

PIONEERING SINCE 1903

OWNER'S MANUAL 2018

VITPILEN 701

Art. no. 3402211en



Husqvarna
MOTORCYCLES

DEAR HUSQVARNA MOTORCYCLES CUSTOMER

Congratulations on your decision to purchase a Husqvarna motorcycle. You are now the owner of a state-of-the-art sports motorcycle that will give you enormous pleasure if you service and maintain it properly.

We hope you enjoy riding this motorcycle!

Enter the serial numbers of your vehicle below.

Chassis number (☞ p. 32)	Dealer's stamp
Engine number (☞ p. 34)	
Key number (☞ p. 33)	

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

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3402211en

03/2018

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This document is valid for the following models:

VITPILEN 701 US (F2675R4)

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1.1 Symbols used

The meaning of specific symbols is described below.



Indicates an expected reaction (e.g. of a work step or a function).



Indicates an unexpected reaction (e.g. of a work step or a function).



All work marked with this symbol requires specialist knowledge and technical understanding. In the interests of your own safety, have these jobs performed by an authorized Husqvarna Motorcycles workshop. There, your motorcycle will be optimally cared for by specially trained experts using the specialist tools required.



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



Indicates information with more details or tips.



Indicates the result of a testing step.

V

Indicates a voltage measurement.

A

Indicates a current measurement.



Indicates the end of an activity, including potential rework.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name Indicates a proprietary name.

Name® Indicates a protected name.

Brand™ Indicates a brand available on the open market.

Underlined terms Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary.

2.1 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.



Info

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

2.2 Misuse

The vehicle must only be used as intended.

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

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

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

2.3 Safety advice

A number of safety instructions need to be followed to operate the product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.

2 SAFETY ADVICE



Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 Degrees of risk and symbols



Danger

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



Warning

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



Caution

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

Note

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

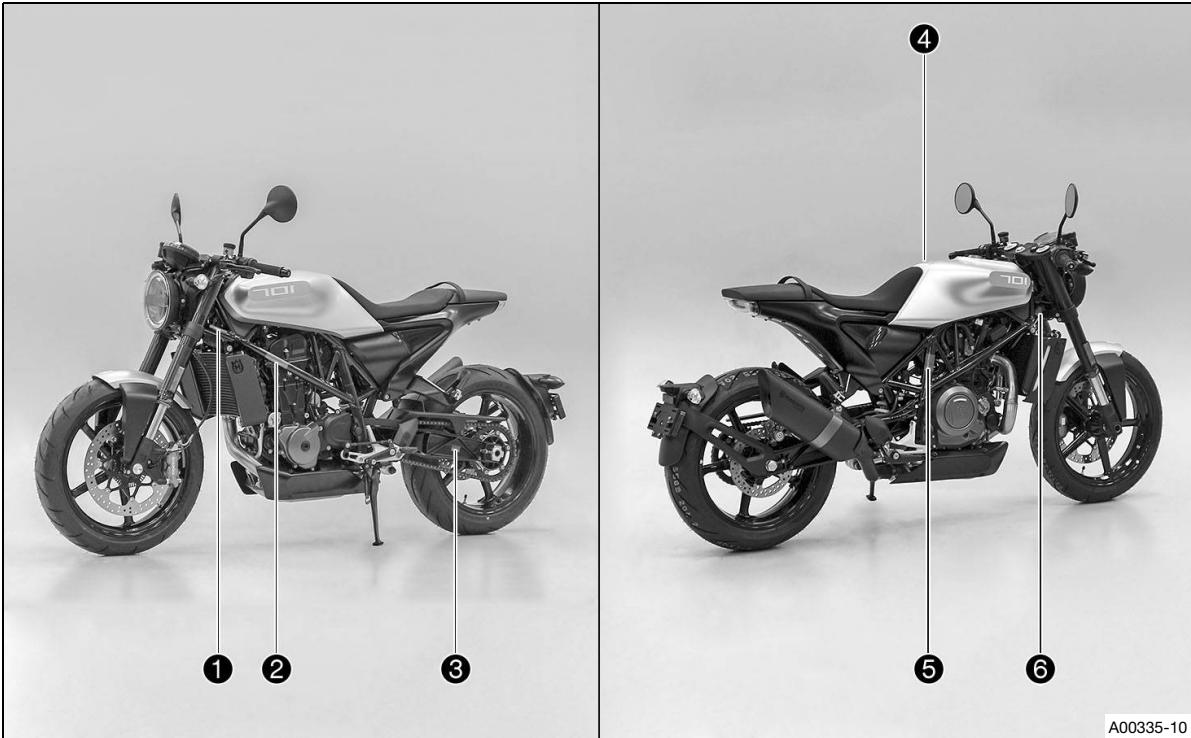


Note

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

2 SAFETY ADVICE

2.5 Overview of labels



A00335-10

- 1 Type label, Canada
- 2 Information, noise emission
- 3 Information, chain tension
- 4 Information, putting into operation
- 5 Information, emission control
- 6 Type label, USA

MANUFACTURED BY/FABRIQUÉ PAR: KTM AG			
GVWR/PNBV: 350 KG DATE: xxxx			
V.I.N./N.I.V.: VBKxxxxxxxxMxxxxxx			
TYPE: MC			
GAWR/PNBE	TIRE/PNEU-DIMENSION-RIM/JANTE	COLD INFL. PRESS.	
		PSI/LPC	KPA
1st 150 KG	120/70 ZR 17	3.50 x 17	33 230
2nd 200 KG	160/60 ZR17	5.00 x 17	36 250
THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE - CE VÉHICULE EST CONFORME À TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU RÈGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION			
A00321-10			

Type label, Canada

2 SAFETY ADVICE

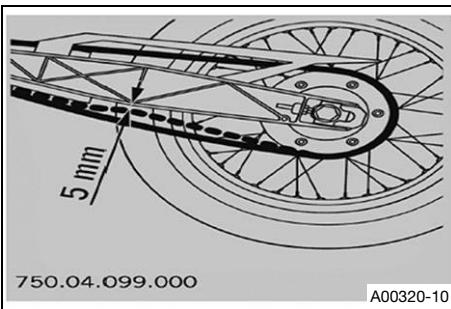
MOTORCYCLE NOISE EMISSION CONTROL INFORMATION
KTM AG, AUSTRIA

THIS 2018 HQV7680693 MOTORCYCLE, 210.05.083.000 MEETS
EPA NOISE EMISSION REQUIREMENTS OF 80 dBA AT 4400 RPM BY THE
FEDERAL TEST PROCEDURE. MODIFICATIONS WHICH CAUSE THIS
MOTORCYCLE TO EXCEED FEDERAL NOISE STANDARDS ARE
PROHIBITED BY U.S. FEDERAL LAW. SEE OWNER'S MANUAL.

Motorcycle Type : Vitpilen 701

A00319-10

Information, noise emission



Information, chain tension

Information, putting into operation

ACHTUNG

Lesen Sie vor der ersten Inbetriebnahme des Fahrzeugs die gesamte Bedienungsanleitung aufmerksam durch!

IMPORTANT

Please read the entire owner's manual carefully before putting the vehicle into operation for the first time.

ATTENZIONE

Prima della messa in funzione iniziale del veicolo, leggere con attenzione l'intero manuale d'uso!

ATTENTION

Lire attentivement l'ensemble du manuel d'utilisation avant de mettre le véhicule en service!

ATENCIÓN

Lea completa y atentamente el manual de instrucciones antes de poner en servicio por primera vez el vehículo!

A00318-10

Information, emission control

VEHICLE EMISSION CONTROL INFORMATION	
 Husqvarna	MANUFACTURER: KTM AG, Mattighofen, Austria
	IMPORTER: KTM NORTH AMERICA, INC.
ENGINE DISPLACEMENT:	693 cc
ENGINE FAMILY:	JX-TEC 693 6V/VT
EVAPORATIVE FAMILY:	JX-TOX20016V/VT
PERMEATION FAMILY:	JX-TPXP104837
IGNITION TIMING:	NON ADJUSTABLE
IDLE SPEED:	1650 +/- 100 RPM IN NEUTRAL
IDLE MIXTURE:	NON ADJUSTABLE
VALVE CLEARANCE:	0.10 - 0.15 mm INTAKE 0.20 - 0.25 mm EXHAUST
SPARK PLUG:	NGK central LKAR9B-10, outer LMAR7D-10
SPARK PLUG GAP:	1.0 mm
FUEL:	UNLEADED GASOLINE ONLY - 91 (R+M)/2 OCTANE OR HIGHER
OIL:	SAE 10 W 50

A00315-10

2 SAFETY ADVICE

MFD. BY KTM AG AUSTRIA			DATE xxxx
MOTORCYCLE			
GVWR	771 lbs	350 kg	
GAWR FRONT	331 lbs	150 kg WITH 120/70 ZR 17 TIRE,	58W TYPE,
	3.50x17 RIM, AT	33 psi 2.3 bar COLD	
GAWR REAR	441 lbs	200 kg WITH 160/60 ZR17 TIRE,	69W TYPE,
	5.00x17 RIM, AT	36 psi 2.5 bar COLD	
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.			
VBKxxxxxxxxMxxxxxx			
A00317-10			

Type label, USA

2.6 Reporting safety defects

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

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

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

2.7 Noise emission warranty

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

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

Warranty claims should be directed to:

Husqvarna Motorcycles North America, Inc., c/o KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001, USA

Phone: (440) 985-3553

www.husqvarna-motorcycles.com

Husqvarna Motorcycles North America, 1375-3 Marie-Victorin, Saint-Bruno, QC J3V-6B7, Canada

Phone: (450) 441-4451 x 4250

www.husqvarna-motorcycles.com

2.8 Operating noise warning

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

2.9 Consumer rights

Warranty claims should be submitted to a Husqvarna Motorcycles workshop. If you are not satisfied, please contact:

Husqvarna Motorcycles North America, Inc., c/o KTM North America, Inc., Customer Support, 1119 Milan Ave., Amherst, OH 44001, USA

Phone: (440) 985-3553

2 SAFETY ADVICE

www.husqvarna-motorcycles.com

Husqvarna Motorcycles North America, 1375-3 Marie-Victorin, Saint-Bruno, QC J3V-6B7, Canada

Phone: (450) 441-4451 x 4250

www.husqvarna-motorcycles.com

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

2.10 Tampering warning

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

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

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

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

2.11 Safe operation



Danger

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

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



Danger

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

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



Warning

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

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

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

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

2 SAFETY ADVICE

Have malfunctions that impair safety immediately eliminated by an authorized Husqvarna Motorcycles workshop.

Adhere to the information and warning labels on the vehicle.

2.12 Protective clothing



Warning

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

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

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

2.13 Work rules

Special tools are necessary for certain tasks. The tools are not a component of the vehicle, but can be ordered using the number in parentheses. Example: bearing puller (15112017000)

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

In the case of certain screws, a thread locker (e.g. **Loctite®**) is required. Apply according to the manufacturer's instructions.

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

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

2.14 Environment

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

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

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

2.15 Owner's Manual

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

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

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

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

The Owner's Manual is also available for download from your authorized Husqvarna Motorcycles dealer and on the Husqvarna Motorcycles website.

International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com

3 IMPORTANT NOTES

3.1 Manufacturer and implied warranty

The work prescribed in the service schedule must be carried out by an authorized Husqvarna Motorcycles workshop only and confirmed both in the customer's Service & Warranty Booklet and in the **Husqvarna Motorcycles Dealer.net**; 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 warranty.

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

3.2 Operating and auxiliary substances



Note

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

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

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

3.3 Spare parts, accessories

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

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

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

International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the Owner's Manual. Incorrect adjustment and tuning of the engine and chassis can lead to damage and breakage of components.

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

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

3.5 Figures

The figures contained in the manual may depict special equipment.

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

3.6 Customer service

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

3 IMPORTANT NOTES

A list of authorized Husqvarna Motorcycles dealers can be found on the Husqvarna Motorcycles website.
International Husqvarna Motorcycles website: www.husqvarna-motorcycles.com

4 VIEW OF VEHICLE

4.1 View of vehicle, front left

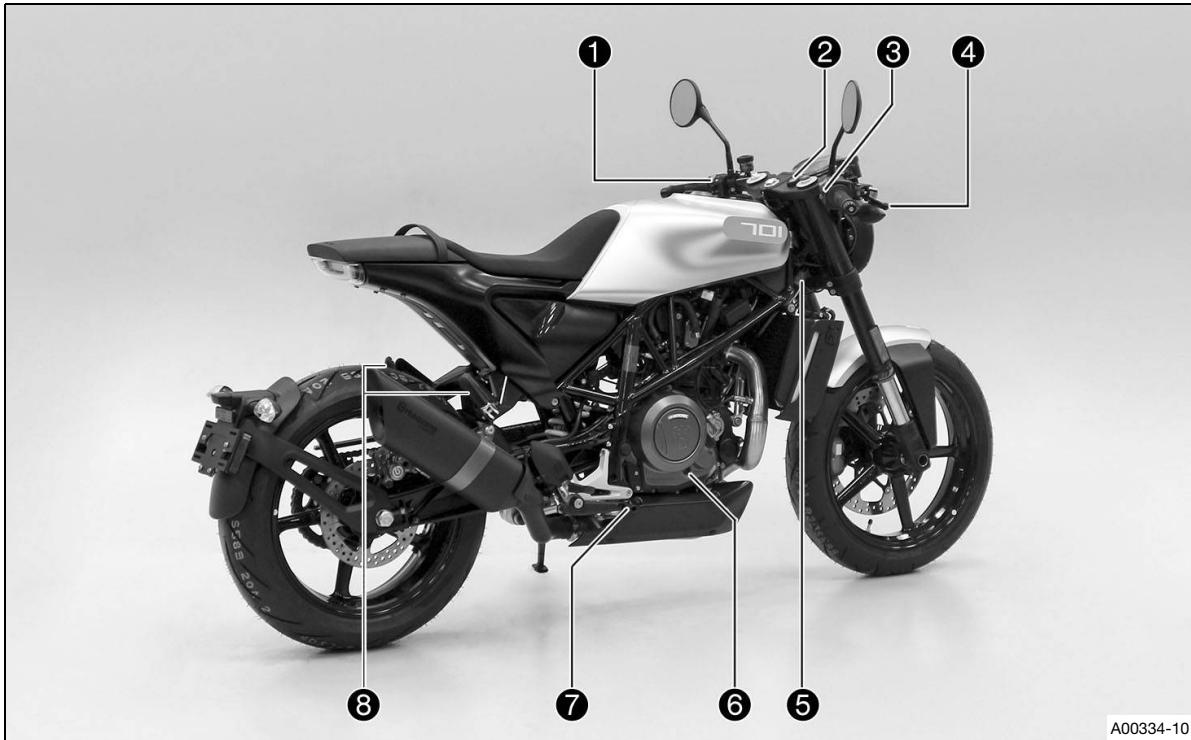


A00333-10

- 1** Clutch lever (☞ p. 36)
- 2** Seat
- 3** Supporting strap (☞ p. 45)
- 4** Passenger seat
- 5** Seat lock (☞ p. 44)
- 6** Side stand (☞ p. 47)
- 7** Shift lever (☞ p. 45)

4 VIEW OF VEHICLE

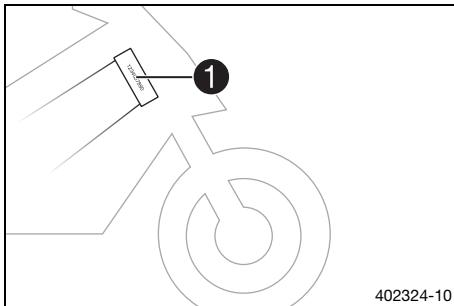
4.2 View of vehicle, rear right side



- 1** Light switch (☞ p. 38)
- 1** Turn signal switch (☞ p. 39)
- 1** Horn button (☞ p. 40)
- 2** Ignition/steering lock (☞ p. 37)
- 3** Emergency OFF switch (☞ p. 40)
- 3** Electric starter button (☞ p. 41)
- 4** Hand brake lever (☞ p. 36)
- 5** Type label (☞ p. 32)
- 6** Engine oil level viewer
- 7** Foot brake lever (☞ p. 46)
- 8** Passenger foot pegs (☞ p. 44)

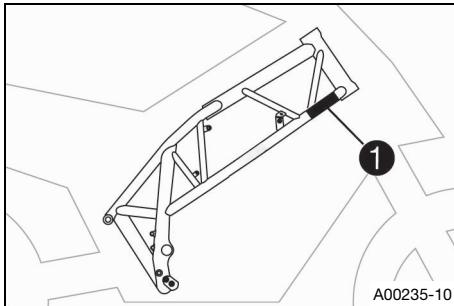
5 SERIAL NUMBERS

5.1 Chassis number

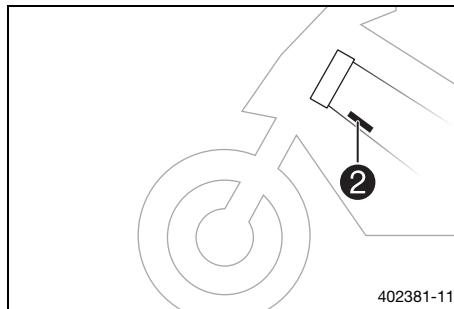


The chassis number **1** is stamped on the right side of the steering head.

5.2 Type label

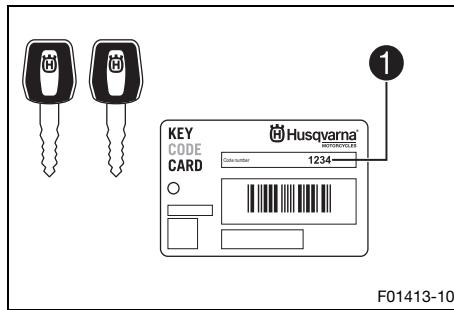


The type label USA **1** is located on the right side of the frame.



The type label Canada 2 is located on the left side of the frame.

5.3 Key number



The key number 1 can be found on the **KEYCODECARD**.

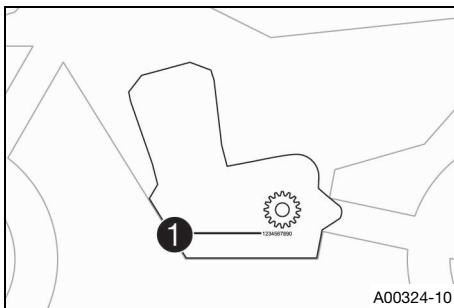


Info

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

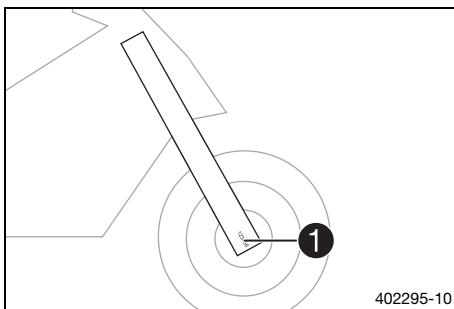
5 SERIAL NUMBERS

5.4 Engine number



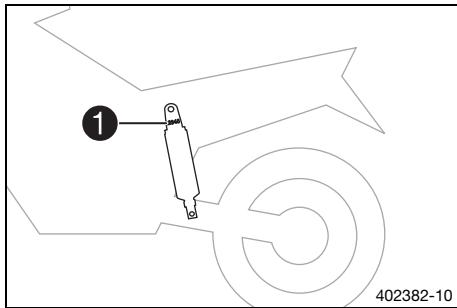
The engine number 1 is located on the left side of the engine under the engine sprocket.

5.5 Fork part number



The fork part number 1 is stamped on the inner side of the fork stub.

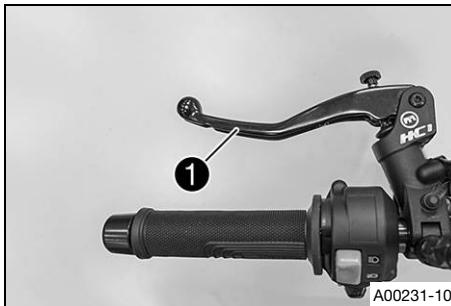
5.6 Shock absorber article number



Shock absorber article number **1** is on the left side of the shock absorber.

6 CONTROLS

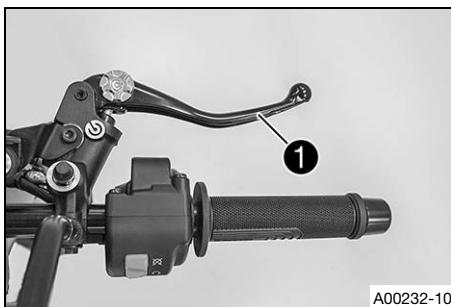
6.1 Clutch lever



The clutch lever 1 is fitted on the left side of the handlebar.
The clutch is hydraulically operated and self-adjusting.

A00231-10

6.2 Hand brake lever



The hand brake lever 1 is fitted on the right side of the handlebar.

The front brake is engaged using the hand brake lever.

A00232-10

6.3 Throttle grip



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

6.4 Ignition/steering lock



The ignition/steering lock is located on the upper triple clamp.

Possible states

	Ignition off – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start. The ignition key can be removed.
	Ignition on – In this position, the ignition circuit is closed and the engine can be started.



Steering locked – In this position, the ignition circuit is interrupted and the steering locked. The ignition key can be removed.

6.5 Switches on the left side of the handlebar

6.5.1 Light switch



Light switch ① is fitted on the left side of the handlebar.

Possible states

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

6.5.2 Turn signal switch



The turn signal switch ① is fitted on the left side of the handlebar.

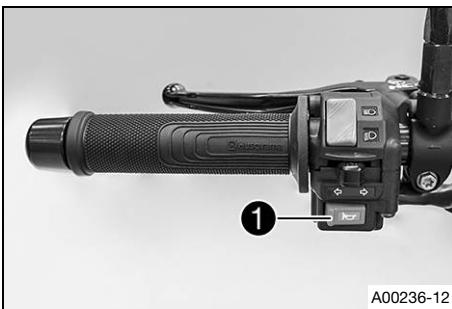
Possible states

	Turn signal off
	Left turn signal on – Turn signal switch pressed to the left. The turn signal switch returns to the center position after activation.
	Right turn signal on – Turn signal switch pressed to the right. The turn signal switch returns to the center position after activation.

To switch off the turn signal, press the turn signal switch towards the switch housing.

6 CONTROLS

6.5.3 Horn button



The horn button 1 is fitted on the left side of the handlebar.

Possible states

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

6.6 Switches on the right side of the handlebar

6.6.1 Emergency OFF switch



The emergency OFF switch 1 is fitted on the right side of the handlebar.

Possible states

	Emergency OFF switch off – In this position, the ignition circuit is interrupted, a running engine stops, and the engine cannot be started.
	Emergency OFF switch on – This position is necessary for operation as the ignition circuit is closed.

6.6.2 Electric starter button



The electric starter button 1 is fitted on the right side of the handlebar.

Possible states

- Electric starter button 1 in basic position
- Electric starter button 1 pressed – In this position, the electric starter is actuated.

6.7 Opening the filler cap



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

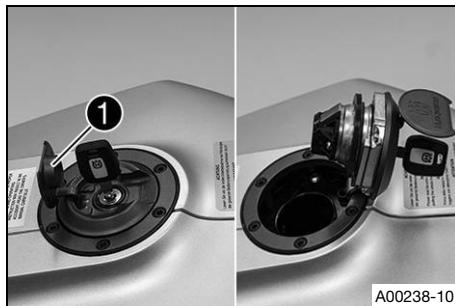
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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



Note

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

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



- Lift cover ① of the filler cap and insert the ignition key in the lock.

Note

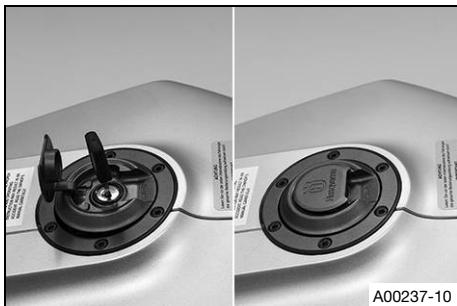
Danger of damage The ignition key may break if over-loaded.

Damaged ignition keys must be replaced.

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

- Open the filler cap.

6.8 Closing the filler cap



- Fold down the cover on the filler cap.
- Fold down the filler cap.
- Turn the ignition key 90° clockwise.
- Push down the filler cap and turn the ignition key counter-clockwise until the lock closes.



Warning

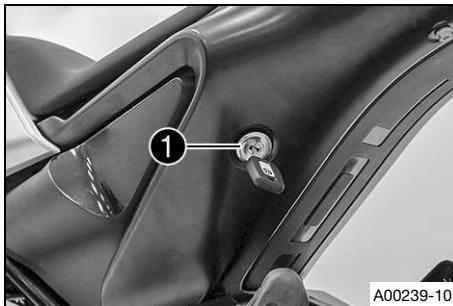
Fire hazard Fuel is highly flammable, toxic and a health hazard.

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

- Remove the ignition key and close the cover.

