

PIONEERING SINCE 1903

# OWNER'S MANUAL 2016



FE 501 S

Art. no. 3402067en



# 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 accordingly.

We hope you enjoy your new vehicle!

Please enter the serial number of your vehicle below.

Chassis number (☛ p. 15)	Stamp of dealer
Engine number (☛ p. 15)	
Key number (☛ p. 15)	

The Owner's Manual contained the latest information for this model series at the time of going to print. Slight deviations resulting from continuing development and design of the motorcycles can, however, not be completely excluded.

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Issued by: TÜV Management Service

REG.NO. 12 100 6061

Husqvarna Motorcycles GmbH  
5230 Mattighofen, Austria

This document is valid for the following models:

FE 501 S US (F2475P4)



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## 1.1 Symbols used

The meaning of specific symbols is described below.

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	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.

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## 1.2 Formats used

The typographical formats used in this document are explained below.

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

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## 2.1 Use definition – intended use

Husqvarna motorcycles are designed and built to withstand the normal stresses and strains of competitive use. The motorcycles comply with currently valid regulations and categories of the top international motorsport organizations.



### Info

The vehicle should only be used by trained persons. The motorcycle is authorized for public road traffic in the homologated (reduced) version only.

In the derestricted version, the motorcycle must be used only on closed off properties remote from public road traffic.

This motorcycle is designed for use in offroad endurance competition and not primarily for use in motocross.

## 2.2 Safety advice

A number of safety instructions need to be followed to operate the vehicle safely. Therefore, read this manual carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



### Info

The vehicle has various information and warning labels at prominent locations. Do not remove information/warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

## 2.3 Degrees of risk and symbols



### Danger

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



### Warning

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



### Caution

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

### Note

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



### Warning

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



## 2.4 Overview of labels



- 1 Information on emissions control

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- 2 Canada type label

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- 3 Information on noise emission

---

- 4 USA type label

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- 5 Information on starting up

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- 6 Brake fluid information

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- 7 Information on chain tension

VEHICLE EMISSION CONTROL INFORMATION	
Husqvarna	MANUFACTURER: KTM AG - Mattighofen, Austria IMPORTER: KTM NORTH AMERICA, INC.
ENGINE DISPLACEMENT	510 cc ENGINE EXHAUST EMISSION CONTROL SYSTEM
ENGINE FAMILY	GKTXC.510EFI TBI, PAIR
EVAPORATIVE FAMILY	GKTXU0010EXC
PERMEATION FAMILY	GKTXPP104R17 MODEL NAME FE 501 S
THIS VEHICLE CONFORMS WITH US EPA AND CALIFORNIA REGULATIONS APPLICABLE TO 2016 MODEL YEAR NEW MOTORCYCLES AND IS CERTIFIED TO 0.8 G/KM HC+NOX, 12 G/KM CO EXHAUST EMISSION STANDARDS IN CALIFORNIA.	
ENGINE TUNEUP SPECIFICATIONS:	
IGNITION TIMING:	NON ADJUSTABLE
IDLE SPEED:	1850 +/- 50 RPM IN NEUTRAL
IDLE MIXTURE:	NON ADJUSTABLE
VALVE CLEARANCE:	0.10 - 0.15 mm INTAKE 0.12 - 0.17 mm EXHAUST
SPARK PLUG:	NGK LKAR9AI-10
SPARK PLUG GAP:	1.0 mm
FUEL:	UNLEADED GASOLINE ONLY - 91 (R+M)/2 OCTANE OR HIGHER
OIL:	SAE 10 W 50

S00915-01

### Information on emissions control


MANUFACTURED BY/FABRIQUÉ PAR: KTM AG	
GVWR/PNBV: 335 KG	DATE: 15.07
V.I.N./N.I.V.: VBKxxxxxxxMxxxxxx	
TYPE: MC	
COLD INFL. PRESS. PRESS. DE GONFL. À FROID	
PSI/LPC KPA	
1st	145 KG 80/100-21 1.60-21 22 150
2nd	190 KG 140/80-18 2.15-18 29 200
THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE - CE VÉHICULE EST CONFORME À TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU RÉGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION	

S00916-01

### Canada type label

MOTORCYCLE NOISE EMISSION CONTROL INFORMATION	
KTM AG, AUSTRIA	
THIS 2016 HQVG787510 MOTORCYCLE 813.05.682.000 MEETS U.S. EPA NOISE EMISSION REQUIREMENTS OF 80 dBA AT 4250 RPM BY THE U.S. 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 : FE 501 S	S00917-01

Information on noise emission

	MFD. BY KTM AG AUSTRIA		DATE 12.03
	MOTORCYCLE		
GVWR	739 lbs	335 kg	
GAWR FRONT	320 lbs	145 kg	WITH 80/100-21 TIRE, 51M TYPE,
	1.60-21 RIM, AT	22 psi	1.5 bar COLD
GAWR REAR	419 lbs	190 kg	WITH 140/80-18 TIRE, 70R TYPE,
	2.15-18 RIM, AT	29 psi	2.0 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			S00918-01

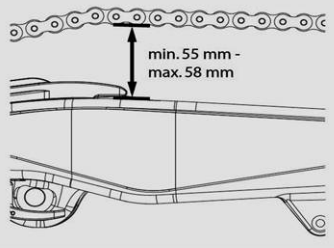
USA type label

<p><b>ACHTUNG</b> Lesen Sie vor der ersten Inbetriebnahme des Fahrzeuges die gesamte Bedienungsanleitung aufmerksam durch!</p> <p><b>IMPORTANT</b> Please read the entire owner's manual carefully before putting the vehicle into operation for the first time.</p> <p><b>ATTENZIONE</b> Prima della messa in funzione iniziale del veicolo, leggere con attenzione l'intero manuale d'uso!</p> <p><b>ATTENTION</b> Lire attentivement l'ensemble du manuel d'utilisation avant de mettre le véhicule en service!</p> <p><b>ATENCIÓN</b> Lea completa y atentamente el manual de instrucciones antes de poner en servicio por primera vez el vehículo!</p>	S00919-01
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Information on starting up

<p>Clean filler cap before removing. Use only DOT4 brake fluid from a sealed container.</p>	S00026-10
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Brake fluid information

	S00026-10
<p>AUFKLEBER KETTENSANNUNG CHAIN TENSION STICKER</p> <p>772.04.030.090</p>	101516-01

Information on chain tension

### 2.5 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 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.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-888-327-4236 or visit the website [www.nhtsa.dot.gov](http://www.nhtsa.dot.gov), 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.

