Press the **SET** button to open the submenu.
– Press the **UP** or **DOWN** button to select **Favorite 1**, **Favorite 2**, **Favorite 3**, or **Favorite 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.

7.24.23 Quick selector 1



Condition: Motorcycle is stationary

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

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

7.24.24 Quick selector 2

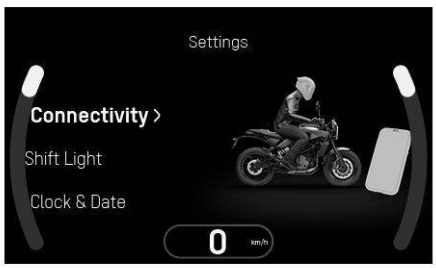


Condition: Motorcycle is stationary

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

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

7.24.25 connectivity



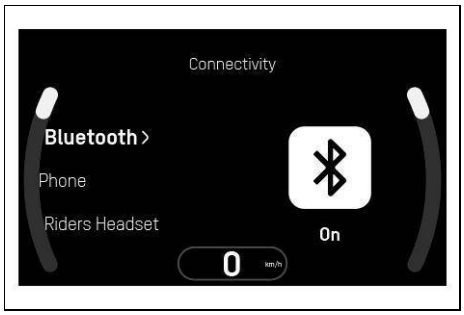
Condition: Motorcycle is stationary, Function **Bluetooth®** activated

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Ride Mode** is marked. Press the **SET** button to open the menu.

A suitable cell phone or communication system can be paired with the combination instrument via **Bluetooth®** in menu **Connectivity** and the audio function and navigation function can be configured.

Note
Not every cell phone and communication system is suitable for pairing with the combination instrument.
The standard **Bluetooth®** 4.0 must be supported.

7.24.26 Bluetooth



Condition: Motorcycle is stationary

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted.
– Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Ride Mode** is highlighted. 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.

Note

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

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

7.24.27 pairing a phone



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

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Ride Mode** is highlighted. Press the **SET** button to open the submenu.
– Press the **UP** or **DOWN** button until “Pair phone” 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 again in the pairing menu. Press the **SET** button to start the pairing.

Note

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

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

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



Note

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

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

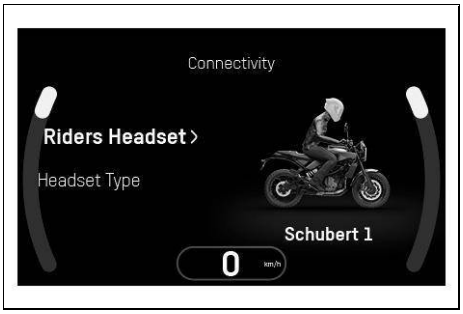
In submenu **Phone Pairing**, a suitable cell phone can be paired with the combination instrument via **Bluetooth®**.

Note

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

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

7.24.28 headset pairing



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

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Ride Mode** is highlighted. 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 communication system. If the search was successful, the name of the rider's headset is displayed in the **New Pairing** submenu. Press the **SET** button to start the pairing.

Note

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

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

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

– Move the previously paired device into the range of the vehicle while the **Bluetooth®** function is active.
  ✓ The device is automatically connected with the vehicle.

✗ If the device is not automatically connected with the vehicle after approx. 30 seconds:
  – Switch on the vehicle again or repeat the **New Pairing** procedure.

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

7.24.29 Type of audio device



Condition: Motorcycle is stationary

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Connectivity** is highlighted. Press the **SET** button to open the submenu.
– Press the **UP** or **DOWN** button until **Headset Type** is highlighted.
– Activate the menu item using the **UP** or **DOWN** button.
– Press the **SET** button to change the rider headset type.

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

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

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

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

7.24.30 Shift Light

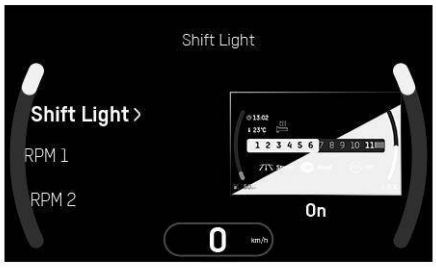


Condition: Motorcycle is stationary, **ODO** > 1000 km (621 mi)

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

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

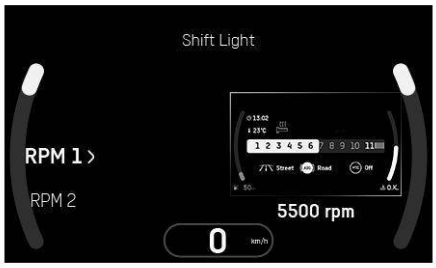
7.24.31 Shift light state



Condition: Motorcycle is stationary, **ODO** > 1000 km (621 mi).

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

7.24.32 RPM1



Condition: Motorcycle is stationary, **ODO** > 1000 km (621 mi)

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
– Press the **UP** or **DOWN** button until **RPM1** is highlighted. Press the **SET** button to open the submenu.
– Activate the menu item using the **UP** or **DOWN** button.
– Set the value for **SET** by pressing the **RPM1** button.

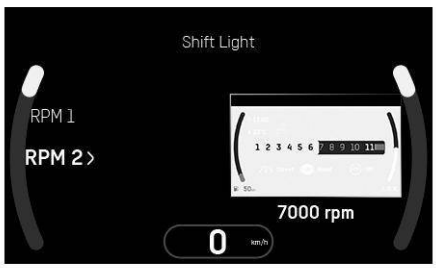
Note

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

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

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

7.24.33 RPM2



Condition: Motorcycle is stationary, **ODO** > 1000 km (621 mi)

– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted. Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Shift Light** is highlighted. Press the **SET** button to open the submenu.
– Press the **UP** or **DOWN** button until **RPM2** is highlighted. Press the **SET** button to open the submenu.
– Activate the menu item using the **UP** or **DOWN** button.
– Set the value for **SET** by pressing the **RPM2** button.

Note

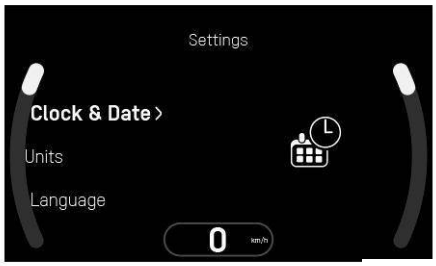
RPM2 can be set in intervals of 500 between 7,000 and 10,000 rpm.

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

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

7.24.34 Setting the time and date

Condition: Motorcycle is stationary



I00913-10

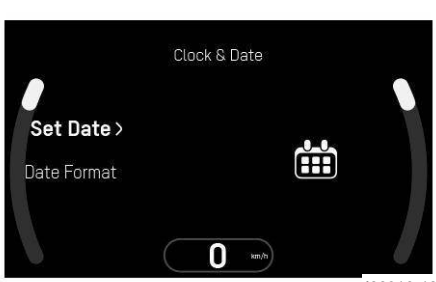
- Press the **SET** button when the menu is closed.
- Press **UP** or **DOWN** button until **Settings** appears. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until **Clock & Date** is highlighted. Press the **SET** button to open the submenu.



I00914-10

Setting the clock

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



I00916-10

Setting the date

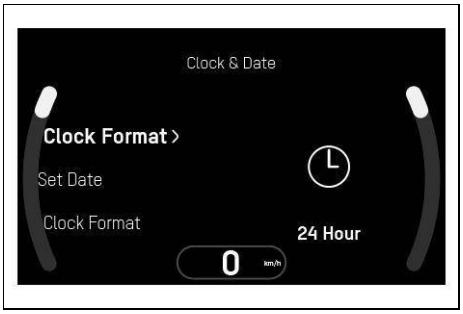
- Press the **UP** or **DOWN** button until **Set Date** is marked.
- Press the **SET** button to open the submenu.
- Press the **UP** or **DOWN** button until the day is set. Press the **SET** button to select the day.
- Press the **UP** or **DOWN** button until the current month is set. Press the **SET**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

7.24.35 Clock format



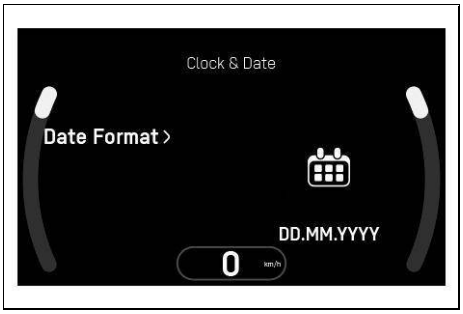
Condition: Motorcycle is stationary

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



Note
The possible settings are 24h and 12h.

7.24.36 Date format

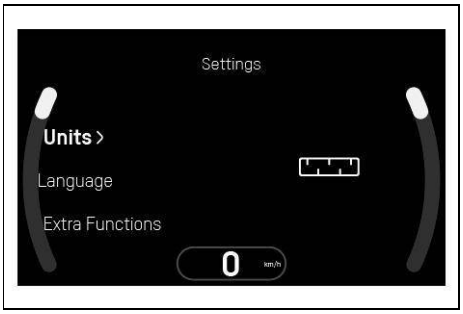


Condition: Motorcycle is stationary

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

Note
The possible settings are DD.MM.YYYY, MM.DD.YYYY and YYYY.MM.DD.

7.24.37 Units

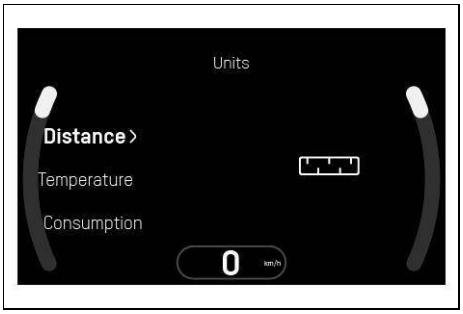


Condition: Motorcycle is stationary

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

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

7.24.38 Distance

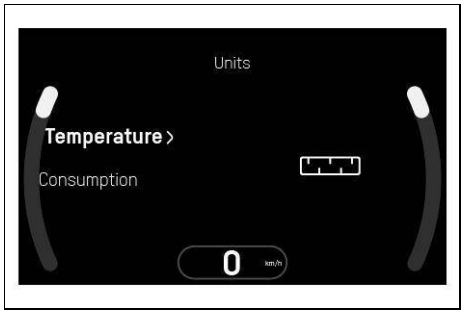


Condition: Motorcycle is stationary

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

7.24.39 Temperature

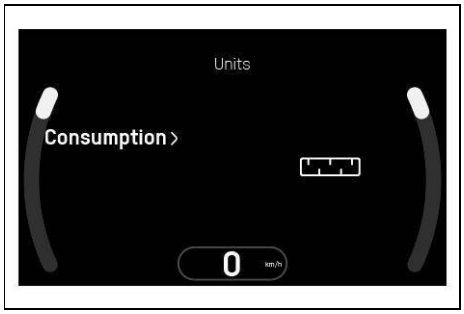


Condition: Motorcycle is stationary

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

7.24.40 Consumption

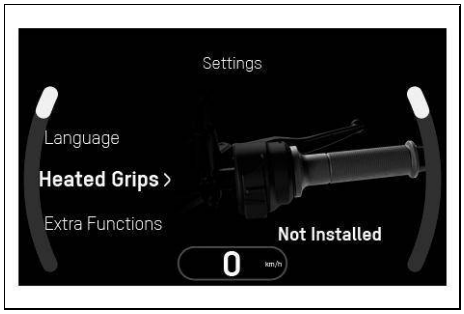


Condition: Motorcycle is stationary

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

Note
The following can be set: l/100 km, km/l, USG/100 mi, mi/USG, malfunction indicator light, UKG/100 mi and mi/UKG.

7.24.41 Heating (optional)



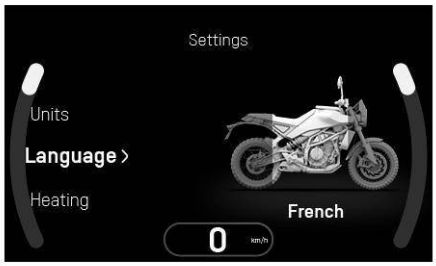
Condition: Motorcycle is stationary

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

The heated grip can be configured in the **Heating** submenu.

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

7.24.42 Language



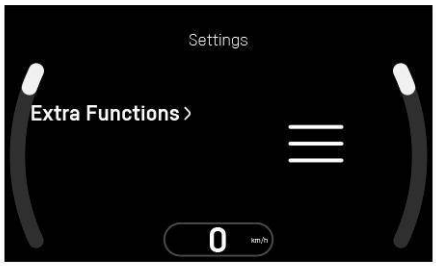
Condition: Motorcycle is stationary

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

Note

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

7.24.43 Extra Functions



Condition: Motorcycle is stationary, Motorcycle with optional supplementary function

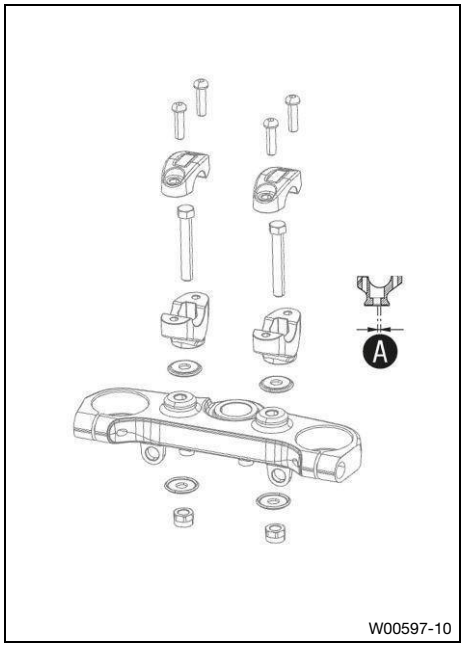
– Press the **SET** button when the menu is closed.
– Press the **UP** or **DOWN** button until **Settings** is highlighted.
– Press the **SET** button to open the menu.
– Press the **UP** or **DOWN** button until **Extra Functions** is highlighted. Press the **SET** button to open the submenu.
– Use the **UP** or **DOWN** button to navigate through the extra functions.

Note

The optional extra functions are listed.

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

8.1 Handlebar position



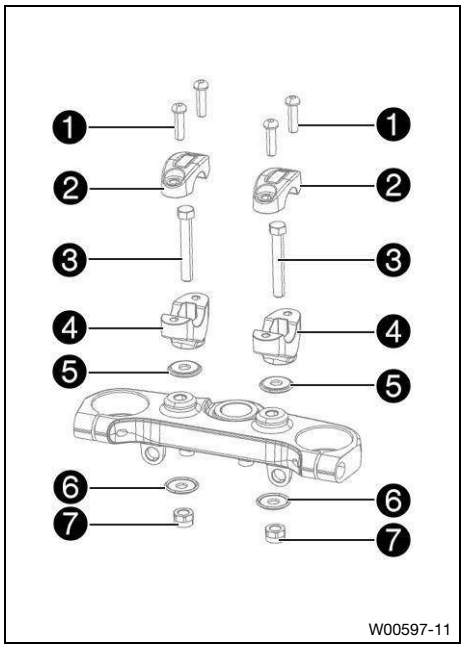
The holes on the handlebar support are placed at a distance of Ⓐ from the center.

Hole distance Ⓐ	5 mm (0.20 in)

The handlebar can be mounted in 2 different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

8.2 Adjusting the handlebar position

WARNING
Danger of accidents A repaired handlebar poses a safety risk.
If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.
– Change the handlebar if the handlebar is damaged or bent.

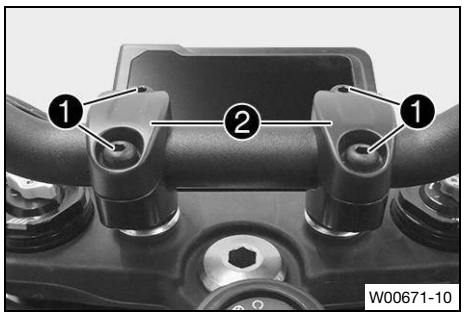


– Remove screws ❶.
– Take off the handlebar clamps ❷. Take off the handlebar, place to one side and secure.

Note
Protect the components against damage by covering them.
Do not kink the cables or lines.

– Remove screws ❸ with washers ❻ and nuts ❼. Take off handlebar supports ❹.
– Position washers ❺.
– Place handlebar supports ❹ in the required position.
– Mount and tighten screws ❸ with washers ❻ and nuts ❼.

Screw, handlebar mount	
M10	21 Nm (15.5 ft·lb$_f$)



– Position the handlebar.

Note
Make sure the cables and wiring are positioned correctly.

– Position handlebar clamps ❷.
– Mount screws ❶, but do not tighten yet.

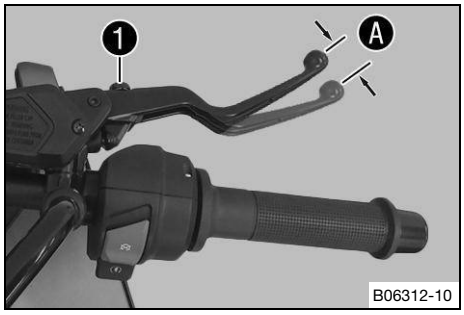
Screw, handlebar clamp	
M8	20 Nm (14.8 ft·lb$_f$) **Loctite® 243**

✓ The handlebar is aligned centrally to the handlebar mount and handlebar clamps.

– First bolt the handlebar clamps with screws ❶ onto the longer, higher side of the handlebar supports so that both parts touch.
– Tighten screws ❶ evenly.

Screw, handlebar clamp	
M8	20 Nm (14.8 ft·lb$_f$) **Loctite® 243**

8.3 Adjusting the basic position of the hand brake lever

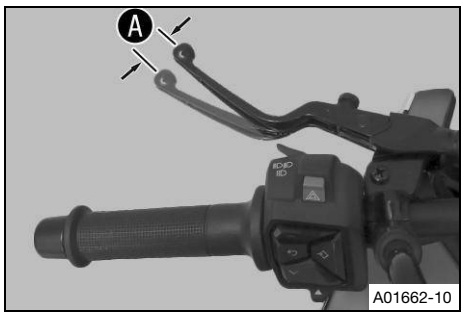


– Adjust the basic position of the hand brake lever to your hand size by turning adjusting wheel ❶.
– Push the hand brake lever forward and turn the setting wheel until a suitable position is reached in area Ⓐ.

Only turn the adjusting wheel by hand; do not use force.
Do not make any adjustments while riding.

8.4 Checking the play in 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 play in the clutch lever Ⓐ.

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

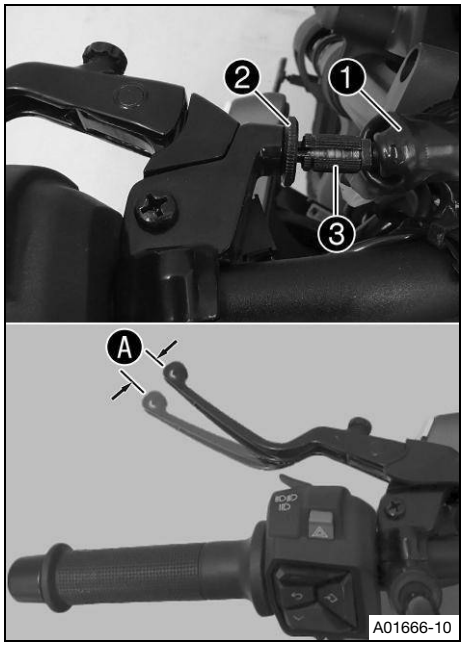
» If the play in the clutch lever does not meet the specified value:
  – Adjust play in the clutch lever. (p. 57)

– Move the handlebar back and forth over the entire steering range.

The clutch lever play must not change.

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

8.5 Adjusting play in the clutch lever

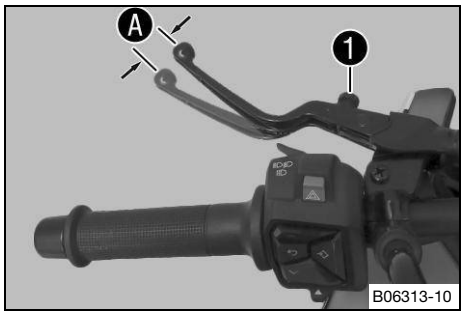


– Move the handlebar to the straight-ahead position.
– Push back sleeve ❶.
– Loosen lock nut ❷.
– Adjust the play in the clutch level Ⓐ by turning adjusting screw ❸.

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

– Tighten lock nut ❷.
– Position bellows ❶.

8.6 Adjusting the basic position of the clutch lever

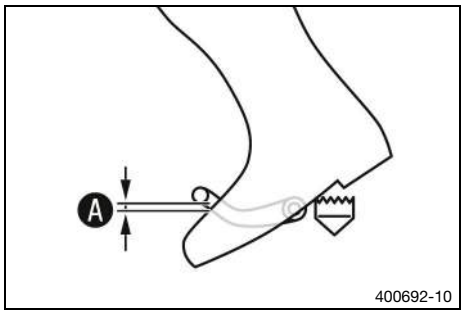


– Adjust the basic position of the clutch lever to your hand size by turning adjusting wheel ❶.
– Push the clutch lever forward and turn the setting wheel until a suitable position is reached in area Ⓐ.

Only turn the adjusting wheel by hand; do not use force.
Do not make any adjustments while riding.

8.7 Checking the basic position of the gear shift lever

Note
When driving, the gear shift lever must not touch the rider's boot when in the basic position.
If the shift lever is permanently touching the boot, the transmission will be subject to excessive load; this can cause a malfunction of the Easy Shift.