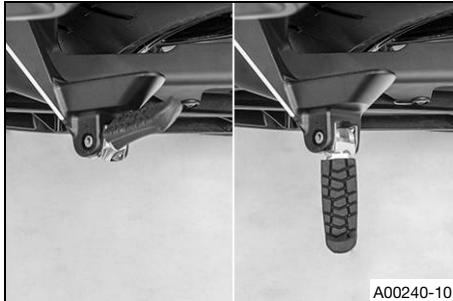
6 CONTROLS

6.9 Seat lock



The seat lock 1 is located on the left side of the vehicle.
It can be locked with the ignition key.

6.10 Passenger foot pegs

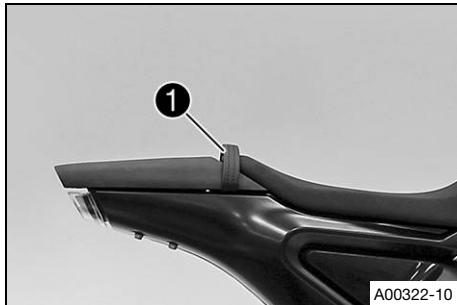


The passenger foot pegs can be folded up and down.

Possible states

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

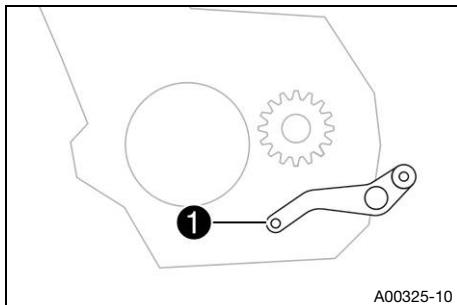
6.11 Supporting strap



The supporting strap **1** is used for maneuvering the motorcycle.

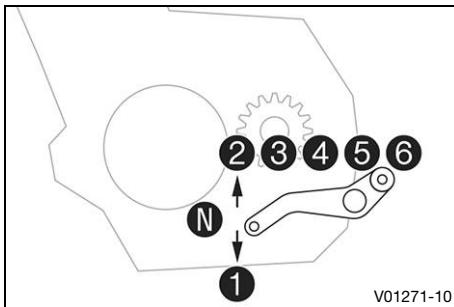
If you carry a passenger, the passenger can hold onto the grab handles during the trip.

6.12 Shift lever



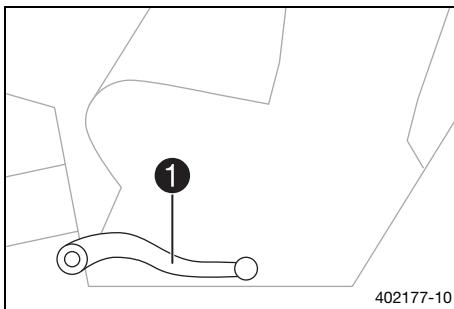
The shift lever **1** is mounted on the left side of the engine.

6 CONTROLS



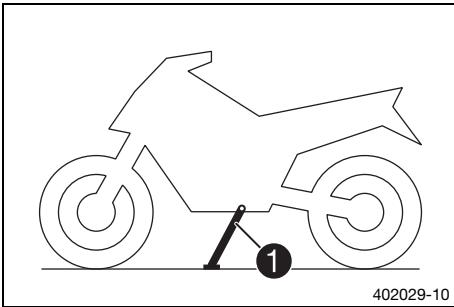
The gear positions can be seen in the photograph.
The neutral or idle position is between the first and second gears.

6.13 Foot brake lever



Foot brake lever 1 is located in front of the right footrest.
The rear brake is engaged with the foot brake lever.

6.14 Side stand



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



Info

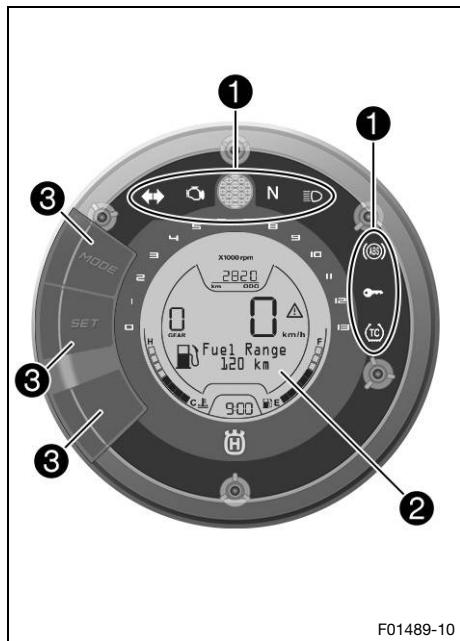
The side stand must be folded up during motorcycle use.
The side stand is coupled with the safety starting system;
follow the riding instructions.

Possible states

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

7 COMBINATION INSTRUMENT

7.1 Combination instrument



The combination instrument is attached in front of the handlebar.

- ① Indicator lamps (p. 55)
- ② Display (p. 59)
- ③ Function buttons (p. 62)

7.2 Activation and test



Activation

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



Info

The brightness of the displays is controlled by a brightness sensor in the combination instrument.

Test

When the ignition is switched on, all indicator lamps light up briefly except for the turn signal indicator lamp and immobilizer indicator lamp.

The segments of the tachometer and the gear display light up and switch off in sequence.

The speedometer counts from 0 to 299 and back.

The remaining display segments of the display light up briefly.

The **PIONEERING SINCE 1903** logo appears on the display.

The display then changes to the last selected mode.



Info

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

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

7.3 Warning notes

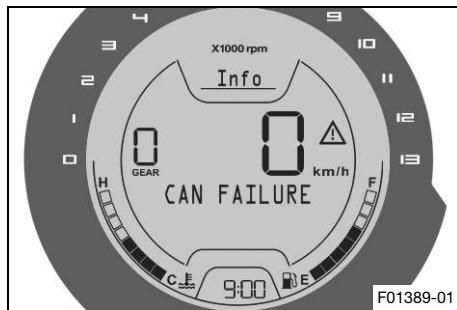


Info

All existing warning notes are displayed on the **Info** display until these are no longer active.

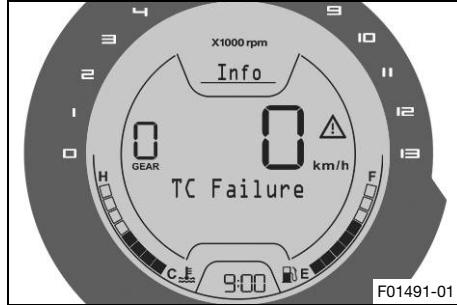
As soon as an error occurs, the relevant indicator lamps light up to signal that an indication/warning note for the operating safety has been detected.

As soon as several warnings have been detected, the general warning symbol flashes additionally on the display.



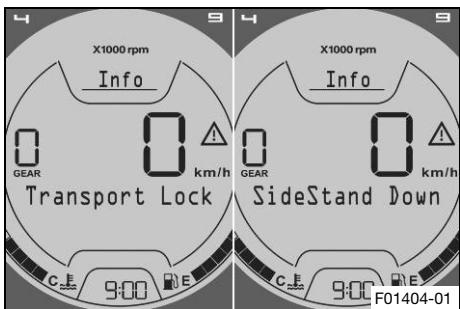
If an error has occurred in the CAN bus, various warning notes appear on the display:

CAN FAILURE, CAN ABS FAILURE, CAN EMS FAILURE and **CAN HLU FAILURE** can occur.



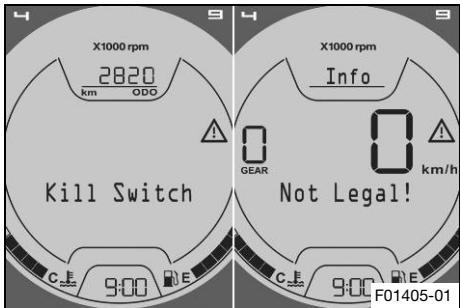
TC Failure appears on the display if the motorcycle traction control is faulty.

7 COMBINATION INSTRUMENT



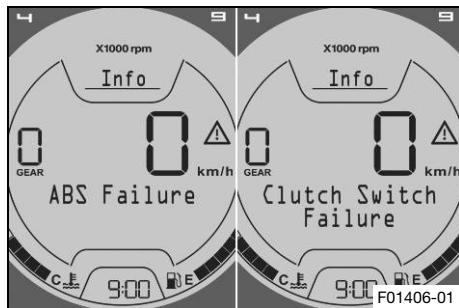
Transport Lock appears on the display if transport mode is activated.

SideStand Down appears on the display if the side stand is folded down.



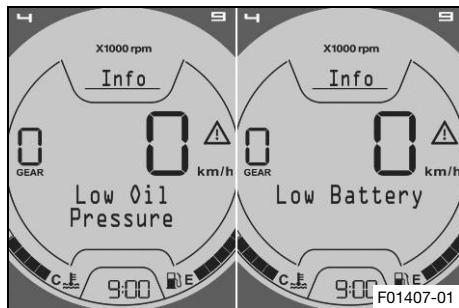
Kill Switch appears on the display if the emergency off switch is pressed.

Not Legal! appears on the display if the approval for road use is invalidated by modifications.



ABS Failure appears on the display if the ABS is no longer active.

Clutch Switch Failure appears on the display if the clutch switch is faulty.

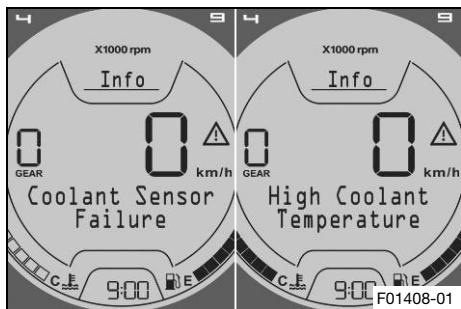


Low Oil Pressure appears on the display if the oil pressure is too low.

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

Battery voltage	$\leq 10.5 \text{ V}$
-----------------	-----------------------

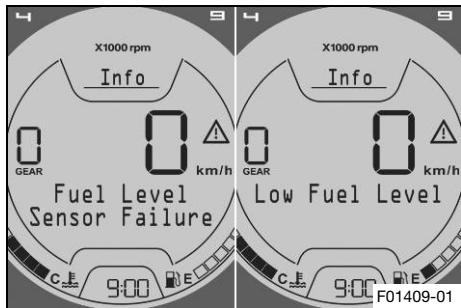
7 COMBINATION INSTRUMENT



Coolant Sensor Failure appears on the display if the coolant temperature sensor is faulty.

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

Coolant temperature > 115 °C (> 239 °F)



Fuel Level Sensor Failure appears on the display if the fuel level indicator is faulty.

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

7.4 Indicator lamps



F01492-01

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 turn signal indicator lamp and immobilizer indicator lamp.

As soon as several warnings have been detected, the general warning symbol flashes additionally on the display.



Info

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

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

Possible states

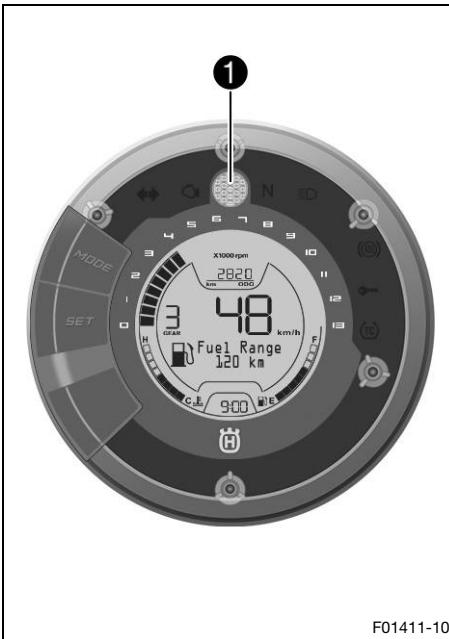


The turn signal indicator lamp flashes green simultaneously with the turn signal – The turn signal is switched on.

7 COMBINATION INSTRUMENT

	Malfunction indicator lamp lights up yellow – The <u>OBD</u> has detected an error in the vehicle electronics. Come safely to a halt, and contact an authorized Husqvarna Motorcycles workshop.
	The shift warning lights up/flashes red – The shift warning light flashes red when the set shift speed RPM1 is reached. The shift warning light lights up red when the set shift speed RPM2 is reached.
	The idle indicator lamp lights up green – The transmission is in idle.
	The high beam indicator lamp lights up blue – The high beam is switched on.
	ABS warning lamp lights up yellow – Status or error messages relating to <u>ABS</u> .
	The immobilizer indicator lamp lights up red – Status or error message for immobilizer.
	TC indicator lamp lights up/flashes yellow – The <u>MTC</u> (p. 217) is not enabled or is currently intervening. The TC indicator lamp also lights up if an error is detected. Contact an authorized Husqvarna Motorcycles workshop.

7.5 Shift warning light



The shift warning light ① is located in the center above the display.



Info

The shift warning light can be configured in the **Trip 1** display and **Trip 2** display by keeping the **MODE** button pressed.

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



Info

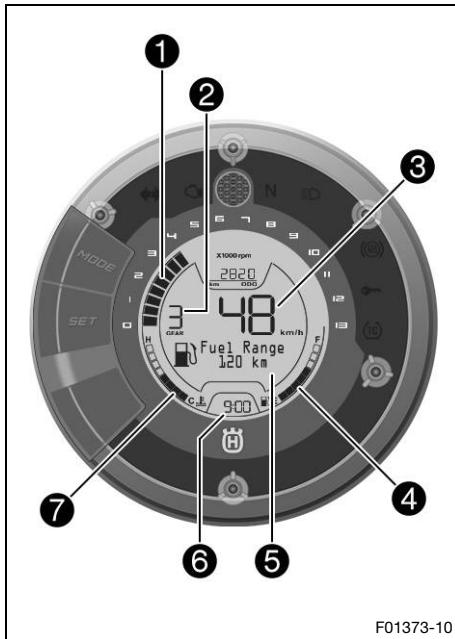
In sixth-gear, the shift warning light is deactivated when the engine is warm after the first service.

Coolant temperature	$\leq 35\text{ }^{\circ}\text{C}$ ($\leq 95\text{ }^{\circ}\text{F}$)
ODO	< 1,000 km (< 620 mi)
The shift warning light always lights up at	6,500 rpm

7 COMBINATION INSTRUMENT

Coolant temperature	> 35 °C (> 95 °F)
ODO	> 1,000 km (> 620 mi)
RPM1 shift warning light	flashes
RPM2 shift warning light	lights up

7.6 Display



The tachometer ① shows the engine speed in revolutions per minute.

The gear display ② shows the engaged gear.

Speed ③ is shown in kilometers per hour **km/h** or in miles per hour **mph**.

The fuel level display is displayed in the ④ area.

The display ⑤ shows additional information.

The time appears in area ⑥.

The coolant temperature display appears in area ⑦.



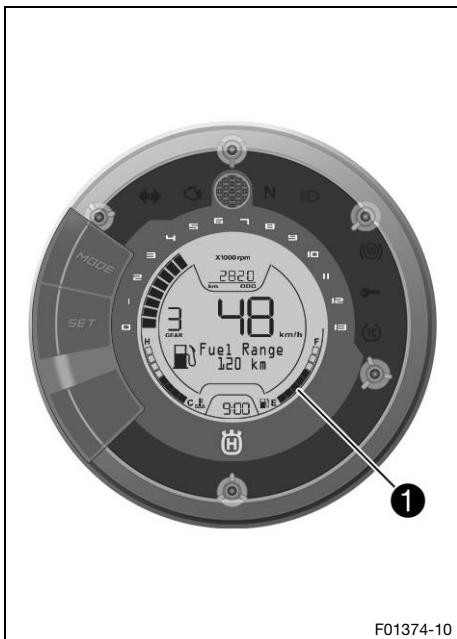
Info

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

The brightness of the displays is controlled by a brightness sensor in the combination instrument.

7 COMBINATION INSTRUMENT

7.7 Fuel level display



F01374-10

The fuel tank contents are shown in area ① of the display. The fuel level indicator consists of bars. The more bars are lit, the more fuel is in the fuel tank.



Info

If the fuel level is getting low, the warning note **Low Fuel Level** will also appear on the display.

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

The fuel level display is not updated while the side stand is folded out or the emergency off switch is switched off. Once the side stand is folded up and the emergency OFF switch is switched on, the fuel level display is next updated after 2 minutes.

The fuel level display flashes if the combination instrument does not receive a signal from the fuel level sensor.

7.8 Coolant temperature indicator



F01374-11

The coolant temperature display is shown in segment ① of the display.

The coolant temperature indicator consists of bars. The more bars that light up, the hotter the coolant.

Note

Engine failure Overheating damages the engine.

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



Info

When all bars light up, the warning

note **High Coolant Temperature** appears on the display.

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

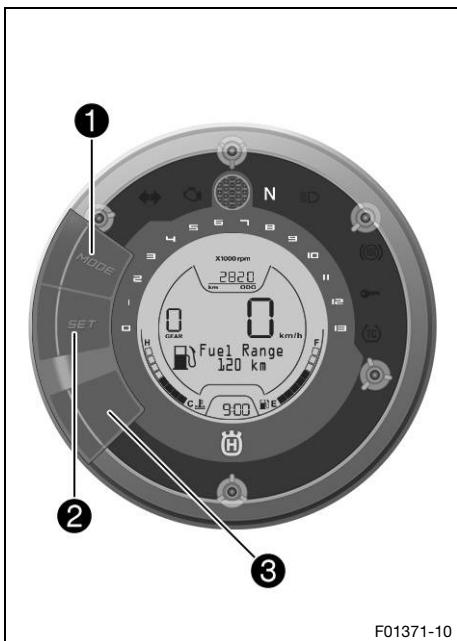
Possible states

- The engine is cold – Up to three bars light up.
- Engine warm – Four bars light up.

7 COMBINATION INSTRUMENT

- Engine hot – Five to eight bars light up.
- Engine very hot – All eight bars light up.

7.9 Function buttons



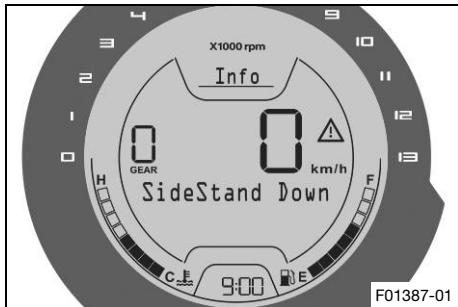
Press the **MODE** button ① to change display modes.
Possible display modes are **Info**, total distance traveled (**ODO**),
distance 1 (**TRIP 1**) and distance 2 (**TRIP 2**).

Press the **SET** button ② to change menus within a display mode.

Keeping the ③ button and **MODE** button ① pressed simultaneously enables the ABS to be activated.

Press and hold the ③ button to switch off MTC.

7.10 Info display



- Press the **MODE** button briefly and repeatedly until **Info** appears on the display.

Info shows messages or warnings that have occurred.



Info

The **Info** display is only shown if a message or warning is pending.

The warnings that have occurred are saved in the **Info** display until these are no longer active.

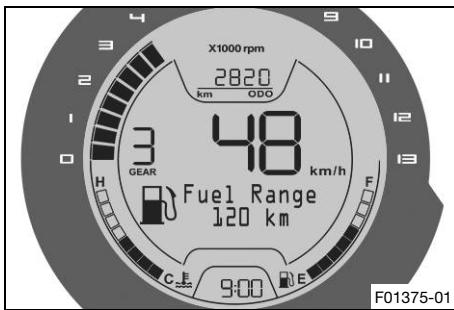
All warnings that have occurred are shown automatically in succession on the **Info** display.

Press the **SET** button briefly to change to the next warning note in the display.

Press the **MODE** button briefly to change to the next display mode in the display.

7 COMBINATION INSTRUMENT

7.11 ODO display



Press the **MODE** button briefly and repeatedly until **ODO** appears in the display.



Info

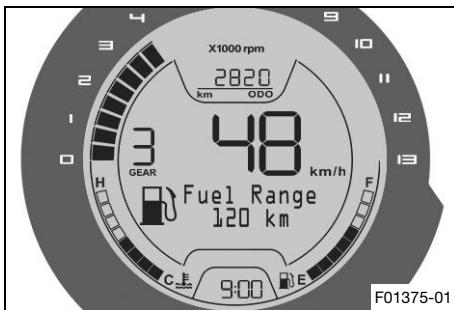
ODO shows the total distance covered.

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

Press the **SET** button briefly to change to the next menu in the display.

Press the **MODE** button briefly to change to the next display mode in the display.

7.11.1 Fuel Range



- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

The **Fuel Range** menu is identical on the **ODO** display, the **Trip 1** display and the **Trip 2** display.

The range is shown in this menu.

**Info**

The range depends on the average fuel consumption and the fuel quantity in the fuel tank.

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

Press the SET button briefly.	Next menu on the display
Press the MODE button briefly.	Next display mode on the display

7.11.2 Service



- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

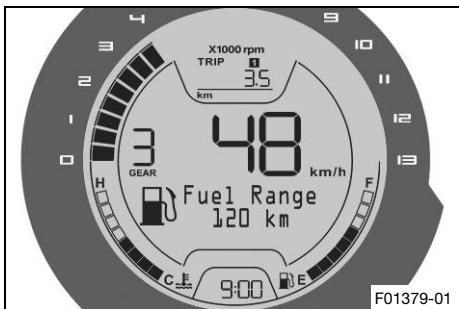
This menu shows the distance to the next service.

Press the SET button briefly.	Next menu on the display
--------------------------------------	--------------------------

7 COMBINATION INSTRUMENT

Press the MODE button briefly.	Next display mode on the display
---------------------------------------	----------------------------------

7.12 TRIP 1 display



Press the **MODE** button briefly and repeatedly until **TRIP 1** appears in the display.



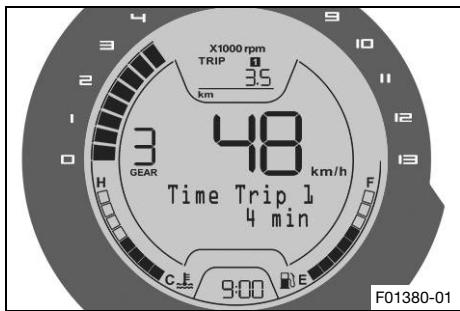
Info

TRIP 1 shows the distance since the last reset, such as between two refueling stops. **TRIP 1** is always running and counts up to **9999.9**.

Press the **SET** button briefly to change to the next menu in the display.

Press the **MODE** button briefly to change to the next display mode in the display.

7.12.1 Time Trip 1



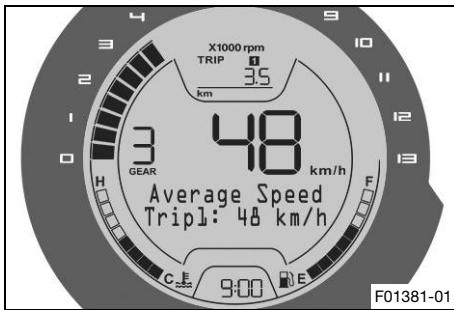
- Press the **MODE** button briefly and repeatedly until **TRIP 1** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

Riding time 1 based on **TRIP 1** is shown in this menu.

Press the SET button briefly.	Next menu on the display
Press the SET button for 3 seconds.	Display of TRIP 1 is reset
Press the MODE button briefly.	Next display mode on the display

7 COMBINATION INSTRUMENT

7.12.2 Average Speed Trip1

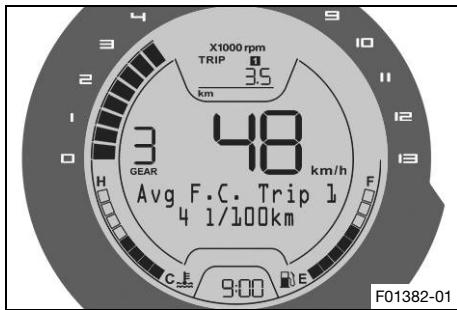


- Press the **MODE** button briefly and repeatedly until **TRIP 1** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

Average speed 1 based on **TRIP 1** is shown in this menu.

Press the SET button briefly.	Next menu on the display
Press the SET button for 3 seconds.	Display of TRIP 1 is reset
Press the MODE button briefly.	Next display mode on the display

7.12.3 Avg F.C. Trip 1



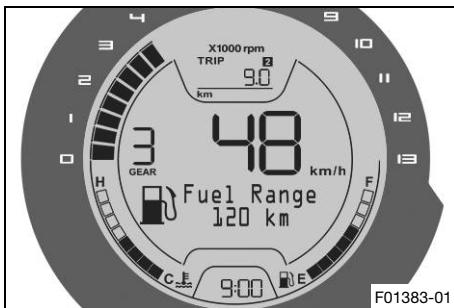
- Press the **MODE** button briefly and repeatedly until **TRIP 1** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

Average fuel consumption 1 based on **TRIP 1** is shown in this menu.