### 2.6 Noise emission warranty

Husqvarna Motorcycles North America, Inc. guarantees that this exhaust system satisfies all U.S. EPA Federal noise emission standards applicable at the time of sale.

This 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](http://www.husqvarna-motorcycles.com)

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

Phone: (450) 441-9222

[www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)

### 2.7 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.

### 2.8 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

[www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)

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

Phone: (450) 441-9222

[www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)

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

### 2.9 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.

### 2.10 Safe operation



#### **Danger**

**Danger of accidents** Danger arising from the rider's judgement being impaired.

- Do not operate the vehicle while under the influence of alcohol, drugs and certain medications or physically or mentally impaired.



#### **Danger**

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.



#### **Warning**

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

- Do not touch hot components such as exhaust system, radiator, engine, shock absorber, and the brake system. Allow these components to cool down before starting work on them.

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.

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

Adhere to the information and warning labels on the vehicle.

### 2.11 Protective clothing



#### **Warning**

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

- Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. Always wear protective clothing that is in good condition and meets the legal requirements.

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

### 2.12 Work rules

Special tools are necessary for certain tasks. The tools are not contained in the vehicle but can be ordered under the number in parentheses. E.g.: bearing puller (15112017000)

During assembly, non-reusable parts (e.g. self-locking screws and nuts, seals and seal rings, O-rings, pins, lock washers) must be replaced by new parts.

In some instances, a thread locker (e.g. **Loctite**<sup>®</sup>) is required. The manufacturer instructions for use must be followed.

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

After you complete the repair or service work, check the operating safety of the vehicle.

### 2.13 Environment

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

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

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

### 2.14 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 Motorcycles 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.

## 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 booklet.

## 3.2 Operating and auxiliary substances



### Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.

Use operating and auxiliary substances (such as fuel and lubricants) as specified in the Owner's Manual.

## 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 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](http://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 on sand or on wet and muddy surfaces, 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.

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

International Husqvarna Motorcycles website: [www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)

## 4.1 View of vehicle, front left (example)



- |   |                         |
|---|-------------------------|
| 1 | Filler cap              |
| 2 | Air filter box lid      |
| 3 | Side stand (☛ p. 21)    |
| 4 | Engine number (☛ p. 15) |
| 5 | Shift lever (☛ p. 20)   |

## 4.2 View of vehicle, rear right (example)

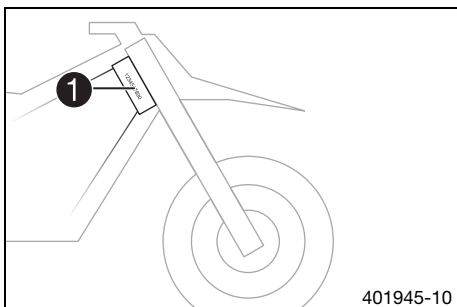


S00897-10

1	Fork compression adjustment
2	Horn button (☛ p. 17)
2	Light switch (☛ p. 17)
2	Turn signal switch (☛ p. 18)
3	Emergency OFF switch (☛ p. 18)
3	Electric starter button (☛ p. 18)
4	Throttle grip (☛ p. 17)
5	Fork rebound adjustment
6	Foot brake lever (☛ p. 20)
7	Level viewer, engine oil
8	Shock absorber compression adjustment
9	Shock absorber rebound adjustment
10	Level viewer for brake fluid, rear

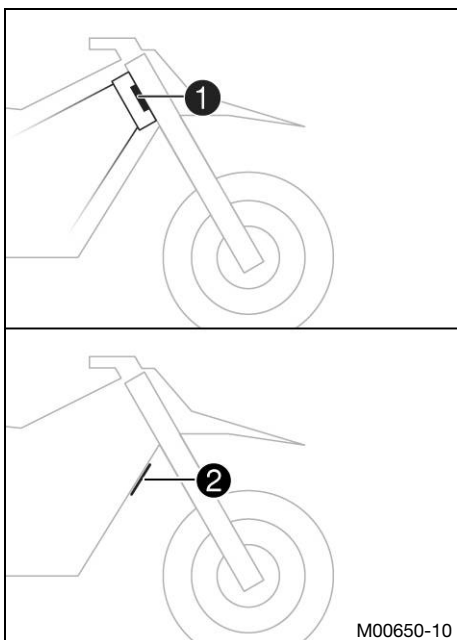


## 5.1 Chassis number



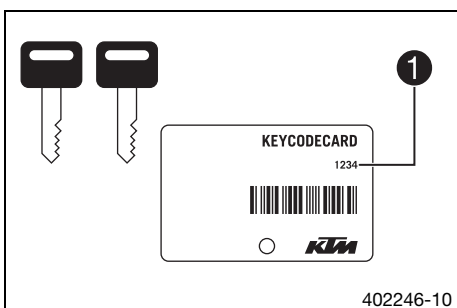
The chassis number ① is stamped on the steering head on the right.

## 5.2 Type label



The type label ① is fixed to the front of the steering head.  
The additional type label for Canada ② is fixed to the front of the front pipe.

## 5.3 Key number



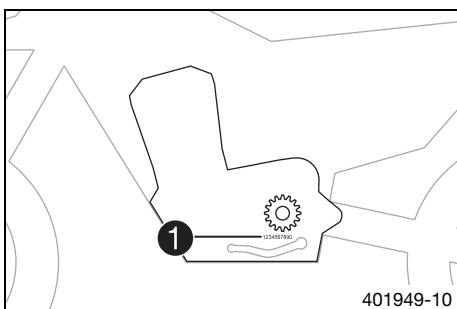
Key number ① for the ignition and steering lock is indicated on the **KEYCODECARD**.



### Info

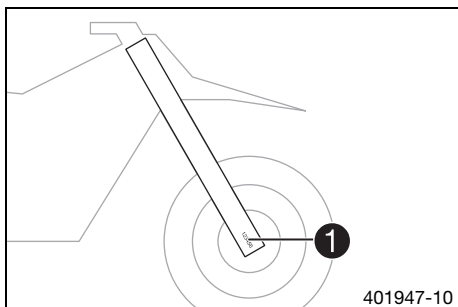
You need the key number to order a spare key. Keep the **KEYCODECARD** in a safe place.

## 5.4 Engine number



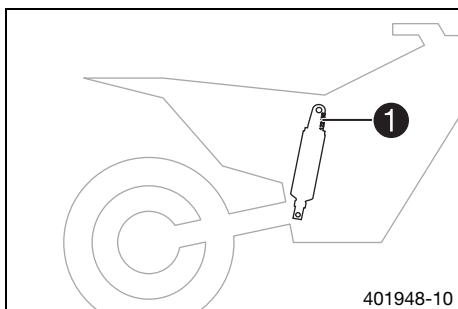
The engine number ① is stamped on the left side of the engine under the engine sprocket.