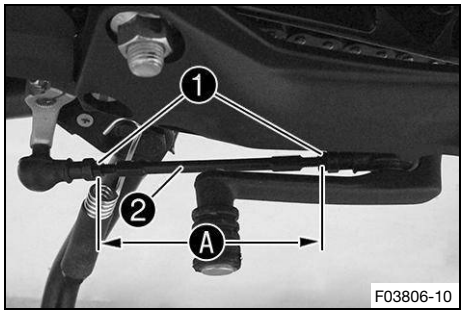
– Sit on the vehicle in the riding position and measure the distance Ⓐ between the upper edge of your boot and the shift lever.

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. 58)

8.8 Adjusting the basic position of the gear shift lever

Note
The adjustment range of the shift lever is limited.



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

Shift rod adjustment range Ⓐ	110 mm … 120 mm (4.33 in … 4.72 in)
Make equal adjustments on both sides.	
At least five threaded ends must be screwed into the seating.	

– Tighten nuts ❶.

Nut, shift rod	
M6	6 Nm (4.4 ft·lb$_f$)
Nut, shift rod	
M6LH	6 Nm (4.4 ft·lb$_f$)

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

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

9.1 Notes on preparing for first use

DANGER
Danger of accidents A rider who is not fit to ride poses a danger to themself and to others.
– Do not operate the vehicle if you are not fit to ride due to alcohol, drugs, or medication.
– Do not operate the vehicle if you are physically or mentally incapable of doing so.

WARNING
Danger of accidents The brake system fails in the event of overheating.
If the brake pedal is not released, the brake pads grind continuously.
– Take your foot off the brake pedal when you are not braking.

WARNING
Danger of accidents Non-approved or non-recommended tyres and wheels impact the handling characteristic.
– Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.

WARNING
Danger of accidents New tires have reduced road grip.
The contact surface on new tires is not yet roughened.
– Run in new tires with moderate riding and only gradually increase the lean angle.

Run-in distance	200 km (124.3 mi)

WARNING
Danger of accidents Different tire profiles on the front and rear wheels can make it more difficult to control the vehicle.
– Make sure that only tires of the same tread type are mounted to the front and rear wheel.

WARNING
Risk of injury Missing or inadequate protective clothing increases the risk of injury.
– Wear appropriate protective clothing such as helmet, boots, gloves as well as pants and a jacket with protectors on all rides.
– Always wear protective clothing that is in good condition and meets the legal regulations.

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

– Ensure that the pre-delivery inspection has been carried out by an authorized contractual partner.
  ✓ The delivery certificate is transferred upon vehicle handover.
– Read the entire owner's manual before riding for the first time.
– Get to know the controls.
– Get used to the handling characteristics of the motorcycle on suitable terrain before undertaking a more challenging ride. Also, ride as slowly as possible to get a better feeling for the motorcycle.
– Hold the handlebar firmly with both hands and keep your feet on the footpegs when riding.
– Do not make any trips that exceed your personal ability and experience.
– Run in the engine. (p. 60)

9.2 Running in the engine

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

Maximum engine speed	
During first: 1,000 km (621.4 mi)	7,500 rpm (125.00 Hz)

Note
During the running-in phase, the shift warning light is set to a specified value and cannot be changed.

– Avoid fully opening the throttle.

9.3 Loading the vehicle

WARNING
Fire hazard The hot exhaust system may burn luggage.
– Fasten your luggage in such a way that it cannot be burned or singed by the hot exhaust system.

WARNING
Danger of accidents A high payload alters the handling characteristic and increases the stopping distance.
– Adapt your speed to your payload.

WARNING
Danger of accidents Carrying luggage alters handling characteristics.
– Adapt your speed to your payload.
– Ride more slowly if your vehicle is loaded with cases or other luggage.

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

WARNING
Danger of accidents Items of luggage that have slipped or are incorrectly fastened can obscure the lighting system.
– Check that your luggage is fixed properly at regular intervals.
– Make sure that the lighting system is not covered by luggage.

WARNING
Danger of accidents Total weight and axle loads influence the handling characteristic.
The total weight consists of: operational vehicle with a full tank, rider and, if applicable, a passenger with protective clothing and helmet, and, if applicable, mounted luggage.
– Do not exceed the maximum permissible total weight or the axle loads.

WARNING
Danger of accidents Improper mounting of cases, tank rucksacks or other luggage impairs the handling characteristics.
Luggage mounted incorrectly can slip while the vehicle is in motion.
– Mount and secure all luggage according to the manufacturer's instructions.
– Check that your luggage is fixed properly at regular intervals.

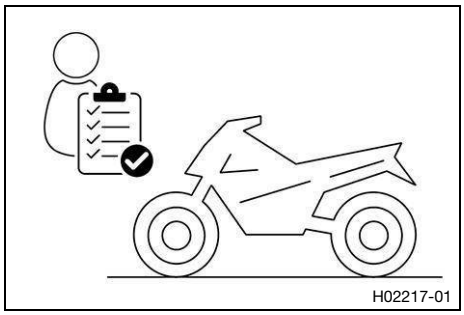
WARNING
Danger of accidents The luggage system will be damaged if it is overloaded.
– Read the manufacturer information on maximum payload when mounting cases.

– If luggage is carried, ensure it is fixed firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.
– The maximum permissible total weight and the maximum permissible axle loads must not be exceeded.

Maximum permissible total weight	355 kg (782.6 lb)
Maximum permissible front axle load	127 kg (280.0 lb)
Maximum permissible rear axle load	228 kg (502.7 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.


H02217-01

- Check the engine oil level. (p. 123)
- Check the brake fluid level for the front brake. (p. 91)
- Check the brake fluid level for the rear brake. (p. 93)
- Check that the brake pads of the front brake are secured. (p. 92)
- Check that the brake pads of the rear brake are secured. (p. 95)
- Check that the brake system is functioning properly.
- Check the coolant level. (p. 117)
- Check the chain for dirt. (p. 84)
- Check the chain tension. (p. 85)
- Check the tire condition. (p. 102)
- Check the tire pressure. (p. 103)
- 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.

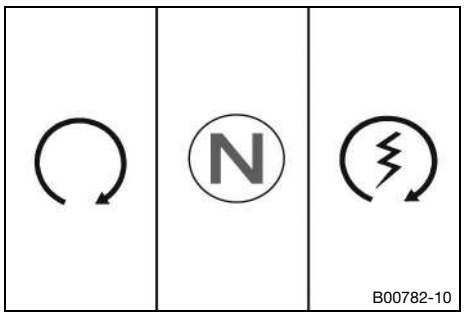
10.2 Starting

DANGER
Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.
- Always ensure that there is sufficient ventilation when running the engine.
- Use suitable exhaust extraction when starting or running the engine in an enclosed space.

WARNING
Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.
If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.
- Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

NOTE
Engine failure 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 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.



– Unlock steering. (p. 23)
– Take the weight off the side stand and swing it back up with your foot as far as it will go.
– Press the kill switch into 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.

– Shift the transmission into the neutral position.
✓ The green idle indicator lamp **N** lights up.
✓ The **ABS** warning light lights up and goes back out after starting off.
– Briefly press start button .

Do not press the start button until the combination instrument function check has finished.
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.

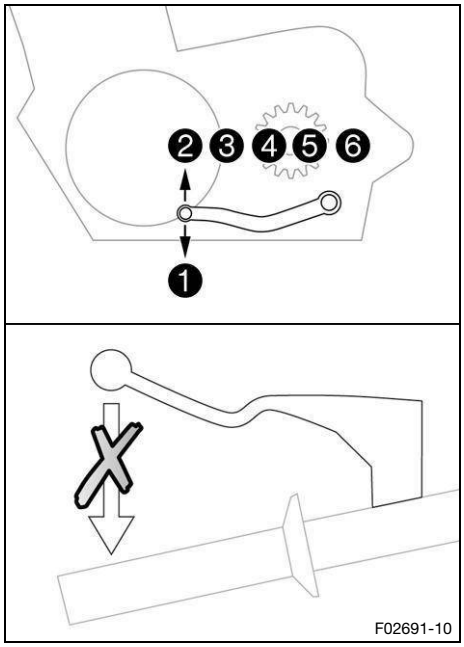
Note
This motorcycle is equipped with a safety starting system. You can only start the engine if the transmission is in neutral or if the clutch lever is pulled when a gear is engaged. If the side stand is folded out and you shift into gear and release the clutch lever, the engine stops.

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.

Tip
If the engine dies while starting off, only pull the clutch lever and press the start button. The transmission must not be shifted into neutral.

10.4 Easy Shift



Using **Easy Shift**, you can shift up and down without actuating the clutch.

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

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.

10.5 Shifting, riding.

WARNING

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

– Ensure that the passenger sits correctly on the passenger seat, places his or her feet on the passenger foot pegs and holds on to the rider or the grab handles.

WARNING

Danger of accidents Not adapting the riding style constitutes a major risk.

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

WARNING

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

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

– Do not exceed the maximum permissible total weight or the axle loads.

WARNING

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

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

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

WARNING

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

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

WARNING
Danger of accidents Abrupt load alterations can cause the vehicle to become out of control.
– Avoid abrupt load alterations and sudden braking actions unless a hazardous situation arises.

WARNING
Danger of accidents Cold tires have reduced road grip.
– Ride the first miles carefully on every journey at moderate speed until the tires reach operating temperature.

WARNING
Danger of accidents New tires have reduced road grip.
The contact surface on new tires is not yet roughened.
– Run in new tires with moderate riding and only gradually increase the lean angle.

Run-in distance	200 km (124.3 mi)

WARNING
Danger of accidents A fall can damage the vehicle more seriously than it may first appear.
– Check the vehicle after a fall as you do when preparing for use.

WARNING
Danger of accidents An incorrect ignition key position causes malfunctions.
– Do not change the ignition key position while riding.

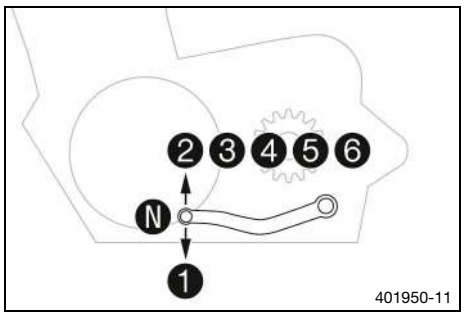
WARNING
Danger of accidents If you downshift at high engine speed, the rear wheel blocks and the engine races.
– Do not downshift to a lower gear at high engine speeds.

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

NOTE
Engine failure Unfiltered intake air has a negative effect on the service life of the engine.
Dust and dirt can enter the engine if there is no air filter or if the air filter is mounted incorrectly.
– Only operate the vehicle if an air filter is correctly fitted.

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



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

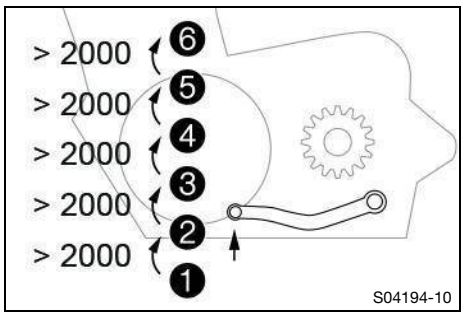
Note
You can see the positions of the 6 forward gears in the figure. The idle position is between the first and second gears. First gear is used for starting off or for steep inclines.

– After reaching maximum speed by fully opening the throttle twist grip, turn the throttle back so that it is ¾ 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 an intersection), just pull the clutch lever and press the start button. 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 as soon as it is safe to do so and switch off the engine. Contact an authorized contractual partner.
– If the malfunction indicator lights up during a trip, stop immediately (taking care not to endanger yourself or other road users in the process), switch off the engine, and contact an authorized contractual partner.
– If the general warning lamp lights up during a trip, an operating safety (warning) message was detected.

Note
All warnings which have occurred are displayed and stored in the **Warning** menu until these are no longer active.

– If the general warning symbol begins to flash in the display during the trip, several warnings have been detected.

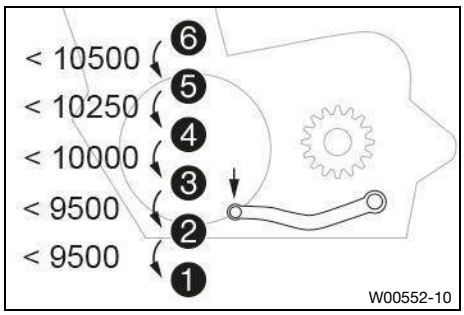
Note
Warnings which have occurred are shown and saved in the **Info** display until these are no longer active.



– **Easy Shift** allows you to shift down in the speed range shown without pulling the clutch lever.

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

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



– **Easy Shift** allows you to shift down in the speed 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 before shifting down in revolutions per minute is shown in the figure.

10.6 Braking.

WARNING
Danger of accidents A spongy pressure point on the front or rear brake reduces the brake action.
– Do not drive the vehicle if the brake system has a spongy pressure point.

WARNING
Danger of accidents The brake system fails in the event of overheating.
If the brake pedal is not released, the brake pads grind continuously.
– Take your foot off the brake pedal when you are not braking.

WARNING
Danger of accidents 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 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 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 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 ABS may increase the stopping distance in certain situations.
– Adapt your braking to the riding situation and the road conditions.

– 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 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 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. Shift down one or two gears, but do not overrev the engine when doing so. This means that significantly less braking is required and means the brake system does not overheat.

10.7 Stop, park

WARNING
Risk of injury People who act without authorization endanger themselves and others.
– Never leave the vehicle unattended while the engine is running.
– Lock the steering and remove the ignition key if you leave the vehicle unattended.

WARNING
Danger of burns Some vehicle components become hot when the vehicle is operated.
– Do not touch any parts such as the exhaust system, radiator, engine, damper, or brake system before the vehicle parts have cooled down.
– Allow the vehicle parts to cool down before performing any work on the vehicle.

NOTE
Fire hazard Hot vehicle components pose a fire hazard and explosion risk.
– Do not park the vehicle near materials which are highly flammable or explosive.
– Allow the vehicle to cool down before covering it.

NOTE
Material damage The vehicle may be damaged if parked incorrectly.
Damage can occur if the vehicle rolls away or falls over.
The components for parking the vehicle are designed only for the weight of the vehicle.
– Park the vehicle on a firm and level surface.
– Make sure that nobody sits on the vehicle when it is parked on a stand.

– Brake the motorcycle.
– Shift the transmission into the neutral position.
– Switch off the ignition by turning the ignition key to position ⊗.

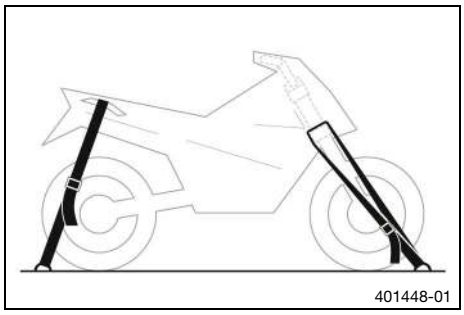
Note
If the engine is switched off with the emergency OFF switch and the ignition remains switched on in the ignition lock, the power supply to most electrical power consumers remains uninterrupted and this discharges the 12-V battery. You should therefore always switch off the engine with the ignition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

– Park the motorcycle on a firm surface.
– Swing side stand forward with your foot as far as it will go and lean the vehicle on it.
– Lock the steering. (p. 23)

10.8 Transport

NOTE
Fire hazard Hot vehicle components pose a fire hazard and explosion risk.
– Do not park the vehicle near materials which are highly flammable or explosive.
– Allow the vehicle to cool down before covering it.

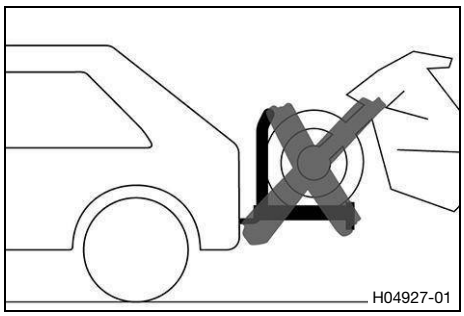
NOTE
Material damage The vehicle may be damaged if parked incorrectly.
Damage can occur if the vehicle rolls away or falls over.
The components for parking the vehicle are designed only for the weight of the vehicle.
– Park the vehicle on a firm and level surface.
– Make sure that nobody sits on the vehicle when it is parked on a stand.



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

10.9 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.

10.10 Refueling

DANGER

Fire hazard Fuel is highly flammable.

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

– Do not refuel the vehicle in the vicinity of open flames, glowing, or smoldering objects.
– Make sure that nobody smokes in the vicinity of the vehicle during the refueling process.
– Switch off the engine for refueling.
– Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
– If any fuel is spilled, wipe it up immediately.
– Do not overfill the fuel tank.

WARNING

Danger of poisoning Fuel is harmful to health.

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

NOTE

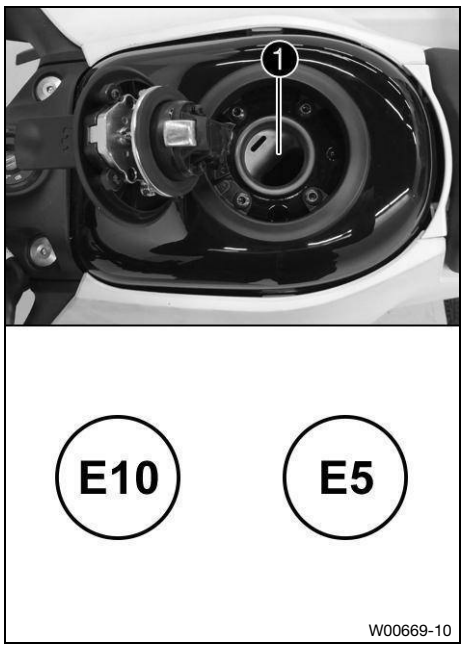
Material damage Inadequate fuel quality can lead to losses in performance and consequential damage.

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

NOTE

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

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



– Switch off the engine.
– Open the fuel tank cap. (p. 23)
– Fill the fuel tank with fuel up to the lower edge ❶ of the filler neck.

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95) (p. 150)	13 l (3.4 liq. gal_{US})

– Close the fuel tank cap. (p. 24)

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 contractual partners for the electronic proof of service. Your authorized contractual partner will be happy to advise you.

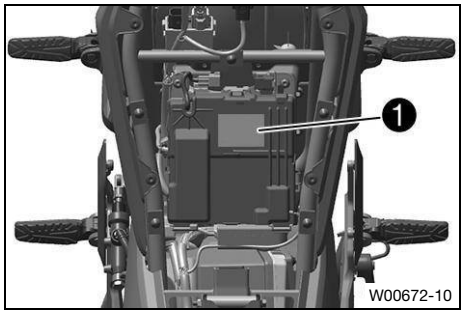
	after 1,000 km (621.4 mi)	every 10,000 km (6,213.7 mi)	every 20,000 km (12,427.4 mi)	Every 12 months	Every 24 months	Every 48 months
Read out the fault memory using the diagnostics tool.	○	●	●	●	●	●
Program the shift shaft sensor.	○	●	●			
Check that the electrical equipment is functioning properly.	○	●	●	●	●	●
Check that the brake pads of the front brake are secured. (p. 92)	○	●	●	●	●	●
Check that the brake pads of the rear brake are secured. (p. 95)	○	●	●	●	●	●
Check the brake discs. (p. 90)	○	●	●	●	●	●
Check the brake lines for damage and tightness.	○	●	●	●	●	●
Check the brake fluid level for the front brake. (p. 91)	○	●	●	●		
Change the brake fluid for the front brake.					●	●
Check the brake fluid level for the rear brake. (p. 93)	○	●	●	●		
Change the brake fluid for the rear brake.					●	●
Change the engine oil and the oil filter, clean the oil screens. (p. 123)	○	●	●	●	●	●
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.	○	●	●	●	●	●
Check the tire condition. (p. 102)	○	●	●	●	●	●
Check the tire pressure. (p. 103)	○	●	●	●	●	●
Check the chain, rear sprocket, and engine sprocket. (p. 87)		●	●	●	●	●
Check the chain tension. (p. 85)	○	●	●	●	●	●
Grease all moving parts (e.g. side stand, hand lever, chain, etc.) and check for smooth operation.	○	●	●	●	●	●
Check that the clutch cables are undamaged, routed without kinks, and set correctly.	○	●	●	●	●	●
Check the valve clearance, change the spark plug.			●			
Change the air filter, clean the air filter box.		●	●			

	after 1,000 km (621.4 mi)	every 10,000 km (6,213.7 mi)	every 20,000 km (12,427.4 mi)	Every 12 months	Every 24 months	Every 48 months
Check the headlight adjustment. (p. 113)	○	●	●			
Check the tightness of the safety-relevant screws and nuts which are easily accessible.	○	●	●	●	●	●
Clean the dust boots of the fork legs. (p. 79)		●	●			
Check that the radiator fan is functioning properly.	○	●	●	●	●	●
Check the coolant level. (p. 117)	○	●	●	●	●	
Checking the antifreeze.	○	●	●	●	●	
Change the coolant. (p. 120)						●
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 interval display.	○	●	●	●	●	●
Enter the electronic proof of service in the contractual partner portal.	○	●	●	●	●	●

○ One-time interval

● Periodic interval

12.1 Fork/shock absorber



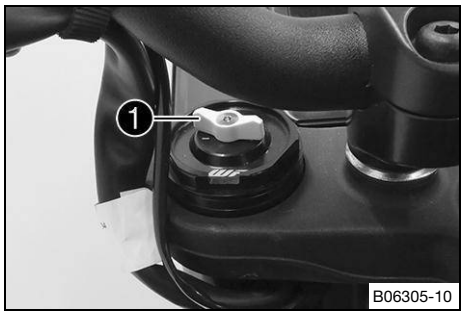
The fork and the shock absorber offer many options for adapting the chassis to the riding style and the payload.