Press the SET button briefly.	Next menu on the display
Press the SET button for 3 seconds.	Display of TRIP 1 is reset
Press the MODE button briefly.	Next display mode on the display

7 COMBINATION INSTRUMENT

7.13 TRIP 2 display



Press the **MODE** button briefly and repeatedly until **TRIP 2** appears in the display.



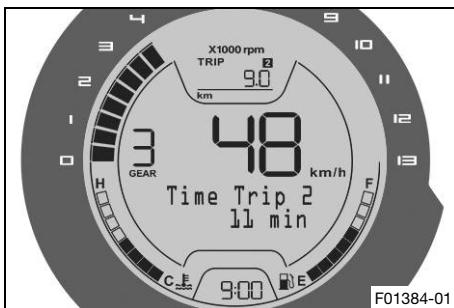
Info

TRIP 2 shows the distance since the last reset, such as between two refueling stops. **TRIP 2** is always running and counts up to **9999.9**.

Press the **SET** button briefly to change to the next menu.

Press the **MODE** button briefly to change to the next display mode in the display.

7.13.1 Time Trip 2



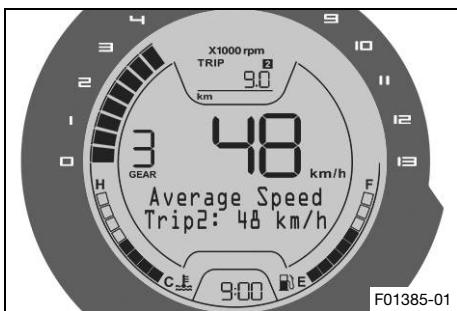
- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

Riding time 2 based on **TRIP 2** is shown in this menu.

Press the SET button briefly.	Next menu on the display
--	--------------------------

Press the SET button for 3 seconds.	Display of TRIP 2 is reset
Press the MODE button briefly.	Next display mode on the display

7.13.2 Average Speed Trip2



- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

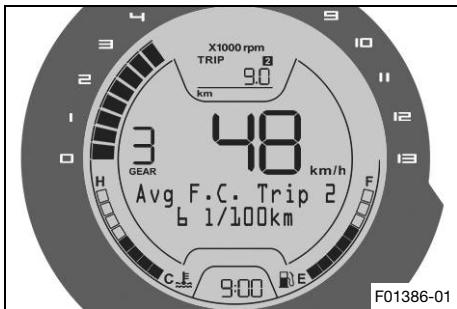
Average speed 2 based on **TRIP 2** is shown in this menu.

Press the SET button briefly.	Next menu on the display
Press the SET button for 3 seconds.	Display of TRIP 2 is reset

7 COMBINATION INSTRUMENT

Press the MODE button briefly.	Next display mode on the display
---------------------------------------	----------------------------------

7.13.3 Avg F.C. Trip 2



- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **SET** button briefly and repeatedly until the desired menu appears.

Average fuel consumption 2 based on **TRIP 2** is shown in this menu.

Press the SET button briefly.	Next menu on the display
Press the SET button for 3 seconds.	Display of TRIP 2 is reset
Press the MODE button briefly.	Next display mode on the display

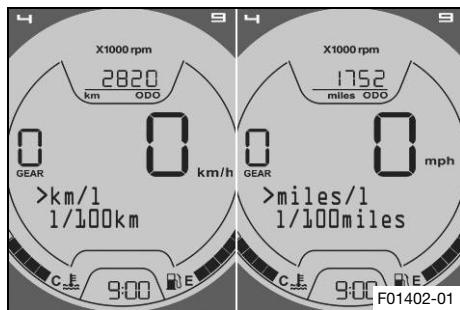
7.14 Setting the units



Info

Make the setting according to the country.

If you change the unit, the value **ODO** is retained and converted accordingly.



Condition

The motorcycle is stationary.

- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** button for 5 seconds.
 - ✓ The units display appears.



Info

The units display is shown on the **ODO** display for each menu by keeping the **MODE** button pressed.

- Press the **SET** button briefly and repeatedly until the desired unit appears.
- Do not actuate **MODE** button and **SET** button for about 5 seconds.
 - ✓ The units display disappears and the selected unit of the first line is adopted and saved.



Info

km or **miles** can be set as a length unit.
l, **USg** or **UKg** can be set as a volume unit.

7.15 Setting the clock



Info

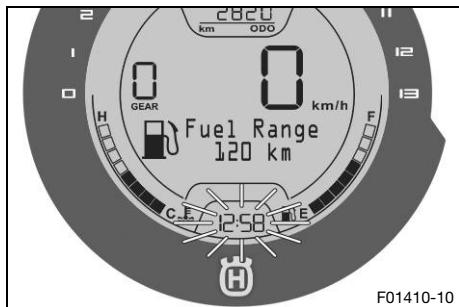
The clock is displayed in 24-hour format.

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

Condition

The motorcycle is stationary.

- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** button and **SET** button simultaneously for 5 seconds.
 - ✓ The time display begins to flash.



Info

The clock can be set in the **ODO** display for each menu by keeping the **MODE** button and **SET** button pressed simultaneously.

- Set the hours display using the **MODE** button.
 - Set the minutes display using the **SET** button.
 - Press the **MODE** button and **SET** button simultaneously.
- ✓ The set time is adopted and saved.

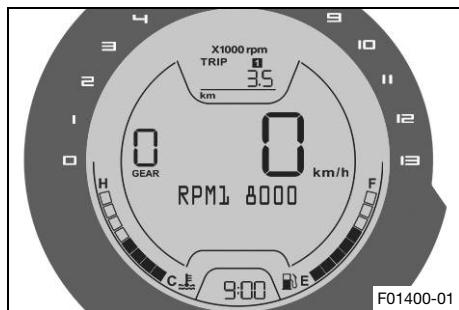


7.16 Adjusting the shift speed RPM1

Condition

The motorcycle is stationary.

ODO > 1000 km (621 mi).



- Press the **MODE** button briefly and repeatedly until **TRIP 1** appears on the display.
 - Press the **MODE** button for 5 seconds.
- ✓ The **RPM1** display appears.



Info

The **RPM1** display appears in the **TRIP 1** display for each menu by keeping the **MODE** button pressed.

RPM1 is the engine speed above which the shift warning light starts flashing.

The engine speed can be set at intervals of 50.

The shift speed **RPM1** can only be set up to maximum 50 revolutions per minute below the shift speed **RPM2**.

- Adjust the speed with the **MODE** button and **SET** button.



Info

The **MODE** button increases the value.

The **SET** button decreases the value.

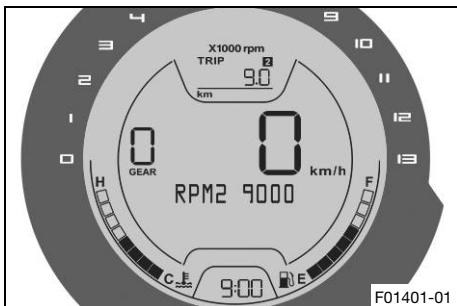
- Press the **MODE** button and **SET** button simultaneously.
 - ✓ The **RPM1** display disappears and the set shift speed **RPM1** is adopted and saved.

7.17 Adjusting the shift speed RPM2

Condition

The motorcycle is stationary.

ODO > 1000 km (621 mi).



- Press the **MODE** button briefly and repeatedly until **TRIP 2** appears on the display.
- Press the **MODE** button for 5 seconds.
 - ✓ The **RPM2** display appears.

**Info**

The **RPM2** display appears in the **TRIP 2** display for each menu by keeping the **MODE** button pressed.

RPM2 is the engine speed above which the shift warning light lights up.

The engine speed can be set at intervals of 50.

The shift speed **RPM2** can only be set from a minimum of 50 revolutions per minute above the shift speed **RPM1**.

-
- Adjust the speed with the **MODE** button and **SET** button.
-

**Info**

The **MODE** button increases the value.

The **SET** button decreases the value.

-
- Press the **MODE** button and **SET** button simultaneously.
 - ✓ The **RPM2** display disappears and the set shift speed **RPM2** is adopted and saved.
-



8.1 Advice on preparing for first use



Danger

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

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



Warning

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

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



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic.

Different tire tread patterns can make the vehicle significantly more difficult to control.

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



Warning

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

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



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

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

Running-in phase

200 km (124 mi)



Warning

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

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

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



Info

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

- Make sure that the pre-delivery inspection work has been carried out by an authorized Husqvarna Motorcycles workshop.
 - ✓ You receive a delivery certificate and the Service & Manufacturer Warranty Booklet at vehicle handover.
- Before your first trip, read the entire Owner's Manual carefully.
- Get to know the controls.
- Adjust the basic position of the clutch lever. (☞ p. 128)
- Adjust the basic position of the hand brake lever. (☞ p. 140)
- Adjust the basic position of the foot brake lever. (☞ p. 148)

8 PREPARING FOR USE

- Get used to handling the motorcycle in a suitable area before making a longer trip. Try also to ride as slowly as possible to get a better feel for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Run the engine in. (☞ p. 80)

8.2 Running in the engine

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

Guideline

Maximum engine speed

During the first: 1,000 km (620 mi)	6,000 rpm
After the first: 1,000 km (620 mi)	7,800 rpm

- Avoid fully opening the throttle!

8.3 Loading the vehicle



Warning

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

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

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



Warning

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

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



Warning

Danger of accidents Unstable handling characteristics at high speed.

- Adapt your speed according to your payload. Ride more slowly if your motorcycle is loaded with cases or other baggage.

Maximum speed with baggage

130 km/h (80.8 mph)



Warning

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

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



Warning

Danger of accidents Luggage which has slipped impairs visibility.

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

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



Warning

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

- Adapt your speed to your payload.

8 PREPARING FOR USE



Warning

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

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



Warning

Fire hazard The hot exhaust system may burn luggage.

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

- If you carry luggage, make sure you secure it firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.
- Do not exceed the maximum permissible weight and the maximum permissible axle loads.

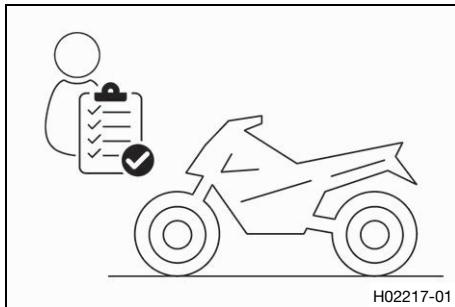
Guideline

Maximum permissible overall weight	350 kg (772 lb.)
Maximum permissible front axle load	150 kg (331 lb.)
Maximum permissible rear axle load	200 kg (441 lb.)

9.1 Checks and maintenance measures when preparing for use

Info

Before every trip, check the condition of the vehicle and ensure that it is roadworthy.
The vehicle must be in perfect technical condition when it is being operated.



- Check the engine oil level. (☞ p. 218)
- Check the front brake fluid level. (☞ p. 142)
- Check the rear brake fluid level. (☞ p. 152)
- Check the front brake linings. (☞ p. 146)
- Check the rear brake linings. (☞ p. 155)
- Check that the brake system is functioning properly.
- Check the coolant level in the compensating tank. (☞ p. 204)
- Check the chain for dirt. (☞ p. 120)
- Check the chain tension. (☞ p. 122)
- Check the tire condition. (☞ p. 172)
- Check the tire pressure. (☞ p. 175)
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check that the electrical system is functioning properly.
- Check that luggage is properly secured.
- Sit on the motorcycle and check the rear mirror setting.
- Check the fuel level.



9.2 Starting the vehicle



Danger

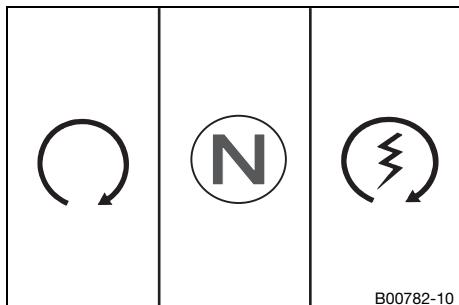
Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

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

Note

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

- Always run the engine warm at a low speed.



- Turn the emergency OFF switch to the position
- Switch on the ignition by turning the ignition key to the position
- ✓ After you switch on the ignition, you can hear the fuel pump working for about two seconds. The function check of the combination instrument is run at the same time.
- ✓ The ABS indicator lamp lights up and goes back out after starting off.
- Shift gear to neutral.
- ✓ The green idle indicator lamp **N** lights up.
- Press the electric starter button



Info

Do not press the electric starter button until the combination instrument function check is finished.

When starting, **DO NOT** open the throttle. If you open the throttle during the starting procedure, fuel is not injected by the engine management system and the engine cannot start.

Press the starter for a maximum of 5 seconds. Wait for at least 5 seconds before trying again.

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

-
- Take the weight off the side stand and swing it back up with your foot as far as it will go.
- ◀

9.3 Starting off

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

9 RIDING INSTRUCTIONS

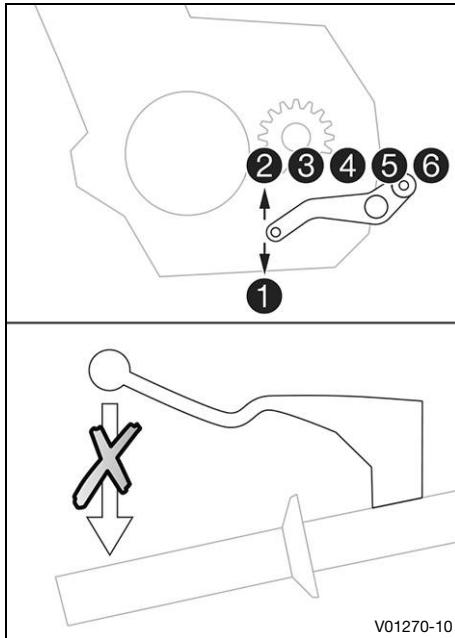


Tip

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



9.4 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.

9.5 Shifting, riding



Warning

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

- Avoid abrupt load alterations and sudden braking actions.
- Adapt your speed to the road conditions.



Warning

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

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



Warning

Danger of accidents An incorrect ignition key position causes malfunctions.

- Do not change the ignition key position while driving.



Warning

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

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



Warning

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

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



Warning

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

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



Warning

Danger of accidents Cold tires have reduced road grip.

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



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

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

Running-in phase

200 km (124 mi)



Warning

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

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

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



Warning

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

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



Warning

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

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

Note

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

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

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

Note

Engine failure Overheating damages the engine.

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

Note

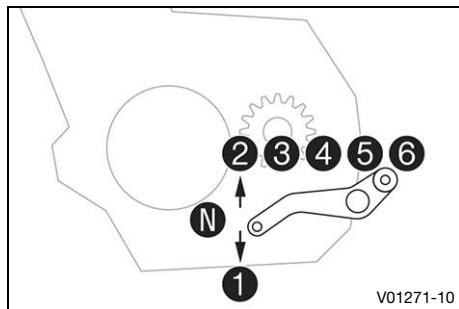
Transmission damage Incorrect use of Easy Shift will damage the transmission.

Easy Shift is not active if you pull the clutch lever.

- Only use Easy Shift in the permitted speed range shown.
-

**Info**

If unusual noises occur while riding, stop immediately (taking care not to endanger yourself or other road users in the process), switch off the engine, and contact an authorized Husqvarna Motorcycles workshop.



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

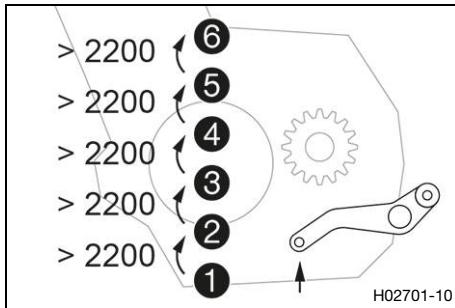
**Info**

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

The operating temperature is reached when 4 bars of the temperature indicator light up.

9 RIDING INSTRUCTIONS

- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is $\frac{3}{4}$ open. This will barely reduce the speed but fuel consumption will be considerably lower.
- Accelerate only up to a speed suitable for the road surface and weather conditions. Particularly in bends, do not shift, and accelerate very carefully.
- Brake if necessary and close the throttle at the same time in order to shift down.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and open the throttle or shift again.
- If the engine stalls (e.g. at a crossroads), just pull the clutch lever and press the electric starter button. The transmission must not be shifted into neutral.
- Switch off the engine if running at idle or stationary for a long time.
- If the malfunction indicator lamp lights up while riding, stop immediately taking care not to endanger yourself or other road users in the process.



Condition

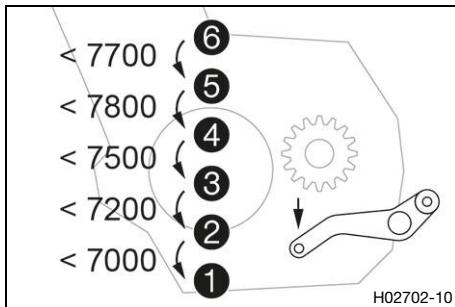
Activate Easy Shift.

- Using Easy Shift, you can shift up in the speed range shown without pulling the clutch lever.



Info

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



- Using Easy Shift, you can shift down in the speed range shown without pulling the clutch lever.



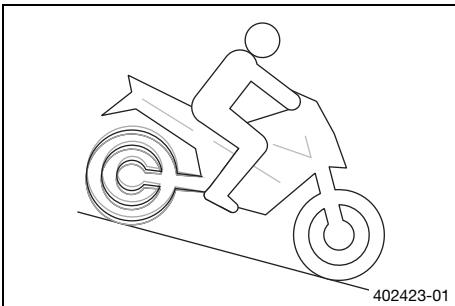
Info

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



9 RIDING INSTRUCTIONS

9.6 Engine braking control (MSR)



The **MSR** is a function of the engine control.

If the engine braking effect is too great, the **MSR** prevents the rear wheel from locking.

To avoid slip of the rear wheel, the **MSR** only opens the throttle valve as far as absolutely necessary.

The **MSR** is applied on surfaces, where the friction is too low to open the anti-hopping clutch.

9.7 Applying the brakes



Warning

Danger of accidents Moisture and dirt impair the brake system.

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



Warning

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

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



Warning

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

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

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



Warning

Danger of accidents Higher total weight increases the stopping distance.

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



Warning

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

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



Warning

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

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



Warning

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

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

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

9 RIDING INSTRUCTIONS



Warning

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

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

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



Info

When ABS is active, you can achieve maximum braking power even on low grip surfaces such as sandy, wet, or slippery terrain without locking of the tires.



Warning

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

- If possible finish braking before going into a bend.

-
- Braking should always be completed before you go into a bend. Change down to a lower gear appropriate to your road speed.
 - On long downhill stretches, use the braking effect of the engine. Change down one or two gears, but do not over rev the engine. As a result, you will have to apply the brakes far less frequently and the brake system will not overheat.



9.8 Stopping, parking



Warning

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

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



Warning

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

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

Note

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

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

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

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

9 RIDING INSTRUCTIONS

Note

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

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

- Apply the brakes on the motorcycle.
 - Shift gear to neutral.
 - Switch off the ignition by turning the ignition key to the position .
-



Info

If the engine is switched off with the emergency OFF switch and the ignition remains switched on at the ignition lock, power continues to flow to most power consumers. This discharges the battery. You should therefore always switch off the engine with the ignition lock – the emergency OFF switch is intended for emergencies only.

- Park the motorcycle on a firm surface.
 - Swing the side stand forward with your foot as far as it will go and lean the vehicle on it.
 - Lock the steering by turning the handlebar fully to the left, pressing down the ignition key to the position  and turning it to the position . To make the steering lock engage more easily, move the handlebar a little to the left and right. Remove the ignition key.
- 
-

9.9 Transporting

Note

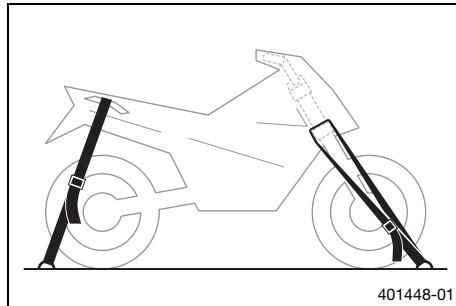
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Note

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

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



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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Note

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

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

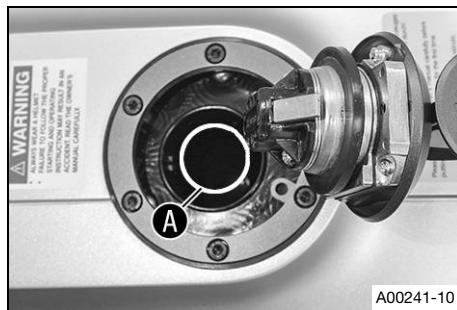
- Refuel only with clean fuel that meets the specified standards. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



Note

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

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



- Switch off the engine.
 - Open the filler cap. (☞ p. 41)
 - Fill the fuel tank with fuel up to the lower edge **A** of the filler neck.
- | | | |
|-----------------------------------|----------------------|--|
| Total fuel tank capacity, approx. | 12 l
(3.2 US gal) | Super unleaded (ROZ 95/RON 95/PON 91) (☞ p. 261) |
|-----------------------------------|----------------------|--|
- Close the filler cap. (☞ p. 43)



10 SERVICE SCHEDULE

10.1 Additional information

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

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

Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule can always be found on Husqvarna Motorcycles Dealer.net. Your authorized Husqvarna Motorcycles dealer will be glad to advise you.

10.2 Required work

	Every two years	Every year				
	every 20,000 km (12,400 mi)	every 10,000 km (6,200 mi)	every 1,000 km (620 mi)			
Read out the fault memory using the Husqvarna Motorcycles diagnostics tool.	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check that the electrical system is functioning properly.	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Change the engine oil and oil filter and clean the oil screens. (☞ p. 219)	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check the front brake linings. (☞ p. 146)	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check the rear brake linings. (☞ p. 155)	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check the brake discs. (☞ p. 141)	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check the brake lines for damage and leakage.	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Check the front brake fluid level. (☞ p. 142)	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>

	Every two years	Every year		
	every 20,000 km (12,400 mi)	every 10,000 km (6,200 mi)	every 1,000 km (620 mi)	
Check the rear brake fluid level. (☞ p. 152)	○	●	●	●
Check/correct the fluid level of the hydraulic clutch. (☞ p. 129)		●	●	●
Change the front brake fluid. ↗				●
Change the rear brake fluid. ↗				●
Change the hydraulic clutch fluid. ↗				●
Check the free travel of the foot brake lever. (☞ p. 147)	○	●	●	●
Check the shock absorber and fork for leaks. ↗	○	●	●	●
Clean the dust boots of the fork legs. ↗ (☞ p. 115)		●	●	
Check the play of the steering head bearing. ↗	○	●	●	●
Check the tire condition. (☞ p. 172)	○	●	●	●
Check the tire pressure. (☞ p. 175)	○	●	●	●
Check the chain, rear sprocket, and engine sprocket. (☞ p. 125)		●	●	●
Check the chain tension. (☞ p. 122)	○	●	●	●
Change the spark plugs. ↗			●	
Check the valve clearance. ↗		●	●	
Check the antifreeze and coolant level. (☞ p. 202)	○	●	●	●

10 SERVICE SCHEDULE

	every two years	Every year	
	every 20,000 km (12,400 mi)	every 10,000 km (6,200 mi)	after 1,000 km (620 mi)
Check the cables for damage and routing without sharp bends. 		•	• • •
Change the air filter. Clean the air filter box. 		•	•
Check the fuel pressure. 		•	• • •
Check the headlight setting. ( p. 194)	○	•	•
Check that the radiator fan is functioning properly. 	○	•	• • •
Final check: Check the vehicle is roadworthy and take a test ride. 	○	•	• • •
Read out the fault memory after the test ride using the Husqvarna Motorcycles diagnostics tool. 	○	•	• • •
Check the CO adjustment using the Husqvarna Motorcycles diagnostics tool. 		•	•
Reset the service interval display. 	○	•	• • •
Make the service entry in Husqvarna Motorcycles Dealer.net and in the Service & Manufacturer Warranty Booklet. 	○	•	• • •

- One-time interval
- Periodic interval

10.3 Recommended work

	Every four years	Every year	every 30,000 km (18,600 mi)	every 10,000 km (6,200 mi)	after 1,000 km (620 mi)
Check the frame. 					•
Check the swingarm. 					•
Check the swingarm bearing for play. 		•	•		
Check the wheel bearing for play. 		•	•		
Change the coolant.  (p. 210)					•
Empty the drainage hoses. 	○	•	•	•	•
Check all hoses (e.g. fuel, coolant, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing. 		•	•	•	•
Grease all moving parts (e.g., side stand, hand lever, chain, ...) and check for smooth operation. 	○	•	•	•	•
Check the screws and nuts for tightness. 	○	•	•	•	•

- One-time interval
- Periodic interval

11.1 Fork/shock absorber



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



Info

The recommendations for the suspension setting are shown in table 1. The table is located on the underside of the front rider's seat.

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

11.2 Adjusting the compression damping of the fork



Info

The hydraulic compression damping determines the fork suspension behavior.



- Turn white adjusting screw 1 clockwise as far as it will go.