## 5.5 Fork part number



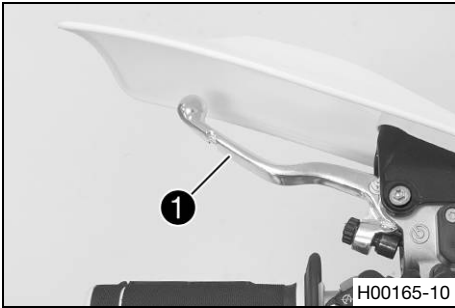
The fork part number ❶ is stamped on the inner side of the fork stub.

## 5.6 Shock absorber article number



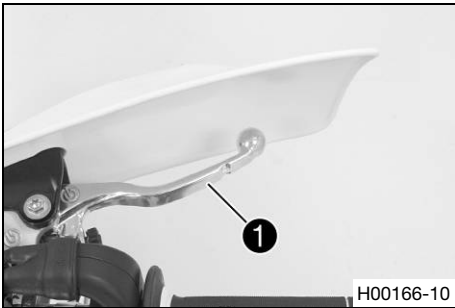
The shock absorber article number ❶ is stamped on the top of the shock absorber above the adjusting ring towards the engine side.

## 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.

## 6.2 Hand brake lever



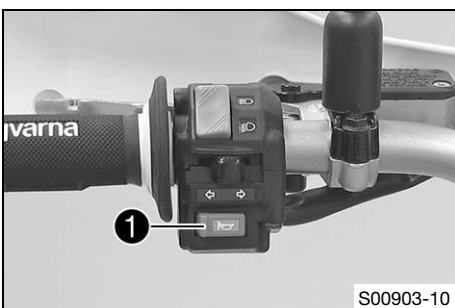
The hand brake lever **1** is fitted on the right side of the handlebar. The hand brake lever is used to activate the front brake.

## 6.3 Throttle grip



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

## 6.4 Horn button

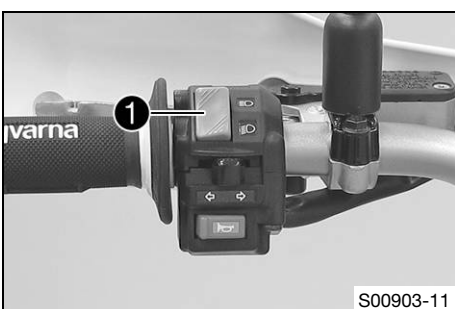


The horn button **1** is fitted on the left side of the handlebar.

### Possible states



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

## 6.5 Light switch

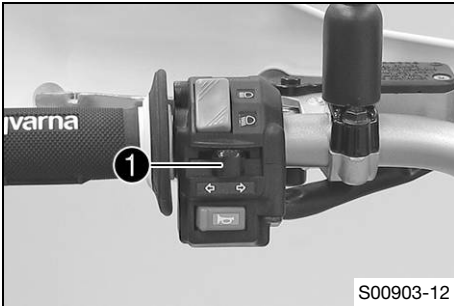


The light switch **1** is fitted on the left side of the handlebar.

### 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 upward. In this position, the high beam and the tail light are switched on.

## 6.6 Turn signal switch



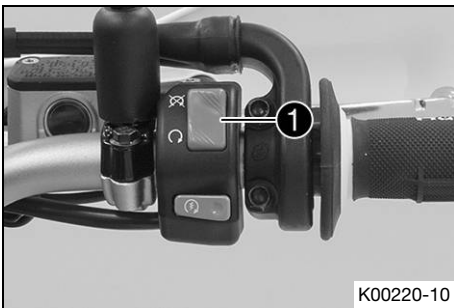
Turn signal switch ❶ is fitted on the left side of the handlebar.

### Possible states

	Turn signal light off
	Turn signal light, left, on – The turn signal switch is pressed to the left. The turn signal switch returns to the middle position after activation.
	Turn signal light, right, on – The turn signal switch is pressed to the right. The turn signal switch returns to the middle position after activation.



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

## 6.7 Emergency OFF switch

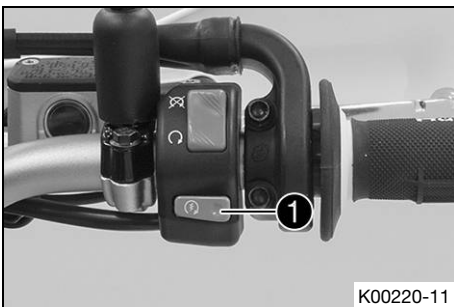


The emergency OFF switch ❶ is fitted on the right side of the handlebar.

### Possible states

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

## 6.8 Electric starter button



Electric starter button ❶ is fitted on the right side of the handlebar.





### Possible states

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

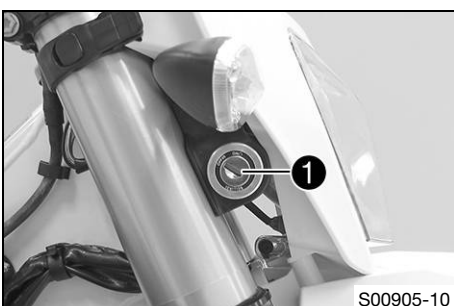
## 6.9 Overview of indicator lamps



### Possible states



	The high beam indicator light lights up blue – The high beam is switched on.
	<b>FI</b> warning lamp ( <b>MIL</b> ) lights up/flashes orange – The OBD has detected an emission- or safety-critical fault.
	The low fuel warning lamp lights up orange – The fuel level has reached the reserve mark.
	Turn signal indicator light flashes green – The turn signal is switched on.

## 6.10 Ignition lock



The ignition lock ❶ is on the right behind the headlight mask.

### Possible states

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

## 6.11 Opening the filler cap



### Danger

**Fire hazard** Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- The fuel in the fuel tank expands when warm and may emerge if overfilled. Follow the instructions on refueling.



### Warning

**Danger of poisoning** Fuel is poisonous and a health hazard.

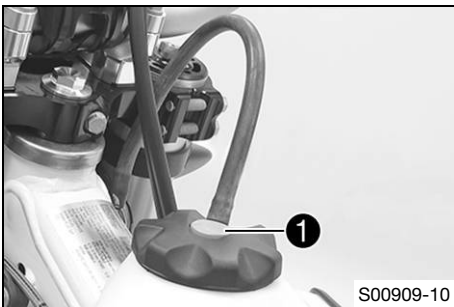
- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that has been contaminated with fuel. Store fuel properly in a suitable canister and keep away from children.