Note
The recommendations for the suspension setting are shown in table ❶. The table is attached to the battery cover.

These adjustments should be understood as guide values and should always be the basis for one's personal suspension setting. Do not change the adjustments at random, as otherwise the riding characteristics could deteriorate, particularly at high speeds.

12.2 Adjusting the compression damping of the fork

Note
The hydraulic compression damping determines the fork suspension behavior.



– Turn adjuster ❶ clockwise all the way to the stop.

Note
Adjuster ❶ is located at the upper end of the left fork leg.

The compression damping is located in left fork leg **COMP** (white adjuster). The rebound damping is located in right fork leg **REB** (red adjuster).

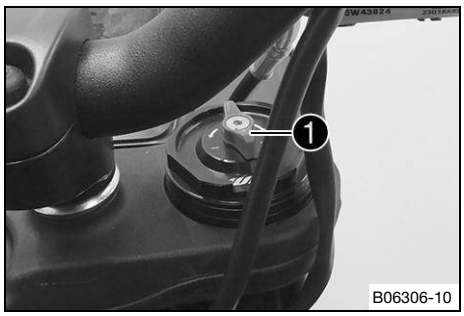
– Turn counterclockwise by the number of clicks corresponding to the fork type.

Compression damping	
Standard	15 clicks

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

12.3 Adjusting the rebound damping of the fork

Note
The hydraulic rebound damping determines the fork suspension behavior.



– Turn adjuster ❶ clockwise all the way to the stop.

Note

Adjuster ❶ is located at the upper end of the right fork leg.

The rebound damping is located in right fork leg **REB** (red adjuster). The compression damping is located in left fork leg **COMP** (white adjuster).

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

Rebound damping	
Standard	15 clicks

Note

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

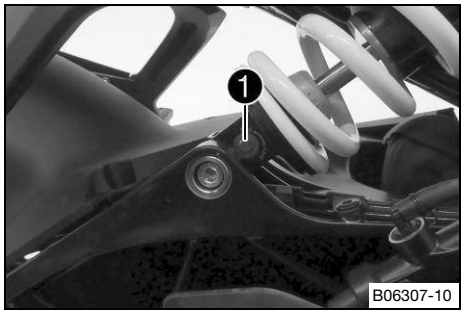
12.4 Adjusting the rebound damping of the shock absorber

CAUTION

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

The shock absorber is filled with highly compressed nitrogen.

– Please follow the description provided.



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

Rebound damping	
Standard	11 clicks

Note

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

12.5 Adjusting the spring preload of the shock absorber

WARNING

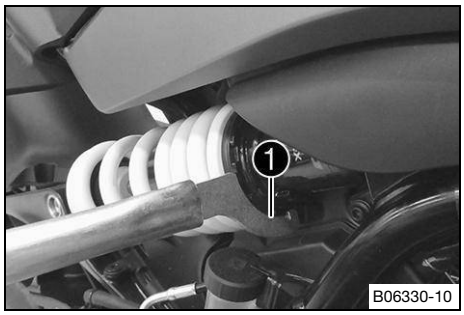
Danger of accidents Modifications to the suspension settings that are not properly coordinated can impair the handling and overload components.

– 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.



– Adjust the spring preload by turning the adjusting device ❶ using a suitable hook wrench.

Preload	
Standard	11 mm (0.43 in)

Note

The spring preload can be set to 10 different positions.

13.1 Raising the motorcycle with rear lifting gear

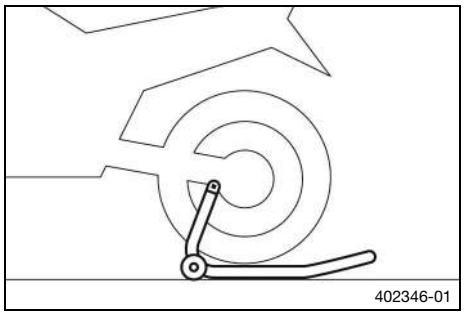
NOTE

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 the supports of the wheel stand.
– Insert the adapter in the rear wheel stand.

Retaining adapter (61029955244)
Rear wheel work stand (69329955000)

– Stand the motorcycle upright, align the wheel stand with the swingarm and the adapters, and raise the motorcycle.

13.2 Removing the rear of the motorcycle from the lifting gear

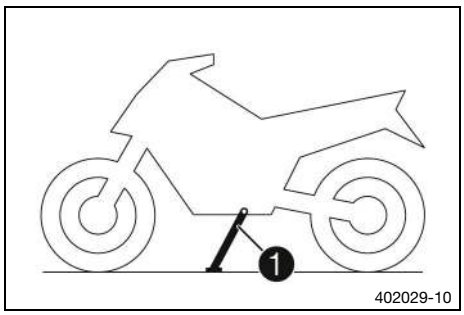
NOTE

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 ❶.
– Remove bushings kit.

13.3 Lifting the motorcycle with the front lifting gear

NOTE

Material damage The vehicle may be damaged if parked incorrectly.

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

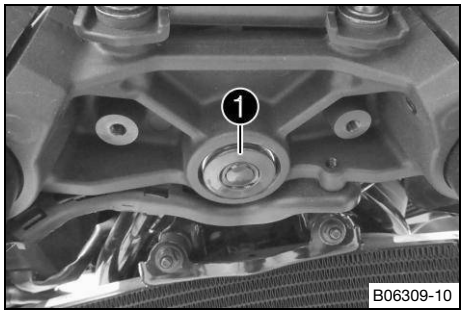
The components for parking the vehicle are designed only for the weight of the vehicle.

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

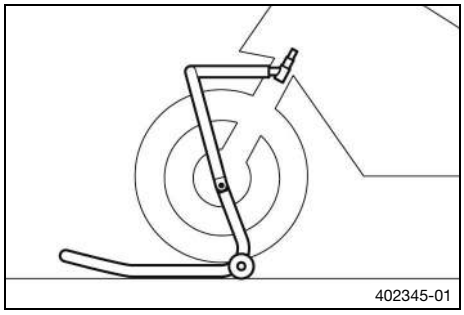
Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)

Main work



– Remove protection cap ❶.



– Move the handlebar to the straight-ahead position.
– Use suitable lifting gear when attaching the steering stem.

Mounting pin (69329965030)
Front wheel work stand, large (6932996510033)

– 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

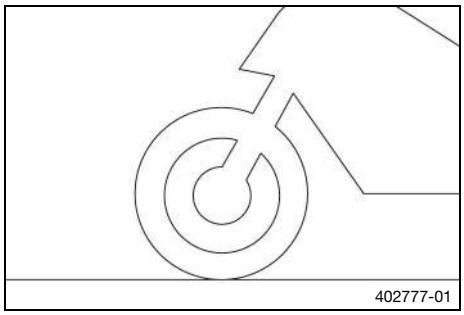
Material damage The vehicle may be damaged if parked incorrectly.

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

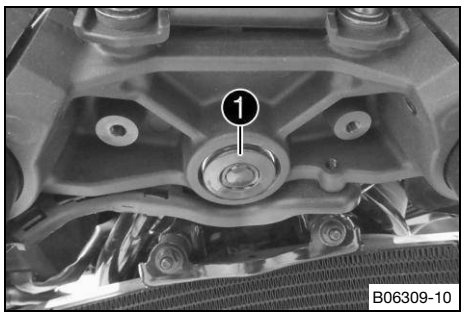
The components for parking the vehicle are designed only for the weight of the vehicle.

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

Main work



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



– Mount protection cap ❶.

Reworking

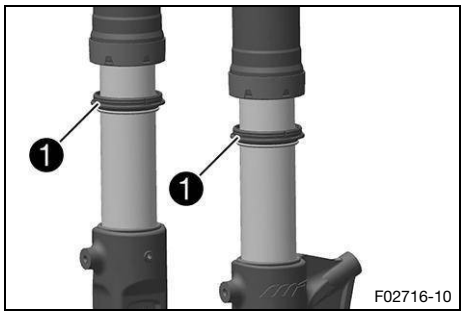
– Remove the rear of the motorcycle from the lifting gear. (p. 77)

13.5 Cleaning the dust boots of the fork legs

Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)
– Lift the motorcycle with the front lifting gear. (p. 77)

Main work



– Push dust boots ❶ of both fork legs downward.

Note

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

WARNING

Danger of accidents Oil, 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.

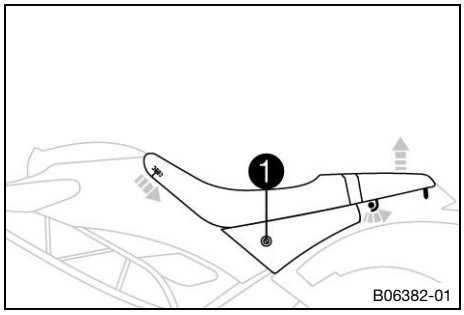
Universal oil spray (p. 151)

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

Reworking

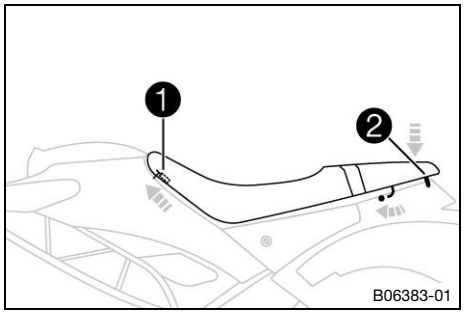
– Take the motorcycle off the front lifting gear. (p. 78)
– Remove the rear of the motorcycle from the lifting gear. (p. 77)

13.6 Removing the seat



– Insert the ignition key in seat lock ❶ and turn it clockwise.
– Raise the rear of the seat, pull the seat back, and lift it off.
– Remove the ignition key.

13.7 Mounting the seat



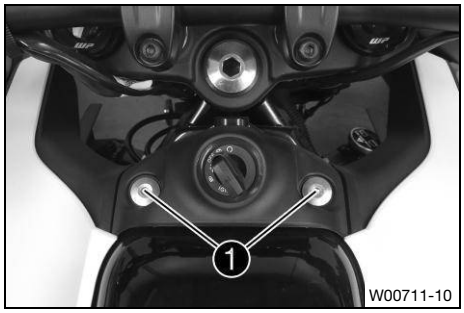
– Hook holding lug ❶ of the seat onto the fuel tank, lower the rear and push it forward.
– Insert locking pin ❷ into the lock housing and push down the rear of the seat until the locking pin engages with a click.
– Check that the seat is correctly mounted.

13.8 Removing the left side cover

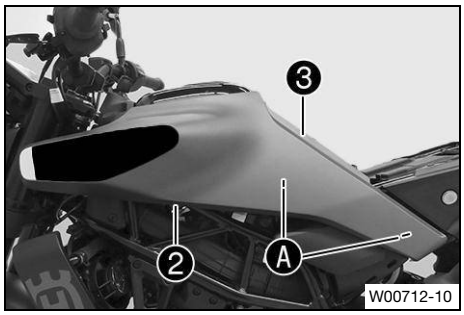
Preparatory work

– Remove the seat. (p. 80)

Main work

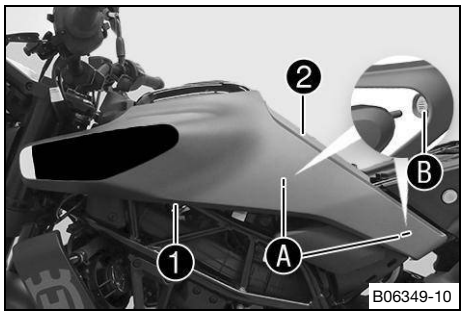


– Remove screws ❶.
– Take off the ignition lock cover by lifting it upwards.



– Remove screws ❷ and ❸.
– Pull off holding lugs in area Ⓐ.
– Take off side cover to side.

13.9 Installing the left side fairing



Main work

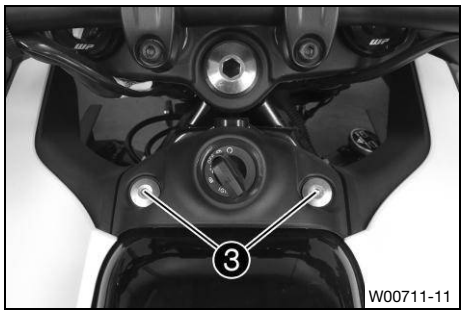
– Position the side cover.

Grease the holding lug and rubber bushing.

✓ Holding lugs Ⓐ engage in rubber bushings Ⓑ.

– Mount and tighten screws ❶ and ❷.

Screw, front trim	
M6×15	3.8 Nm (2.80 ft·lb$_f$)



– Position the ignition lock cover.
– Mount and tighten screws ❸.

Screw, ignition lock cover	
M6	7 Nm (5.2 ft·lb$_f$)

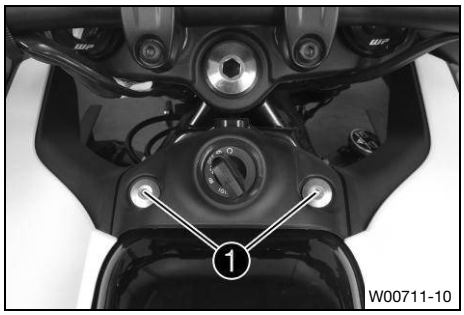
Reworking

– Mount the seat. (p. 80)

13.10 Removing the right side fairing

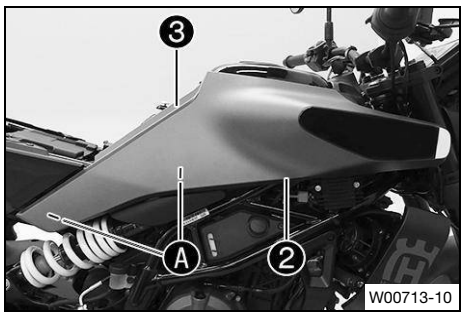
Preparatory work

– Remove the seat. (p. 80)



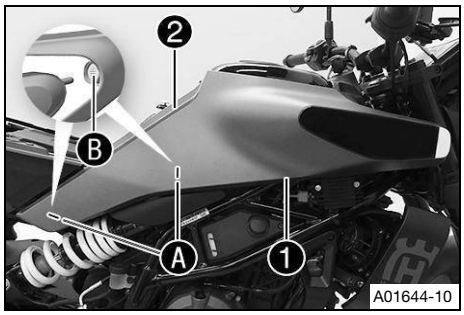
Main work

– Remove screws ❶.
– Take off the ignition lock cover by lifting it upwards.



– Remove screws ❷ and ❸.
– Pull off holding lugs in area Ⓐ.
– Take off side cover to side.

13.11 Installing the right side cover



Main work

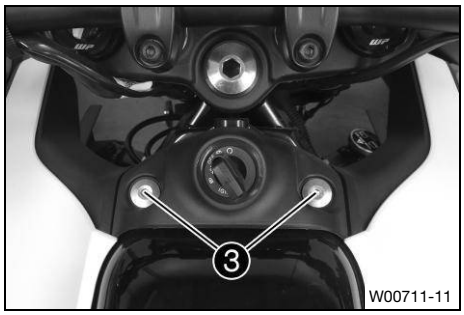
– Position the side cover.

Grease the holding lug and rubber bushing.

✓ Holding lugs Ⓐ engage in rubber bushings Ⓑ.

– Mount and tighten screws ❶ and ❷.

Screw, front trim	
M6×15	3.8 Nm (2.80 ft·lb$_f$)



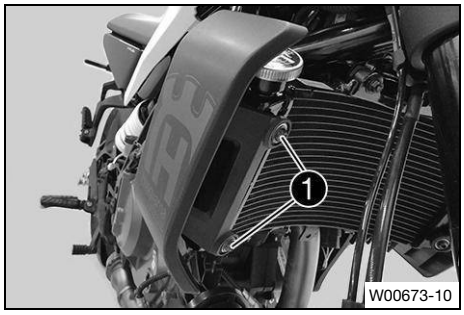
– Position the ignition lock cover.
– Mount and tighten screws ❸.

Screw, ignition lock cover	
M6	7 Nm (5.2 ft·lb$_f$)

Reworking

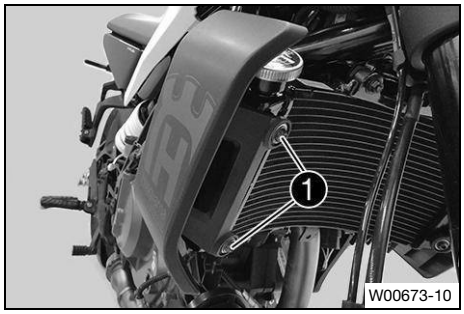
– Mount the seat. (p. 80)

13.12 Removing the right radiator spoiler



– Remove screws ❶.
– Take off the radiator spoiler to the side.

13.13 Mounting the right radiator spoiler



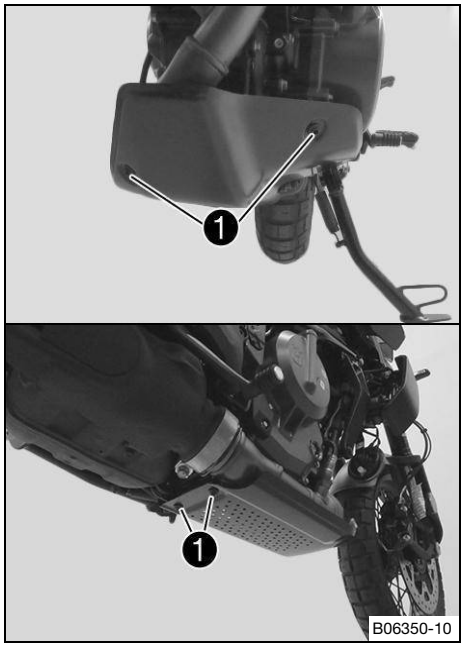
– Position the right radiator spoiler.

Note
Mount the opposite side in the same way.

– Tighten screws 1.

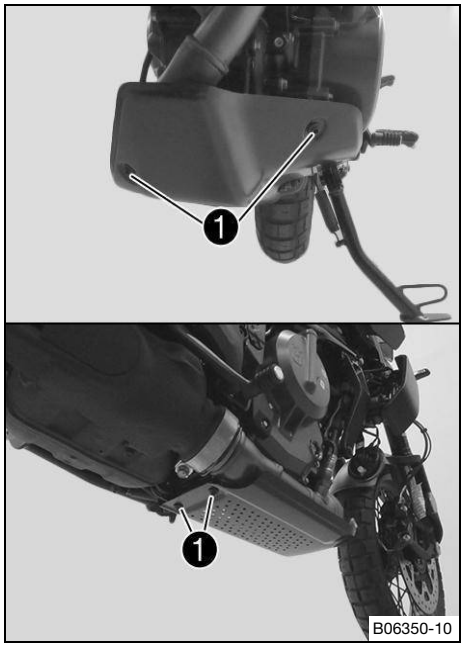
Screw, radiator shroud on radiator	
M6	5 Nm (3.7 ft·lb$_f$)

13.14 Removing the front spoiler



– Remove screws 1.
– Take off the front spoiler.

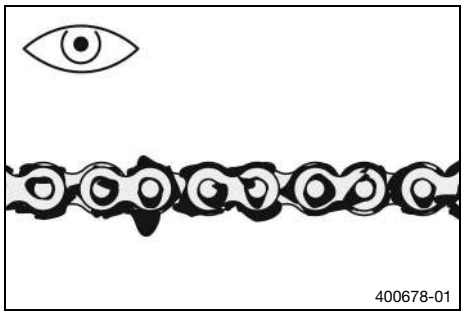
13.15 Fitting front spoiler



– Position the front spoiler, mount and tighten screws ❶.

Screw, front spoiler	
M6	7 Nm (5.2 ft·lb$_f$)

13.16 Checking the chain for dirt



– Check the chain for coarse dirt accumulation.
  » If the chain is very dirty:
    – Clean the chain. (p. 84)

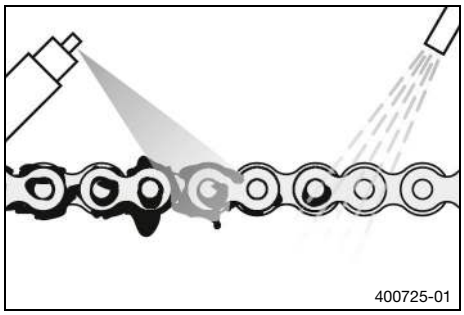
13.17 Cleaning the chain

WARNING
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.
– Always keep the brake discs free of oil, fat and wax.
– Clean the brake discs with brake cleaner when necessary.

WARNING
Danger of accidents Lubricants on the tires reduces the road grip.
– Remove lubricants from the tires using a suitable cleaning agent.

NOTE
Environmental hazard Hazardous substances cause environmental damage.
– Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc. correctly and in accordance with the applicable regulations.

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



Preparatory work
– Raise the motorcycle with the rear lifting gear. (p. 77)

Main work
– Clean the chain regularly.
– Rinse off the loose dirt with a gentle jet of water.
– Remove grease residue with chain cleaner.