Info

Adjusting screw 1 is located at the upper end of the left fork leg.

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

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

Guideline

Compression damping	
Comfort	19 clicks
Standard	14 clicks
Sport	11 clicks



Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.



11.3 Adjusting the rebound damping of the fork



Info

The hydraulic rebound damping determines the fork suspension behavior.



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



Info

Adjusting screw **1** is located at the upper end of the right fork leg.

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

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

Guideline

Rebound damping	
Comfort	19 clicks
Standard	14 clicks
Sport	11 clicks

**Info**

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

11.4 Adjusting the rebound damping of the shock absorber

**Caution**

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

The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



- Turn adjusting screw ① clockwise up to the last perceptible click.
- Turn counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks



Info

Turn clockwise to increase damping; turn counter-clockwise to reduce damping.

11.5 Adjusting the spring preload of the shock absorber ↗



Warning

Danger of accidents Modifications to the suspension setting may seriously alter the handling characteristic.

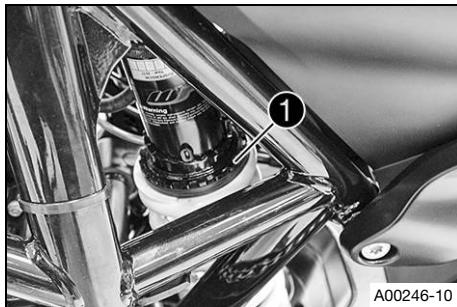
- Ride slowly to start with after making adjustments to get the feel of the new handling characteristic.



Info

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.



- Set the spring preload by turning adjusting ring 1 using the hook wrench and the extension from the tool set.

Guideline

Spring preload	
Standard	5 clicks
Full payload	10 clicks



Info

The spring preload can be set to 10 different positions.



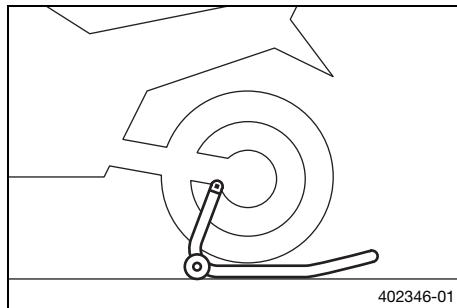
12 SERVICE WORK ON THE CHASSIS

12.1 Raising the motorcycle with the rear lifting gear

Note

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

- Park the vehicle on a firm and level surface.



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

Universal V adapter with bushings (61029955144)
Rear wheel work stand (6932995500033)
- Stand the motorcycle upright, align the lifting gear with the swingarm and the adapters, and lift the motorcycle.

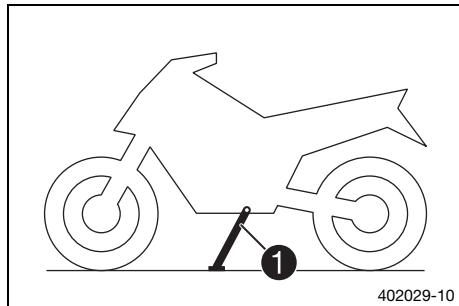


12.2 Removing the rear of the motorcycle from the lifting gear

Note

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

- Park the vehicle on a firm and level surface.



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

12.3 Lifting the motorcycle with the front lifting gear

Note

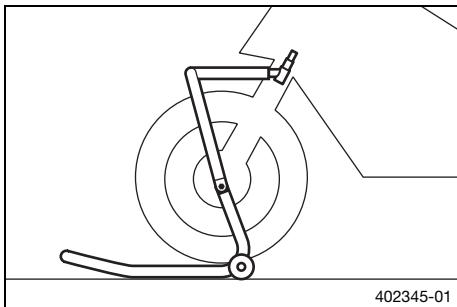
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)

12 SERVICE WORK ON THE CHASSIS



Main work

- Move the handlebar to the straight-ahead position. Attach the lifting gear to the steering stem.

Mounting pin (69329965010)

Front wheel work stand, large (6932996510033)



Info

Always raise the motorcycle at the rear first.

- Lift the motorcycle at the front.

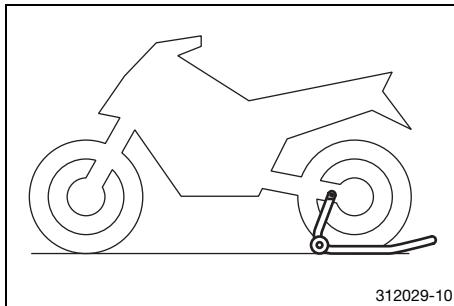


12.4 Taking the motorcycle off the front lifting gear

Note

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

- Park the vehicle on a firm and level surface.



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

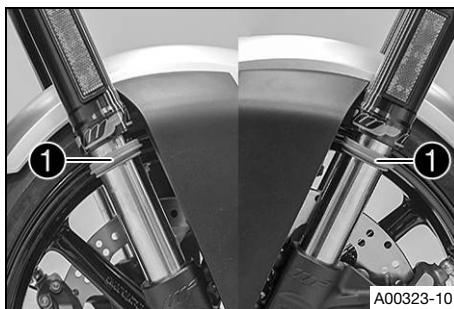
12.5 Cleaning the dust boots of the fork legs ↗

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Lift the motorcycle with the front lifting gear. (☞ p. 113)

Main work

- Push dust boots ① of both fork legs downward.



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Info

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



Warning

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

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

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

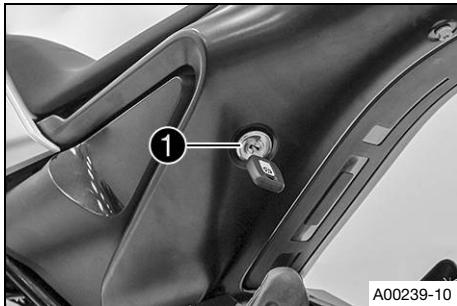
Universal oil spray (☞ p. 263)

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

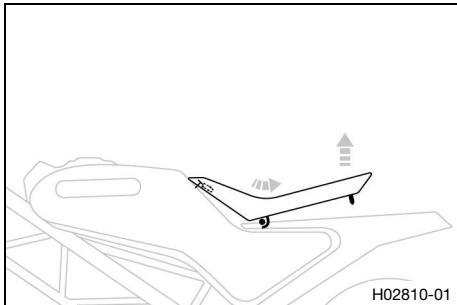
Finishing work

- Take the motorcycle off the front lifting gear. (☞ p. 114)
- Remove the rear of the motorcycle from the lifting gear. (☞ p. 112)

12.6 Removing the front rider's seat



- Insert the ignition key in seat lock 1 and turn it clockwise.

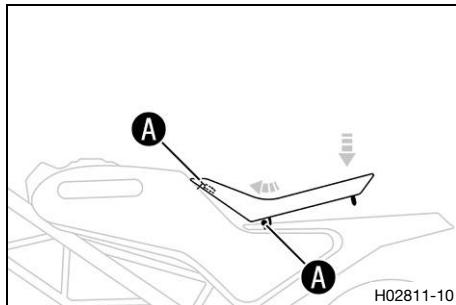


- Raise the rear of the front rider's seat, pull the seat back, and lift it off.



12 SERVICE WORK ON THE CHASSIS

12.7 Mounting the front rider's seat



- Hang the front rider's seat in place in the **A** area, lower it at the rear and push it forward.
- Remove the ignition key from the seat lock.



Warning

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

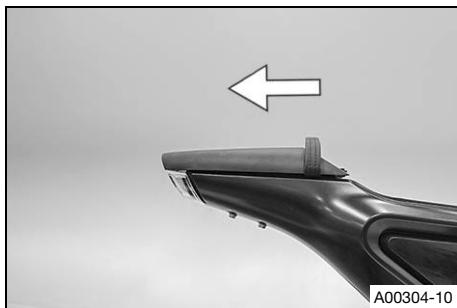
- After assembly, check whether the seat is correctly locked and cannot be pulled up.
- Check that the front rider's seat is mounted correctly.



12.8 Removing the passenger seat

Preparatory work

- Remove the front rider's seat. (☞ p. 117)

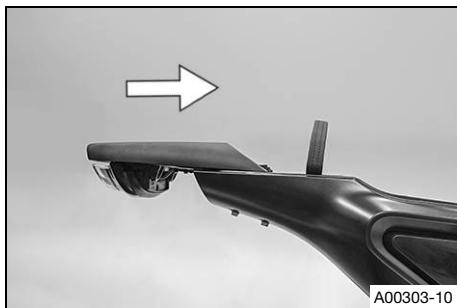


Main work

- Push back the passenger seat and hang to the side.



12.9 Mounting the passenger seat



Main work

- Position the passenger seat and slide it forward.
- Check that the passenger seat is mounted correctly.



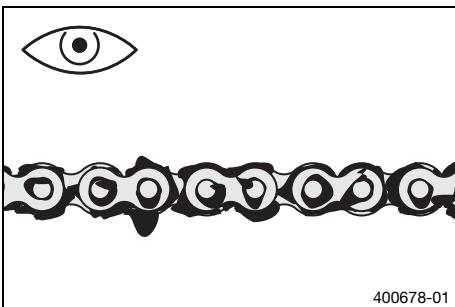
Finishing work

- Mount the front rider's seat. (☞ p. 118)



12 SERVICE WORK ON THE CHASSIS

12.10 Checking the chain for dirt



- Check the chain for heavy soiling.
 - » If the chain is very dirty:
 - Clean the chain. (☞ p. 120)

12.11 Cleaning the chain



Warning

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

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



Warning

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

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



Note

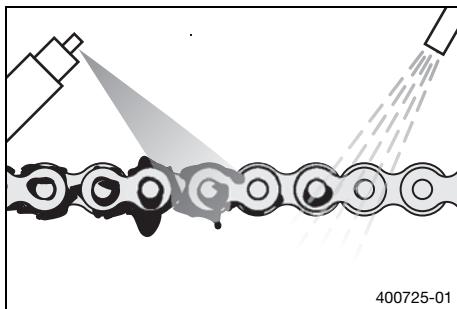
Environmental hazard Hazardous substances cause environmental damage.

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



Info

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



Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)

Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.
Chain cleaner (☞ p. 262)
- After drying, apply chain spray.
Street chain spray (☞ p. 263)

Finishing work

- Remove the rear of the motorcycle from the lifting gear.
(☞ p. 112)



12.12 Checking the chain tension



Warning

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

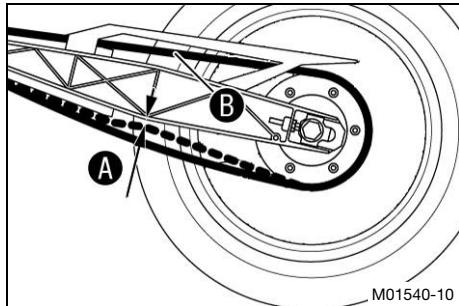
If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

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

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

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)



Main work

- Shift gear to neutral.
- Push the chain upwards near the vertical rib of the swingarm and measure the chain tension **A**.



Info

The upper part of chain section **B** must be taut. Chain wear is not always even. Repeat this measurement at different chain positions.

Chain tension	5 mm (0.2 in)
---------------	---------------

- » If the chain tension does not meet the specification:
 - Adjust the chain tension. (☞ p. 123)
 - Remove the rear of the motorcycle from the lifting gear.
(☞ p. 112)

12.13 Adjusting the chain tension



Warning

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

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

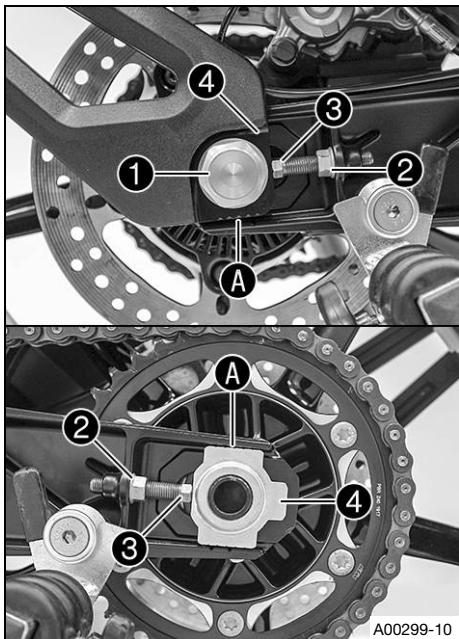
If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

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

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Check the chain tension. (☞ p. 122)

12 SERVICE WORK ON THE CHASSIS



Main work

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

Guideline

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



Info

The upper part of the chain must be taut.
Chain wear is not always even. Repeat this measurement at different chain positions.

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

Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
-------------------------	---------	---------------------

Finishing work

- Check the chain tension. (☞ p. 122)



12.14 Checking the chain, rear sprocket, and engine sprocket

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)

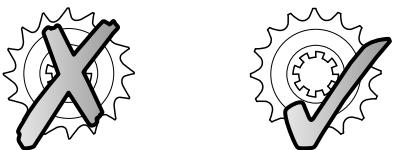
Main work

- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Change the drivetrain kit. ↗



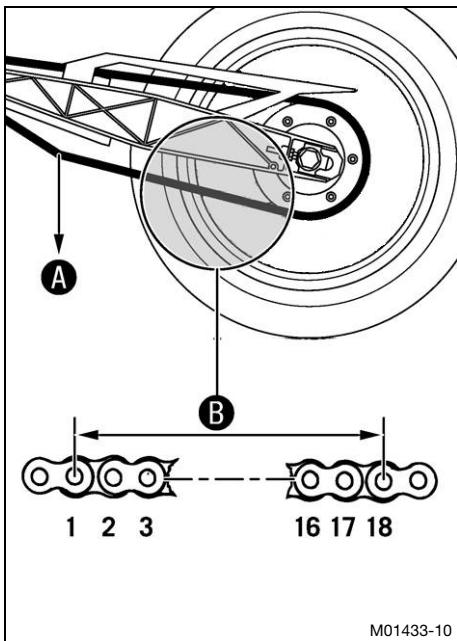
Info

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



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12 SERVICE WORK ON THE CHASSIS



- Shift gear to neutral.
- Pull the lower chain section with specified weight **A**.

Guideline

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

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



Info

Chain wear is not always even. Repeat this measurement at different chain positions.

Maximum distance B from 18 chain rollers at the longest chain section	272 mm (10.71 in)
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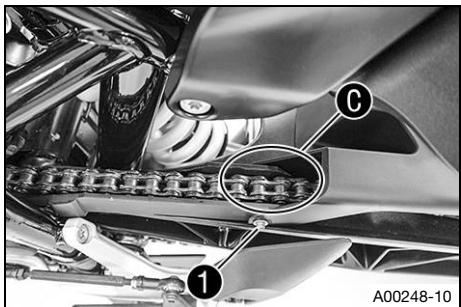
- » If distance **B** is greater than the specified measurement:
 - Change the drivetrain kit.

**Info**

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

New chains wear out faster on old, worn sprockets.

For safety reasons, the chain has no chain joint.



- Check the chain sliding guard for wear.
 - » If in area **C** by the chain sliding guard screw **1** is visible from above:
 - Replace the chain sliding guard.
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the screw of the chain sliding guard.

Guideline

Screw, chain guard	EJOT	2 Nm (1.5 lbf ft)
-----------------------	------	-------------------

Finishing work

- Remove the rear of the motorcycle from the lifting gear.
 p. 112



12.15 Adjusting the basic position of the clutch lever

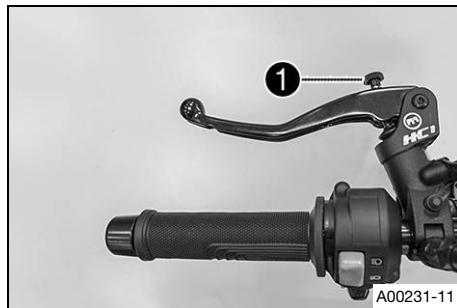
i Info

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

The range of adjustment is limited.

Turn the adjusting screw by hand only, and do not apply force.

Do not make any adjustments while riding!



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

12.16 Checking/correcting the fluid level of the hydraulic clutch



Warning

Skin irritation Brake fluid causes skin irritation.

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



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Info

The fluid level rises with increasing wear of the clutch facing discs.

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

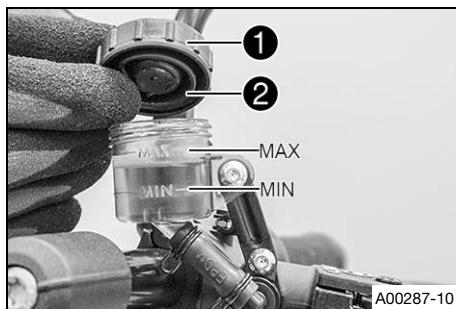
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.

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

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

- » If the fluid level does not meet specifications:
 - Remove screw cap **1** with membrane **2**.
 - Correct the fluid level of the hydraulic clutch.
Brake fluid DOT 4 / DOT 5.1 (☞ p. 259)
- Mount and tighten screw cap **1** with membrane **2**.



Info

Clean up overflowed or spilled brake fluid immediately with water.

12.17 Removing front fender



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

12.18 Installing front fender



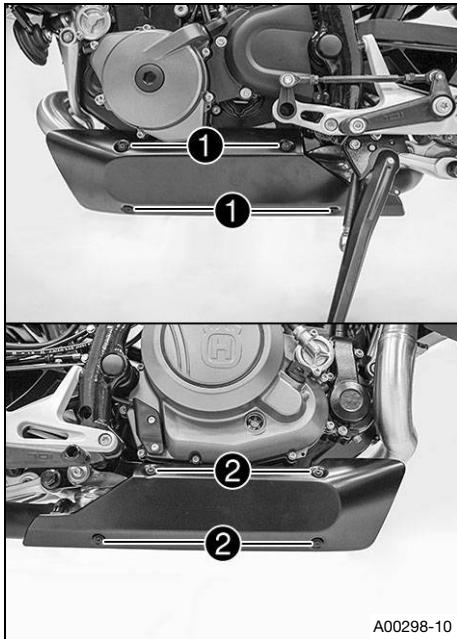
- Position the fender.
- Mount and tighten screws 1.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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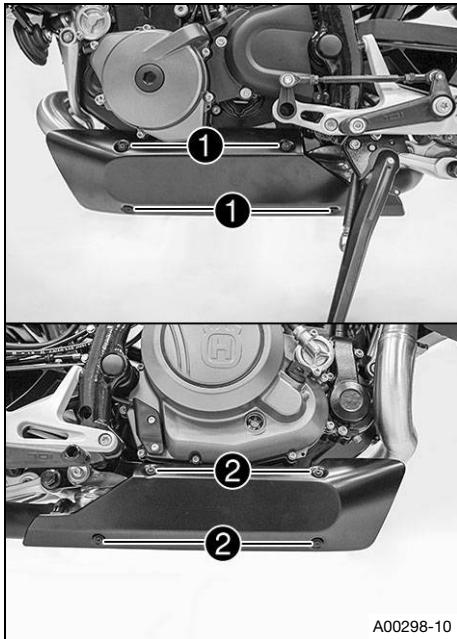
12 SERVICE WORK ON THE CHASSIS

12.19 Removing the front spoiler



- Remove screws ① and take off the front left spoiler.
- Remove screws ② and take off the front right spoiler.

12.20 Fitting front spoiler



- Position the front left spoiler, mount and tighten screws 1.

Guideline

Screw, front spoiler	M5	5 Nm (3.7 lbf ft)
----------------------	----	-------------------

- Position the front right spoiler, mount and tighten screws 2.

Guideline

Screw, front spoiler	M5	5 Nm (3.7 lbf ft)
----------------------	----	-------------------

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12 SERVICE WORK ON THE CHASSIS

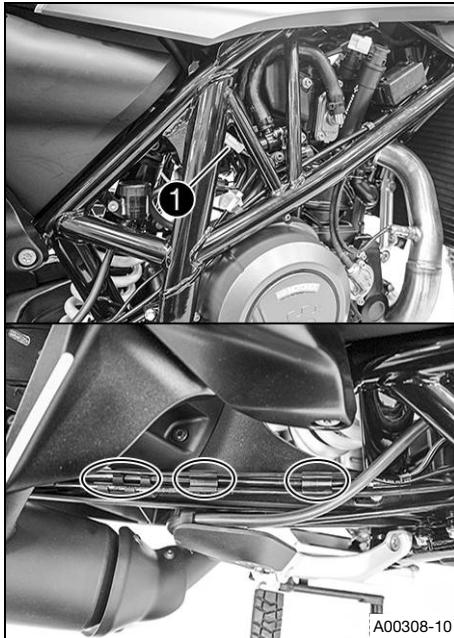
12.21 Removing the license plate holder

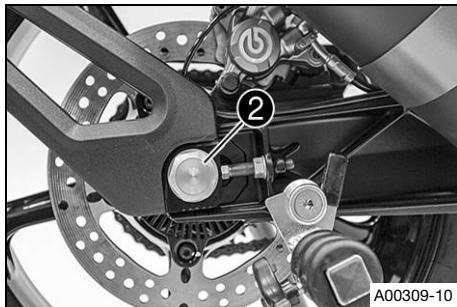
Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)

Main work

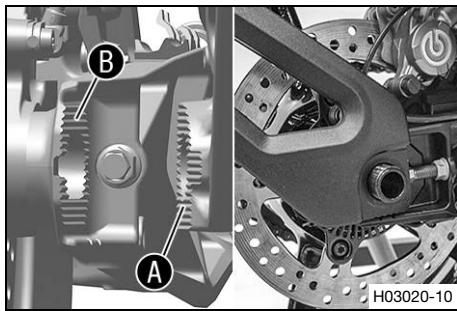
- Disconnect plug-in connector ①.
- Take the cable out of holders.





- Remove nut ②.
- Remove license plate holder.

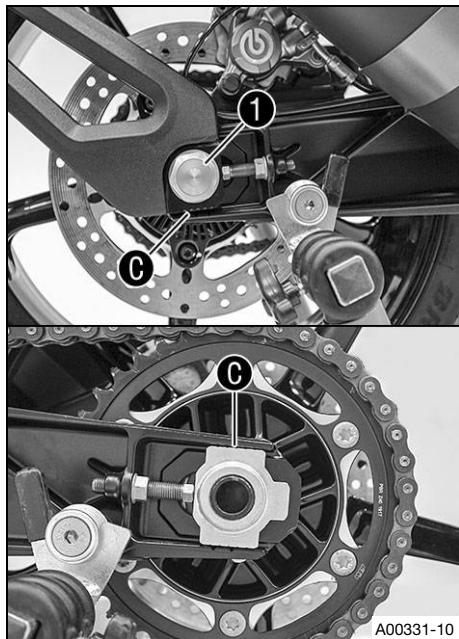
12.22 Installing the license plate holder



Main work

- Clean gear teeth A and B.
 - Position the license plate holder.
- ✓ Gear teeth A and B are aligned with each other.

12 SERVICE WORK ON THE CHASSIS

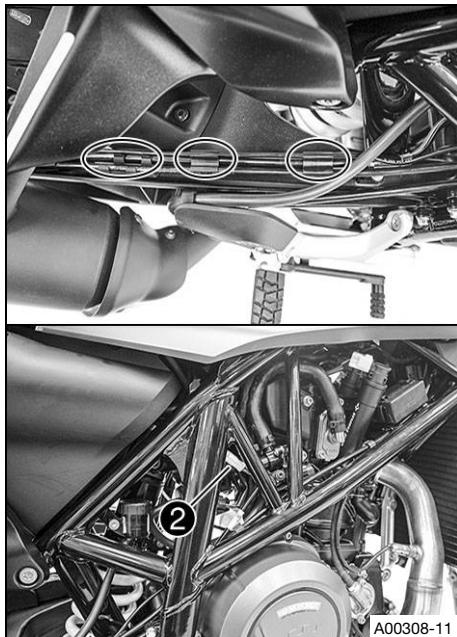


- Make sure that the chain adjuster and license plate holder are fitted correctly on the adjusting screws. Mount and tighten nut ①.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the chain adjuster and license plate holder must be in the same position relative to reference markings C.

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
-------------------------	---------	---------------------



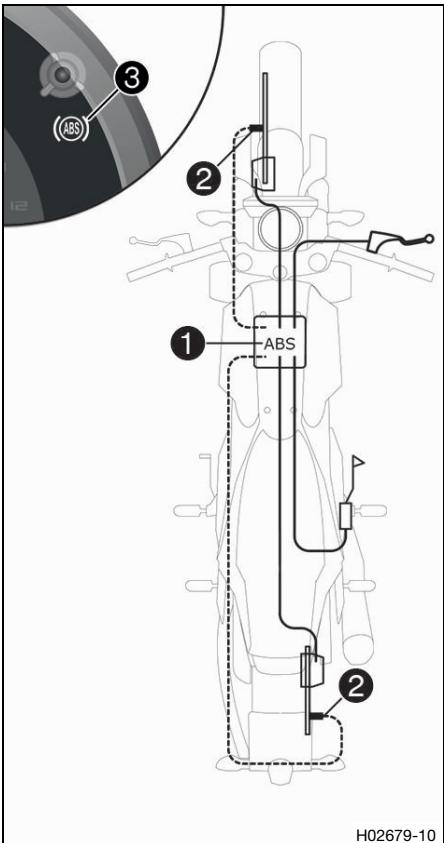
- Secure the cable in the holders.
- Join plug-in connector ②.