### Warning

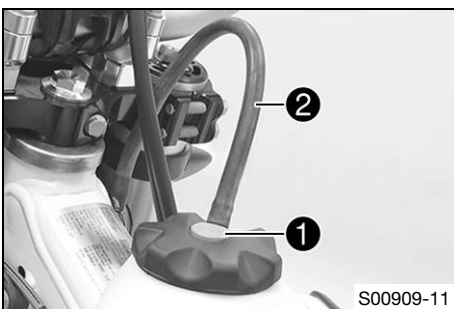
**Environmental hazard** Improper handling of fuel is a danger to the environment.

- Do not allow fuel to get into the ground water, the ground, or the sewage system.



- Press release button **1**, turn the filler cap counterclockwise, and lift it off.

## 6.12 Closing the filler cap



- Replace the filler cap and turn clockwise until the release button **1** locks in place.



### Info

Run the fuel tank breather hose **2** without kinks.

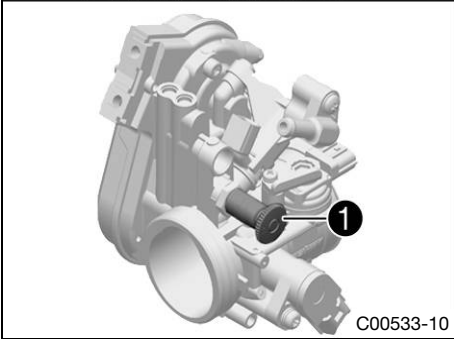
## 6.13 Idle speed adjusting screw



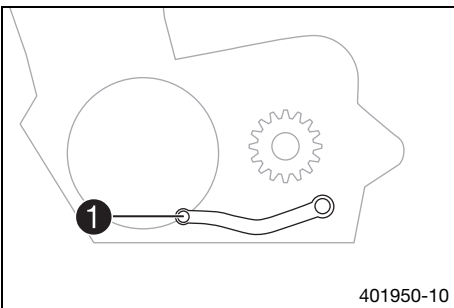
Idle speed adjusting screw **1** is located at the top left of the throttle valve body. The idle speed adjusting screw has two functions. Turning it controls the idle speed. Pulling it out all the way raises the idle speed during a cold start.

### Possible states

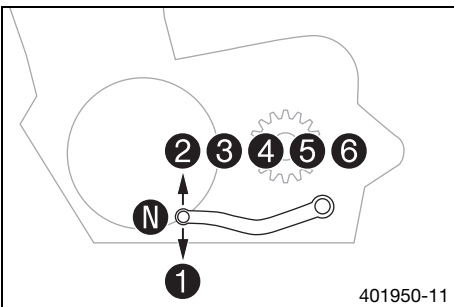
- RPM increase activated – Idle speed adjusting screw is pulled out all the way.
- RPM increase deactivated – Idle speed adjusting screw is pushed in all the way.



## 6.14 Shift lever

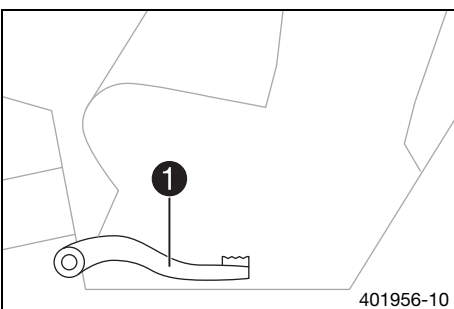


Shift lever **1** is mounted on the left side of the engine.



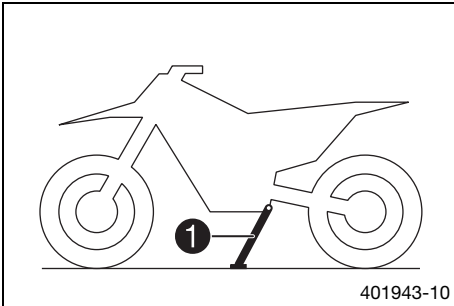
The gear positions can be seen in the photograph. The neutral or idle position is between the first and second gears.

## 6.15 Foot brake lever

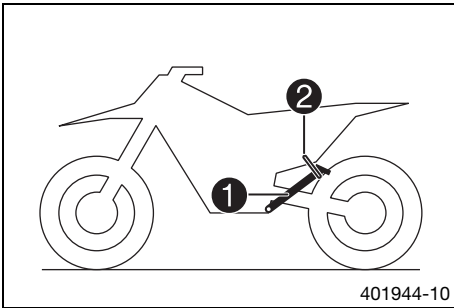


The foot brake lever **1** is attached in front of the right footrest. The foot brake lever is used to activate the rear brake.

## 6.16 Side stand



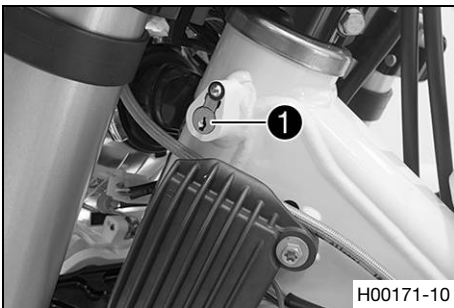
The side stand **1** is located on the left side of the vehicle.



The side stand is used for parking the motorcycle.

**i Info**  
When you are riding, the side stand **1** must be folded up and secured with rubber band **2**.

## 6.17 Steering lock



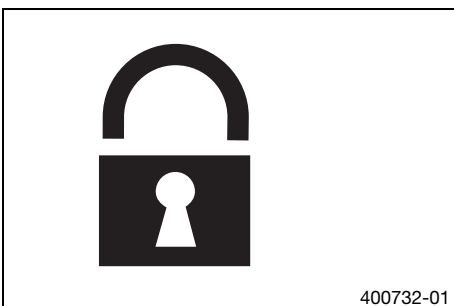
Steering lock **1** is fitted on the left side of the steering head. The steering lock is used to lock the steering. Steering, and therefore riding, is no longer possible.

## 6.18 Locking the steering

### Note

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

- Always place the vehicle on a firm and even surface.



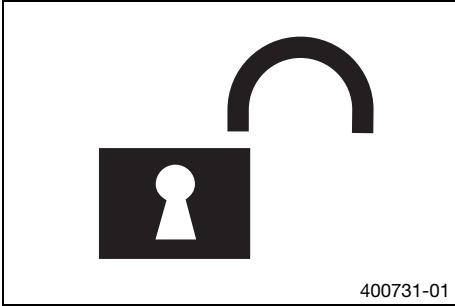
- Park the vehicle.
- Turn the handlebar as far as possible to the right.
- Grease the steering lock regularly.