Chain cleaner (p. 155)

– After drying, apply chain spray.

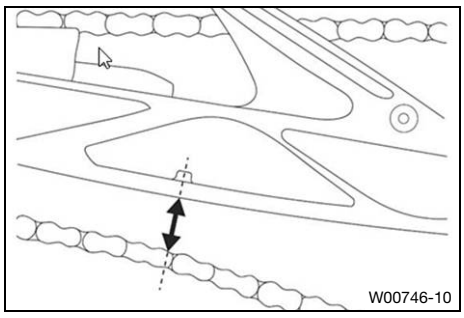
Street chain spray (p. 151)

Reworking
– Remove the rear of the motorcycle from the lifting gear. (p. 77)

13.18 Checking 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. 77)



Main work
– Shift the transmission into the neutral position.
– In the area after the chain sliding guard, press the chain upward toward the link fork and measure chain tension.

Chain tension	7 mm … 10 mm (0.28 in … 0.39 in)
The upper part of the chain must be taut.	
Chain wear is not always even, so repeat this measurement at different positions on the chain.	

» If the chain tension does not meet the specification:
– Adjust the chain tension. (p. 86)

– Remove the rear of the motorcycle from the lifting gear. (p. 77)

13.19 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.

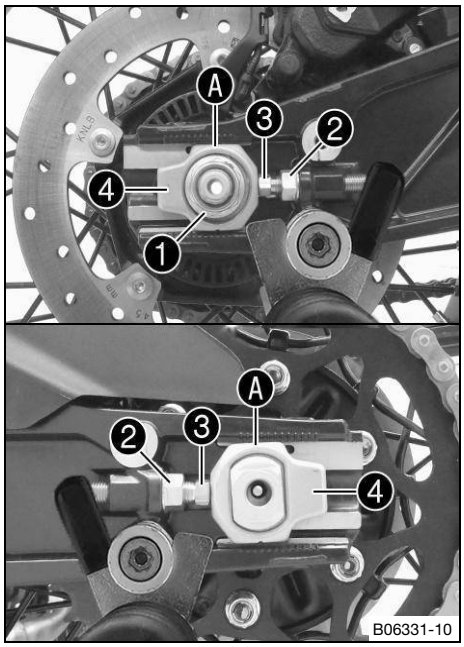
If the chain is too loose, the chain may fall off the front sprocket or the rear sprocket. This can damage the rear wheel or the engine.

– 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. 77)
– Check the chain tension. (p. 85)

Main work



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

Chain tension	7 mm … 10 mm (0.28 in … 0.39 in)
Turn adjusting screws ❸ on the left and right so that the markings on left and right chain adjusters ❹ are in the same position relative to reference marks Ⓐ. The rear wheel is then correctly aligned.	
The upper part of the chain must be taut.	
Chain wear is not always even, so repeat this measurement at different positions on the chain.	

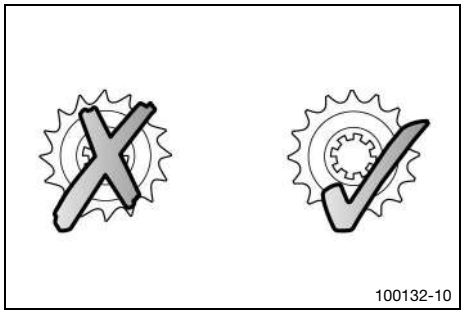
– Hand-tighten nut ❷.
– Make sure that chain adjusters ❹ are fitted correctly on adjusting screws ❸.
– Tighten nut ❶.

Nut, wheel spindle, rear	
M16	90 Nm (66.4 ft·lb$_f$)

Reworking

– Remove the rear of the motorcycle from the lifting gear. (p. 77)

13.20 Checking the chain, rear sprocket, and engine sprocket


100132-10

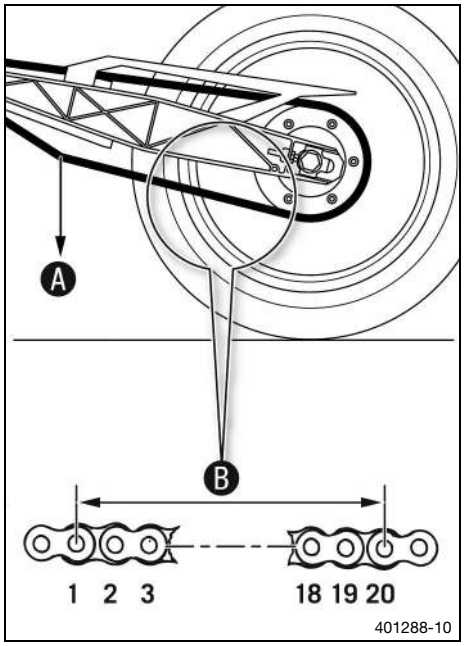
Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)

Main work

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

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



401288-10

– Shift the transmission into the neutral position.
– Pull on the lower chain section with specified weight Ⓐ.

Weight, chain wear measurement	15 kg (33.1 lb)

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

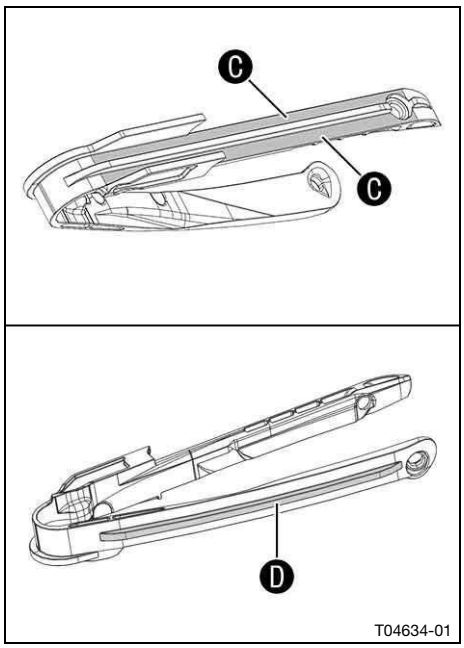
Maximum distance Ⓑ from 20 chain rollers at the longest chain section	304.0 mm (11.969 in)
Chain wear is not always even, so repeat this measurement at different positions on the chain.	

  » If distance Ⓑ 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.



– 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 C marked:
    – Change the chain slider.
  » If the chain sliding guard is highly worn on the underside in the marked area D:
    – Change the chain slider.
– Check that the chain slider is firmly seated.
  » If the chain slider is loose:
    – Tighten the screw of the chain sliding guard.

Screw, chain slider guard	
M6	9 Nm (6.6 ft·lb$_f$)

Reworking

– Remove the rear of the motorcycle from the lifting gear.
(p. 77)

14.1 Anti-lock braking system

WARNING

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

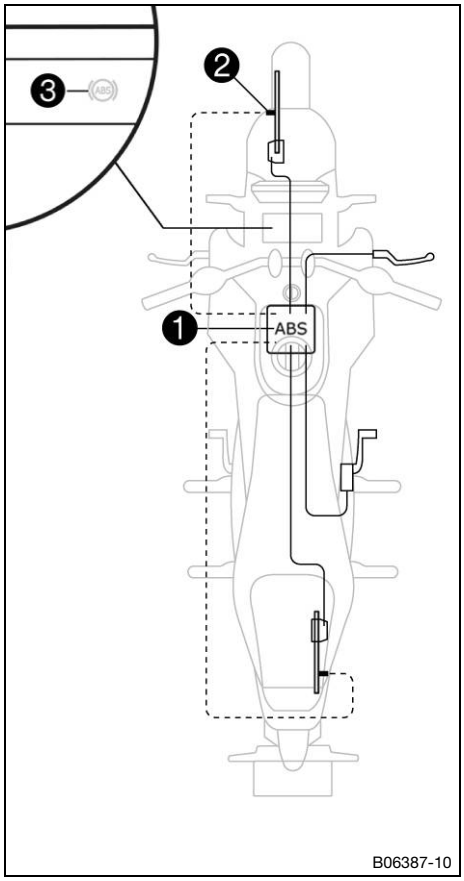
– Do not make any changes to the suspension travel.
– Only use spare parts on the brake system which have been approved and recommended by the vehicle manufacturer.
– Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.
– Maintain the specified tire pressure.
– Ensure that service work and repairs are performed professionally.

WARNING

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

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

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



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

WARNING
Danger of accidents An incorrectly selected ABS mode makes it more difficult to control the vehicle.
The ABS modes are each only suitable for certain conditions.
– Always select an ABS mode that suits the ground and the riding situation.

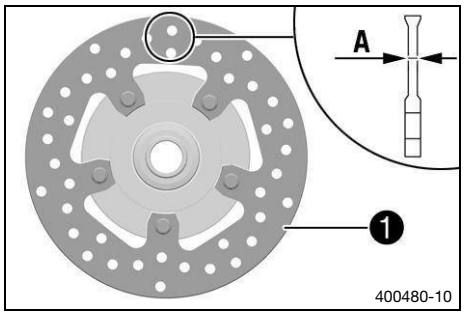
The **ABS** is a safety system that prevents the wheels locking when driving straight ahead or when cornering (within the limits of physics).
The ABS control is dependent on the ride mode. ABS has two operating modes: the **Road** and **Supermoto** ABS modes.

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 ❸ must light up after the ignition is switched on and go out after starting off. If it does not go out after starting off or if it is lit while riding, this indicates a fault in the ABS. In this case, the ABS is no longer enabled and the wheels may lock during braking. The brake system itself stays functional; only ABS control is not available.
The ABS warning lamp may also light up if the rotating speeds of the front and rear wheels differ greatly under extreme riding conditions, for example when making "wheelies" or if the rear wheel spins. This causes the ABS to switch off.
To reactivate the ABS, stop the vehicle and switch off the ignition. The ABS is reactivated when the vehicle is switched on again. The ABS warning 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 front and rear brake disc thickness at multiple points for the dimension Ⓐ.

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

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

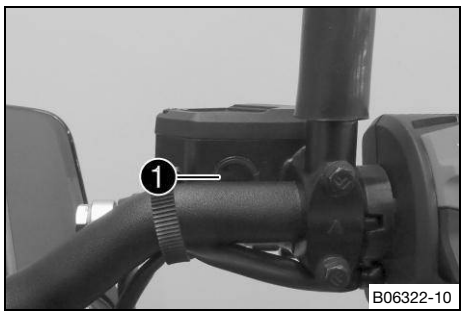
» If the brake disc thickness is less than the specified value.
– Change the brake discs of the front brake.
– Change the brake discs on the rear brake.

– 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 brake discs of the front brake.
    – Change the brake discs on the rear brake.

14.3 Checking the brake fluid level for the front brake

WARNING
Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.
– Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
– Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING
Danger of accidents An insufficient brake fluid level will cause the brake system to fail.
If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.
– Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



– Move the brake reservoir mounted on the handlebar to a horizontal position.
– Check the brake fluid level in level viewer 1.
  » If the brake fluid level is below the **MIN** marking:
    – Add brake fluid for the front brake. (p. 91)

14.4 Adding brake fluid for the front brake

WARNING
Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.
– Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
– Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING
Danger of accidents An insufficient brake fluid level will cause the brake system to fail.
If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.
– Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.

WARNING

Health hazard Brake fluid is a harmful substance.

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

NOTE

Environmental hazard Hazardous substances cause environmental damage.

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

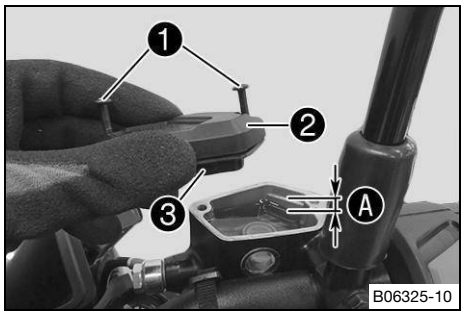
Note

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

Preparatory work

– Check that the brake pads of the front brake are secured. (p. 92)

Main work



– Move the brake reservoir mounted on the handlebar to a horizontal position.
– Remove screws 1.
– Take off cover 2 with membrane 3.
– Add brake fluid to level A.

Dimension A	5 mm (0.20 in)

Brake fluid DOT 5.1 (p. 152)

– Position the cover with diaphragm. Mount and tighten the screws.

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

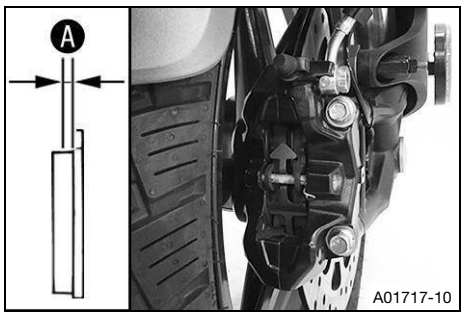
– Make sure that worn brake pads are replaced immediately.

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 the brake linings for lining thickness Ⓐ.

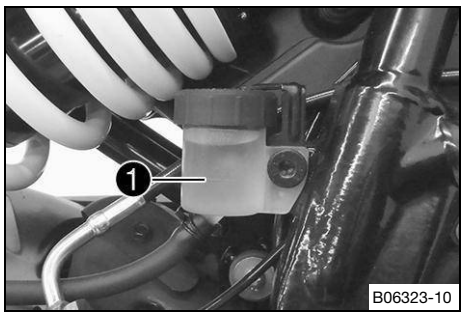
Minimum thickness Ⓐ	≥ 1 mm (≥ 0.04 in)

» If it is less than the minimum thickness:
  – Change the front brake pads.
– Check the brake pads 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 brake fluid level for the rear brake

WARNING
Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.
– Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
– Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING
Danger of accidents An insufficient brake fluid level will cause the brake system to fail.
If the brake fluid level drops below the specified marking or the specified value, the brake system has a leak or the brake pads are worn down.
– Have the brake system checked and make sure that the problem has been eliminated before the vehicle is used again.



– Stand the vehicle upright.
– Check the brake fluid level in the brake fluid reservoir.
» If the fluid level reaches the **MIN** marking Ⓐ:
  – Add brake fluid for the rear brake. (p. 93)

14.7 Adding brake fluid for the rear brake

WARNING
Danger of accidents Brake fluid which is too old or of the wrong type impairs the function of the brake system.
– Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule.
– Make sure that only clean, approved brake fluid from a tightly sealed container is used.

WARNING

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

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

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

WARNING

Health hazard Brake fluid is a harmful substance.

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

NOTE

Environmental hazard Hazardous substances cause environmental damage.

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

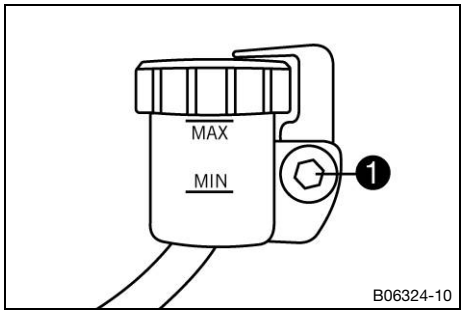
Note

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

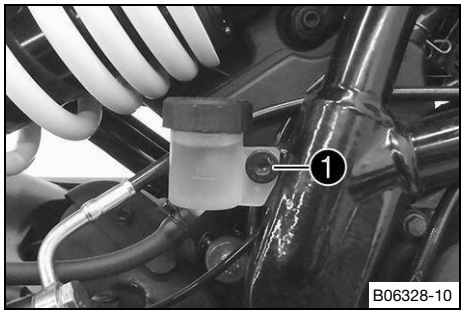
Preparatory work

– Check that the brake pads of the rear brake are secured. (p. 95)

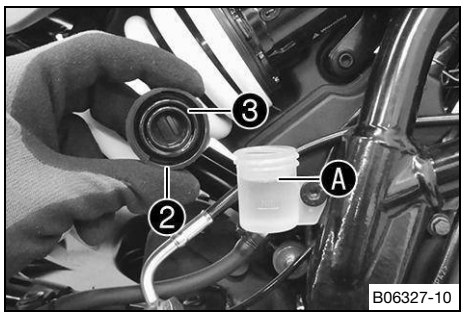
Main work



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



– Mount screw 1.

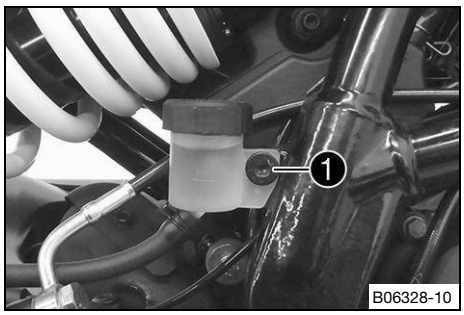


– Stand the vehicle upright.
– Remove screw cap ❷ with membrane ❸.
– Add brake fluid up to the marking Ⓐ.

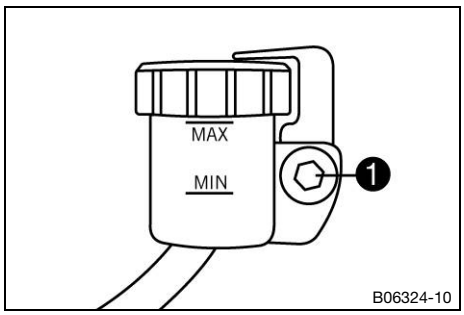
Brake fluid DOT 5.1 (p. 152)

– Mount the screw cover with the membrane.

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



– Remove screw ❶.



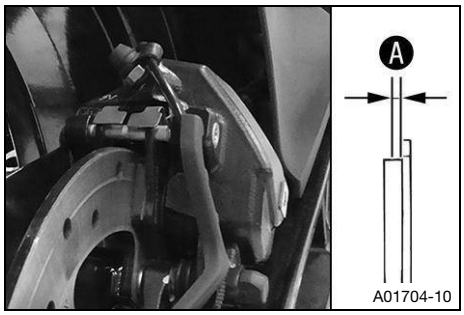
– Position the screw cap lock and mount and tighten screw ❶.

Screw, compensating tank cap lock, rear brake	
M5	9 Nm (6.6 ft·lb$_f$)

14.8 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 lining thickness Ⓐ.

Minimum thickness Ⓐ	≥ 1 mm (≥ 0.04 in)

» If it is less than the minimum thickness:
– Change the rear brake pads.
– Check the brake pads for damage and cracking.
» If there is damage or cracking:
– Change the rear brake pads.

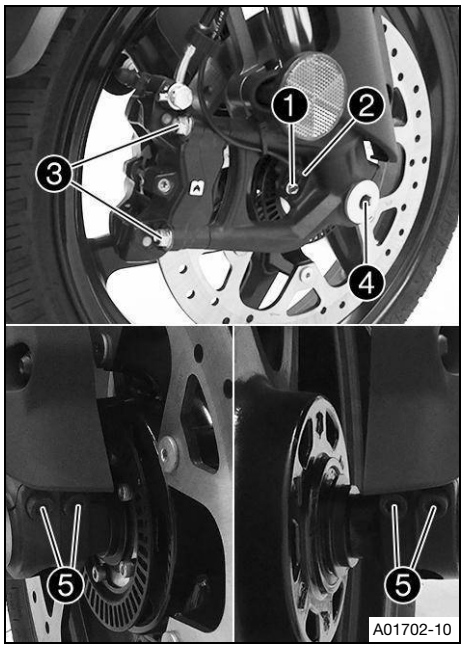
– Check that the brake pads are secured.
  » If the brake pads are not secured correctly:
    – Secure brake pads, replace with new parts if necessary.

15.1 Removing the front wheel

Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)
– Lift the motorcycle with the front lifting gear. (p. 77)

Main work

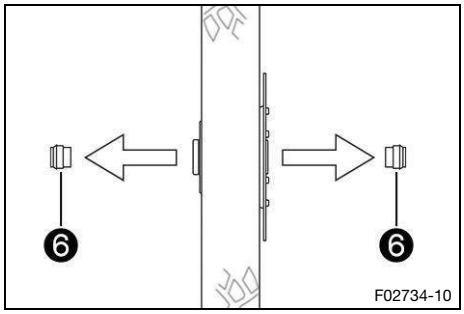


– Remove screw ❶ and pull wheel speed sensor ❷ out of the hole.
– Remove screws ❸ and hang front wheel brake caliper to the side.
– Loosen screw ❹ by four turns.
– Loosen screws ❺.
– Press on screw ❹ to push the wheel spindle out of the axle clamp.
– Remove screw ❹.

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.

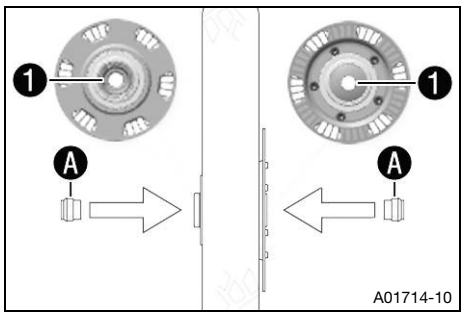
Do not actuate the hand brake lever when the front wheel is removed.



– Remove spacers ❻.