Finishing work

- Check the chain tension. (☞ p. 122)
- Remove the rear of the motorcycle from the lifting gear.
(☞ p. 112)



13.1 Antilock brake system (ABS)



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



Warning

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

- Only allow the rear wheel to spin with the front brake applied if the ABS is switched off (burn out).
- Do not make any changes to the suspension travel.
- Only use spare parts on the brake system which have been approved and recommended by Husqvarna Motorcycles.
- Only use tires/wheels approved by Husqvarna Motorcycles with the corresponding speed index.
- Maintain the specified tire air pressure.
- Service work and repairs must be performed properly. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

The ABS is a safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces.



Warning

Danger of accidents Driving aids can only prevent a rollover within the physical limitations.

It is not always possible to compensate for extreme 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 operates with two independent brake circuits (front and rear brakes). During normal operation, the brake system operates like a conventional brake system without ABS. 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.

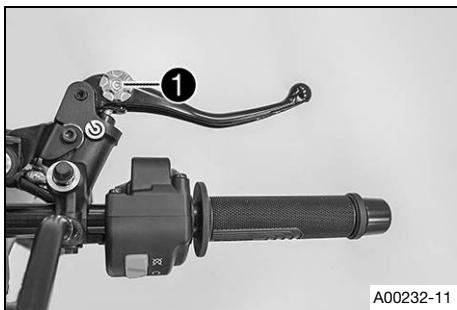
The ABS indicator lamp ③ must light up after the ignition is switched on and go out after starting off. If it does not go out after starting off or if it lights up while riding, this indicates a fault in the ABS system. In this case, the ABS is no longer enabled

and the wheels may lock during braking. The brake system itself stays functional; only ABS control is not available.

The ABS indicator 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, the vehicle must be stopped and the ignition switched off. The ABS is reactivated when the vehicle is switched on again. The ABS indicator lamp goes out when you start off.

13.2 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 ①.



Info

Push the hand brake lever forward and turn the adjusting wheel.
Do not make any adjustments while riding.

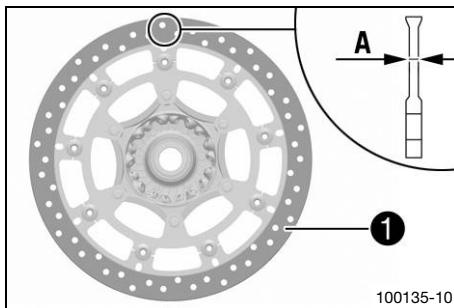
13.3 Checking the brake discs



Warning

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

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



- Check the front and rear brake disc thickness at multiple points for the dimension **A**.



Info

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

Brake discs - wear limit	
front	4.2 mm (0.165 in)
rear	4.5 mm (0.177 in)

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

- » If the brake disc exhibits damage, cracking, or deformation:
 - Change the front brake disc. 
 - Change the rear brake disc. 

13.4 Checking the front brake fluid level



Warning

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

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

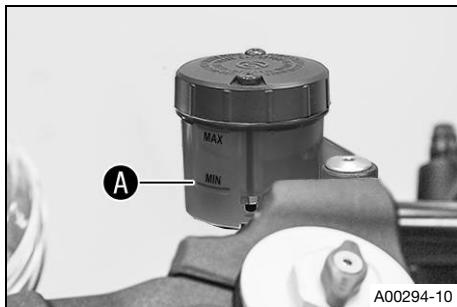
- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level of the brake fluid reservoir.
 - » If the brake fluid level has dropped below **MIN** marking **A**:
 - Add front brake fluid. ↗ (☞ p. 143)

13.5 Adding front brake fluid ↗



Warning

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

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

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



Warning

Skin irritation Brake fluid causes skin irritation.

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



Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



Note

Environmental hazard Hazardous substances cause environmental damage.

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

i **Info**

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

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

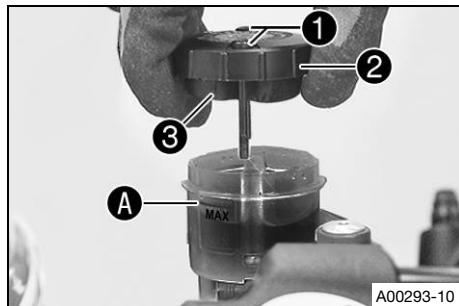
Only use clean brake fluid from a sealed container.

Preparatory work

- Check the front brake linings. (☞ p. 146)

Main work

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
 - Remove screws ①.
 - Take off cover ② with membrane ③.
 - Add brake fluid up to **MAX** marking A.
- Brake fluid DOT 4 / DOT 5.1 (☞ p. 259)
- Position cover ② with membrane ③.
 - Mount and tighten screws ①.

**Info**

Clean up overflowed or spilled brake fluid immediately with water.

13.6 Checking the front brake linings



Warning

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

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

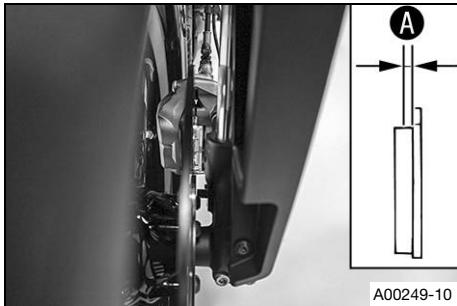


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

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

- Check the brake linings regularly.



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

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

- » If the minimum thickness is less than specified:
 - Change the front brake linings.

- Check the brake linings for damage and cracking.
 - » If there is damage or cracking:
 - Change the front brake linings.

13.7 Checking the free travel of the foot brake lever

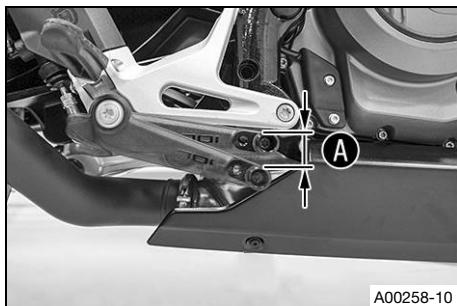


Warning

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

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

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



- Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel **A**.

Guideline

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

» If the free travel does not match the specification:

- Adjust the basic position of the foot brake lever. (☞ p. 148)



13.8 Adjusting the basic position of the foot brake lever

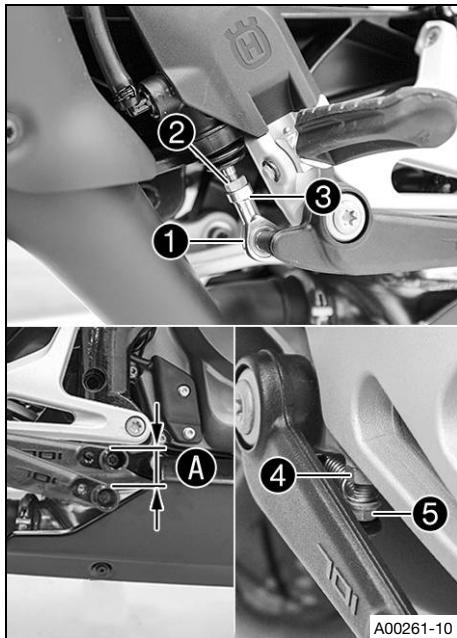


Warning

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

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

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



Main work

- Remove screw ①.
- Loosen nut ② and turn it back with ball joint ③ until the maximum amount of free travel is reached.
- To adjust the basic position of the foot brake lever to individual requirements, loosen nut ④ and turn screw ⑤ accordingly.



Info

The range of adjustment is limited.

- Turn ball joint ③ as required until the basic position is reached. Adjust the free travel A of the foot brake lever.

Guideline

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



Info

To control free travel, screw in screw ① by several rotations for the time being.

- Hold screw ⑤ and tighten nut ④.

Guideline

Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
----------------------------	----	--------------------

- Hold ball joint ③ and tighten nut ②.

Guideline

Nut, push rod, foot brake lever	M6	6 Nm (4.4 lbf ft)
------------------------------------	----	-------------------

- Mount and tighten screw ①.

Guideline

Screw, ball joint of push rod on foot brake cylin- der	M6	10 Nm (7.4 lbf ft) Loctite®243™
---	----	---

Finishing work

- Check the free travel of the foot brake lever. (☞ p. 147)



13.9 Adjusting foot brake lever stub



- Remove screw 1 and take off foot brake lever stub.
- Position foot brake lever stub at desired hole 2.

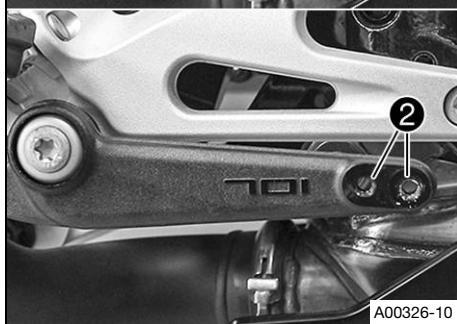
Guideline

Standard	Front hole
----------	------------

- Mount and tighten screw 1.

Guideline

Screw, foot brake lever stub	M6	10 Nm (7.4 lbf ft) Loctite®243™
---------------------------------	----	---



A00326-10



13.10 Checking rear brake fluid level



Warning

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

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

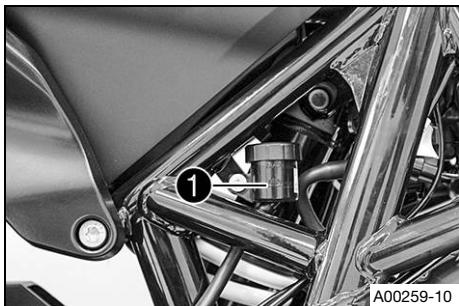
- Check the brake system and do not continue riding until the problem is eliminated. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



- Stand the vehicle upright.
- Check the brake fluid level in the brake fluid reservoir.
 - » If the fluid level reaches the **MIN** marking ①:
 - Add rear brake fluid. (p. 153)

13.11 Adding rear brake fluid



Warning

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

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

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



Warning

Skin irritation Brake fluid causes skin irritation.

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



Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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

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

Only use clean brake fluid from a sealed container.

Preparatory work

- Check the rear brake linings. (☞ p. 155)



Main work

- Stand the vehicle upright.
 - Remove screw cap 1 with insert and membrane 2.
 - Add brake fluid up to the **MAX** marking.
- Brake fluid DOT 4 / DOT 5.1 (☞ p. 259)
- Mount and tighten the screw cap with the insert and membrane.



Info

Clean up overflowed or spilled brake fluid immediately with water.

13.12 Checking the rear brake linings



Warning

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

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

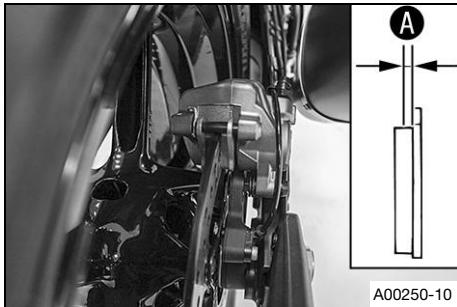


Warning

Danger of accidents Damaged brake discs reduce the braking effect.

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

- Check the brake linings regularly.



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

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

 - » If the minimum thickness is less than specified:
 - Change the rear brake linings.
- Check the brake linings for damage and cracking.
 - » If there is wear or tearing:
 - Change the rear brake linings.

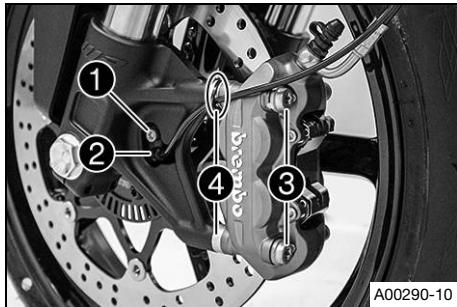
14.1 Removing the front wheel ↗

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Lift the motorcycle with the front lifting gear. (☞ p. 113)

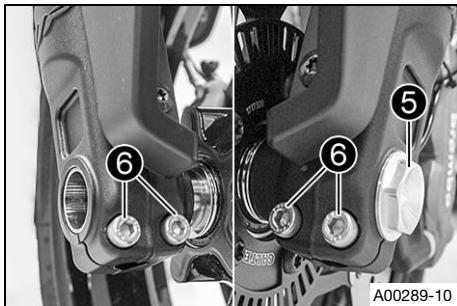
Main work

- Remove the cable tie.
- Remove screw ① and pull wheel speed sensor ② out of the hole.
- Remove screws ③ and spacers ④.
- Press back the brake linings with a light lateral tilting of the brake caliper on the brake disc. Pull the brake caliper carefully back from the brake disc and hang it to one side.



Info

Do not operate the hand brake lever when the brake caliper is removed.



- Loosen screw 5 by several rotations.
- Loosen screws 6.
- Press on screw 5 to push the wheel spindle out of the axle clamp.
- Remove screw 5.

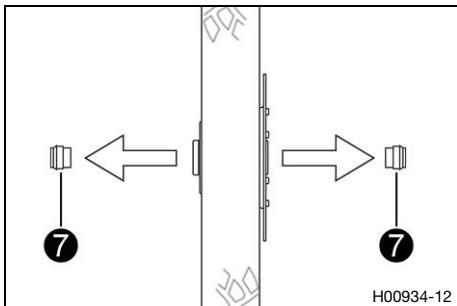


Warning

Danger of accidents Reduced braking effect caused by damaged brake discs.

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

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



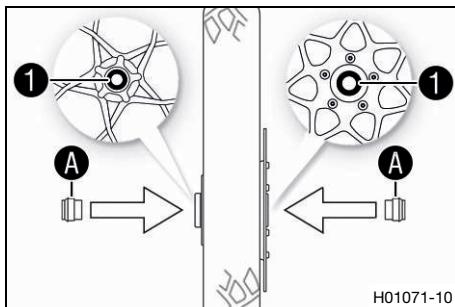
14.2 Installing the front wheel ↗



Warning

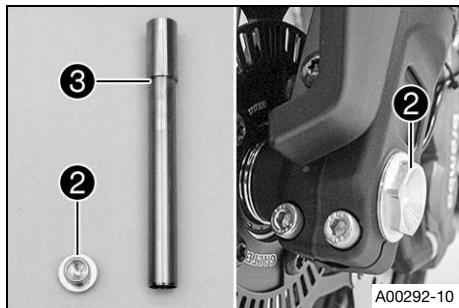
Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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



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

Long-life grease (☞ p. 262)
- Insert the spacers.



- Clean screw **2** and wheel spindle **3**.
- Grease wheel spindle lightly.
Long-life grease (☞ p. 262)
- Jack up the front wheel into the fork, position it, and insert the wheel spindle.



Info

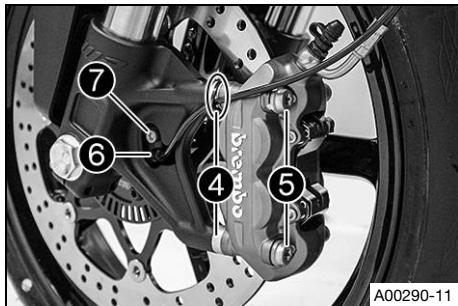
The arrow on the rim, near the hub, shows the direction of travel.

The brake disc is located on the left in the direction of travel.

- Mount and tighten screw **2**.

Guideline

Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)
----------------------------	---------	---------------------



- Position the brake caliper.
- ✓ The brake linings are correctly positioned.
- Position spacers ④. Mount screws ⑤ but do not tighten yet.

Guideline

Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft) Loctite®243™
-------------------------------	----------	--

- Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. Fix the hand brake lever in the activated position.
- ✓ The brake caliper straightens.
- Tighten screws ⑤.

Guideline

Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft) Loctite®243™
-------------------------------	----------	--

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

Guideline

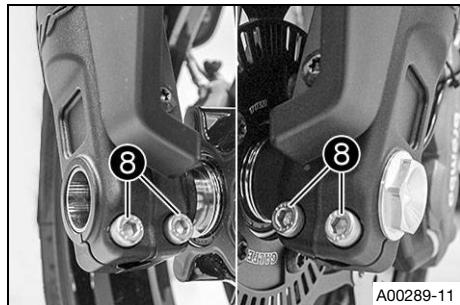
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
------------------------------	----	--------------------

- Mount new cable ties.
- Remove the locking piece of the hand brake lever.

- Take the motorcycle off the front lifting gear. (☞ p. 114)
- Remove the rear of the motorcycle from the lifting gear. (☞ p. 112)
- Operate the front brake and compress the fork a few times firmly.
 - ✓ The fork legs straighten.
- Tighten screws 8.

Guideline

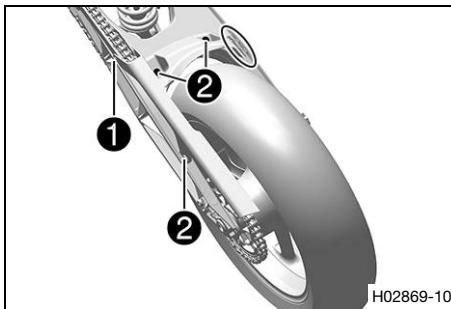
Screw, fork stub	M8	15 Nm (11.1 lbf ft)
------------------	----	---------------------



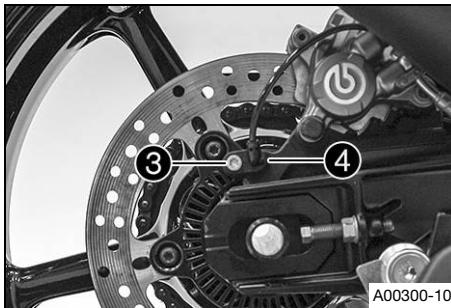
14.3 Removing the rear wheel ↗

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Remove the license plate holder. (☞ p. 134)

**Main work**

- Remove screw 1.
- Remove screws 2.
- Take the brake line and cable out of the holder.
- Take off the chain guard.



- Press the brake caliper onto the brake disc by hand in order to push back the brake piston.
- Remove screw 3 and pull wheel speed sensor 4 out of the hole.



- Pull out wheel spindle 5 far enough to allow the rear wheel to be pushed forward.



- Push the rear wheel forward as far as possible. Remove the chain from the rear sprocket.



Info

Cover the components to protect them against damage.

- Hold the rear wheel and remove the wheel spindle.



Warning

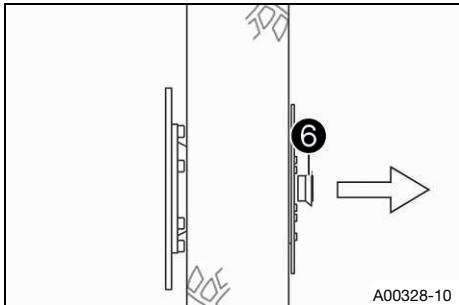
Danger of accidents Damaged brake discs reduce the braking effect.

- Always lay the wheel down in such a way that the brake disc is not damaged.
- Take the rear wheel out of the swingarm.

**Info**

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

- Remove spacer ⑥.



14.4 Installing the rear wheel ↗



Warning

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

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



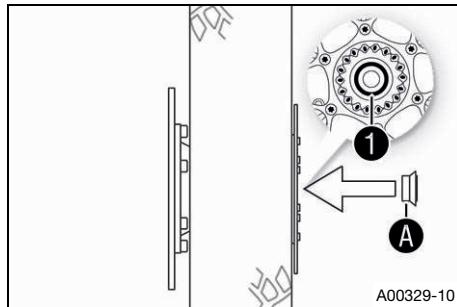
Warning

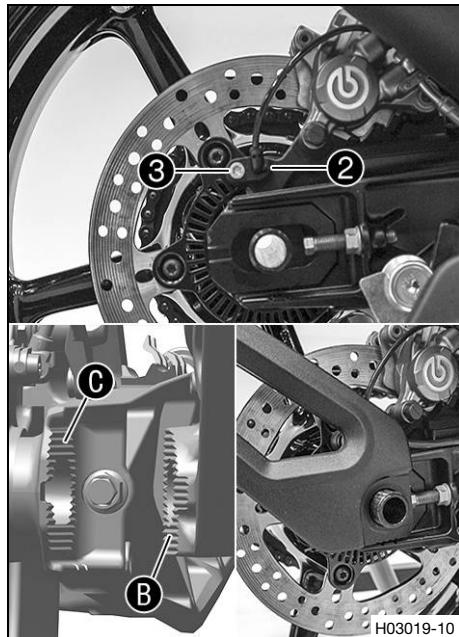
Danger of accidents There is no braking effect to start with at the rear brake after installing the rear wheel.

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

Main work

- Check the rear hub rubber dampers. (p. 170)
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing.
- Clean and grease shaft seal ring ① and contact surface A of the spacer.
Long-life grease (p. 262)
- Insert the spacer.
- Clean and grease the wheel spindle.
Long-life grease (p. 262)





- Jack up the rear wheel into the swingarm, position it, and insert the wheel spindle.
 - ✓ The brake linings are correctly positioned.
- Place the chain on the sprocket.
- Position the wheel speed sensor **2** in the drill hole.
- Mount and tighten screw **3**.

Guideline

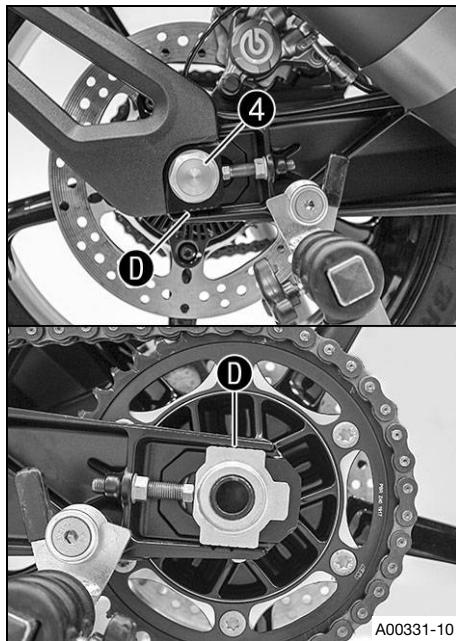
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
------------------------------	----	--------------------

- Clean gear teeth **B** and **C**.
- Position the license plate holder.
 - ✓ Gear teeth **B** and **C** are aligned with each other.



Info

Mount the left chain adjuster in the same position.



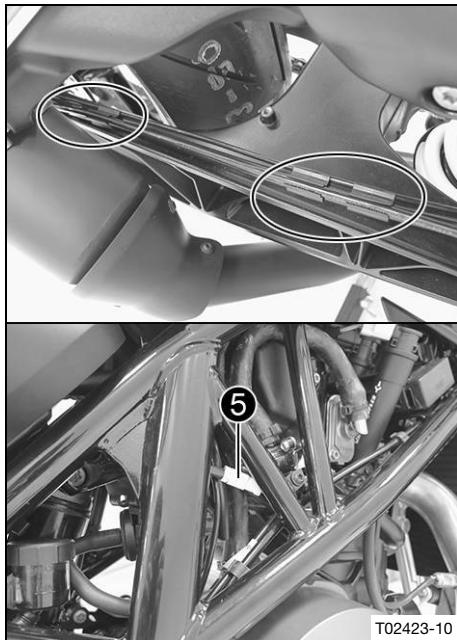
- Make sure that the chain adjuster and license plate holder are fitted correctly on the adjusting screws.
- Mount and tighten nut ④.

Guideline

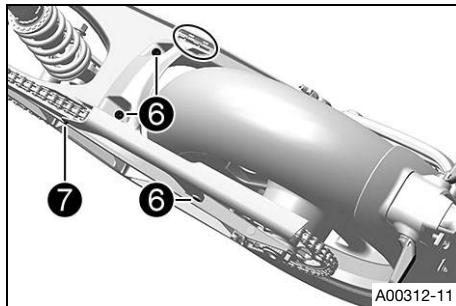
In order for the rear wheel to be correctly aligned, the markings on the chain adjuster and license plate holder must be in the same position relative to reference markings D.

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)
-------------------------	---------	---------------------

- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.



- Secure the cable in the holders.
- Join plug-in connector **5**.



- Position the chain guard.
- Mount and tighten screws **6**.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
------------------------------	----	--------------------

- Mount and tighten screw **7**.

Guideline

Screw, chain guard	EJOT	2 Nm (1.5 lbf ft)
--------------------	------	-------------------

- Secure the brake line and cable in the holder.