Universal oil spray (☞ p. 113)

- Insert the key in the steering lock (☞ p. 21), turn it to the left, press it in, and turn it to the right. Remove the key.
- ✓ Steering is no longer possible.

**i Info**  
Never leave the key in the steering lock.

## 6.19 Unlocking the steering



- Insert the key in the steering lock (☛ p. 21), turn it to the left, pull it out, and turn it to the right. Remove the key.

✓ You can now steer the bike again.

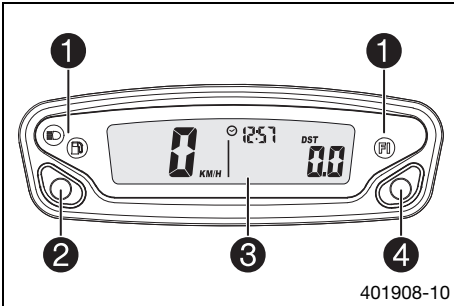


**Info**

Never leave the key in the steering lock.



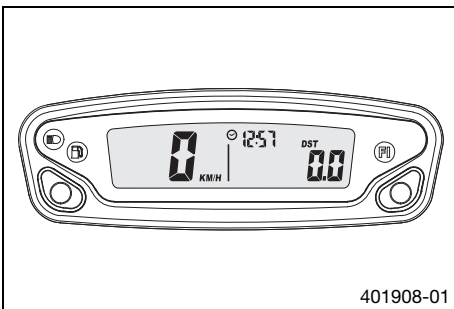
## 7.1 Overview



401908-10

- |   |                                       |
|---|---------------------------------------|
| 1 | Overview of indicator lamps (☛ p. 18) |
| 2 | Left button                           |
| 3 | Display                               |
| 4 | Right button                          |

## 7.2 Activation

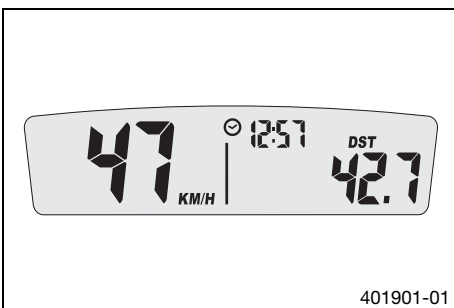


401908-01

### Activating the speedometer

The speedometer is activated when one of the buttons is pressed or an impulse comes from the wheel speed sensor.

## 7.3 Message on the speedometer

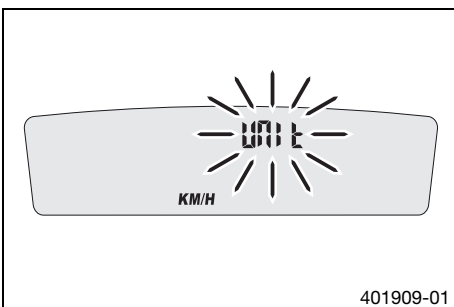


401901-01

### Possible states

	Battery voltage of the speedometer – Battery voltage of the speedometer is too low. Change the battery.
	Service – A service is due. Contact an authorized Husqvarna Motorcycles workshop.

## 7.4 Setting the speedometer

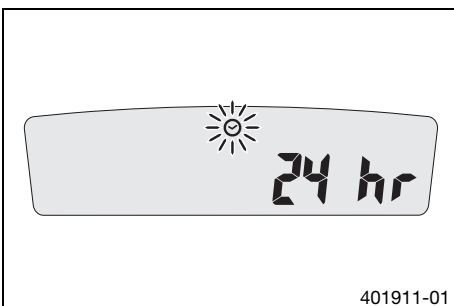


401909-01

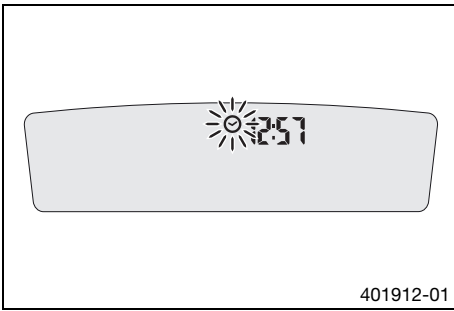
### Condition

The motorcycle is stationary.

- Press both buttons for 3–5 seconds.
  - ✓ The Setup menu is displayed. The **UNIT** display flashes.
- Press one of the buttons to select **UNIT** for the speed in kilometers **KM/H** or miles **M/H**.
- Wait for 5 seconds.
  - ✓ The speedometer changes to the next menu item. The ☉ symbol flashes.
- Press one of the buttons to select the 24h or 12h display of the clock.



401911-01



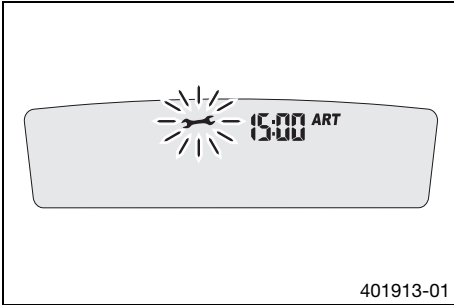
- Wait for 5 seconds.
- ✓ The speedometer changes to the next menu item. The ☀ symbol flashes.

**Resetting the time**

- Press the left button.
- ✓ The value decreases.

**Advancing the time**

- Press the right button.
- ✓ The value increases.



- Wait for 5 seconds.
- ✓ The speedometer changes to the next menu item. The ⚙ symbol flashes.
- Set the service.

**Guideline**

One-time service after	1 h
Service every	15 h

**Shortening the service interval**

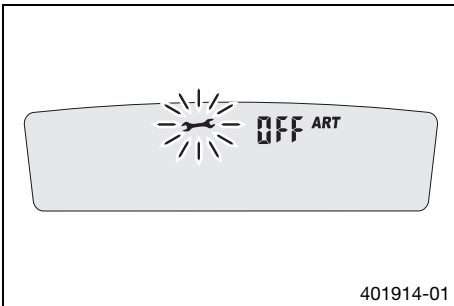
- Press the left button.
- ✓ The value decreases.

**Extending the service interval**

- Press the right button.
- ✓ The value increases.

**Switching off the service interval display**

- Press and hold the left button.
- ✓ **off** appears on the display.