15.2 Installing the front wheel

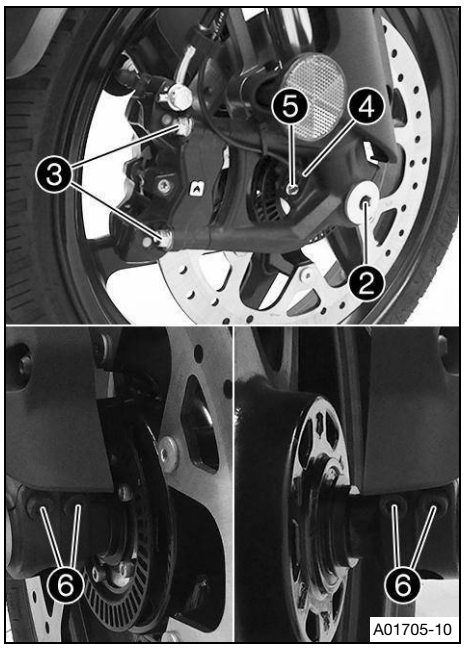
WARNING
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.
– Always keep the brake discs free of oil, fat and wax.
– Clean the brake discs with brake cleaner when necessary.



– 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 ❶ and contact surfaces Ⓐ on the spacers.

Long-life grease (p. 151)

– Insert spacers.



– Clean the thread of the wheel spindle and screw ❷.
– Clean and lightly grease the wheel spindle.

Long-life grease (p. 151)

– Position the front wheel and insert the wheel spindle.
  ✓ The brake pads are positioned correctly.
– Mount and tighten screw ❷.

Screw, wheel spindle, front	
M24	44 Nm (32.5 ft·lb$_f$)

– Position front brake caliper and tighten screws ❸.

Screw, front brake caliper	
M8	29 Nm (21.4 ft·lb$_f$) **Loctite® 243**

– Position wheel speed sensor ❹ in the hole and tighten screw ❺.

Screw, wheel speed sensor	
M6	9 Nm (6.6 ft·lb$_f$)

– Operate the hand brake lever repeatedly until the brake pads are in contact with the brake disc and a pressure point is reached.
– Take the motorcycle off the front lifting gear. (p. 78)
– Remove the rear of the motorcycle from the lifting gear. (p. 77)
– Operate the front brake and compress the fork a few times firmly.
  ✓ The fork legs straighten.
– Tighten screws ❻.

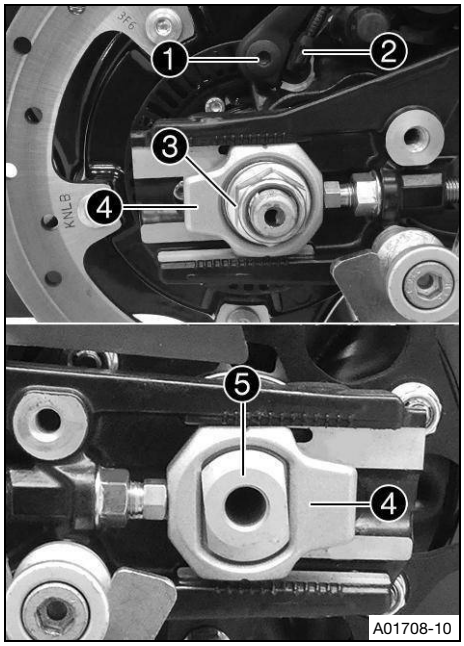
Screw, fork shoe	
M8	16 Nm (11.8 ft·lb$_f$)

15.3 Removing the rear wheel

Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)

Main work

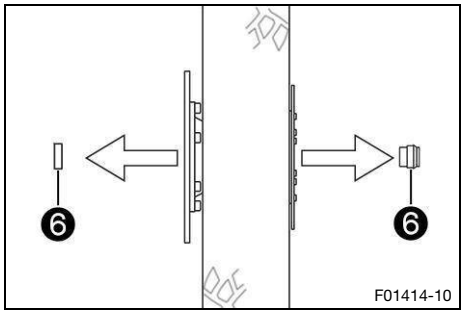


– Remove screw ❶ and pull wheel speed sensor ❷ out of the hole.
– Remove nut ❸ with washer.
– Take off chain adjuster ❹.
– Hold the rear wheel and remove wheel spindle ❺ with the washer and chain adjuster ❹.
– Push the rear wheel forward as far as possible and take the chain off the rear sprocket.

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.

– Pull the rear wheel back and take it out of the link fork.

Do not actuate the brake pedal when the rear wheel is removed.

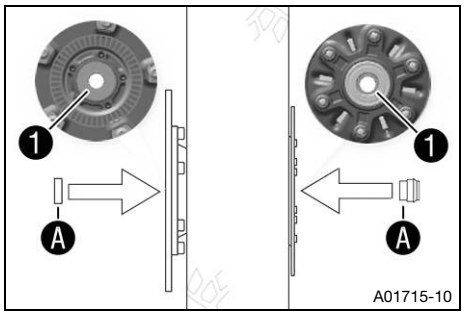


– Remove spacers ❻.

15.4 Installing the rear wheel

WARNING
Danger of accidents Oil, grease or wax on the brake discs reduces the brake action.
– Always keep the brake discs free of oil, fat and wax.
– Clean the brake discs with brake cleaner when necessary.

WARNING
Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.
– Actuate the foot brake several times before going on a ride until you can feel a firm pressure point.



Main work

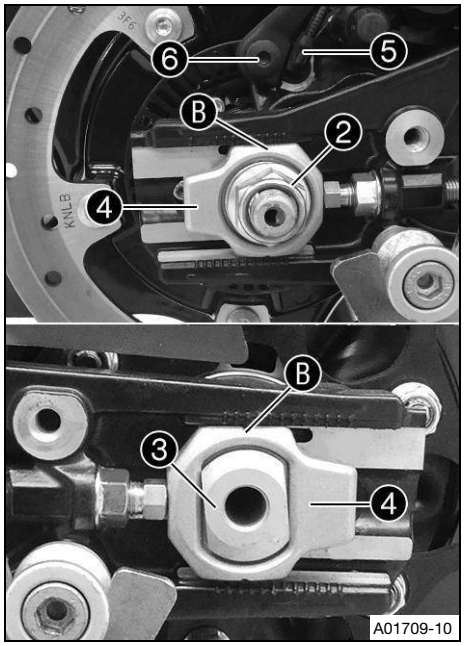
– Check the rear hub damping rubber pieces. (p. 101)
– Check the wheel bearing for damage and wear.
  » If the wheel bearing is damaged or worn:
    – Change the rear wheel bearing.
– Clean and grease radial shaft seal ❶ and contact surfaces Ⓐ on the spacers.

Long-life grease (p. 151)

– Clean the thread of the wheel spindle and axle nut.
– Clean and lightly grease the wheel spindle.

Long-life grease (p. 151)

– Clean the contact areas on the brake caliper bracket and link fork.
– Mount the damping rubber pieces and rear sprocket carrier on the rear wheel.
– Insert the narrow spacer into the side of the rear sprocket.
– Insert the wide spacer into the side of the brake disc.
– Position the rear wheel.
  ✓ The brake pads are positioned correctly.
– Push the rear wheel forward as far as possible and lay the chain on the rear sprocket.



– Pull the rear wheel back and mount wheel spindle ❸ with the washer and chain adjuster ❹.

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

– Mount nut ❷ with washer.
– Make sure that the chain adjusters are fitted correctly on the screws.
– Check the chain tension. (p. 85)
– Tighten nut ❷.

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 Ⓑ.

Nut, wheel spindle, rear	
M16	90 Nm (66.4 ft·lb$_f$)

– Position wheel speed sensor ❺ in the hole.
– Mount and tighten screw ❻.

Screw, wheel speed sensor	
M6	9 Nm (6.6 ft·lb$_f$)

Reworking

– Remove the rear of the motorcycle from the lifting gear. (p. 77)

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 six damping rubber pieces.

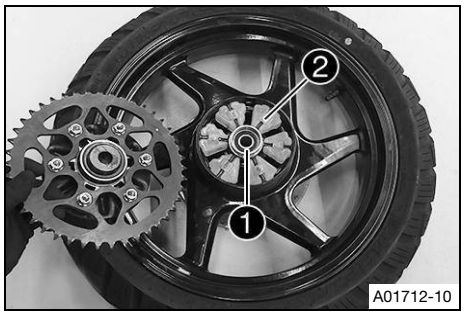
They eventually wear out during operation.

If the damping rubber pieces are not changed in time, the rear sprocket carrier and the rear hub will be damaged.

Preparatory work

– Raise the motorcycle with the rear lifting gear. (p. 77)
– Remove the rear wheel. (p. 99)

Main work



– Check bearing ❶.
  » If the bearing is damaged or worn:
    – Change the bearings.
– Check damping rubber pieces ❷ 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 upward and insert the wheel spindle in the hub.
– To check play Ⓐ, hold the rear wheel tight and try to rotate the rear sprocket.

Play of damping rubber pieces on rear wheel	≤ 5 mm (≤ 0.20 in)

Note

Measure the play on the outside of the rear sprocket.

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

Reworking

– Install the rear wheel. (p. 99)
– Remove the rear of the motorcycle from the lifting gear. (p. 77)

15.6 Checking the tire condition

WARNING
Danger of accidents If a tire bursts while riding, the vehicle becomes uncontrollable.
– Ensure that damaged or worn tires are replaced immediately.

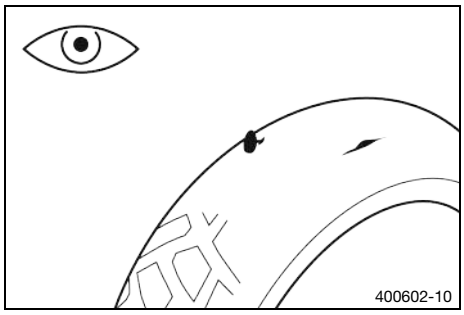
WARNING
Danger of accidents Non-approved or non-recommended tyres and wheels impact the handling characteristic.
– Only use tires and wheels approved and recommended by the vehicle manufacturer with the corresponding speed rating.

WARNING
Danger of accidents New tires have reduced road grip.
The contact surface on new tires is not yet roughened.
– Run in new tires with moderate riding and only gradually increase the lean angle.

Run-in distance	200 km (124.3 mi)

WARNING
Danger of accidents Different tire profiles on the front and rear wheels can make it more difficult to control the vehicle.
– Make sure that only tires of the same tread type are mounted to the front and rear wheel.

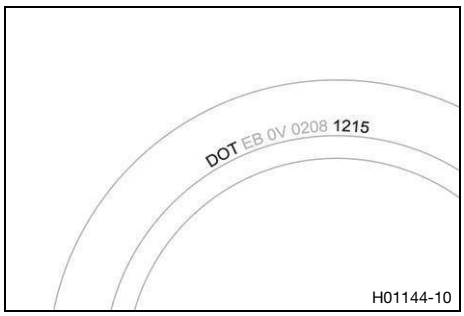
Note
The type, condition, and pressure of the tires all have a major impact on the handling of the motorcycle.
Worn tires have a negative effect on handling characteristics, especially on wet surfaces.



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

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

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



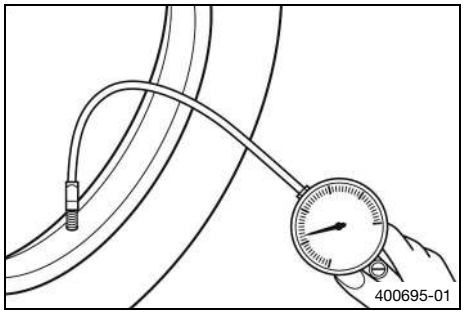
– Check the tire age.

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

» If the tires are more than five years old:
– Change the tires.

15.7 Checking the tire pressure

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



– Remove the protection cap.
– Check the tire pressure when the tires are cold.

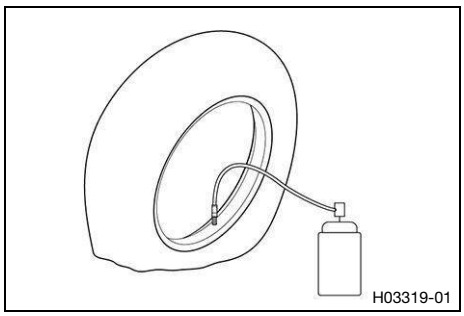
Tire pressure when solo	
front	2.0 bar (29.0 psi)
rear	2.0 bar (29.0 psi)

Tire pressure with passenger / full payload	
front	2.0 bar (29.0 psi)
rear	2.2 bar (31.9 psi)

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

15.8 Using tire repair spray

WARNING
Danger of accidents Incorrect use of tire repair spray will result in the repaired tire losing pressure.
Tire repair spray cannot be used for all types of damage.
– Observe the instructions and specifications of the manufacturer of the tire repair spray.
– After repairing a tire with tire repair spray, ride slowly and carefully.
– Ride no further than the nearest authorized dealer and have the tire replaced.



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

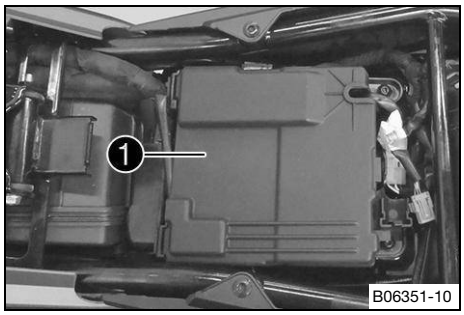
16.1 Removing the 12 V battery

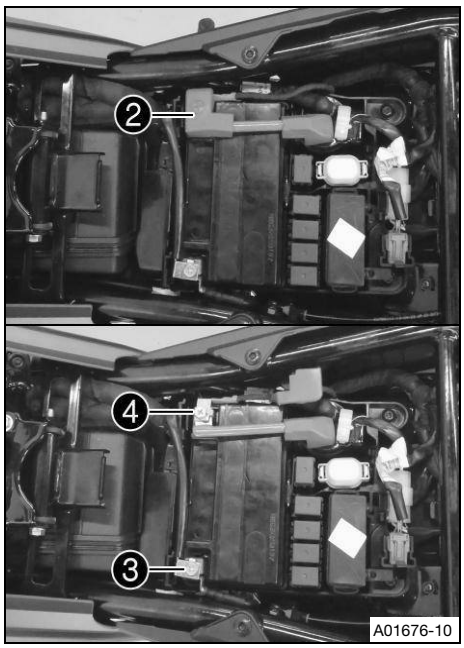
WARNING
Danger of accidents Electronic components and safety devices will be damaged if the 12-V battery is discharged or missing.
If the 12-V battery is discharged or defective, malfunctions in the vehicle electronics can occur, especially when starting.
– Never operate the vehicle with a discharged 12-V battery or without a 12-V battery.

WARNING
Risk of injury Battery acid and battery gases cause chemical burns.
– Keep 12-V batteries out of the reach of children.
– Wear suitable protective clothing and safety glasses.
– Avoid contact with battery acid and battery gases.
– Keep sparks or open flames away from the 12 V battery.
– Only charge 12 V batteries in well-ventilated rooms.
– Rinse the affected area immediately with plenty of water in the event of contact with skin.
– Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.

Preparatory work
– Remove the seat. (p. 80)

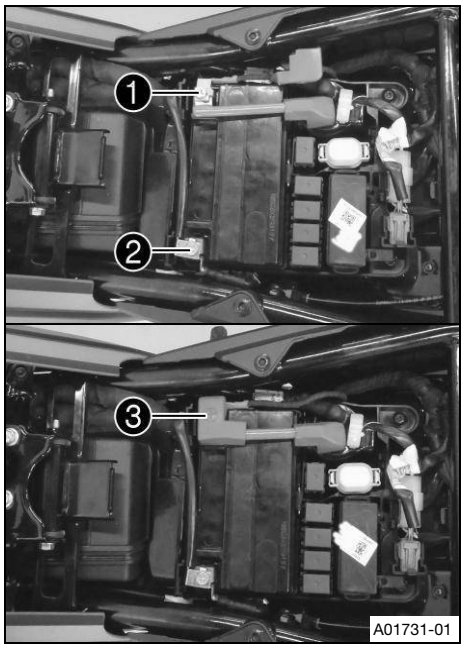
Main work
– Remove battery cover ❶ from the 12-V battery.





– Pull back positive terminal cover ❷.
– Disconnect negative cable ❸ from the 12 V battery.
– Disconnect positive cable ❹ from the 12-V battery.
– Pull the 12-V battery upwards and out of the battery compartment.

16.2 Installing the 12 V battery

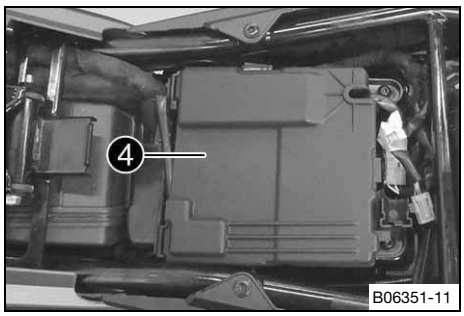


Main work

– Position the 12-V battery in the battery compartment.

12 V battery (ETZ-9-BS) (p. 153)

– Position positive cable ❶ and mount and tighten the screw.
– Position negative cable ❷ and mount and tighten the screw.
– Position positive terminal cover ❸.



– Position battery cover ❹ on the 12-V battery.

Reworking

– Mount the seat. (p. 80)
– Set the time and date. (p. 51)

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.

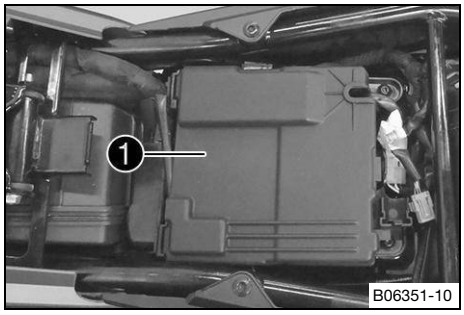
If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and sulfating occurs, destroying the battery.

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

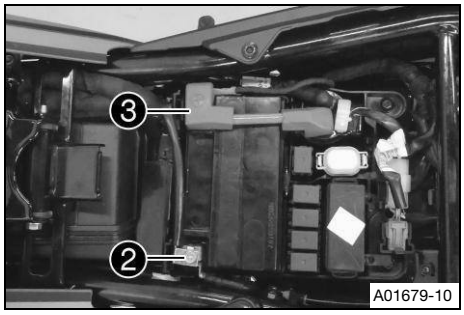
Preparatory work

– Remove the seat. (p. 80)

Main work



– Remove battery cover ❶ from the 12-V battery.



– Disconnect negative cable ❷ from the 12 V battery to avoid damaging the onboard electronics.
– Pull back positive terminal cover ❸.



– Connect a charger to the 12 V battery. Connect the battery charger to the mains connection.

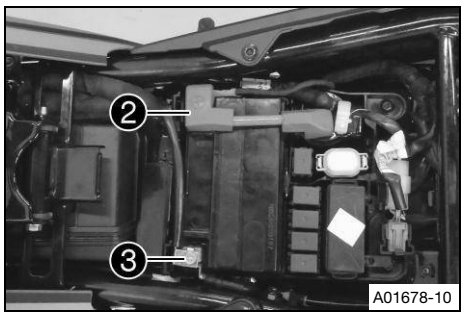
EU battery charger **TecMATE Optimate PRO** (A61029974044)
Work material (Alternative 1 / 2)
USA/CA battery charger **TecMATE Optimate PRO** (A61029974144)
Work material (Alternative 2 / 2)
Battery charger **TecMATE Optimate PRO** UK (A61029974244)

Note

It is impossible to overcharge the 12-V battery using this battery charger.

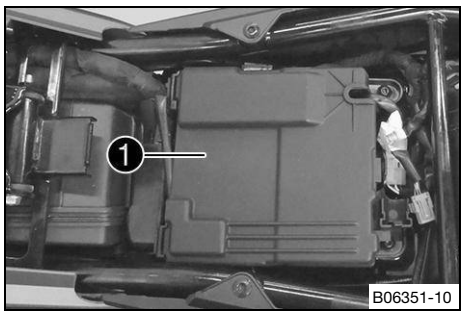
– Disconnect the battery charger from the mains connection and the 12-V battery after charging.

The charging current, charging voltage, and charging time must not be exceeded.	
Recharge the 12 V battery regularly when the motorcycle is not being used.	3 months
If the 12 V battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.	



– Position positive terminal cover ❷.
– Position negative cable ❸ and mount and tighten the screw.

Screw, battery terminal	
M6×20	4.5 Nm (3.32 ft·lb$_f$)



– Mount battery cover ❶ on 12-V battery.

Reworking

– Mount the seat. (p. 80)
– Set the time and date. (p. 51)

16.4 Changing the main fuse

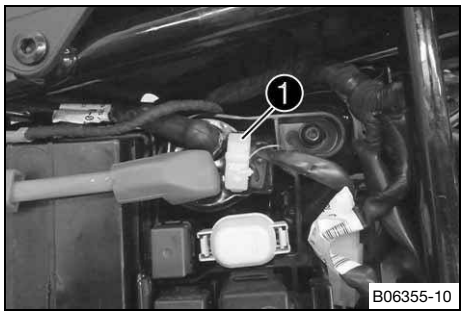
WARNING
Fire hazard Incorrect fuses overload the electrical system.
– Use only fuses with the prescribed amperage.
– Do not bypass or repair fuses.

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

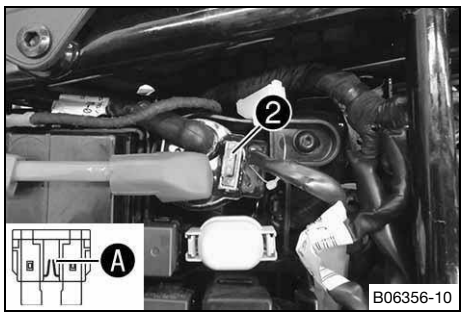
Preparatory work

– Remove the seat. (p. 80)

Main work



– Remove protection cap ❶.