Finishing work

- Check the chain tension. (☞ p. 122)
- Remove the rear of the motorcycle from the lifting gear. (☞ p. 112)

14.5 Checking the rear hub rubber dampers ↗

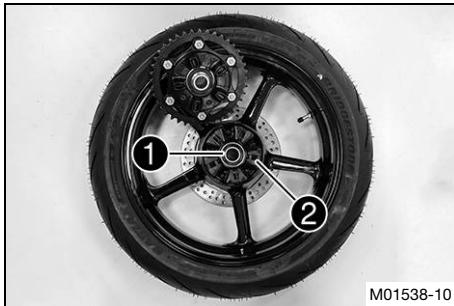


Info

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

Preparatory work

- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Remove the license plate holder. (☞ p. 134)
- Remove the rear wheel. (☞ p. 162)



Main work

- Check bearing ①.
 - » If the bearing is damaged or worn:
 - Change the bearing of the rear sprocket carrier. (☞ p. 162)
- Check rubber dampers ② of the rear hub for damage and wear.
 - » If the rubber dampers of the rear hub are damaged or worn:
 - Change all rubber dampers in the rear hub.
- Lay the rear wheel on a workbench with the rear sprocket facing upwards and insert the wheel spindle in the hub.
- To check play A, hold the rear wheel tight and try to turn the rear sprocket with your hand.



Info

Measure the play on the outside of the rear sprocket.

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

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

Finishing work

- Install the rear wheel. (p. 165)
- Check the chain tension. (p. 122)
- Remove the rear of the motorcycle from the lifting gear. (p. 112)

14.6 Checking the tire condition



Warning

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

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



Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic.

Different tire tread patterns can make the vehicle significantly more difficult to control.

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



Warning

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

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



Warning

Danger of accidents New tires have reduced road grip.

The contact surface on new tires is not yet roughened.

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

Running-in phase

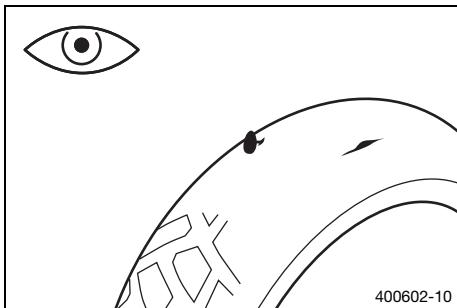
200 km (124 mi)



Info

The type, condition, and air 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, run-in objects, and other damage.
 - » If the tires have cuts, run-in objects, or other damage:
 - Change the tires. 
- Check the tread depth.

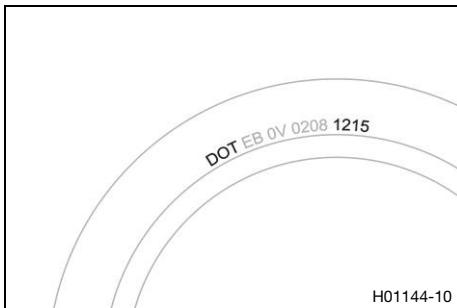


Info

Observe the minimum profile depth required by national law.

Minimum tread depth	$\geq 2 \text{ mm} (\geq 0.08 \text{ in})$
---------------------	--

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



Info

The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture.

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

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

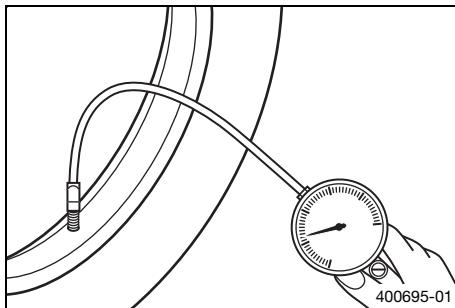
14.7 Checking the tire pressure



Info

Low tire pressure leads to abnormal wear and overheating of the tire.

Correct tire pressure ensures optimal riding comfort and maximum tire service life.



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

Tire air pressure, solo

front	2.3 bar (33 psi)
rear	2.5 bar (36 psi)

Tire air pressure with passenger / full payload

front	2.3 bar (33 psi)
rear	2.5 bar (36 psi)

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

15.1 Removing the battery



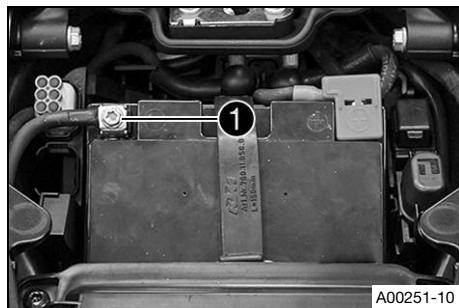
Warning

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

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

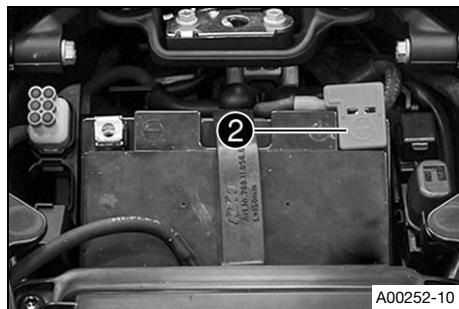
Preparatory work

- Switch off the ignition by turning the ignition key to the position .
- Remove the front rider's seat. ( p. 117)

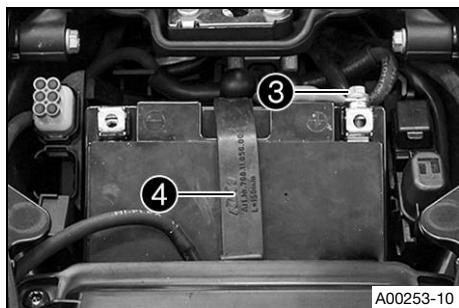


Main work

- Disconnect negative cable ① from the battery.

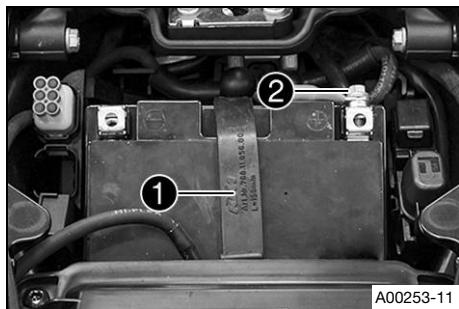


- Remove positive terminal cover ②.



- Disconnect both positive cables ③ from the battery.
- Detach rubber band ④.
- Pull the battery up and out of the battery holder.

15.2 Installing the battery ↴

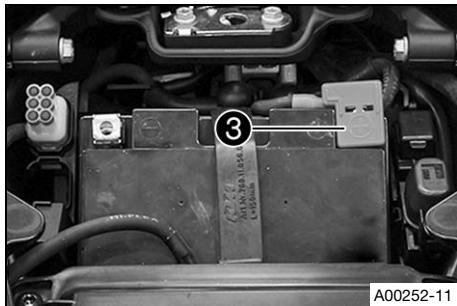


Main work

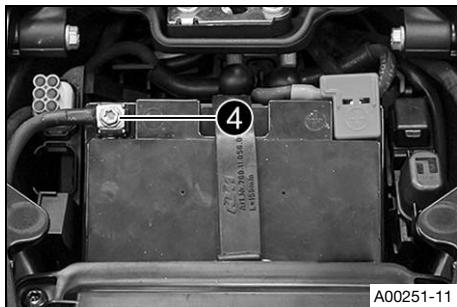
- Position the battery in the battery holder.
- Battery (HTZ12A-BS) (☞ p. 249)
- ✓ The battery terminals face opposite the direction of travel.
 - Reconnect rubber band ①.
 - Connect both positive cables ② to the battery.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
-------------------------	----	----------------------



- Mount positive terminal cover ③.



- Connect negative cable ④ to the battery.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
-------------------------	----	----------------------

Finishing work

- Mount the front rider's seat. (☞ p. 118)
- Set the clock. (☞ p. 74)



15.3 Recharging the battery ↗



Warning

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

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



Note

Environmental hazard Batteries contain environmentally-hazardous materials.

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



Note

Environmental hazard Hazardous substances cause environmental damage.

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

i Info

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

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

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

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

If the battery is depleted by repeated starting, the battery must be charged immediately.

If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfated, destroying the battery.

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

Preparatory work

- Switch off the ignition by turning the ignition key to the position .
- Remove the front rider's seat. ( p. 117)
- Disconnect the negative cable of the battery to avoid damage to the onboard electronics.

15 ELECTRICAL SYSTEM



Main work

- Connect a suitable battery charger to the battery. Switch on the battery charger.



Info

Never remove cover ①.

Charge the battery to a maximum of 10% of the capacity specified on battery housing ②.

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

Guideline

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

Charge the battery regularly when the motorcycle is not in use	3 months
--	----------

- Connect the negative cable with the battery.

Finishing work

- Mount the front rider's seat. (☞ p. 118)
- Set the clock. (☞ p. 74)

15.4 Changing the main fuse



Warning

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.



Info

The main fuse protects all power consumers of the vehicle. The main fuse is under the front rider's seat.

Preparatory work

- Switch off the ignition by turning the ignition key to the position .
- Remove the front rider's seat. ( p. 117)

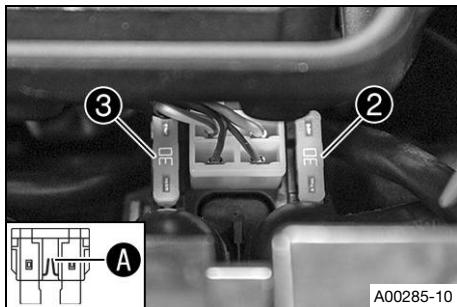
15 ELECTRICAL SYSTEM



Main work

- Remove protection caps 1.

A00286-10



- Remove faulty main fuse **2**.

**Info**

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

A spare fuse **3** is located in the starter relay.

- Install a new main fuse.

Fuse (58011109130) (☞ p. 249)

**Tip**

Insert a new spare fuse into the starter relay to have it available when needed.

15 ELECTRICAL SYSTEM



- Mount protection caps 1.

Finishing work

- Mount the front rider's seat. (☞ p. 118)
- Set the clock. (☞ p. 74)

15.5 Changing the ABS fuses



Warning

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.



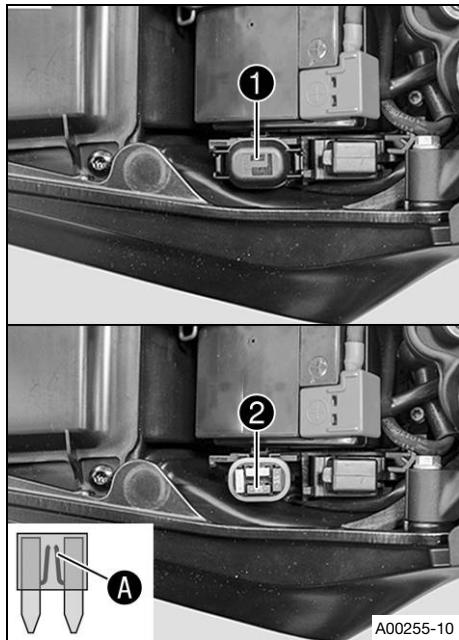
Info

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

Preparatory work

- Switch off the ignition by turning the ignition key to the position .
- Remove the front rider's seat. ( p. 117)

15 ELECTRICAL SYSTEM



To change the fuse of the ABS hydraulic unit:

- Remove the fuse box cover 1 and fuse 2.
- Insert a new fuse 2.

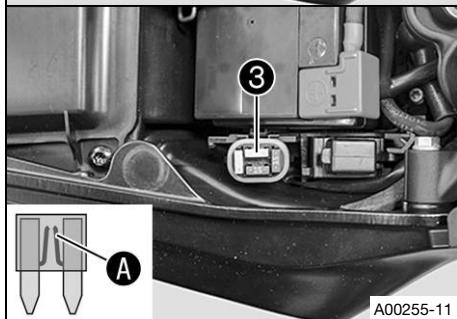
Fuse (58011109115) (☞ p. 249)



Info

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

- Mount fuse box cover.



To change the fuse of the ABS return pump:

- Remove the fuse box cover **1** and fuse **3**.
- Insert a new fuse **3**.

Fuse (58011109125) (☞ p. 249)



Info

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

- Mount fuse box cover.

Finishing work

- Mount the front rider's seat. (☞ p. 118)



15.6 Changing the fuses of individual power consumers



Info

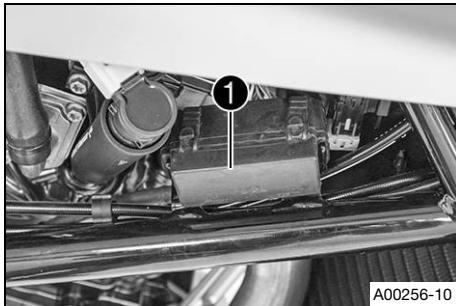
The fuse box containing the fuses of individual power consumers is located on the right under the fuel tank.

Preparatory work

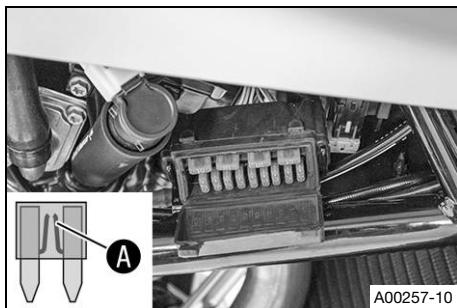
- Switch off the ignition by turning the ignition key to the position \otimes .

Main work

- Open fuse box cover 1.



A00256-10



- Remove the faulty fuse.

Guideline

Fuse **1** - 10 A - immobilizer, alarm system (optional), ignition switch, combination instrument, light relay

Fuse **2** - 10 A - engine electronics control unit, ignition coils, evaporate emission control system, injection valve, secondary air system, lambda sensor heater

Fuse **3** - 10 A - fuel pump

Fuse **4** - 10 A - radiator fan

Fuse **5** - 10 A - horn, brake light, turn signal

Fuse **6** - 10 A - high beam, low beam, position light, tail light, license plate lamp

Fuse **7** - 10 A - permanent positive for auxiliary equipment (ACC1)

Fuse **8** - 10 A - positive connected with ignition for auxiliary equipment (ACC2), USB socket

Fuse **9** - 10 A - ABS control unit, diagnostics connector, combination instrument, headlight control unit

Fuse **10** - not assigned

Fuse **SPARE** - 10 A - spare fuse



Info

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



Warning

Fire hazard Incorrect fuses overload the electrical system.

- Only use fuses with the required ampere value.
- Do not bypass or repair fuses.

- Insert spare fuses with the correct rating only.

Fuse (75011088010) (☞ p. 250)



Tip

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

- Check that the power consumer is functioning properly.
- Close the fuse box cover.



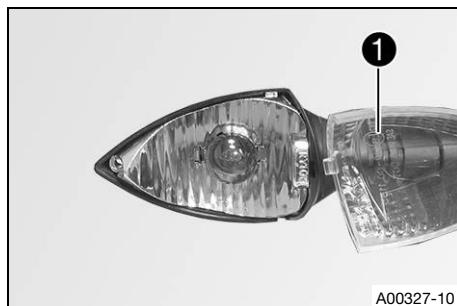
15.7 Changing the turn signal bulb

Note

Damage to reflector Grease on the reflector reduces the brightness.

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

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



- Remove the screw on the rear of the turn signal housing.
- Remove turn signal glass 1.
- Press the bulb carefully into the socket, turn it counterclockwise by about 30°, and pull it out of the socket.



Info

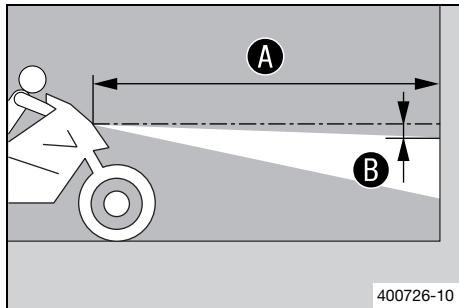
Do not touch the reflector with your fingers and keep it free from grease.

- Lightly push the new lamp into the socket and turn all the way clockwise.
- Position the turn signal glass.

Turn signal (RY10W / socket BAU15s) (☞ p. 250)

- Insert the screw and first turn counterclockwise until it engages in the thread with a small jerk. Tighten the screw lightly.
- Check that the turn signal system is functioning properly.

15.8 Checking the headlight setting



- Position the vehicle upright on a horizontal surface in front of a light wall and make a marking at the height of the center of the low beam headlight.
- Make another mark at a distance **B** under the first marking.
Guideline

Distance B	5 cm (2 in)
-------------------	-------------
- Position the vehicle perpendicular to the wall at a distance **A** from the wall and switch on the low beam.
Guideline

Distance A	5 m (16 ft)
-------------------	-------------
- The rider now mounts the motorcycle with luggage and passenger if applicable.
- Check the headlight setting.

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

- » If the light-dark border does not meet specifications:
 - Adjust the headlight range. (☞ p. 195)

15.9 Adjusting the headlight range

Preparatory work

- Check the headlight setting. (☞ p. 194)

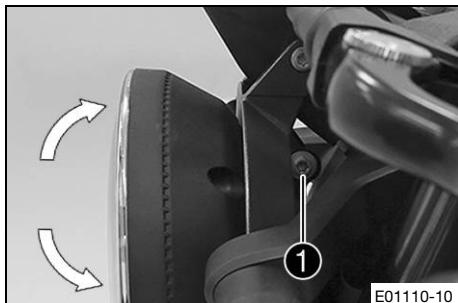
Main work

- Loosen screw ①.
- To set the headlight range of the headlight, swivel the headlight upwards or downwards.

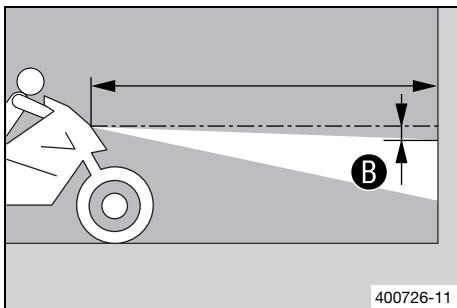


Info

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.



E01110-10



400726-11

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

Guideline

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

- Tighten screw **1**.



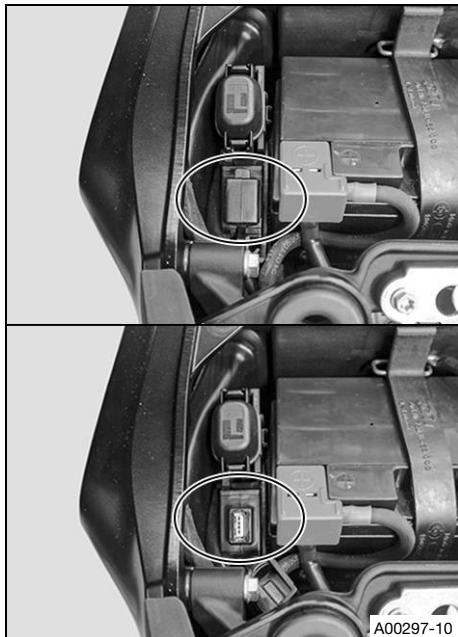
Info

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

15.10 Connecting the USB cable

Preliminary work

- Remove the front rider's seat. (☞ p. 117)



Main work

- Take off the covering cap.
- Connect a suitable USB cable to the USB socket.



Info

The USB socket is only used for the power supply and cannot be used for transferring data.

Depending on the size of the device, an angled plug is advantageous.

Always secure stowed objects additionally against moisture.

Stow cables so that no damage can result.

Final steps

- Mount the front rider's seat. (☞ p. 118)

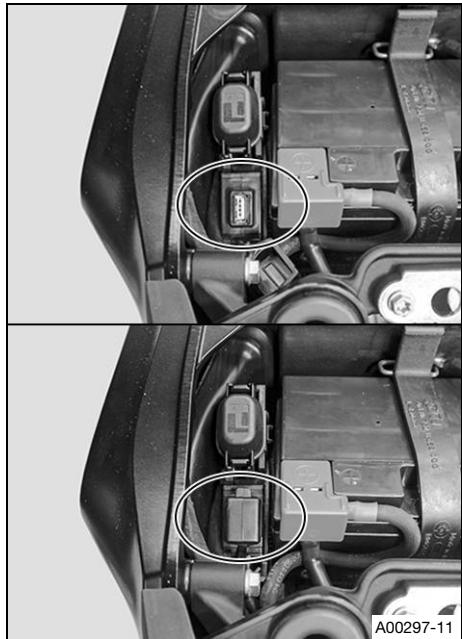


15 ELECTRICAL SYSTEM

15.11 Disconnecting the USB cable

Preliminary work

- Remove the front rider's seat. (☞ p. 117)

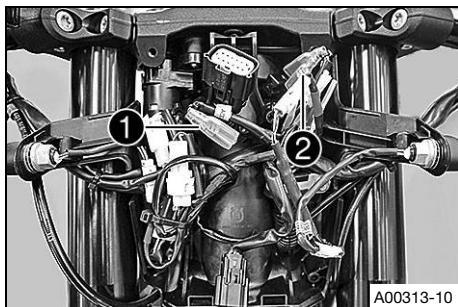


Main work

- Disconnect USB cable from the USB socket.
- Attach the covering cap.

Final steps

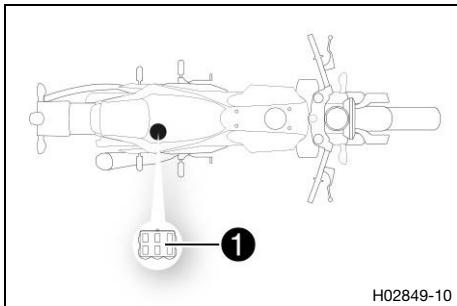
- Mount the front rider's seat. (☞ p. 118)

**15.12 Front ACC1 and ACC2****Installation location**

- The front power supplies ACC1 ① and ACC2 ② are located under the cover in front of the steering stem behind the headlight.

15 ELECTRICAL SYSTEM

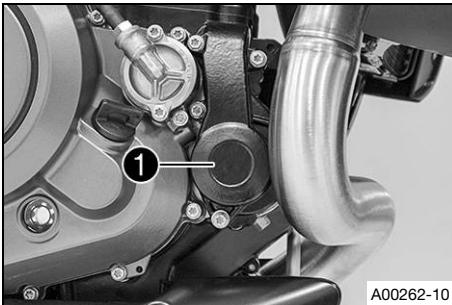
15.13 Diagnostics connector



Diagnostics connector **1** is located under the seat.

H02849-10

16.1 Cooling system

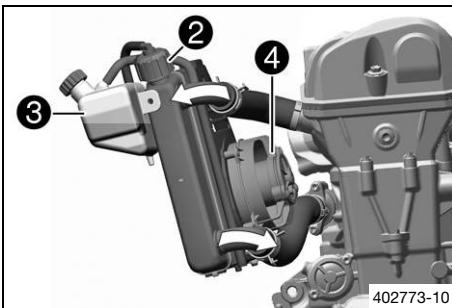


A00262-10

Water pump 1 in the engine ensures forced circulation of the coolant.

The pressure resulting from the warming of the cooling system is regulated by a valve in radiator cap 2. Heat expansion causes excess coolant to flow into compensating tank 3. When the temperature falls, this surplus coolant is sucked back into the cooling system. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

115 °C (239 °F)



402773-10

The coolant is cooled by the air stream and a radiator fan 4, which is activated at high temperature.

The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect.

16.2 Checking the antifreeze and coolant level



Warning

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

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



Warning

Danger of poisoning Coolant is toxic and a health hazard.

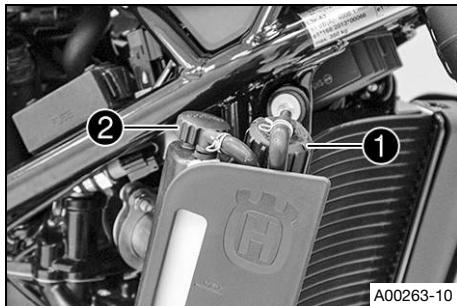
- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly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

Condition

The engine is cold.

Preparatory work

- Stand the motorcycle upright on a horizontal surface.



Main work

- Remove radiator cap ① and cap ② of the compensating tank.
- Check the antifreeze in the coolant.

Antifreeze	-25 ... -45 °C (-13 ... -49 °F)
------------	------------------------------------

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

- Check the coolant level in the compensating tank.

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

- » If the coolant level in the compensating tank is not at the required level, but the tank is not empty:
 - Replenish coolant up to a level between the **MIN** and **MAX** markings.

Coolant (☞ p. 259)

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



Info

Do not start up the motorcycle!

- Fill/bleed the cooling system.  p. 208
- Mount cap ② of the compensating tank.
- Check the coolant level in the radiator.

The radiator must be filled completely.

- » If the coolant level does not match the specified value:
 - Check the coolant level and the reason for the loss.
- » If you had to add more coolant than the specified amount:
 > 0.50 l (> 0.53 qt.)
 - Fill/bleed the cooling system.  p. 208
- Mount radiator cap ①.

16.3 Checking the coolant level in the compensating tank



Warning

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

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



Warning

Danger of poisoning Coolant is toxic and a health hazard.

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

Condition

The engine is cold.

The radiator is completely full.

Preparatory work

- Park the motorcycle on a horizontal surface.

Main work

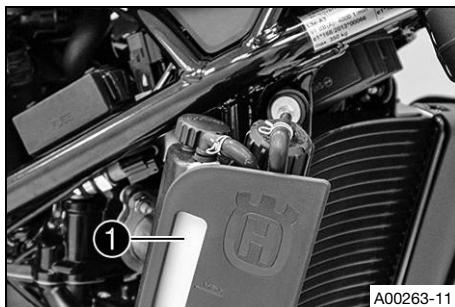
- Check the coolant level in compensating tank ①.