## 7.5 Setting the kilometers or miles

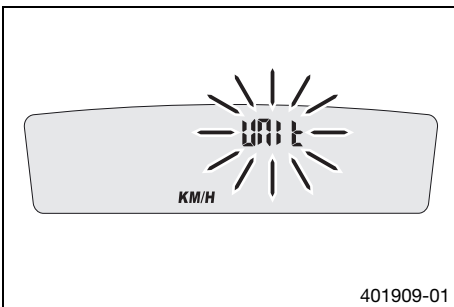


**Info**

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

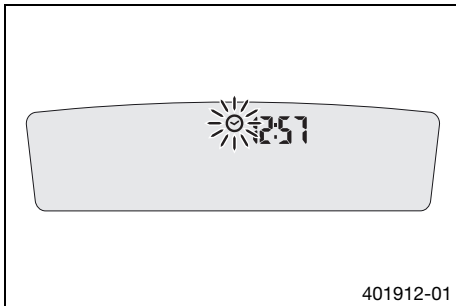
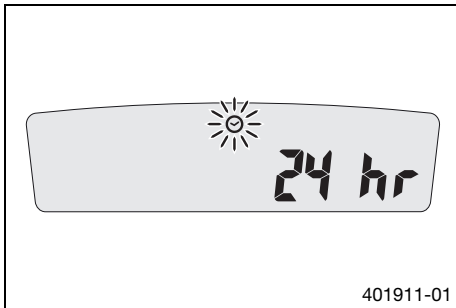
**Condition**

The motorcycle is stationary.



- Press both buttons for 3–5 seconds.
- ✓ The Setup menu is displayed. The **UNIT** display flashes.
- Press one of the buttons to select **UNIT** for the speed in kilometers **KM/H** or miles **M/H**.

## 7.6 Setting the clock



### Condition

The motorcycle is stationary.

- Press both buttons for 3–5 seconds.
  - ✓ The Setup menu is displayed. The **UNIT** display flashes.
- Wait for the menu of the clock ☉ to flash.
- Press one of the buttons to select the 24h or 12h display of the clock.

- Wait for 5 seconds.

- ✓ The speedometer changes to the next menu item. The ☉ symbol flashes.

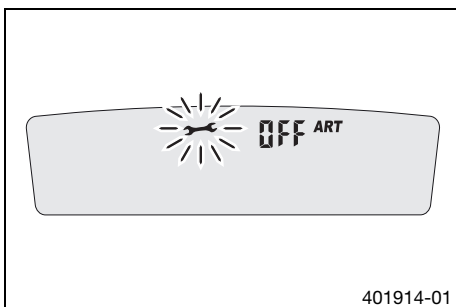
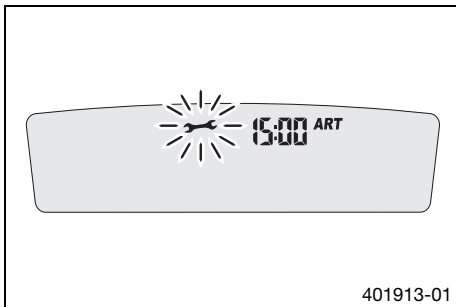
### Resetting the time

- Press the left button.
  - ✓ The value decreases.

### Advancing the time

- Press the right button.
  - ✓ The value increases.

## 7.7 Setting the service display



### Condition

The motorcycle is stationary.

- Press both buttons for 3–5 seconds.
  - ✓ The Setup menu is displayed. The **UNIT** display flashes.
- Wait for the menu of the service display ⚙️ to flash.
- Set the service.

### Guideline

One-time service after	1 h
Service every	15 h

### Shortening the service interval

- Press the left button.
  - ✓ The value decreases.

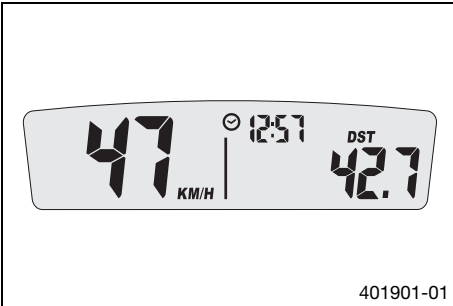
### Extending the service interval

- Press the right button.
  - ✓ The value increases.

### Switching off the service interval display

- Press and hold the left button.
  - ✓ **off** appears on the display.

## 7.8 Speed, time, and DST distance 1

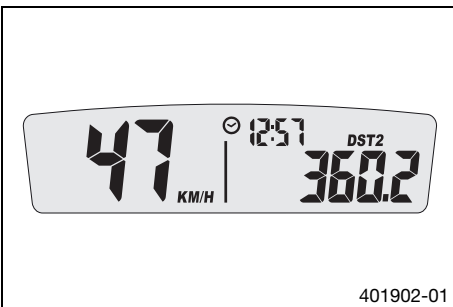


- Press one of the buttons until **DST** appears on the speedometer.
- KM/H** or **M/H** shows the speed.  
 ☉ shows the time.  
**DST** shows the distance since the last reset, such as between two refueling stops.

**Info**  
 If the value of 39999.9 is exceeded, **DST** is automatically reset to 0.0.

Press the left button briefly.	Next display mode
Press the left button for 3 – 5 seconds.	<b>DST</b> can be preset to a value between 0.0 and 39999.9 by pressing the buttons.
Press the right button briefly.	Next display mode
Press the right button for 3 – 5 seconds.	<b>DST</b> is reset to 0.0.

## 7.9 Speed, time, and DST2 distance 2

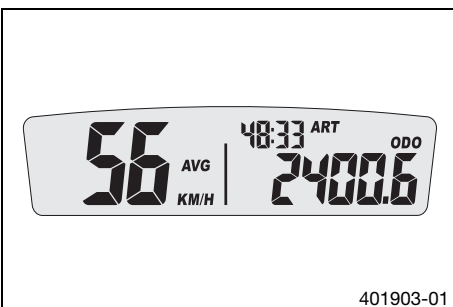


- Press one of the buttons until **DST2** appears on the speedometer.
- KM/H** or **M/H** shows the speed.  
 ☉ shows the time.  
**DST2** shows the distance 2 since the last reset, such as between two refueling stops.

**Info**  
 If the value of 39999.9 is exceeded, **DST2** is automatically reset to 0.0.

Press the left button briefly.	Next display mode
Press the left button for 3 – 5 seconds.	<b>DST2</b> can be preset to a value between 0.0 and 39999.9 by pressing the buttons.
Press the right button briefly.	Next display mode
Press the right button for 3 – 5 seconds.	<b>DST2</b> is reset to 0.0.









## 7.10 AVG average speed, ART operating hours, and ODO total distance covered




- Press one of the buttons until **AVG**, **ART** and **ODO** appear in the speedometer.
- AVG** shows the average speed since the last reset.  
**ART** shows the operating hours.  
**ODO** shows the total distance covered.