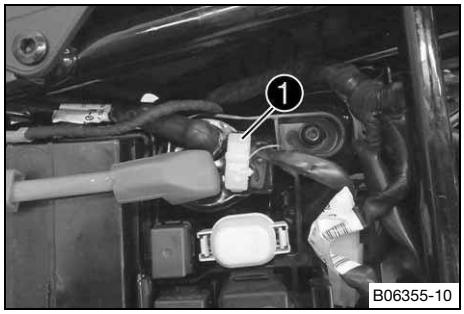
– Remove faulty main fuse ❷.

Note
A faulty fuse has a burned-out fuse wire Ⓐ.
A spare fuse is located in the fuse box.

– Insert the main fuse.

Fuse (75011088030) (p. 154)

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



– Mount protection cap ❶.

Reworking
– Mount the seat. (p. 80)
– Set the time and date. (p. 51)

16.5 Changing the ABS fuses

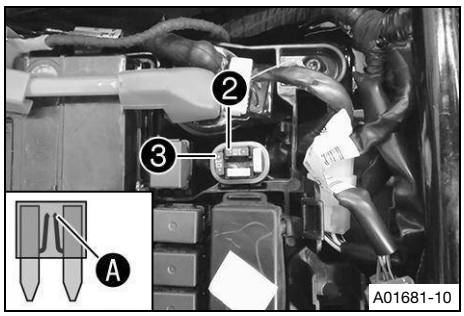
Note
Two fuses for the ABS are located under the protection cap next to the fuse box. These fuses protect the return pump and the hydraulic unit of the ABS. The third fuse, which protects the ABS control unit, is located in the fuse box.

Preparatory work
– Remove the seat. (p. 80)

Main work
– Select one of the following alternatives.

To change the fuse of the ABS hydraulic unit:
– Take off protection cap ❶.





– Remove fuse ❷.

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

WARNING
Fire hazard Incorrect fuses overload the electrical system.
– Use only fuses with the prescribed amperage.
– Do not bypass or repair fuses.

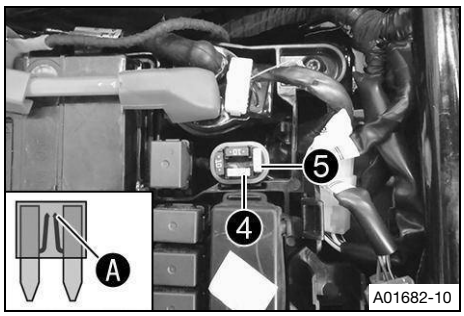
– Insert the spare fuse with the correct rating.

Fuse (75011088010) (p. 154)

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

– Mount the protection cap.

Changing the fuse of the ABS return pump



– Remove the protection cap and fuse ❹.

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

WARNING
Fire hazard Incorrect fuses overload the electrical system.
– Use only fuses with the prescribed amperage.
– Do not bypass or repair fuses.

– Insert the spare fuse with the correct rating.

Fuse (75011088015) (p. 154)

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

– Mount the protection cap.

Reworking
– Mount the seat. (p. 80)

16.6 Changing the fuses of individual electrical power consumers

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

Preparatory work

– Remove the seat. (p. 80)

Main work



– Open fuse box cover ❶.
– Remove the faulty fuse.

Fuse **1** - not assigned
Fuse **2** - 10 A - combination instrument
Fuse **3** - 10 A - main relay
Fuse **4** - 15 A - ignition coil, start auxiliary relay, horn, fuel pump
Fuse **5** - 15 A - radiator fan
Fuse **6** - 15 A - brake light, turn signal, high beam, low beam, position light, tail light, license plate lamp
Fuse **7** - 10 A - ABS control unit, combination instrument, diagnostics connector
Fuse **8** - 10 A - emergency off
Fuse **9** - 10 A - permanent positive for auxiliary equipment (ACC1 front)
Fuse **10** - 10 A - ignition positive for auxiliary equipment (ACC2 front, ACC2 rear)
Fuse **SPARE** - 10 A/15 A/30 A - spare fuses

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

WARNING
Fire hazard Incorrect fuses overload the electrical system.
– Use only fuses with the prescribed amperage.
– Do not bypass or repair fuses.

– Insert the spare fuse with the correct rating.

Fuse (75011088010) (p. 154)
Fuse (75011088015) (p. 154)
Fuse (75011088030) (p. 154)

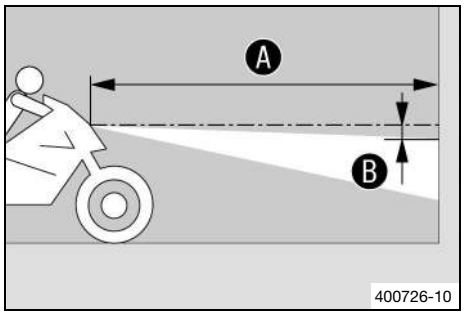
Tip
Put a spare fuse in the fuse box so that it is available if needed.

– Check the function of the electrical power consumer.
– Close the fuse box cover ❶.

Reworking

– Mount the seat. (p. 80)

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 Ⓑ under the first marking.

Distance Ⓑ	5 cm (2.0 in)

– Position the vehicle upright at distance Ⓐ from the wall and switch on the low beam.

Distance Ⓐ	5 m (16 ft – 5 in)

– The rider now mounts the motorcycle with luggage and passenger if applicable.
– 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.

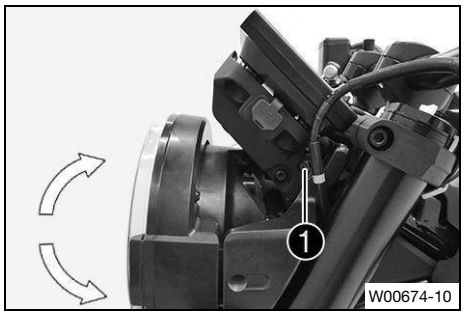
» If the boundary between light and dark does not meet specifications:
  – Adjust headlight range. (p. 113)

16.8 Adjusting the headlight range

Preparatory work

– Check the headlight adjustment. (p. 113)

Main work

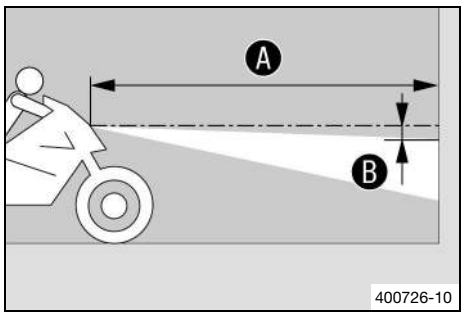


– Loosen screw ❶.
– To set the headlight range of the headlight, swivel the headlight upwards or downwards.

Note

Swiveling the headlight upwards increases the headlight range. Swiveling the headlight downwards reduces the headlight range.

If you have a payload, you may have to correct the headlight range.



– Set the headlight to marking B.

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.

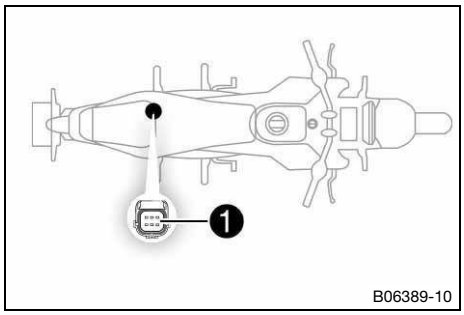
– Tighten screw 1.

Screw, headlight-range adjustment	
M6	6 Nm … 7 Nm (4.4 ft·lb$_f$ … 5.2 ft·lb$_f$)

Note

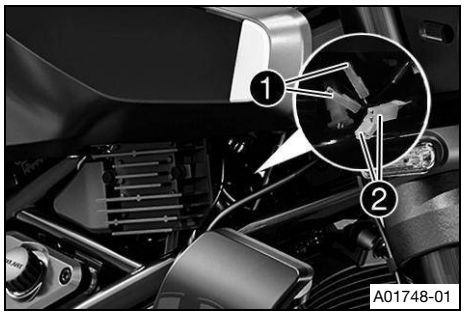
Screw 1 also secures the headlight. Make sure that screw is always tightened.

16.9 Diagnostic connector



Diagnostics connector 1 is located under the seat.

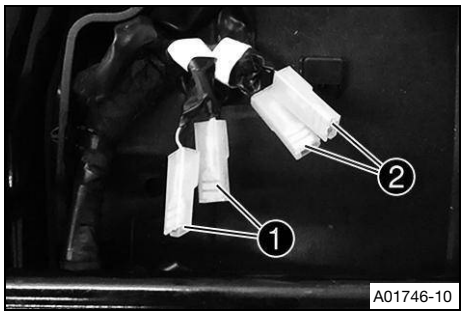
16.10 Front ACC1 and ACC2



Installation location

- Power supplies ACC1 1 and ACC2 2 front are located on the right side under the fuel tank.

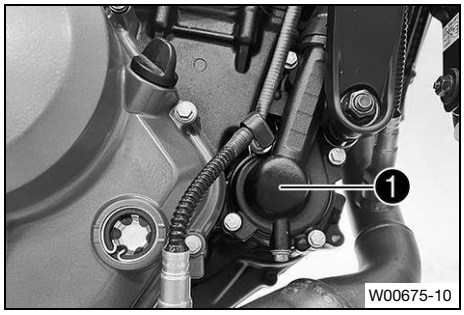
16.11 Rear ACC1 and ACC2



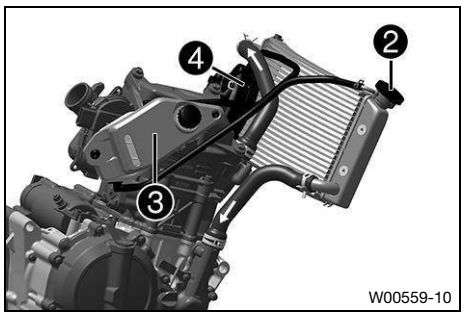
Installation location

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

17.1 Cooling system



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



The coolant is cooled by the air stream and a radiator fan ❹, which is activated at high temperature.
The lower the vehicle speed, the lower the cooling effect. Dirty cooling fins also reduce the cooling effect.

Note
If the cooling system overheats, the maximum engine speed is limited.

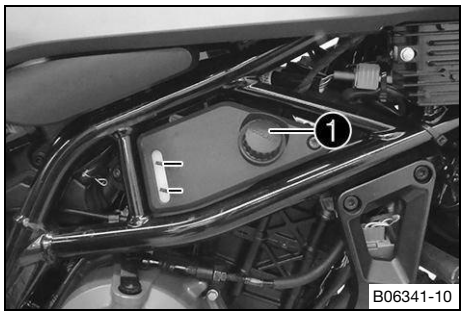
17.2 Checking the frost protection and coolant level

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

WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.
- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold

Preparatory work
- Remove the seat. (p. 80)
- Remove the right side fairing. (p. 81)



Main work

– Stand the motorcycle upright on a level surface.
– Remove cap ❶ of the compensating tank.
– Check the frost protection in the coolant.

−45 °C … −25 °C (−49.0 °F … −13.0 °F)

» If the frost protection in the coolant does not match the specified value:
– Correct the frost protection in the coolant.

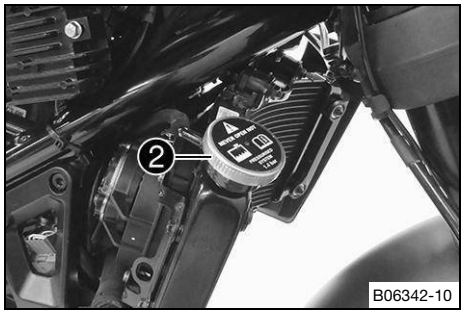
– Check the coolant level in the compensating tank.

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

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

Coolant	
Coolant 📖 (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal_{US})

– Mount the cap of the compensating tank.



– Remove radiator cap ❷.
– Check the frost protection in the coolant.

−45 °C … −25 °C (−49.0 °F … −13.0 °F)

» If the frost protection in the coolant does not match the specified value:
– Correct the frost protection in the coolant.

– Check the coolant level in the radiator.

The radiator must be filled completely.

» If the coolant level does not meet the specifications:
– Check the coolant level and the reason for the loss.

Coolant	
Coolant 📖 (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal_{US})

» If you had to add more coolant than the specified amount:
> 0.20 l
(> 0.053 liq. gal_{US})
– Fill/bleed the cooling system. 📖 (p. 118)

– Mount the radiator cap.

Reworking

– Install the right side cover. 📖 (p. 82)
– Mount the seat. 📖 (p. 80)

17.3 Checking the coolant level

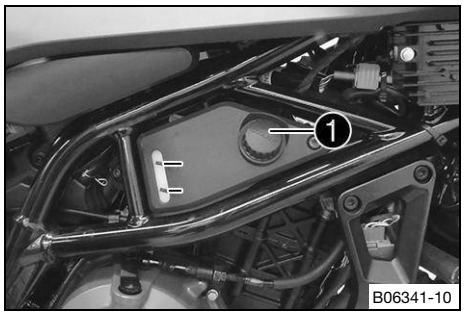
WARNING
Health hazard Coolant is harmful to health.
- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with skin, eyes, or clothing.
- Consult a doctor immediately if coolant has been ingested.
- Rinse the affected area immediately with plenty of water in the event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

WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.
- Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold

Preparatory work
- Remove the seat. (p. 80)
- Remove the right side fairing. (p. 81)

Main work

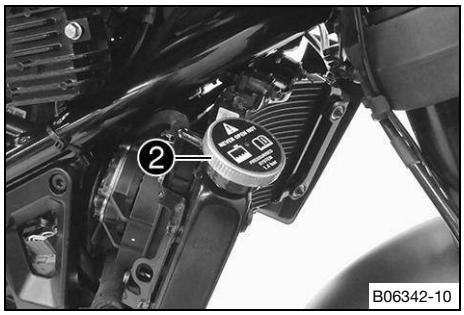


- Stand the motorcycle upright on a level surface.
- Check the coolant level in compensating tank ❶.

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

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

Coolant	
Coolant (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal_{US})



- Remove radiator cap ❷ and check the coolant level in the radiator.

The radiator must be filled completely.

  » If the coolant level does not meet the specifications:
  - Check the coolant level and the reason for the loss.

  » If you had to add more coolant than the specified amount:
  > 0.20 l
  (> 0.053 liq. gal_{US})
  - Fill/bleed the cooling system. (p. 118)

- Mount the radiator cap.

Reworking

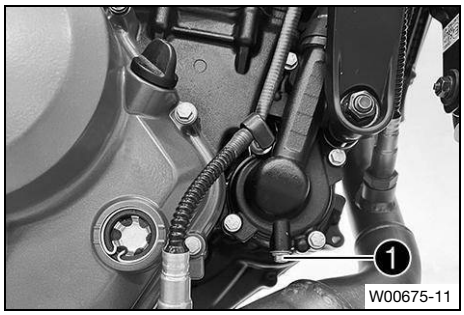
– Install the right side cover. (p. 82)
– Mount the seat. (p. 80)

17.4 Draining the coolant

WARNING
Health hazard Coolant is harmful to health.
– Keep coolant out of the reach of children.
– Do not allow coolant to come into contact with skin, eyes, or clothing.
– Consult a doctor immediately if coolant has been ingested.
– Rinse the affected area immediately with plenty of water in the event of contact with skin.
– Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
– If coolant spills on to your clothing, change the clothing.
– Store coolant properly in a suitable container and keep out of the reach of children.

WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.
– Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
– Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
– In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold



– Stand the motorcycle upright.
– Position an appropriate container under the engine.
– Remove screw 1 with the sealing ring.
– Remove the radiator cap.
– Completely drain the coolant.
– Mount screw 1 with the new sealing ring and tighten.

Screw plug, water pump drain hole	
M6	11 Nm (8.1 ft·lb$_f$)

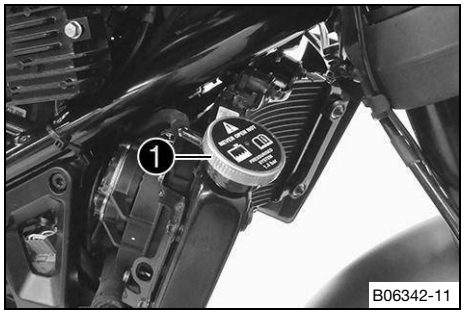
17.5 Filling/bleeding the cooling system

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.

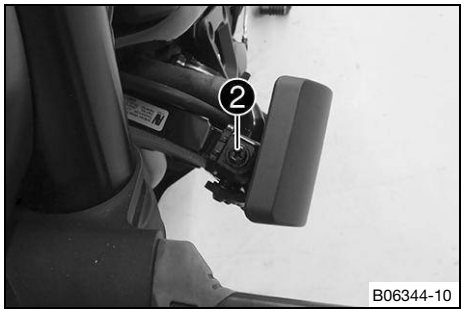
Preparatory work

– Remove the seat. (p. 80)
– Remove the right side fairing. (p. 81)

Main work



– Remove radiator cap ❶.



– Loosen bleeder screw ❷.

3 turns (1,080°)

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

Coolant	
Coolant (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal_{US})

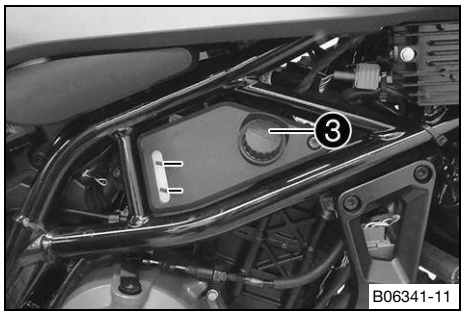
– Completely fill the radiator with coolant. Mount the radiator cap.
– Rest the vehicle on the side stand.

DANGER

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

– Always 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 allow it to warm up.
– Stop the engine and allow it to cool down.
– When the engine is cool, check the coolant level in the radiator and, if necessary, add coolant.



– Remove the cover ❸ of the compensating tank and top up the coolant level up to the **MAX** marking.
– Mount cover of the compensating tank.

Reworking

– Install the right side cover. (p. 82)
– Mount the seat. (p. 80)

17.6 Changing the coolant

WARNING
Health hazard Coolant is harmful to health.
– Keep coolant out of the reach of children.
– Do not allow coolant to come into contact with skin, eyes, or clothing.
– Consult a doctor immediately if coolant has been ingested.
– Rinse the affected area immediately with plenty of water in the event of contact with skin.
– Rinse eyes thoroughly with water and consult a doctor immediately if coolant comes into contact with eyes.
– If coolant spills on to your clothing, change the clothing.
– Store coolant properly in a suitable container and keep out of the reach of children.

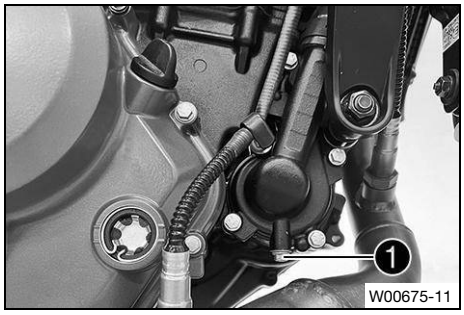
WARNING
Danger of scalding The coolant heats up and is under high pressure when the vehicle is operated.
– Do not open the radiator, the radiator hoses, or other cooling system components if the engine or the cooling system are at operating temperature.
– Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses, or other components of the cooling system.
– In the event of scalding, rinse the area affected immediately with lukewarm water.

Condition: The engine is cold

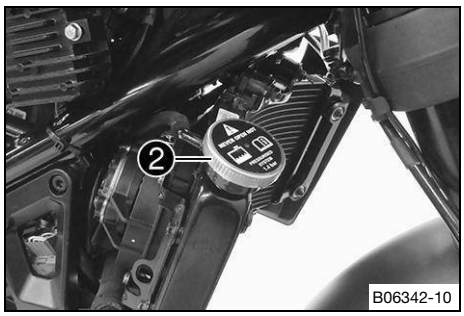
Preparatory work

– Remove the seat. (p. 80)
– Remove the right side fairing. (p. 81)

Main work

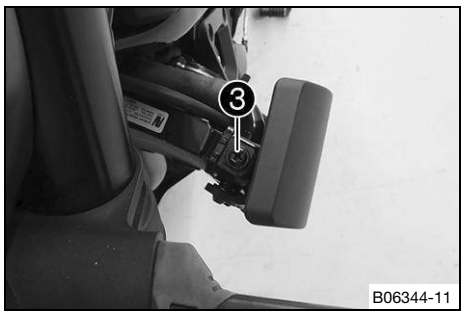


– Stand the motorcycle upright.
– Position an appropriate container under the engine.
– Remove screw 1 with the sealing ring.



– Remove radiator cap ❷.
– Completely drain the coolant.
– Mount screw ❶ with the new sealing ring and tighten.

Screw plug, water pump drain hole	
M6	11 Nm (8.1 ft·lb$_f$)



– Loosen bleeder screw ❸.

3 turns (1,080°)

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

Coolant	
Coolant 📖 (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal$_{US}$)

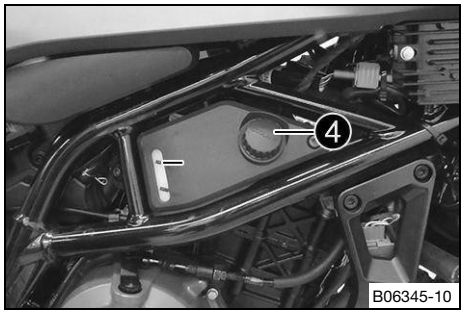
– Completely fill the radiator with coolant.
– Mount the radiator cap.
– Rest the vehicle on the side stand.