The coolant level must be at the **MIN** marking.

- » If the coolant in the compensating tank is not at the required level, but the tank is not empty:
 - Remove the cap of the compensating tank.
 - Add coolant to the **MIN** marking.

Coolant (☞ p. 259)

- Mount the cap of the compensating tank.



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



Info

Do not start up the motorcycle!

- Fill/bleed the cooling system.  ( p. 208)



16.4 Draining the coolant



Warning

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

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



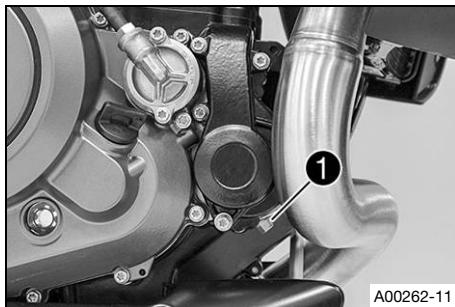
Warning

Danger of poisoning Coolant is toxic and a health hazard.

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

Condition

The engine is cold.



A00262-11

- Position the motorcycle upright.
- Place a suitable container under the engine.
- Remove screw 1.
- Remove the radiator cap.
- Completely drain the coolant.
- Mount and tighten screw 1 with a new seal ring.

Guideline

Plug, drain hole of water pump	M10x1	15 Nm (11.1 lbf ft)
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- Mount the radiator cap.



16.5 Filling/bleeding the cooling system ↗



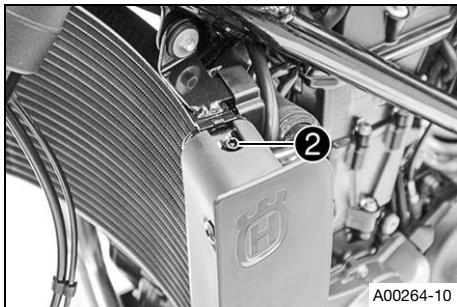
Warning

Danger of poisoning Coolant is toxic and a health hazard.

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



- Remove radiator cap 1.



- Remove bleeder screw ②.
 - Tilt the vehicle slightly to the right.
 - Pour in coolant until it emerges without bubbles at the vent hole, and then mount and tighten bleeder screw ② immediately.
- | | | |
|---------|----------------------|--------------------|
| Coolant | 1.20 l
(1.27 qt.) | Coolant (☞ p. 259) |
|---------|----------------------|--------------------|
- Completely fill the radiator with coolant. Mount radiator cap ①.
 - Rest the vehicle on the side stand.
 - Check the coolant level in the compensating tank. (☞ p. 204)



Danger

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

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

- Start the engine and run it until the fourth bar of the temperature indicator lights 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.
- Check the coolant level in the compensating tank. (☞ p. 204)



16.6 Changing the coolant ↗



Warning

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

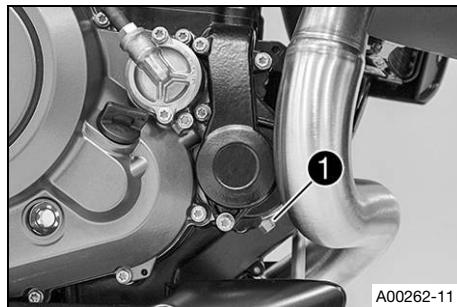
- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses or other components of the cooling system.
- In the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



Warning

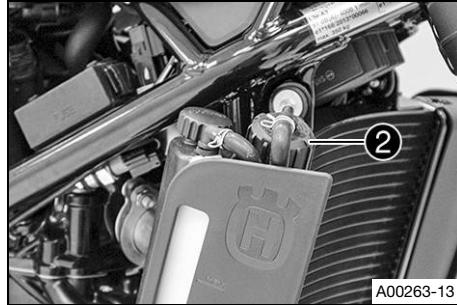
Danger of poisoning Coolant is toxic and a health hazard.

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



A00262-11

- Position the motorcycle upright.
- Place a suitable container under the engine.
- Remove screw 1.

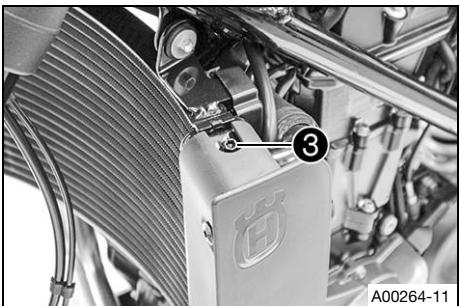


A00263-13

- Remove radiator cap 2.
- Completely drain the coolant.
- Mount and tighten screw 1 with a new seal ring.

Guideline

Plug, drain hole of water pump	M10x1	15 Nm (11.1 lbf ft)
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- Remove bleeder screw **3**.
- Tilt the vehicle slightly to the right.
- Pour in coolant until it emerges without bubbles at the vent hole, and then mount and tighten bleeder screw **3** immediately.

Coolant	1.20 l (1.27 qt.)	Coolant (p. 259)
---------	----------------------	------------------

- Completely fill the radiator with coolant. Mount radiator cap **2**.
- Rest the vehicle on the side stand.



Danger

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

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

- Start the engine and run it until the fourth bar of the temperature indicator lights up.
- Stop the engine and allow it to cool down.

- After the engine has cooled down, check the coolant level in the radiator and in the compensating tank again and add more coolant if necessary.



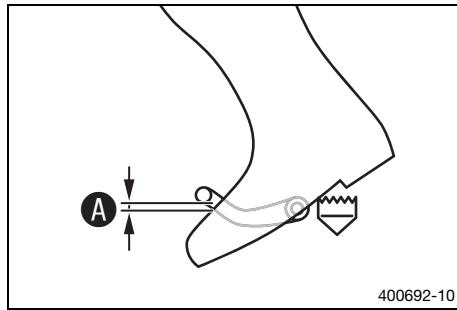
17.1 Checking the basic position of the shift lever



Info

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

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

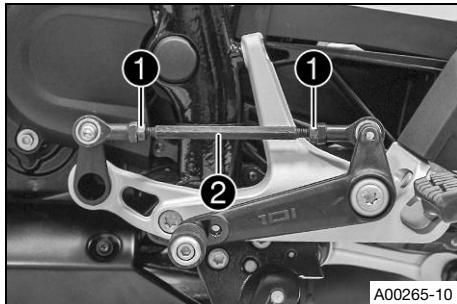


- Sit on the vehicle in the riding position and determine distance **A** between the upper edge of your boot and the shift lever.

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

- » If the distance does not meet specifications:
 - Set the basic position of the shift lever. (p. 215)

17.2 Adjusting the basic position of the shift lever ↗



- Loosen nuts ①.
- Adjust the shift lever by turning shift rod ②.



Info

Make equal adjustments on both sides.

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

- Tighten nuts ①.

Guideline

Nut, shift rod	M6	6 Nm (4.4 lbf ft)
Nut, shift rod	M6LH	6 Nm (4.4 lbf ft)



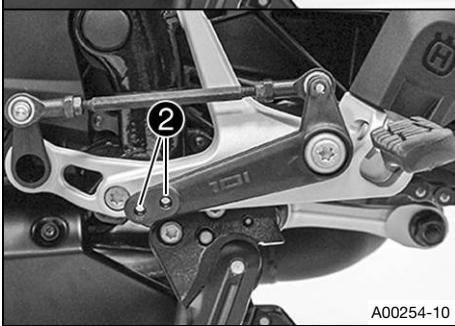
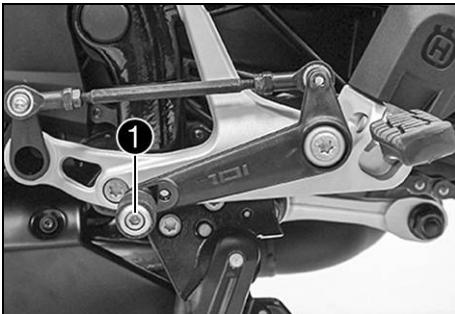
Info

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.



17.3 Setting the shift lever stub



A00254-10

- Remove screw 1 along with the shift lever stub.
- Position the shift lever stub with the screw in the drill hole 2 depending on the desired lever length.

Guideline

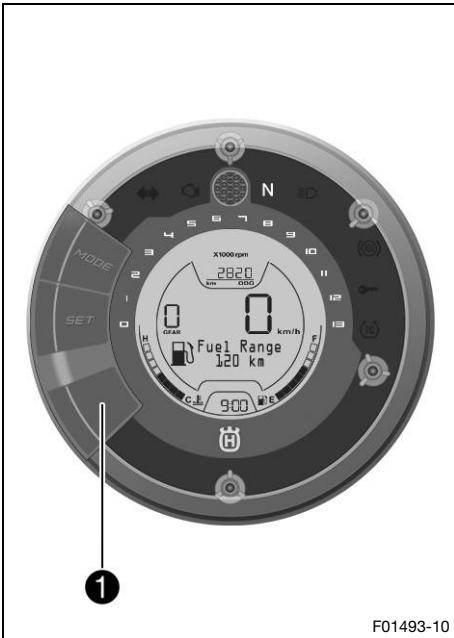
Standard	Front hole
----------	------------

- Tighten the screw.

Guideline

Screw, shift lever stub	M6	10 Nm (7.4 lbf ft) Loctite®243™
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17.4 Motorcycle traction control (MTC)



The motorcycle traction control (MTC) lowers the engine torque in case of loss of traction in the rear wheel.



Info

When motorcycle traction control is switched off, the rear wheel may spin during strong acceleration and on surfaces with low grip, resulting in a risk of crashing. After the ignition is switched on, motorcycle traction control is enabled again.

In the combination instrument, press and hold the ① button to switch off motorcycle traction control.



Info

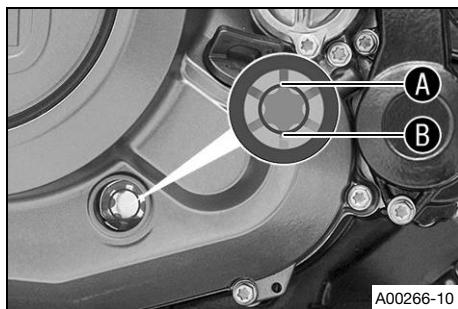
When the motorcycle traction control is active, the TC indicator lamp flashes. When motorcycle traction control is switched off, the TC indicator lamp lights up.

18.1 Checking the engine oil level



Info

The engine oil level must be checked at normal engine operating temperature.



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



Info

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

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

- » If the engine oil level is below the marking **B**:
 - Add engine oil. (☞ p. 225)
- » If the engine oil level is above the marking **A**:
 - Correct engine oil level.

18.2 Changing the engine oil and oil filter, cleaning the oil screens



Warning

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

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



Note

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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



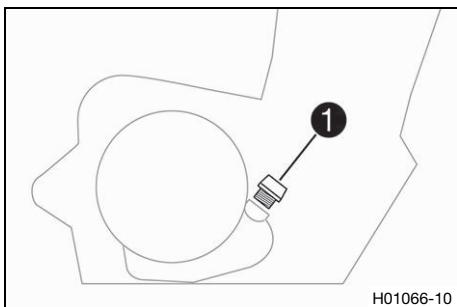
Tip

To avoid contaminating the presilencer, use a heat-resistant shaping funnel or another suitable tool.

Preparatory work

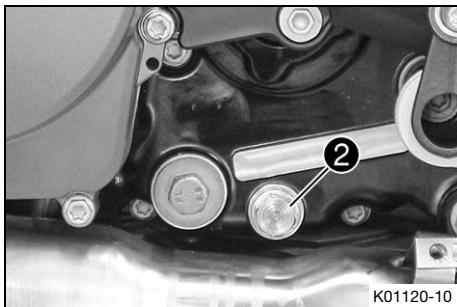
- Remove the front spoiler. (☞ p. 132)

18 SERVICE WORK ON THE ENGINE



Main work

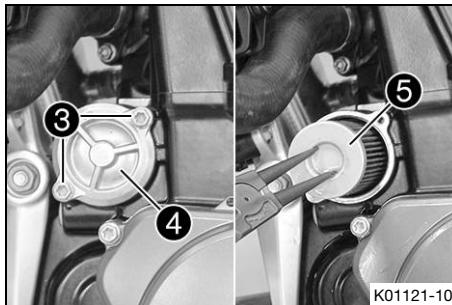
- Rest the motorcycle on its side stand on a horizontal surface.
- Place a suitable container under the engine.
- Remove oil filler plug **1** with the O-ring from the clutch cover.



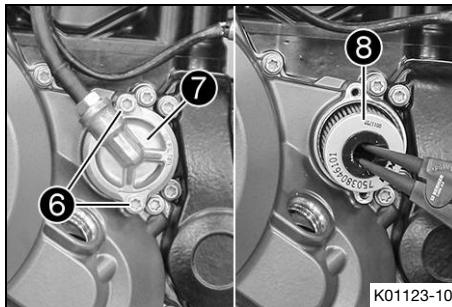
- Remove oil drain plug **2** with the magnet and seal ring.
- Completely drain the engine oil.
- Thoroughly clean the oil drain plug with magnet.
- Mount and tighten the oil drain plug with the magnet and a new seal ring.

Guideline

Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)
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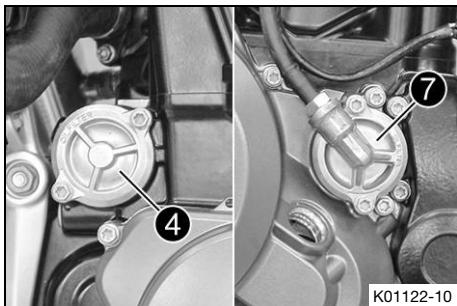


- Remove screws **3**. Take off oil filter cover **4** with the O-ring.
- Pull oil filter **5** out of the oil filter housing.
Lock ring plier (51012011000)
- Thoroughly clean the parts and sealing surface.



- Remove screws **6**. Take off oil filter cover **7** with the O-ring.
- Pull oil filter **8** out of the oil filter housing.
Lock ring plier (51012011000)
- Completely drain the engine oil.
- Thoroughly clean the parts and sealing surface.

18 SERVICE WORK ON THE ENGINE



- Insert the new oil filter.



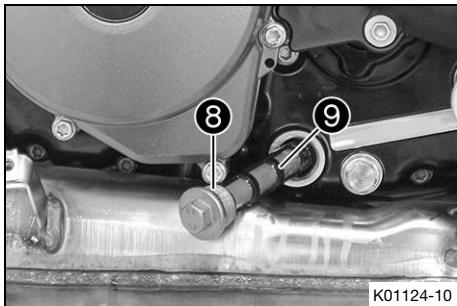
Info

Only insert the oil filters by hand.

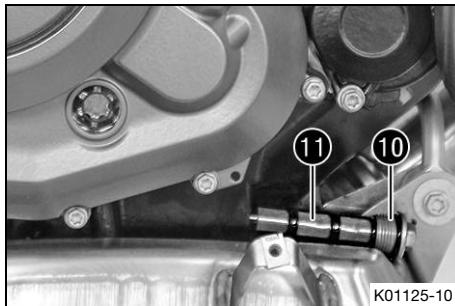
- Oil the O-rings of the oil filter covers. Position oil filter cover 4 and 7.
- Mount and tighten the screws.

Guideline

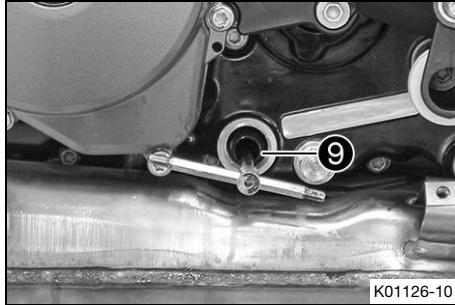
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
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- Remove screw plug 8 with oil screen 9 and the O-rings.
- Completely drain the remaining engine oil.
- Thoroughly clean the parts and sealing surface.

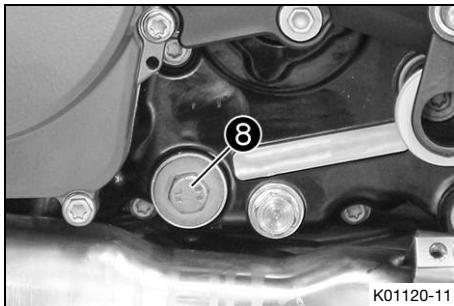


- Remove screw plug 10 with oil screen 11 and the O-rings.
- Completely drain the remaining engine oil.
- Thoroughly clean the parts and sealing surface.



- Position oil screen 9 with the O-rings on a pin wrench.
- Position the pin wrench through the drill hole of the screw plug in the opposite section of the engine case.
- Push the oil screen all the way into the engine case.

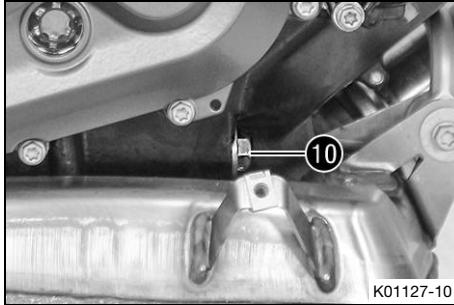
18 SERVICE WORK ON THE ENGINE



K01120-11

- Mount and tighten screw plug **8** with the O-ring.
Guideline

Plug, oil screen	M20x1.5	15 Nm (11.1 lbf ft)
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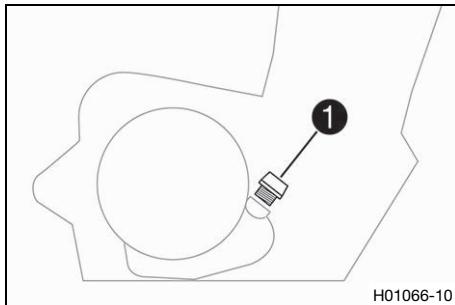
K01127-10

- Position the oil screen with the O-rings.
- Mount and tighten screw plug **10** with the O-ring.
Guideline

Plug, oil screen	M20x1.5	15 Nm (11.1 lbf ft)
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- Fill up with engine oil at the clutch cover.

Engine oil	1.70 l (1.8 qt.)	Engine oil (SAE 10W/50) <small>(☞ p. 260)</small>
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- Mount and tighten oil filler plug 1 with the O-ring.



Danger

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

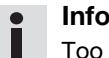
- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.

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

Finishing work

- Check the engine oil level. (☞ p. 218)
- Fit the front spoiler. (☞ p. 133)

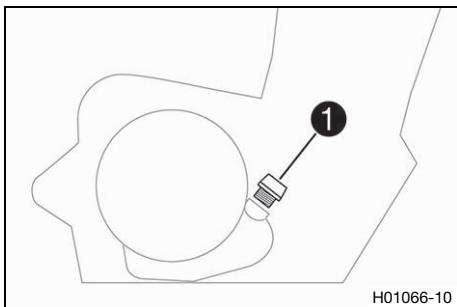
18.3 Adding engine oil



Info

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

18 SERVICE WORK ON THE ENGINE



Main work

- Remove filler plug 1 from the clutch cover together with the O-ring, and fill up with engine oil.

Engine oil (SAE 10W/50) (☞ p. 260)



Info

In order to achieve optimal engine performance, it is not advisable to mix different engine oils.
We recommend changing the engine oil when necessary.

- Mount and tighten oil filler plug 1 with the O-ring.



Danger

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

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

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

Finishing work

- Check the engine oil level. (☞ p. 218)



19.1 Cleaning the motorcycle

Note

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

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

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

Minimum clearance

60 cm (23.6 in)



Note

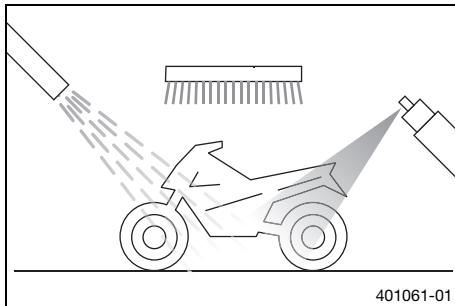
Environmental hazard Hazardous substances cause environmental damage.

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



Info

If you clean the motorcycle regularly, its value and appearance will be maintained over a long period. Avoid direct sunshine on the motorcycle during cleaning.



- Seal the exhaust system to keep water out.
- First remove coarse dirt particles with a gentle spray of water.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a brush.

Motorcycle cleaner (☞ p. 262)



Info

Use warm water containing normal motorcycle cleaner and a soft sponge. Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first. If the vehicle was operated in road salt, clean it with cold water. Warm water enhances the corrosive effects of salt.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the closure of the exhaust system.



Warning

Danger of accidents Moisture and dirt impair the brake system.

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

- After cleaning, ride the vehicle a short distance until the engine warms up.



Info

The heat produced causes water at inaccessible locations in the engine and on the brake system to evaporate.

- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (☞ p. 120)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Preserving materials for paints, metal and rubber
(☞ p. 263)

- Treat all painted parts with a mild paint polish.

Perfect Finish and high gloss polish for paints (☞ p. 262)



Info

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

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

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (☞ p. 263)

- Lubricate the ignition/steering lock.

Universal oil spray (☞ p. 263)

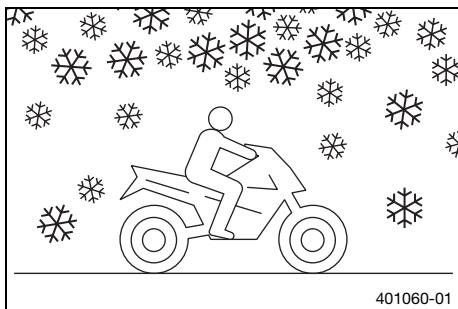
19.2 Checks and maintenance steps for winter operation



Info

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

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



- Clean the motorcycle. (☞ p. 228)
- Clean the brake system.



Info

After **EVERY** trip on salted roads, thoroughly wash the brake calipers and brake linings with cold water and dry carefully. This should be done after the parts are cooled down and while they are installed.
After use on salted roads, clean the motorcycle thoroughly with cold water and dry it properly.

-
- Treat the engine, the swingarm, and all other bare or galvanized parts (except brake discs) with a wax-based anti-corrosion substance.



Info

To prevent serious reduction of the braking efficiency, make sure no anti-corrosion substance gets on to the brake discs.

-
- Clean the chain. (☞ p. 120)



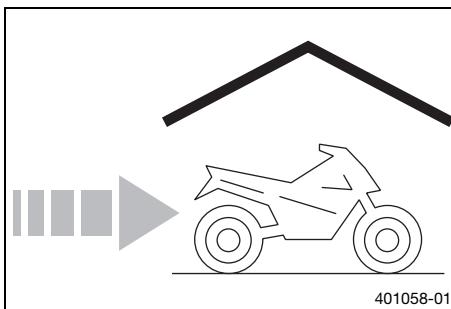
20.1 Storage



Info

If the motorcycle is not being used for an extended length of time, additional measures are recommended.

Before storing the motorcycle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (less workshop overload). This allows you to avoid long waiting periods when the next season starts.



401058-01

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

Fuel additive (☞ p. 262)
- Refuel. (☞ p. 100)
- Clean the motorcycle. (☞ p. 228)
- Change the engine oil and oil filter and clean the oil screens. 🚧 (☞ p. 219)
- Check the antifreeze and coolant level. (☞ p. 202)
- Check the tire pressure. (☞ p. 175)
- Remove the battery. 🚧 (☞ p. 176)
- Recharge the battery. 🚧 (☞ p. 180)

Guideline

Storage temperature of battery without direct sunshine	0 ... 35 °C (32 ... 95 °F)
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- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.



Info

Husqvarna Motorcycles recommends raising the motorcycle.

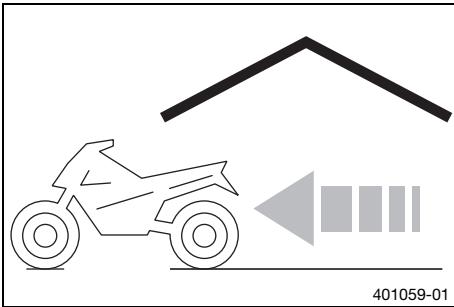
- Raise the motorcycle with the rear lifting gear. (☞ p. 112)
- Lift the motorcycle with the front lifting gear. (☞ p. 113)
- Cover the vehicle with a tarp or similar cover that is permeable to air.



Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion. Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and the exhaust system to rust.

20.2 Preparing for use after storage



- Take the motorcycle off the front lifting gear. (☞ p. 114)
- Remove the rear of the motorcycle from the lifting gear. (☞ p. 112)
- Recharge the battery. (☞ p. 180)
- Install the battery. (☞ p. 178)
- Set the clock. (☞ p. 74)
- Perform checks and maintenance measures when preparing for use. (☞ p. 83)
- Take a test ride.