Press the left button briefly.	Next display mode
Press the left button for 3 – 5 seconds.	The OPEN END WRENCH SYMBOL shows the remaining operating hours until the next service is due.
Press the right button briefly.	Next display mode
Press the right button for 3 – 5 seconds.	<b>AVG</b> is reset to 0.0.

## 8.1 Advice on first use

-  **Danger**  
**Danger of accidents** Danger arising from the rider's judgement being impaired.
- Do not operate the vehicle while under the influence of alcohol, drugs and certain medications or physically or mentally impaired.
-  **Warning**  
**Risk of injury** Missing or poor protective clothing presents an increased safety risk.
- Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. Always wear protective clothing that is in good condition and meets the legal requirements.
-  **Warning**  
**Danger of crashing** Poor vehicle handling due to different tire tread patterns on front and rear wheels.
- The front and rear wheels must be fitted with tires with similar tread patterns to prevent loss of control over the vehicle.
-  **Warning**  
**Danger of accidents** Critical riding behavior due to inappropriate riding.
- Adapt your riding speed to the road conditions and your riding ability.
-  **Warning**  
**Danger of accidents** Accident risk caused by presence of a passenger.
- Your vehicle is not designed to carry passengers. Do not ride with a passenger.
-  **Warning**  
**Danger of accidents** Failure of brake system.
- If the foot brake lever is not released, the brake linings drag continuously. The rear brake may fail due to overheating. Take your foot off the foot brake lever when you are not braking.
-  **Warning**  
**Danger of accidents** Unstable riding behavior.
- Do not exceed the maximum permissible weight and axle loads.
-  **Warning**  
**Risk of misappropriation** Usage by unauthorized persons.
- Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons.

 **Info**  
When using your motorcycle, 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 and 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. 67)
- Adjust the free travel of the hand brake lever. (☞ p. 69)
- Adjust the basic position of the foot brake lever. (☞ p. 73)
- Adjust the basic position of the shift lever. (☞ p. 95)
- Get used to handling the motorcycle on a suitable piece of land before undertaking a more challenging trip.

 **Info**  
When offroad, being accompanied by another person on another vehicle so that you can help each other is recommended.

- Try also to ride as slowly as possible and in a standing position to get a better feeling for the motorcycle.
- Do not make any off-road trips that exceed your ability and experience.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- If you carry any luggage, make sure you fix it firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.

**i Info**  
Motorcycles react sensitively to any changes of weight distribution.

- Do not exceed the maximum permissible weight and the maximum permissible axle loads.

Guideline

Maximum permissible overall weight	335 kg (739 lb.)
Maximum permissible front axle load	145 kg (320 lb.)
Maximum permissible rear axle load	190 kg (419 lb.)

- Run in the engine. (☛ p. 28)

## 8.2 Running-in the engine

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

Guideline

Maximum engine speed	
During the first operating hour	7,000 rpm
Maximum engine performance	
During the first 3 operating hours	≤ 75 %

- Avoid fully opening the throttle!

## 8.3 Preparing the vehicle for difficult riding conditions

**i Info**  
Use of the vehicle under difficult conditions, such as on sand or on wet and muddy surfaces, 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.

- Clean the air filter and air filter box. ☛ (☛ p. 53)

**i Info**  
Check the air filter approx. every 30 minutes.

- Seal the air filter box. ☛ (☛ p. 54)
- Additionally secure the rubber grip. (☛ p. 67)
- Check the connectors and plug-in connectors for moisture and corrosion and to ensure that they are firmly seated.
  - » If humidity, corrosion or damage is found:
    - Clean and dry the parts or change them if necessary.

**Difficult riding conditions are:**

- Rides on dry sand. (☛ p. 28)
- Rides on wet sand. (☛ p. 29)
- Rides on wet and muddy surfaces. (☛ p. 29)
- Rides at high temperature and slow speed. (☛ p. 30)
- Rides at low temperature or in snow. (☛ p. 30)

## 8.4 Preparing for rides on dry sand



- Fit a dust cover on the air filter.

Dust protection device for air filter (77206920100)

**i Info**  
See the **Husqvarna Motorcycles** accessories fitting instructions.



M01000-01

- Fit a sand cover on the air filter.

Sand protection device for air filter (59006922000)



**Info**

See the **Husqvarna Motorcycles** accessories fitting instructions.



600868-01

- Clean the chain.
- Fit the steel sprocket.



**Tip**

Do not grease the chain.

- Clean the radiator fins.
- Straighten bent radiator fins carefully.

## 8.5 Preparing for rides on wet sand



M01001-01

- Fit a waterproofing device on the air filter.

Waterproofing device for air filter (77206921100)



**Info**

See the **Husqvarna Motorcycles** accessories fitting instructions.



600868-01

- Clean the chain.
- Fit the steel sprocket.



**Tip**

Do not grease the chain.

- Clean the radiator fins.
- Straighten bent radiator fins carefully.

## 8.6 Preparing for rides on wet and muddy surfaces



M01001-01

- Fit a waterproofing device on the air filter.

Waterproofing device for air filter (77206921100)



**Info**

See the **Husqvarna Motorcycles** accessories fitting instructions.



- Fit the steel sprocket.
- Clean the motorcycle. (☛ p. 100)
- Straighten bent radiator fins carefully.

## 8.7 Preparing for rides at high temperature and slow speed



- Adjust the secondary drive to the road conditions.



### Info

The engine oil heats up quickly when the clutch is operated frequently due to an excessively high secondary drive.

- Clean the chain.
- Clean the radiator fins.
- Straighten bent radiator fins carefully.
- Check the coolant level. (☛ p. 91)

## 8.8 Preparing for rides at low temperature or in snow



- Fit a waterproofing device on the air filter.

Waterproofing device for air filter (77206921100)



### Info

See the **Husqvarna Motorcycles** accessories fitting instructions.



## 9.1 Checks and maintenance work when preparing for use

### **i** Info

Before riding the vehicle, always check its condition and operating safety. The vehicle must be in perfect technical condition when used.

- Check the engine oil level. (☞ p. 96)
- Check the electrical system.
- Check the front brake fluid level. (☞ p. 70)
- Check the rear brake fluid level. (☞ p. 74)
- Check the front brake linings. (☞ p. 71)
- Check the rear brake linings. (☞ p. 75)
- Check that the brake system is functioning properly.
- Check the coolant level. (☞ p. 91)
- Check for chain dirt accumulation. (☞ p. 62)
- Check the chain, rear sprocket, engine sprocket, and chain guide. (☞ p. 64)
- Check the chain tension. (☞ p. 62)
- Check the tire condition. (☞ p. 80)
- Check the tire air pressure. (☞ p. 81)
- Check the spoke tension. (☞ p. 81)
- Clean the dust boots of the fork legs. (☞ p. 44)
- Bleed the fork legs. (☞ p. 44)
- Check the air filter.
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check all screws, nuts, and hose clamps regularly for tightness.
- Check the fuel supply.