DANGER

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

– Always 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 allow it to warm up.



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

Reworking

– Install the right side cover. 📖 (p. 82)
– Mount the seat. 📖 (p. 80)

18.1 Ride Mode



I00882-10

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.

Vehicle tunings **Ride Mode** and **Street** can be selected in the combination instrument in submenu **Rain**.

The most recently selected ride mode appears on the display.

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

Condition	Meaning
Street	Homologated performance with balanced response.
Rain	Homologated performance with soft response for better rideability.

18.2 Motorcycle traction control (optional)



I00884-10

The motorcycle traction control (**MTC**) (optional) lowers the engine torque in case of loss of traction in the rear wheel. Depending on the ride mode (p. 122), 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 (optional).

Note

When the motorcycle traction control is active, the TC indicator lamp flashes.

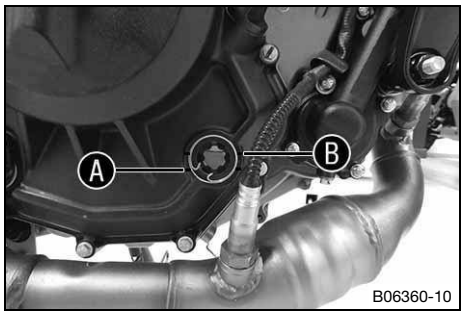
When motorcycle traction control is switched off, the TC indicator lamp lights up.

19.1 Checking the engine oil level

Condition: The engine is at operating temperature

Preparatory work

– Stand the motorcycle upright on a level surface.



Main work

– Check the engine oil level.

The engine oil must be between the Ⓐ and Ⓑ markings .
After switching off the engine, wait one minute before checking the level.

» When the engine oil level is below the Ⓐ marking:
  – Add engine oil. (p. 125)

» When the engine oil level is above the Ⓑ marking:
  – Correct the 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

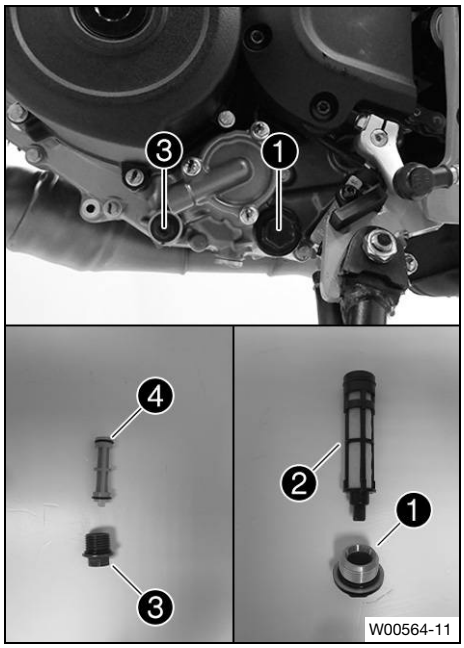
Environmental hazard Hazardous substances cause environmental damage.

– 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 front spoiler. (p. 83)
– Stand the motorcycle on a level surface using the side stand.



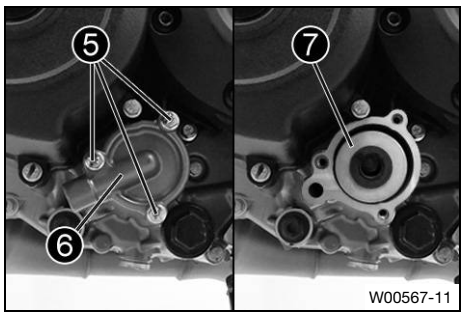
Main work

– Position an appropriate container under the engine.
– Remove oil drain plug ❶ with the O-ring.
– Remove oil screen ❷ with the O-ring.
– Remove screw plug ❸ with oil screen ❹.
– Allow the engine oil to drain completely.
– Thoroughly clean the oil drain plugs and oil screens.
– Position oil screen ❷ and mount and tighten oil drain plug ❶ with the O-ring.

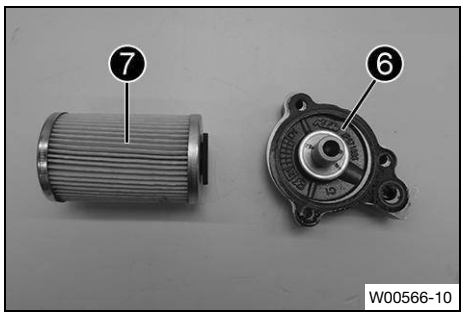
Oil screen screw plug, large	
M24×1.5	11 Nm (8.1 ft·lb$_f$)

– Mount and tighten screw plug ❸ with oil screen ❹ and the O-ring.

Oil screen screw plug, small	
M17×1.5	11 Nm (8.1 ft·lb$_f$)



– Remove screws ❺. Take off oil filter cover ❻ with the O-ring.
– Pull oil filter ❼ out of the oil filter housing.
– Allow the engine oil to drain completely.
– Thoroughly clean the parts and the sealing surface.

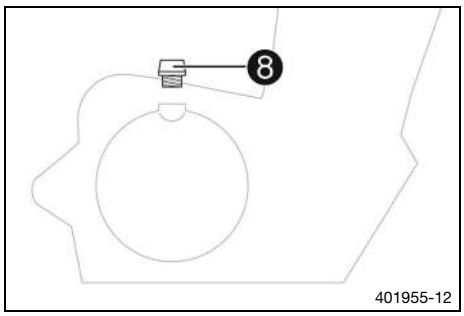


– Insert new oil filter ❼.
– Oil the O-ring of the oil filter cover. Mount oil filter cover ❻.
– Mount and tighten the screws.

Screw, oil filter cover	
M6	11 Nm (8.1 ft·lb$_f$)

Note

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



– Remove filler plug ❽ with the O-ring, and fill up with engine oil.

engine oil	
engine oil (SAE 15W/50) (p. 152) fully synthetic	1.5 l (0.40 liq. gal$_{US}$)

– Mount and tighten the oil plug together with the O-ring.

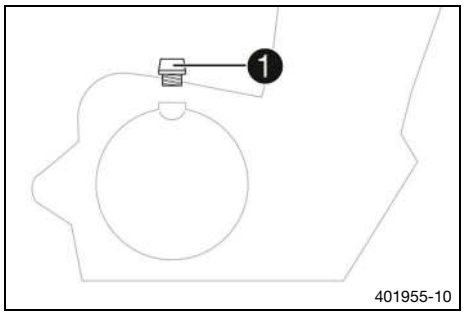
DANGER
Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.
– Always ensure that there is sufficient ventilation when running the engine.
– Use suitable exhaust extraction when starting or running the engine in an enclosed space.

– Start the engine and check it for leaks.

Reworking
– Fit the front spoiler. (p. 84)
– Check the engine oil level. (p. 123)

19.3 Adding engine oil

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



Main work
– Remove filler plug 1 with the O-ring, and fill up with engine oil.

Engine oil (SAE 15W/50) (p. 151)
Partially synthetic

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 the oil plug together with the 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. 123)

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

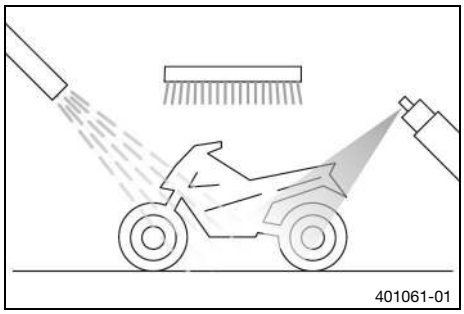
Environmental hazard Hazardous substances cause environmental damage.

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

Note

Clean the motorcycle regularly to maintain its value and appearance over a long period.

Avoid direct sunshine when cleaning the motorcycle.



– Seal the exhaust system to prevent water from entering into it.
– Remove loose dirt first with a soft jet of water.
– Spray the heavily soiled parts with a standard commercial motorcycle cleaner and clean using a brush.

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

Environmentally neutral universal cleaning agent (p. 155)

Note

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

If the vehicle was driven in road salt, clean it with cold water. Warm water 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.

– Push back the sleeves of the handlebar controls to allow any water that has penetrated to evaporate.
– After the motorcycle has cooled off, lubricate all moving parts and pivot points.
– Clean the chain. (p. 84)
– Treat bare metal (except for brake discs and the exhaust system) with an anticorrosive.

Preserving materials (p. 155)

– Treat all painted parts with a mild paint care product.

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

Shine spray with beading effect (p. 155)

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

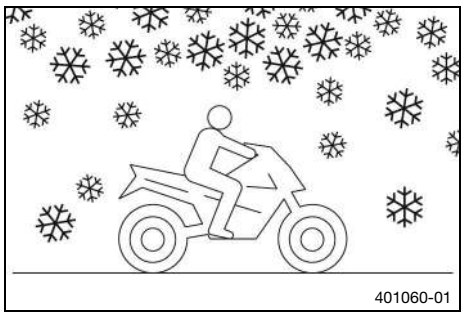
Cleaning agents for plastics, glass, lacquers, metals, windshields and visors (p. 155)

– Lubricate the ignition and steering lock.

Universal oil spray (p. 151)

20.2 Checks and maintenance steps for winter operation

Note
If you use the motorcycle in winter, you must expect salt on the roads. You should therefore take precautions against aggressive road salt.
Clean the motorcycle with cold water if it has been used on salted roads. Warm water enhances the corrosive effects of salt.


401060-01

– Clean the motorcycle. (p. 126)
– Clean the brakes.

After every trip on salted roads, thoroughly wash the brake calipers and brake pads with cold water and dry carefully. This should be done after the parts are cooled down and while they are installed.

Note
Warm water enhances the corrosive effects of salt.

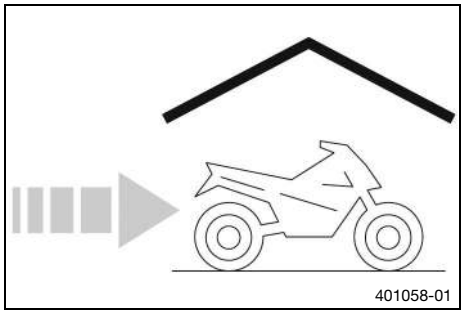
– Treat the engine, swingarm, and all other bare or zinc-plated parts (except the brake discs) with a wax-based anticorrosive.

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

– Clean the chain. (p. 84)

21.1 Storage

Note
If the vehicle will not be ridden for an extended period, additional steps are recommended.
Before storing the motorcycle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (less overload of the authorized partner). This allows you to avoid long waiting periods when the next season starts.


401058-01

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

Fuel additive (p. 150)

– Refuel. (p. 70)

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

– Clean the motorcycle. (p. 126)
– Change the engine oil and the oil filter, clean the oil screens. (p. 123)
– Check the frost protection and coolant level. (p. 115)
– Check the tire pressure. (p. 103)
– Remove the 12 V battery. (p. 105)
– Charge the 12 V battery. (p. 107)

Storage temperature of the 12 V battery without direct sunlight	0 °C … 35 °C (32.0 °F … 95.0 °F)

– Store the vehicle in a dry location that is not subject to large fluctuations in temperature. Various vehicle components such as the 12 V battery, tires, etc. must not be stored at temperatures that are too low. Observe the tire manufacturer's specifications and recommendations.

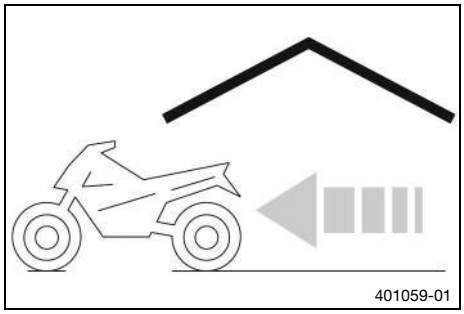
Note
Husqvarna Mobility recommends picking up the motorcycle.

– Raise the motorcycle with the rear lifting gear. (p. 77)
– Lift the motorcycle with the front lifting gear. (p. 77)

Cover the motorcycle with a tarp or cover that is permeable to air.
Do not use non-porous materials because they prevent humidity from escaping and thus cause corrosion.

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

21.2 Preparing for use after storage



- Take the motorcycle off the front lifting gear. (p. 78)
- Remove the rear of the motorcycle from the lifting gear. (p. 77)
- Install the 12 V battery. (p. 106)
- Set the time and date. (p. 51)
- Perform checks and maintenance measures when preparing for use. (p. 62)
- 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 Main fuse or fuse **3**, **4** or **7** blown No ground connection present on the starter motor	– Carry out the starting procedure. (p. 62) – Charge the 12 V battery. (p. 107) – Change the main fuse. (p. 109) – Change the fuses of individual electrical power consumers. (p. 112) – 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 the neutral position. – Shift the transmission into the neutral position.
The engine turns but does not start	Operating error Quick-lock coupling not joined Malfunction in the electronic fuel injection	– Carry out the starting procedure. (p. 62) – Join quick-lock couplings. – Read out the fault memory using the diagnostics tool.
Engine has too little power	Air filter is very dirty Fuel filter is very dirty Malfunction in the electronic fuel injection	– Change the air filter. – 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 Thermostat defective Fuse **5** blown Defect in radiator fan system	– Check the transmission and cooling system for leaks. – Check the coolant level. (p. 117) – Clean the radiator fins. – Drain the coolant. (p. 118) – Fill/bleed the cooling system. (p. 118) – Check the thermostat. – Change the fuses of individual electrical power consumers. (p. 112) – Check the radiator fan system.
The malfunction indicator light lights up yellow	Malfunction in the electronic fuel injection	– Read out the fault memory using the diagnostics tool.
The engine dies during the trip	Lack of fuel Main fuse or fuse **3**, **4** or **7** blown	– Refuel. (p. 70) – Change the main fuse. (p. 109) – Change the fuses of individual electrical power consumers. (p. 112)
ABS warning lamp lights up	ABS fuse blown Large difference in wheel speeds of the front and rear wheels Malfunction in ABS	– Change the ABS fuses. (p. 110) – Stop the vehicle, switch off the ignition, and start it again. – Read out the fault memory using the diagnostics 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. 123)

Cause	Finding	Remedy
		– Change the engine oil and the oil filter, clean the oil screens. (p. 123)
Headlight and position light are not functioning	Fuse **6** blown	– Change the fuses of individual electrical power consumers. (p. 112)
Turn signal, brake light, and horn are not functional	Fuse **4** or **6** blown	– Change the fuses of individual electrical power consumers. (p. 112)
Time is not displayed or not correctly displayed	Fuse **2** or **7** blown	– Change the fuses of individual electrical power consumers. (p. 112)
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. 107) – Check the charging voltage. – Check the open-circuit current.
The combination instrument shows nothing on the display	Fuse **2** or **7** blown	– Change the fuses of individual electrical power consumers. (p. 112)
Speedometer in combination instrument is not functioning	Speedometer wiring harness is damaged or plug-in connector is oxidized	– Check the wiring harness and plug-in connector.

23.1 Engine

23.1.1 Technical data - engine

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	398 cm³ (24.29 in³)
Stroke	64 mm (2.52 in)
Bore	89 mm (3.50 in)
Compression ratio	12.59:1
Control	DOHC, four valves controlled via cam lever, chain drive
Valve diameter, intake	36 mm (1.42 in)
Valve diameter, exhaust	29 mm (1.14 in)
Valve clearance, intake, cold	0.10 mm … 0.15 mm (0.0039 in … 0.0059 in)
Valve clearance, exhaust, cold	0.15 mm … 0.20 mm (0.0059 in … 0.0079 in)
Crankshaft bearing	Slide bearing
Big (bottom) end bearing	Slide bearing
Piston	Forged aluminum
Piston rings	1 compression ring, 1 tapered compression piston ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication
Primary transmission	33:86
Clutch	Multi-disc clutch in oil bath
Transmission	Sixth-gear manual transmission
Gear ratios	
1st gear	12:32
2nd gear	14:26
3rd gear	19:27
4th Gear	21:24
5th Gear	23:22
6th gear	25:21
Mixture formation	Electronic fuel injection
Ignition system	Fully electric ignition
Alternator	• 12 V • 230 W (0.308 hp)
Spark plug	**BOSCH VR6NEU**
Plug gap of spark plug	1 mm (0.04 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

23.1.2 Capacities - engine

engine oil	
engine oil (SAE 15W/50) (p. 152) fully synthetic	1.5 l (0.40 liq. gal_{US})
Coolant	
Coolant (p. 152) Antifreeze protection to at least: −25 °C (−13.0 °F)	1.0 l (0.26 liq. gal_{US})

23.2 Chassis

23.2.1 Technical data - chassis

Frame	Lattice frame of steel tubes, powder-coated
Fork	**WP APEX 3343**
Shock absorber	**WP APEX 3446**
Brake system	
front	Disc brake with 4 piston brake caliper
rear	Disc brake with single-pot brake caliper, floating
Suspension travel:	
front	150 mm (5.91 in)
rear	150 mm (5.91 in)
Brake discs - diameter	
front	320 mm (12.60 in)
rear	240 mm (9.45 in)
Brake disc wear limit	
front	4.5 mm (0.177 in)
rear	4.5 mm (0.177 in)
Tire pressure when solo	
front	2.0 bar (29.0 psi)
rear	2.0 bar (29.0 psi)
Tire pressure with passenger / full payload	
front	2.0 bar (29.0 psi)

rear	2.2 bar (31.9 psi)
Final drive	14:43 **Note** Modifications to the transmission ratio are not permitted and can lead to malfunctions.
Chain	5/8 x 1/4” (520) X-ring
Steering head angle	66° (1.15 rad)
Wheelbase	1,368 ±15.5 mm (53.86 ±0.610 in)
Seat Height unloaded	820 mm (32.28 in)
Weight without fuel approx.	159.37 kg (351.351 lb)
Maximum permissible front axle load	127 kg (280.0 lb)
Maximum permissible rear axle load	228 kg (502.7 lb)
Maximum permissible total weight	355 kg (782.6 lb)

23.2.2 Technical data - tires

Tire front	Rear tire
110/70 ZR 17 M/C 54W TL Michelin Power 6	150/60 ZR 17 M/C 66W TL Michelin Power 6
The tires specified represent one of the possible series production tires. For alternative manufacturers, if any, contact an authorized manufacturer or qualified tire dealership. If local road approval regulations apply, these and the respective technical specifications must be observed.	