21 TROUBLESHOOTING

Faults	Possible cause	Action
Engine does not crank when the electric starter button is pressed	Operating error	<ul style="list-style-type: none">– Carry out the start procedure. (☞ p. 84)
	The battery is discharged	<ul style="list-style-type: none">– Recharge the battery. ↗ (☞ p. 180)– Check the open-circuit current. ↗
	Fuse 1, 2 or 3 blown	<ul style="list-style-type: none">– Change the fuses of individual power consumers. (☞ p. 190)
	Main fuse burned out	<ul style="list-style-type: none">– Change the main fuse. (☞ p. 183)
	No ground connection present	<ul style="list-style-type: none">– Check the ground connection.
Engine turns only if the clutch lever is drawn	The vehicle is in gear	<ul style="list-style-type: none">– Shift gear to neutral.
	The vehicle is in gear and the side stand is folded out	<ul style="list-style-type: none">– Shift gear to neutral.
Engine turns but does not start	Operating error	<ul style="list-style-type: none">– Carry out the start procedure. (☞ p. 84)
	Fuse 3 blown	<ul style="list-style-type: none">– Change the fuses of individual power consumers. (☞ p. 190)
	The plug-in connection of the fuel hose connection is not connected	<ul style="list-style-type: none">– Connect the plug-in connection of the fuel line.
	Defect in fuel injection system	<ul style="list-style-type: none">– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. ↗

Faults	Possible cause	Action
Engine turns but does not start	Throttle opened while starting	<ul style="list-style-type: none"> - When starting, DO NOT open the throttle. - Carry out the start procedure. (☞ p. 84)
Engine has too little power	Air filter is very dirty	<ul style="list-style-type: none"> - Remove the air filter. ↗ - Install the air filter. ↗
	Fuel filter is very dirty	<ul style="list-style-type: none"> - Check the fuel pressure. ↗
	Defect in fuel injection system	<ul style="list-style-type: none"> - Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. ↗
Engine overheats	Too little coolant in cooling system	<ul style="list-style-type: none"> - Check the cooling system for leakage. - Check the coolant level in the compensating tank. (☞ p. 204)
	Radiator fins very dirty	<ul style="list-style-type: none"> - Clean radiator fins.
	Foam formation in cooling system	<ul style="list-style-type: none"> - Drain the coolant. ↗ (☞ p. 206) - Fill/bleed the cooling system. ↗ (☞ p. 208)
	Buckled or damaged radiator hose	<ul style="list-style-type: none"> - Change the radiator hose. ↗
	Thermostat is faulty	<ul style="list-style-type: none"> - Check the thermostat. ↗
	Fuse 4 blown	<ul style="list-style-type: none"> - Change the fuses of individual power consumers. (☞ p. 190)

21 TROUBLESHOOTING

Faults	Possible cause	Action
Engine overheats	Defect in radiator fan system	<ul style="list-style-type: none">– Check the radiator fan system.
Malfunction indicator lamp lights up or flashes	Defect in fuel injection system	<ul style="list-style-type: none">– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool.
N The idling speed indicator lamp does not light up when the transmission is idle	Gear position sensor not programmed	<ul style="list-style-type: none">– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool.
Engine dies during the trip	Lack of fuel	<ul style="list-style-type: none">– Refuel. (☞ p. 100)
	Fuse 1 , 2 or 3 blown	<ul style="list-style-type: none">– Change the fuses of individual power consumers. (☞ p. 190)
ABS indicator lamp lights up	ABS fuse is blown	<ul style="list-style-type: none">– Change the ABS fuses. (☞ p. 187)
	Large difference in wheel speeds of the front and rear wheels	<ul style="list-style-type: none">– Stop the vehicle, switch off the ignition, and start it again.
	Malfunction in ABS	<ul style="list-style-type: none">– Read out the ABS fault memory using the Husqvarna Motorcycles diagnostics tool.
High oil consumption	Engine vent hose bent	<ul style="list-style-type: none">– Route the vent hose without bends or change it if necessary.
	Engine oil level too high	<ul style="list-style-type: none">– Check the engine oil level. (☞ p. 218)
	Engine oil too thin (low viscosity)	<ul style="list-style-type: none">– Change the engine oil and oil filter and clean the oil screens. (☞ p. 219)

Faults	Possible cause	Action
Headlight and parking light are not functioning	Fuse 6 blown	<ul style="list-style-type: none">- Change the fuses of individual power consumers. (☞ p. 190)
Turn signal, brake light, and horn are not functional	Fuse 5 blown	<ul style="list-style-type: none">- Change the fuses of individual power consumers. (☞ p. 190)
Time is not (correctly) displayed	Fuse 1 blown	<ul style="list-style-type: none">- Change the fuses of individual power consumers. (☞ p. 190)- Set the clock. (☞ p. 74)
Battery discharged	Ignition not switched off when vehicle was parked	<ul style="list-style-type: none">- Recharge the battery. ↗ (☞ p. 180)
	Battery is not charged by alternator	<ul style="list-style-type: none">- Check the charging voltage. ↗- Check the open-circuit current. ↗
Combination instrument shows nothing on the display	Fuse 1 or 2 blown	<ul style="list-style-type: none">- Change the fuses of individual power consumers. (☞ p. 190)- Set the clock. (☞ p. 74)

22.1 engine

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	692.7 cm ³ (42.271 cu in)
Stroke	80 mm (3.15 in)
Bore	105 mm (4.13 in)
Compression ratio	12.7:1
Control	OHC, intake with cam levers, exhaust controlled by rocker arm, chain drive
Valve diameter, intake	42 mm (1.65 in)
Valve diameter, exhaust	34 mm (1.34 in)
Valve play, cold	
Intake at: 20 °C (68 °F)	0.10 ... 0.15 mm (0.0039 ... 0.0059 in)
Exhaust at: 20 °C (68 °F)	0.20 ... 0.25 mm (0.0079 ... 0.0098 in)
Crankshaft bearing	2 roller bearings
Conrod bearing	Slide bearing
Piston pin bearing	Piston pin with DLC coating
Pistons	Forged light alloy
Piston rings	1 compression ring, 1 lower compression ring, 1 oil ring with spring expander
Engine lubrication	Semi-dry sump lubrication system with two rotor pumps

Primary transmission	36:79
Clutch	APTC™ antihopping clutch in oil bath/hydraulically operated
Transmission	6-gear, claw shifted
Mixture preparation	Electronic fuel injection
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment
Alternator	12 V, 300 W
Spark plug	
Inside spark plug	NGK LKAR9BI-10
Outside spark plug	NGK LMAR7DI-10
Spark plug electrode gap	1.0 mm (0.039 in)
Cooling	Water cooling, permanent circulation of coolant by water pump
Idle speed	$1,650 \pm 100$ rpm
Starting aid	Electric starter, automatic decompressor

22.2 Engine tightening torques

Screw, membrane fixation	M3	2 Nm (1.5 lbf ft) Loctite®243™
Hose clamp, intake flange	M4	2.5 Nm (1.84 lbf ft)

22 TECHNICAL DATA

Oil nozzle for clutch lubrication	M4x8	2 Nm (1.5 lbf ft)
Oil nozzle for conrod bearing lubrication	M4	2 Nm (1.5 lbf ft) Loctite®243™
Locking screw for bearing	M5	6 Nm (4.4 lbf ft) Loctite®243™
Oil nozzle in cylinder head	M5	2 Nm (1.5 lbf ft) Loctite®243™
Remaining screws, engine	M5	6 Nm (4.4 lbf ft)
Screw, axial lock of camshaft	M5	6 Nm (4.4 lbf ft) Loctite®243™
Screw, clutch spring	M5	8 Nm (5.9 lbf ft)
Screw, cover plate for oil return line	M5	6 Nm (4.4 lbf ft)
Screw, gear sensor	M5	5 Nm (3.7 lbf ft) Loctite®243™
Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
Screw, oil pump cover	M5	6 Nm (4.4 lbf ft) Loctite®243™
Screw, shift shaft sensor	M5	5 Nm (3.7 lbf ft) Loctite®243™
Chain securing guide	M6	10 Nm (7.4 lbf ft)
Remaining screws, engine	M6	10 Nm (7.4 lbf ft)
Screw in alternator cover	M6	10 Nm (7.4 lbf ft)

Screw, alternator cover	M6x30	10 Nm (7.4 lbf ft)
Screw, alternator cover (chain shaft through-hole)	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, camshaft bearing support	M6x80	10 Nm (7.4 lbf ft)
Screw, camshaft bearing support	M6x90	10 Nm (7.4 lbf ft)
Screw, chain shaft	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
Screw, clutch slave cylinder	M6x20	10 Nm (7.4 lbf ft) Loctite®243™
Screw, clutch slave cylinder	M6x35	10 Nm (7.4 lbf ft)
Screw, cylinder	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, cylinder head	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, engine case	M6	10 Nm (7.4 lbf ft)
Screw, ignition coil	M6	10 Nm (7.4 lbf ft)
Screw, ignition pulse generator	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, locking lever	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, resonator	M6	10 Nm (7.4 lbf ft) Loctite®243™

22 TECHNICAL DATA

Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite®243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screw, stator	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screw, thermostat housing	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screw, timing chain guide rail	M6x30	10 Nm (7.4 lbf ft)	Loctite®2701™
Screw, timing chain tensioning rail	M6x30	10 Nm (7.4 lbf ft)	Loctite®2701™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)	
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)	
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screws, SAS cover	M6x12	10 Nm (7.4 lbf ft)	Loctite®243™
Intake channel vacuum connection	M6x0.75	2.5 Nm (1.84 lbf ft)	Loctite®243™
Oil jet, piston cooling	M6x0.75	4 Nm (3 lbf ft)	Loctite®243™

Nut, exhaust flange	M8	20 Nm (14.8 lbf ft) Copper paste
Screw plug, crankshaft clamp	M8	15 Nm (11.1 lbf ft)
Screw, rocker arm shaft	M8x40	15 Nm (11.1 lbf ft)
Screw, rocker arm shaft	M8x55	15 Nm (11.1 lbf ft)
Stud, exhaust flange	M8	10 Nm (7.4 lbf ft) Loctite®243™
Screw, cylinder head	M10	Tightening sequence: Tighten diagonally, beginning with the rear screw on the timing chain shaft. 1st stage 15 Nm (11.1 lbf ft) 2nd stage 30 Nm (22.1 lbf ft) 3rd stage 45 Nm (33.2 lbf ft) 4th stage 60 Nm (44.3 lbf ft) Lubricated with engine oil Loctite® 577™
Oil line for oil pressure sensor	M10x1	10 Nm (7.4 lbf ft)
Oil pressure sensor	M10x1	10 Nm (7.4 lbf ft)
Plug, drain hole of water pump	M10x1	15 Nm (11.1 lbf ft)

22 TECHNICAL DATA

Screw plug, oil channel	M10x1	15 Nm (11.1 lbf ft) Loctite®243™
Screw plug, oil channel, for oil radiator	M10x1	15 Nm (11.1 lbf ft)
Screw, unlocking of timing chain tensioner	M10x1	10 Nm (7.4 lbf ft)
Spark plug outside	M10x1	11 Nm (8.1 lbf ft)
Spark plug inside	M12x1.25	18 Nm (13.3 lbf ft)
Coolant temperature sensor on cylinder head	M12x1.5	12 Nm (8.9 lbf ft)
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)
Oil pressure regulator valve plug	M12x1.5	20 Nm (14.8 lbf ft)
Screw plug, oil channel	M14x1.5	15 Nm (11.1 lbf ft) Loctite®243™
Engine case stud	M16x1.5	25 Nm (18.4 lbf ft) Loctite®243™
Rotor nut	M18x1.5	100 Nm (73.8 lbf ft)
Nut, engine sprocket	M20x1.5	80 Nm (59 lbf ft) Loctite®243™
Nut, inner clutch hub	M20x1.5	100 Nm (73.8 lbf ft) Loctite®243™
Nut, primary gear	M20LHx1.5	90 Nm (66.4 lbf ft) Loctite®243™

Plug, oil screen	M20x1.5	15 Nm (11.1 lbf ft)
Plug, timing chain tensioner	M24x1.5	25 Nm (18.4 lbf ft)
Screw in alternator cover	M24x1.5	8 Nm (5.9 lbf ft)
Screw plug, oil thermostat	M24x1.5	15 Nm (11.1 lbf ft) Loctite®243™

22.3 Capacities

22.3.1 Engine oil

Engine oil	1.70 l (1.8 qt.)	Engine oil (SAE 10W/50) (☞ p. 260)
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22.3.2 Coolant

Coolant	1.20 l (1.27 qt.)	Coolant (☞ p. 259)
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22.3.3 Fuel

Total fuel tank capacity, approx.	12 l (3.2 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (☞ p. 261)
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Fuel reserve, approx.	2.5 l (2.6 qt.)
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22.4 Chassis

Frame	Lattice frame made of chrome molybdenum steel tubing, powder-coated
Fork	WP Suspension Up Side Down 4357 ROTA
Shock absorber	WP Suspension 4614
Suspension travel	
front	135 mm (5.31 in)
rear	135 mm (5.31 in)
Brake system	
front	Disc brake with radially mounted four-piston brake caliper, floating brake disc
rear	Disc brake with single-pot brake caliper, floating
Brake discs - diameter	
front	320 mm (12.6 in)
rear	240 mm (9.45 in)
Brake discs - wear limit	
front	4.2 mm (0.165 in)
rear	4.5 mm (0.177 in)
Tire air pressure, solo	
front	2.3 bar (33 psi)
rear	2.5 bar (36 psi)

Tire air pressure with passenger / full payload	
front	2.3 bar (33 psi)
rear	2.5 bar (36 psi)
Secondary drive ratio	16:40
Chain	5/8 x 1/4" (520) X-ring
Steering head angle	65°
Wheelbase	1,434 ± 15 mm (56.46 ± 0.59 in)
Seat height unloaded	830 mm (32.68 in)
Ground clearance unloaded	140 mm (5.51 in)
Weight without fuel, approx.	157 kg (346 lb.)
Maximum permissible front axle load	150 kg (331 lb.)
Maximum permissible rear axle load	200 kg (441 lb.)
Maximum permissible overall weight	350 kg (772 lb.)

22.5 Electrical system

Battery	HTZ12A-BS	Battery voltage: 12 V Nominal capacity: 10 Ah Maintenance-free
Fuse	58011109115	15 A
Fuse	58011109125	25 A
Fuse	58011109130	30 A

22 TECHNICAL DATA

Fuse	75011088015	15 A
Fuse	75011088010	10 A
Turn signal	RY10W / socket BAU15s	12 V 10 W

Headlight	LED
Parking light	LED
Instrument lights and indicator lamps	LED
Brake/tail light	LED
License plate lamp	LED

22.6 Tires

Front tire	Rear tire
120/70 ZR 17 M/C (58W) TL Bridgestone Battlax S21F	160/60 ZR 17 M/C (69W) TL Bridgestone Battlax S21R
The tires specified represent one of the possible series production tires. Additional information is available in the Service section under: www.husqvarna-motorcycles.com	

22.7 Fork

Fork article number	05.58.8R.28	
Fork	WP Suspension Up Side Down 4357 ROTA	
Compression damping		
Comfort	19 clicks	
Standard	14 clicks	
Sport	11 clicks	
Rebound damping		
Comfort	19 clicks	
Standard	14 clicks	
Sport	11 clicks	
Spring rate		
Medium (standard)	6 N/mm (34 lb/in)	
Fork length	778 mm (30.63 in)	
Fork oil per fork leg	485 ± 5 ml (16.4 ± 0.17 fl. oz.)	Fork oil (SAE 4) (48601166S1) ( p. 261)

22.8 Shock absorber

Shock absorber article number	01.58.5R.28
Shock absorber	WP Suspension 4614
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Spring preload	
Standard	5 clicks
Full payload	10 clicks
Spring rate	
Medium (standard)	110 N/mm (628 lb/in)
Spring length	180 mm (7.09 in)
Gas pressure	16 bar (232 psi)
Inbuilt length	369 mm (14.53 in)
Shock absorber oil	Shock absorber fluid (SAE 2.5) (50180751S1) (see p. 261)

22.9 Chassis tightening torques

Screw, cover	EJOT PT® K50x12	3 Nm (2.2 lbf ft)
Screw, headlight	EJOTPT® K50x18	2 Nm (1.5 lbf ft)
Screw, side stand switch	M4	2 Nm (1.5 lbf ft) Loctite®243™
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
SAS valve screw on frame	M5	4 Nm (3 lbf ft)
Screw, air filter box	M5	3 Nm (2.2 lbf ft)
Screw, brake fluid reservoir of rear brake	M5	4 Nm (3 lbf ft)
Screw, brake line on triple clamp	M5	5 Nm (3.7 lbf ft)
Screw, cable guide	M5	5 Nm (3.7 lbf ft) Loctite®243™
Screw, cable on starter motor	M5	3 Nm (2.2 lbf ft)
Screw, combination instrument	M5	4 Nm (3 lbf ft)
Screw, combination switch, left	M5	1.5 Nm (1.11 lbf ft)
Screw, combination switch, right	M5	3.5 Nm (2.58 lbf ft)
Screw, fuel level sensor	M5	3 Nm (2.2 lbf ft)
Screw, fuel tank cover	M5	3 Nm (2.2 lbf ft)

22 TECHNICAL DATA

Screw, heat guard	M5	5 Nm (3.7 lbf ft)	Loctite®243™
Double pins, headlight mask rear wall	EJOTEJOMAT® 60x12 M6x28	6 Nm (4.4 lbf ft)	Loctite®243™
Nut, push rod, foot brake lever	M6	6 Nm (4.4 lbf ft)	
Nut, shift rod	M6	6 Nm (4.4 lbf ft)	
Nut, shift rod	M6LH	6 Nm (4.4 lbf ft)	
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	
Screw, angle sensor	M6	5 Nm (3.7 lbf ft)	
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite®243™
Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)	
Screw, brake assembly	M6	5 Nm (3.7 lbf ft)	
Screw, chain guard	M6	4 Nm (3 lbf ft)	Loctite®243™
Screw, clutch assembly	M6	5 Nm (3.7 lbf ft)	
Screw, control unit holder	M6	3 Nm (2.2 lbf ft)	
Screw, exhaust pipe clamp	M6	8 Nm (5.9 lbf ft)	Copper paste
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite®243™

Screw, foot brake lever stub	M6	10 Nm (7.4 lbf ft) Loctite®243™
Screw, fuel pump	M6	6 Nm (4.4 lbf ft)
Screw, fuel spoiler	M6	3 Nm (2.2 lbf ft)
Screw, headlight mask	M6	5 Nm (3.7 lbf ft)
Screw, lower radiator bracket	M6	5 Nm (3.7 lbf ft)
Screw, magnetic holder on side stand	M6	5 Nm (3.7 lbf ft) Loctite®243™
Screw, seat lock	M6	10 Nm (7.4 lbf ft) Loctite® 222™
Screw, tail light cover	M6	8 Nm (5.9 lbf ft)
Screw, voltage regulator	M6	8 Nm (5.9 lbf ft)
Screw, wheel speed sensor	M6	6 Nm (4.4 lbf ft)
Nut, manifold on cylinder head	M8	20 Nm (14.8 lbf ft) Copper paste
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft) Loctite®2701™
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)
Screw, foot brake lever	M8	20 Nm (14.8 lbf ft) Loctite®2701™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)

22 TECHNICAL DATA

Screw, front brake disc	M8	30 Nm (22.1 lbf ft) Loctite®2701™
Screw, front footrest bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, ignition lock (tamper-proof screw)	M8	 Loctite®243™
Screw, license plate holder	M8	18 Nm (13.3 lbf ft) Loctite®243™
Screw, linkage bracket, front engine fixing arm	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, main silencer fastening	M8	25 Nm (18.4 lbf ft)
Screw, rear brake disc	M8	30 Nm (22.1 lbf ft) Loctite®2701™
Screw, rear footrest bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, side stand bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
Engine carrying screw	M10	45 Nm (33.2 lbf ft) Loctite®243™
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)

Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)
Screw, lower subframe	M10x30	45 Nm (33.2 lbf ft) Loctite®243™
Screw, side stand	M10	35 Nm (25.8 lbf ft) Loctite®243™
Screw, upper subframe	M10x20	45 Nm (33.2 lbf ft)
Banjo bolt, brake line	M10x1	25 Nm (18.4 lbf ft)
Screw, bottom shock absorber	M10x1.25	50 Nm (36.9 lbf ft) Loctite®243™
Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft) Loctite®243™
Screw, top shock absorber	M10x1.25	50 Nm (36.9 lbf ft) Loctite®243™
Lambda sensor	M12x1.25	25 Nm (18.4 lbf ft)
Nut, frame to linkage lever	M14x1.5	100 Nm (73.8 lbf ft)
Nut, linkage lever on swingarm	M14x1.5	100 Nm (73.8 lbf ft)
Nut, linkage lever to rocker arm	M14x1.5	100 Nm (73.8 lbf ft)
Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)
Screw, steering head	M20x1.5	40 Nm (29.5 lbf ft)
Adjusting ring of swingarm bearing	M24x1.5	25 Nm (18.4 lbf ft)
Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)

22 TECHNICAL DATA

Nut, steering head	M28x1	12 Nm (8.9 lbf ft)
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Brake fluid DOT 4 / DOT 5.1

Standard/classification

- DOT

Guideline

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

Recommended supplier

Castrol

- REACT PERFORMANCE DOT 4

Motorex®

- Brake Fluid DOT 5.1

Coolant

Guideline

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

Antifreeze protection to at least	-25 °C (-13 °F)
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23 SUBSTANCES

The mixture ratio must be adjusted to the necessary antifreeze protection. Use distilled water if the coolant needs to be diluted.

The use of premixed coolant is recommended.

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

Recommended supplier

Motorex®

- COOLANT M3.0

Engine oil (SAE 10W/50)

Standard/classification

- JASO T903 MA2 (☞ p. 264)
- SAE (☞ p. 264) (SAE 10W/50)

Guideline

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

Fully synthetic engine oil

Recommended supplier

Motorex®

- Power Synt 4T

Fork oil (SAE 4) (48601166S1)

Standard/classification

- SAE (p. 264) (SAE 4)

Guideline

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

Shock absorber fluid (SAE 2.5) (50180751S1)

Standard/classification

- SAE (p. 264) (SAE 2.5)

Guideline

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

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

Standard/classification

- DIN EN 228 (ROZ 95/RON 95/PON 91)

Guideline

- Only use unleaded super fuel that matches or is equivalent to the specified fuel grade.
- Fuel with an ethanol content of up to 10 % (E10 fuel) is safe to use.



Info

Do **not** use fuel containing methanol (e. g. M15, M85, M100) or more than 10 % ethanol (e. g. E15, E25, E85, E100).

24 AUXILIARY SUBSTANCES

Chain cleaner

Recommended supplier

Motorex®

- Chain Clean

Fuel additive

Recommended supplier

Motorex®

- Fuel Stabilizer

Long-life grease

Recommended supplier

Motorex®

- Bike Grease 2000

Motorcycle cleaner

Recommended supplier

Motorex®

- Moto Clean

Perfect Finish and high gloss polish for paints

Recommended supplier

Motorex®

- Moto Shine

Preserving materials for paints, metal and rubber

Recommended supplier

Motorex®

- Moto Protect

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

Recommended supplier

Motorex®

- Quick Cleaner

Street chain spray

Guideline

Recommended supplier

Motorex®

- Chainlube Road Strong

Universal oil spray

Recommended supplier

Motorex®

- Joker 440 Synthetic

JASO T903 MA2

Different technical development directions required a separate specification for motorcycles – the **JASO T903 MA2** standard.

Earlier, engine oils from the automobile industry were used for motorcycles because there was no separate motorcycle specification.

Whereas long service intervals are demanded for automobile engines, the focus for motorcycle engines is on high performance at high engine speeds.

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

The **JASO T903 MA2** standard meets these special requirements.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

ABS	ABS	Safety system that prevents locking of the wheels when driving straight ahead without the influence of lateral forces
-	Easy Shift	Engine electronics function for shifting up and down without clutch actuation
MSR	Engine traction torque control (Motor Slip Regulation)	Auxiliary function of the motor control, which prevents rear wheel locking with excessive engine braking effect, by lightly opening the throttle valve
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

27 LIST OF ABBREVIATIONS

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

28.1 Red symbols

Red symbols indicate an error condition that requires immediate intervention.

	The immobilizer indicator lamp lights up red – Status or error message for immobilizer.
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28.2 Yellow and orange symbols

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

	Malfunction indicator lamp lights up yellow – The OBD has detected an error in the vehicle electronics. Come safely to a halt, and contact an authorized Husqvarna Motorcycles workshop.
	ABS warning lamp lights up yellow – Status or error messages relating to ABS.
	TC indicator lamp lights up/flashes yellow – The MTC (p. 217) is not enabled or is currently intervening. The TC indicator lamp also lights up if an error is detected. Contact an authorized Husqvarna Motorcycles workshop.

28.3 Green and blue symbols

Green and blue symbols reflect information.

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

A	
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ABS fuses	
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front	199
ACC2	
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