23.2.3 Capacities - vehicle

Total fuel tank capacity, approx.	
Super unleaded (ROZ 95) (p. 150)	13 l (3.4 liq. gal_{US})
Fuel reserve, approx.	
Super unleaded (ROZ 95) (p. 150)	1.5 l (0.40 liq. gal_{US})

23.3 Electrics

23.3.1 Battery

12 V battery	ETZ-9-BS	Battery voltage: 12 V Nominal capacity: 8 Ah Maintenance-free

23.3.2 Fuses

Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	75011088020	20 A
Fuse	75011088025	25 A
Fuse	75011088030	30 A

23.3.3 Lamps

Headlight	LED
Parking light	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

Fork part number	A617C132X201102

Fork	**WP APEX 3343**
Fork length	753 mm (29.65 in)
Compression damping	
Standard	15 clicks
Rebound damping	
Standard	15 clicks
Spring rate	
Weight of rider: 75 kg … 85 kg (165.3 lb … 187.4 lb)	6.5 N/mm (37.12 lb_f/in)
Spring length with preload spacer(s)	357 mm (14.06 in)

23.4.2 Fork oil capacity

Fork oil per fork leg	
Fork oil (SAE 5) (p. 151)	420 ±5 ml (14.20 ±0.17 fl. oz_{US})

23.5 Shock absorber

23.5.1 Technical data - shock absorber

Shock absorber part number	A617C432X313102

Shock absorber	**WP APEX 3446**
Preload	
Standard	11 mm (0.43 in)
Static sag	14 mm (0.55 in)
Rider sag	58 mm (2.28 in)
Installation position	326 mm (12.83 in)
Gas assisted	16 bar (232 psi)
Spring rate	
Weight of rider: 75 kg … 85 kg (165.3 lb … 187.4 lb)	62 N/mm (354.0 lb_f/in)

23.5.2 Capacity of shock absorber oil

Shock absorber oil	
Shock absorber oil (50180751S1) (SAE 2.5) (p. 152)	Fill to the maximum mark

23.6 Tightening torque

23.6.1 Engine tightening torques

Screw, shift shaft sensor M5×0.8	6 Nm (4.4 ft·lb_f)
Oil nozzle M5×0.8	6 Nm (4.4 ft·lb_f) **Loctite® 243**
Oil spray jet, camshaft bridge M5×0.8	9 Nm (6.6 ft·lb_f) **Loctite® 243**
Screw, crankshaft position sensor M5×0.8	5.5 Nm (4.06 ft·lb_f) **Loctite® 243**
Stator screw M5×0.8	7.5 Nm (5.53 ft·lb_f) **Loctite® 243**
Screw, retaining bracket, stator cable M5×0.8	5.5 Nm (4.06 ft·lb_f) **Loctite® 243**

Screw, gear position sensor M5	5.5 Nm (4.06 ft·lb$_f$) **Loctite® 243**
Piston oil spray jet M5×0.8	5.5 Nm (4.06 ft·lb$_f$) **Loctite® 243**
Oil spray jet M5×0.8	6 Nm (4.4 ft·lb$_f$) **Loctite® 243**
Screw, oil filter cover M6	11 Nm (8.1 ft·lb$_f$)
Screw plug, water pump drain hole M6	11 Nm (8.1 ft·lb$_f$)
Nut, water pump impeller M6	8 Nm (5.9 ft·lb$_f$) **Loctite® 243**
Screw, clutch cover M6	11 Nm (8.1 ft·lb$_f$)
Screw, autodecompression mechanism M6	9 Nm (6.6 ft·lb$_f$) **Loctite® 243**
Screw, camshaft bearing bridge M6	9 Nm (6.6 ft·lb$_f$)
Screw, camshaft bearing bridge M6×35	9 Nm (6.6 ft·lb$_f$)
Screw, camshaft bearing bridge M6×40	9 Nm (6.6 ft·lb$_f$)
Screw, camshaft bearing bridge M6×45	9 Nm (6.6 ft·lb$_f$)
Screw, valve cover M6	11 Nm (8.1 ft·lb$_f$)
Screw, engine case M6×35	11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, engine case M6×70	11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, freewheel gear retaining bracket M6	11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, ignition cover M6	11 Nm (8.1 ft·lb$_f$)
Shift star screw M6	11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, engine vent plate M6	11 Nm (8.1 ft·lb$_f$)

Detent arm screw M6		11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, water pump cover M6		11 Nm (8.1 ft·lb$_f$)
Screw, release for timing chain tensioner M6		8 Nm (5.9 ft·lb$_f$)
Screw, timing chain tensioner M6		11 Nm (8.1 ft·lb$_f$)
Screw, starter motor M6		11 Nm (8.1 ft·lb$_f$)
Screw, special nozzle retaining bracket M6×1		7 Nm (5.2 ft·lb$_f$) **Loctite® 243**
Screw, timing chain tensioning rail M6×1		11 Nm (8.1 ft·lb$_f$) **Loctite® 243**
Screw, oil pump cover M6×1		11 Nm (8.1 ft·lb$_f$)
Screw, thermostat M6		11 Nm (8.1 ft·lb$_f$)
Chain shaft screw, cylinder head M6		11 Nm (8.1 ft·lb$_f$)
Bracket for ignition coil cable M6		11 Nm (8.1 ft·lb$_f$)
Screw, inlet sleeve M6		9 Nm (6.6 ft·lb$_f$) **Loctite® 243**
Stud, exhaust flange M8		21 Nm (15.5 ft·lb$_f$)
Exhaust flange nut M8		21 Nm (15.5 ft·lb$_f$)
Screw, spring thrust bearing of the shift shaft M8×1.25		21 Nm (15.5 ft·lb$_f$) **Loctite® 243**
TDC locking screw, crankshaft M8×1.25		15.5 Nm (11.43 ft·lb$_f$) **Loctite® 243**
TDC locking screw, balancer shaft M8×1.25		15.5 Nm (11.43 ft·lb$_f$) **Loctite® 243**
Screw, intermediate gear M8×1.25		21 Nm (15.5 ft·lb$_f$) **Loctite® 243**
Screw, conrod bearing M9×1 Thread oiled	1.	17.7 Nm (13.05 ft·lb$_f$)
	2.	60° (1.05 rad)

Coolant temperature sensor M10×1.5	13 Nm (9.6 ft·lb$_f$)
Screw plug, cam lever shaft M10×1	9 Nm (6.6 ft·lb$_f$) **Loctite® 243**
Screw, cylinder head M10×1.25	62 Nm (45.7 ft·lb$_f$) Thread oiled
Oil pressure sensor M10×1	9 Nm (6.6 ft·lb$_f$)
Screw, camshaft gear wheel M10×1	42 Nm (31.0 ft·lb$_f$) **Loctite® 243**
Screw, rotor M12×1.5	125 Nm (92.2 ft·lb$_f$)
Spark plug M12×1.25	16 Nm (11.8 ft·lb$_f$)
Nut, primary gear wheel/timing chain sprocket M16×1.5	150 Nm (110.6 ft·lb$_f$) **Loctite® 243**
Nut, inner clutch hub M16LH×1.5	122.5 Nm (90.35 ft·lb$_f$) **Loctite® 243**
Oil pressure regulator valve M16×1.5	39 Nm (28.8 ft·lb$_f$)
Oil screen screw plug, small M17×1.5	11 Nm (8.1 ft·lb$_f$)
Screw plug, alternator cover TDC M18×1.5	9 Nm (6.6 ft·lb$_f$)
Nut, countershaft gear M18×1.5	95 Nm (70.1 ft·lb$_f$) **Loctite® 243**
Screw plug, alternator cover M24×1.5	11 Nm (8.1 ft·lb$_f$)
Oil screen screw plug, large M24×1.5	11 Nm (8.1 ft·lb$_f$)

23.6.2 Chassis tightening torques

Exhaust clamp	21 Nm (15.5 ft·lb$_f$)
Remaining screws on chassis M4	4 Nm (3.0 ft·lb$_f$)
Screw, wheel speed sensor of front wheel M4	2 Nm (1.5 ft·lb$_f$) **Loctite® 243**

Screw, wheel speed sensor of rear wheel M4	3 Nm (2.2 ft·lb$_f$) **Loctite® 243**
Screw, fuel tank lid M5	5 Nm (3.7 ft·lb$_f$)
Remaining screws on chassis M5	5 Nm (3.7 ft·lb$_f$)
Screw, tail light M5	4 Nm (3.0 ft·lb$_f$)
Screw, fender M5×12	4 Nm … 5 Nm (3.0 ft·lb$_f$ … 3.7 ft·lb$_f$)
Screw, fender M5×20	1.5 Nm … 2 Nm (1.11 ft·lb$_f$ … 1.5 ft·lb$_f$)
Screw, headlight fixation on combination instrument M5	1.5 Nm … 2 Nm (1.11 ft·lb$_f$ … 1.5 ft·lb$_f$)
Nut, chain guard M5	7 Nm (5.2 ft·lb$_f$)
Screw, light switch M5	1.5 Nm (1.11 ft·lb$_f$)
Screw, battery compartment M5	4 Nm (3.0 ft·lb$_f$)
Screw for seat positioning M5	13 Nm (9.6 ft·lb$_f$)
Screw, turn signal bracket M5	4 Nm (3.0 ft·lb$_f$)
Screw, speedometer on speedometer holder M5	4 Nm (3.0 ft·lb$_f$)
Screw, compensating tank cap lock, rear brake M5	9 Nm (6.6 ft·lb$_f$)
Screw, fuel pump M6	9 Nm (6.6 ft·lb$_f$)
Screw, wheel speed sensor M6	9 Nm (6.6 ft·lb$_f$)
Nut, foot brake lever adjustment M6	7 Nm (5.2 ft·lb$_f$)
Screw, chain guard M6	9 Nm (6.6 ft·lb$_f$)
Screw, brake cylinder M6	7 Nm (5.2 ft·lb$_f$) **Loctite® 243**
Screw, splash protector M6	9 Nm (6.6 ft·lb$_f$)
Screw, chain slider guard M6	9 Nm (6.6 ft·lb$_f$)
Screw, fender on axle clamp M6	9 Nm … 12 Nm (6.6 ft·lb$_f$ … 8.9 ft·lb$_f$)

Screw, seat installation M6	10 Nm … 12 Nm (7.4 ft·lb$_f$ … 8.9 ft·lb$_f$)
Screw, brake reservoir, rear brake M6	7 Nm (5.2 ft·lb$_f$) **Loctite® 243**
Remaining screws on chassis M6	9 Nm (6.6 ft·lb$_f$)
Remaining nuts on chassis M6	15 Nm (11.1 ft·lb$_f$)
Fitting, ABS module retaining bracket M6	7 Nm (5.2 ft·lb$_f$)
Screw, brake line holder M6	9 Nm (6.6 ft·lb$_f$)
Screw, front sprocket cover M6	11 Nm (8.1 ft·lb$_f$)
Screw, control unit holder M6	7 Nm (5.2 ft·lb$_f$)
Screw, fuel tank fastening M6	9 Nm (6.6 ft·lb$_f$)
Screw, engine shift lever M6	11 Nm (8.1 ft·lb$_f$)
Screw, shift rod M6	9 Nm (6.6 ft·lb$_f$) **Loctite® 243**
Screw, fender on axle clamp M6	9 Nm … 12 Nm (6.6 ft·lb$_f$ … 8.9 ft·lb$_f$)
Screw, license plate holder M6	5 Nm (3.7 ft·lb$_f$)
Screw, headlight bracket on triple clamps M6	5 Nm (3.7 ft·lb$_f$)
Screw, headlight on headlight carrier M6	5 Nm (3.7 ft·lb$_f$)
Nut, radiator M6	5 Nm (3.7 ft·lb$_f$)
Nut, radiator fan M6	3 Nm (2.2 ft·lb$_f$) **Loctite® 243**
Screw, wheel speed sensor M6	9 Nm (6.6 ft·lb$_f$)
Screw, brake line guide M6	7 Nm (5.2 ft·lb$_f$)
Screw, front trim M6×15	3.8 Nm (2.80 ft·lb$_f$)
Screw, front trim M6×45	10 Nm (7.4 ft·lb$_f$)
Screw, ABS module M6	7 Nm (5.2 ft·lb$_f$)

Screw, headlight-range adjustment M6	6 Nm … 7 Nm (4.4 ft·lb$_f$ … 5.2 ft·lb$_f$)
Nut, shift rod M6	6 Nm (4.4 ft·lb$_f$)
Nut, shift rod M6LH	6 Nm (4.4 ft·lb$_f$)
Screw, front spoiler M6	9 Nm (6.6 ft·lb$_f$)
Screw, battery holding bracket M6	5 Nm (3.7 ft·lb$_f$)
Main wiring harness, bracket on frame M6	7 Nm (5.2 ft·lb$_f$)
Main wiring harness, clamp on frame M6	5 Nm (3.7 ft·lb$_f$)
Shock absorber, cover, bracket on frame M6	11 Nm (8.1 ft·lb$_f$)
Radiator bracket on engine fixing arm M6	9 Nm (6.6 ft·lb$_f$)
Screw, BCCU retaining bracket on fuel tank M6	49 Nm (36.1 ft·lb$_f$)
Nut, purge valve M6	9 Nm (6.6 ft·lb$_f$)
Screw, headlight position adjustment on headlight carrier M6	5 Nm (3.7 ft·lb$_f$)
Screw, connector support on triple clamps M6	5 Nm (3.7 ft·lb$_f$)
Screw, speedometer bracket on headlight carrier M6	5 Nm (3.7 ft·lb$_f$)
Screw, inner spoiler on outer spoiler M6	4 Nm (3.0 ft·lb$_f$)
Screw, rear spoiler on petrol tank M6	4 Nm (3.0 ft·lb$_f$)
Screw, shock absorber cover on outer spoiler M6	4 Nm (3.0 ft·lb$_f$)
Screw, air filter box cover on outer spoiler M6	4 Nm (3.0 ft·lb$_f$)
Screw, tank fairing on fuel tank M6	7 Nm (5.2 ft·lb$_f$)
Screw, spoiler on fuel tank M6	7 Nm (5.2 ft·lb$_f$)
Screw, carbon ignition lock cover on fuel tank M6	7 Nm (5.2 ft·lb$_f$)
Screw, lower rear panel on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, license plate holder on frame M6	5 Nm (3.7 ft·lb$_f$)

Screw, tail section on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, passenger seat retaining bracket M6	5 Nm (3.7 ft·lb$_f$)
Screw, fork protector on fork shoe M6	5 Nm (3.7 ft·lb$_f$)
Screw, fork protector on fork shoe M6	5 Nm (3.7 ft·lb$_f$)
Screw, fender reflector on axle clamp M6	5 Nm (3.7 ft·lb$_f$)
Screw, fork protector on fender M6	5 Nm (3.7 ft·lb$_f$)
Screw, radiator shroud on radiator M6	5 Nm (3.7 ft·lb$_f$)
Screw, frame cover M6	5 Nm (3.7 ft·lb$_f$)
Screw, radiator air intake cover on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, side fairing on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, side stand sensor M6	5 Nm (3.7 ft·lb$_f$)
Screw, seat lock M6	7 Nm (5.2 ft·lb$_f$)
Screw, shift lever bell crank M6	16 Nm (11.8 ft·lb$_f$)
Screw, splash protector M6	9 Nm (6.6 ft·lb$_f$)
Screw, handlebar weight M6	9 Nm (6.6 ft·lb$_f$)
Screw, voltage regulator M6	7 Nm (5.2 ft·lb$_f$)
Screw, 5D sensor M6	9 Nm (6.6 ft·lb$_f$)
Screw, left tail section on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, right tail section on frame M6	5 Nm (3.7 ft·lb$_f$)
Screw, front spoiler M6	7 Nm (5.2 ft·lb$_f$)
Screw, ignition lock cover M6	7 Nm (5.2 ft·lb$_f$)
Screw, bottom triple clamp M8	12 Nm (8.9 ft·lb$_f$)
Screw, top triple clamp M8	15 Nm (11.1 ft·lb$_f$)

Screw, fork shoe M8	16 Nm (11.8 ft·lb$_f$)
Screw, front brake disc M8	20 Nm (14.8 ft·lb$_f$) **Loctite® 243**
Screw, rear brake disc M8	25 Nm (18.4 ft·lb$_f$) **Loctite® 243**
Screw, front brake caliper M8	29 Nm (21.4 ft·lb$_f$) **Loctite® 243**
Nut, rear sprocket M8	35 Nm … 38 Nm (25.8 ft·lb$_f$ … 28.0 ft·lb$_f$) **Loctite® 243**
Screw, fuel tank bridge M8	18 Nm (13.3 ft·lb$_f$)
Screw, grab handle M8	21 Nm (15.5 ft·lb$_f$) **Loctite® 243**
Remaining screws on chassis M8	25 Nm (18.4 ft·lb$_f$)
Remaining nuts on chassis M8	30 Nm (22.1 ft·lb$_f$)
Screw, main silencer M8	21 Nm (15.5 ft·lb$_f$)
Screw, engine brace M8	22 Nm … 25 Nm (16.2 ft·lb$_f$ … 18.4 ft·lb$_f$) **Loctite® 243**
Screw, fuel tank fastening M8×45	25 Nm (18.4 ft·lb$_f$) **Loctite® 243**
Screw, footpeg bracket M8	21 Nm (15.5 ft·lb$_f$)
Engine holder on frame M8	26 Nm (19.2 ft·lb$_f$)
Screw, passenger footpeg M8	21 Nm (15.5 ft·lb$_f$)
Screw, handlebar clamp M8	20 Nm (14.8 ft·lb$_f$) **Loctite® 243**
Screw, horn on horn holder M8	16 Nm (11.8 ft·lb$_f$)
Screw, foot brake lever M10	25 Nm … 30 Nm (18.4 ft·lb$_f$ … 22.1 ft·lb$_f$) **Loctite® 243**
Top shock absorber screw M10	50 Nm (36.9 ft·lb$_f$) **Loctite® 2701**

Remaining screws on chassis M10	46 Nm (33.9 ft·lb$_f$)
Remaining nuts on chassis M10	50 Nm (36.9 ft·lb$_f$)
Bottom shock absorber screw M10	50 Nm (36.9 ft·lb$_f$)
Banjo bolt, brake line M10	24 Nm (17.7 ft·lb$_f$)
Screw, shift lever M10	25 Nm … 30 Nm (18.4 ft·lb$_f$ … 22.1 ft·lb$_f$) **Loctite® 243**
Fitting, engine mounting bracket M10	45 Nm … 50 Nm (33.2 ft·lb$_f$ … 36.9 ft·lb$_f$) **Loctite® 243**
Subframe screw M10	43 Nm (31.7 ft·lb$_f$) **Loctite® 243**
Turn signal nut M10	5 Nm (3.7 ft·lb$_f$)
Screw, engine on frame M10	43 Nm (31.7 ft·lb$_f$) **Loctite® 243**
Nut, engine to engine holder M10	43 Nm (31.7 ft·lb$_f$)
Mirror adapter nut M10	27 Nm (19.9 ft·lb$_f$)
Special nut, mirror M10	23 Nm (17.0 ft·lb$_f$)
Adjusting screw, wheel position M10	17 Nm (12.5 ft·lb$_f$)
Wheel position, lock nut adjusting screw M10	17 Nm (12.5 ft·lb$_f$)
Screw, handlebar mount M10	21 Nm (15.5 ft·lb$_f$)
Screw, side stand M10	32 Nm (23.6 ft·lb$_f$) **Loctite® 243**
Nut, swingarm pivot M14×1.5	100 Nm (73.8 ft·lb$_f$)
Nut, wheel spindle, rear M16	90 Nm (66.4 ft·lb$_f$)
Oxygen sensor M18	50 Nm (36.9 ft·lb$_f$)
Adjusting ring, fork bearing M22	9 Nm (6.6 ft·lb$_f$)
Screw, steering head M22	74 Nm (54.6 ft·lb$_f$)

Screw, wheel spindle, front M24		44 Nm (32.5 ft·lb$_f$)
Nut, steering head M30×1	1.	45 Nm (33.2 ft·lb$_f$)
	2.	Loosen by 2 turns
	3.	5 Nm (3.7 ft·lb$_f$)
Screw, rear trim M4,2×13		1.5 Nm (1.11 ft·lb$_f$)
Screw, combination instrument **EJOT PT®** – MK50×12		1.6 Nm (1.18 ft·lb$_f$)
Screw, headlight mask **EJOT PT®** – MK50×12		1.6 Nm (1.18 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.

JNS Instruments Ltd. hereby declares that the **320T1100** wireless system conforms with the relevant guidelines. The full text of the Declaration of Conformity is available at the following Internet address.
Certification website: https://www.husqvarna-motorcycles.com/320T1100

25.1 Sorting process



I02045-10

Further information regarding the sorting process is available at the following website.
Recycling information website: https://www.quefairedemesdechets.fr

A Technical terms

ABS	Anti-lock braking system	Safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces
ATIR	Automatic Turn Indicator Reset	Software, which automatically switches the indicator off according to a time or travel distance counter
	Easy Shift	Engine electronics function for shifting up and down without clutch operation.
MTC	Motorcycle Traction Control	Auxiliary function of the motor control that reduces engine torque with spinning rear wheel
OBD	On-board diagnosis	Vehicle system, which monitors the specified parameters of the vehicle electronics
	Ride Husqvarna	System for wireless communication with suitable cell phones and audio devices for telephony and audio.

B Fuels

Super unleaded

Standards

• ROZ 95	→ DIN EN 228

Fuel additive

Recommended supplier

MOTOREX®

- **FUEL STABILIZER**

C Operating supplies

Street chain spray

Recommended supplier

MOTOREX®
- **CHAINLUBE ROAD STRONG**

Fork oil

Recommended supplier

MOTOREX®
- **RACING FORK OIL**

Standards

- SAE 5 → SAE

Thread oiled

Universal oil spray

Recommended supplier

MOTOREX®
- **JOKER 440 SYNTHETIC**

Long-life grease

Recommended supplier

MOTOREX®
- **Bike Grease 2000**

Engine oil

Recommended supplier

MOTOREX®
- **FORMULA 4T**

Standards

→ JASO T903 MA2
- SAE 15W/50 → SAE

Properties

- Partially synthetic

engine oil

Recommended supplier	
MOTOREX®	
• V-SYNT 4T	
Standards	
→ JASO T903 MA2	
• SAE 15W/50	→ SAE
Properties	
• fully synthetic	

Shock absorber oil

Order details	
• 50180751S1	
Standards	
• SAE 2.5	→ SAE

Brake fluid DOT 5.1

Recommended supplier	
MOTOREX®	
• BRAKE FLUID DOT 5.1	
Standards	
→ DOT	

Coolant

Recommended supplier	
MOTOREX®	
• COOLANT M3.0	
Properties	
• Antifreeze protection to at least	−25 °C (−13.0 °F)

D Electrics

12 V battery (ETZ-9-BS)

Product code

- ETZ-9-BS

Properties

• Battery voltage	12 V
• Nominal capacity	8 Ah
• Maintenance-free	

Turn signal (LED)

Product code

- LED

Brake/tail light (LED)

Product code

- LED

License plate lighting (LED)

Product code

- LED

Dashboard illumination and indicator lights (LED)

Product code

- LED

Parking light (LED)

Product code

- LED

Headlight (LED)

Product code

- LED

Fuse (75011088010)

Product code

- 75011088010

Properties

- 10 A

Fuse (75011088015)

Product code

- 75011088015

Properties

- 15 A

Fuse (75011088020)

Product code

- 75011088020

Properties

- 20 A

Fuse (75011088025)

Product code

- 75011088025

Properties

- 25 A

Fuse (75011088030)

Product code

- 75011088030

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

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.

	Ice warning is active on the display.
	ABS warning light lights up yellow
	The ABS rear warning light lights up yellow
	The malfunction indicator light lights up yellow
	TC indicator lamp lights up/flashes yellow
	The speed limiter indicator lamp lights up yellow
	General warning light lights up yellow

F.1.3 Green and blue symbols

Green and blue symbols convey information.

	The turn signal indicator light flashes green with a steady blinking interval
	The high beam indicator lamp lights up blue
	The speed limiter indicator lamp lights up green
	The idle indicator lamp lights up green

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Husqvarna Mobility GmbH
Stallhofnerstraße 3 | 5230 Mattighofen