## 9.2 Starting

### **!** Danger

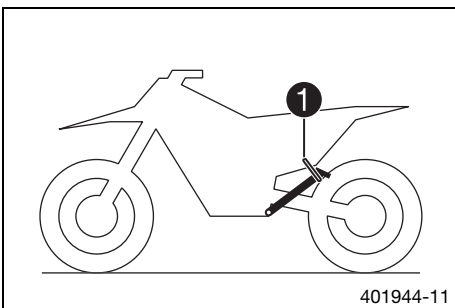
**Danger of poisoning** Exhaust gases are toxic and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

### Note

**Engine failure** High engine speeds in cold engines have a negative effect on the service life of the engine.

- Always warm up the engine at low engine speeds.

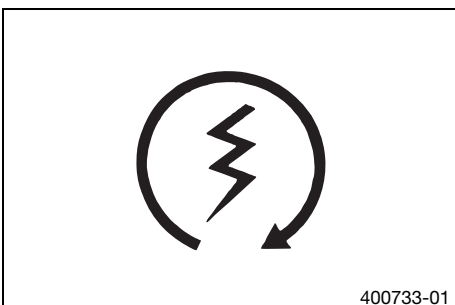


- Raise the motorcycle off of the stand and secure the stand with the rubber band **1**.
- Shift transmission to neutral.
- Turn the key in the ignition lock to the position  $\odot$ .
- Turn the emergency OFF switch to the position  $\odot$ .

### Condition

Ambient temperature: < 20 °C (< 68 °F)

- Pull the idle speed adjusting screw all the way out.



- Press the electric starter button.

### **i** Info

Press the electric starter button for at most 5 seconds. Wait for a least 5 seconds before trying again.

Warning lamp **FI** lights up briefly as a functional control when starting.

## 9.3 Starting off



### Info

Switch on the light before riding the vehicle. You will be seen earlier by other motorists. While riding, the side stand must be folded up and secured with the rubber band.

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

## 9.4 Shifting, riding



### Warning

**Danger of accidents** If you change down at high engine speed, the rear wheel can lock up.

- Do not change into a low gear at high engine speed. The engine races and the rear wheel can lock up.



### Info

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

First gear is used for starting off or for steep inclines.

- Shift into a higher gear when conditions allow (incline, road situation, etc.). To do so, release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch lever and open the throttle.
- 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.
- Always open the throttle only as much as the engine can handle – abrupt throttle opening increases fuel consumption.
- To shift down, apply the brakes and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and either open the throttle or shift again.
- Switch off the engine if you expect to be standing for a long time.

Guideline

$\geq 2$ min
--------------

- Avoid frequent and longer slipping of the clutch. This heats the engine oil, the engine, and the cooling system.
- Ride with a lower engine speed instead of with a high engine speed and a slipping clutch.

## 9.5 Braking



### Warning

**Danger of accidents** If you brake too hard, the wheels can lock.

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



### Warning

**Danger of accidents** Reduced braking efficiency caused by spongy pressure point of front or rear brake.

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



### Warning

**Danger of accidents** Reduced braking efficiency due to a wet or dirty brake system.

- Clean or dry a dirty or wet brake system by riding and braking gently.

- On sandy, wet or slippery surfaces, use the rear brake.
- Braking should always be completed before you go into a bend. Change down to a lower gear appropriate to your road speed.
- Make use of the braking effect of the engine when driving down long downhill stretches. To do so, shift back one or two gears, but do not overrev the engine. You will need to apply the brakes far less often and the brake system will not overheat.

## 9.6 Stopping, parking



### Warning

**Risk of misappropriation** Usage by unauthorized persons.

- Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons.



### Warning

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

- Do not touch hot components such as exhaust system, radiator, engine, shock absorber, and the brake system. Allow these components to cool down before starting work on them.

### Note

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

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

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

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

### Note

**Fire hazard** Some vehicle components become very hot when the vehicle is operated.

- Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.

- Apply the brakes on the motorcycle.
- Shift transmission to neutral.
- While the engine is idling, turn the key in the ignition lock 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 key – the emergency OFF switch is intended for emergencies only.

- Park the motorcycle on firm ground.

## 9.7 Transport

### Note

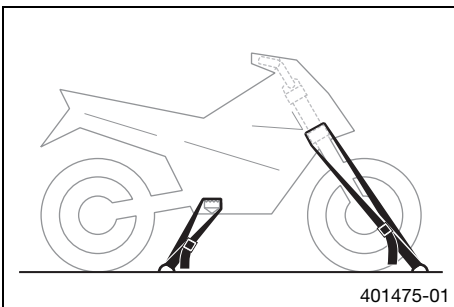
**Danger of damage** The parked vehicle may roll away or fall over.

- Always place the vehicle on a firm and even surface.

### Note

**Fire hazard** Some vehicle components become very hot when the vehicle is operated.

- Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.



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

## 9.8 Refueling



### Danger

**Fire hazard** Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- The fuel in the fuel tank expands when warm and may emerge if overfilled. Follow the instructions on refueling.



### Warning

**Danger of poisoning** Fuel is poisonous and a health hazard.

- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with fuel.

### Note

**Material damage** Premature clogging of the fuel filter.

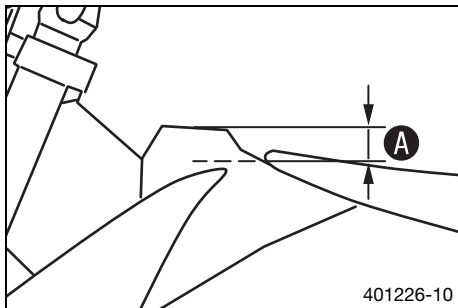
- In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)
- Only refuel with clean fuel that meets the specified standards.



### Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.



- Switch off engine.
- Open the filler cap. (☞ p. 19)
- Fill the fuel tank with fuel up to measurement **A**.

#### Guideline

Measurement of <b>A</b>	35 mm (1.38 in)	
Total fuel tank capacity, approx.	8.5 l (2.25 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (☞ p. 112)

- Close the filler cap. (☞ p. 19)

10.1 Service schedule			
	Every 30 operating hours/after every race	Every 15 operating hours	Once after 1 operating hour
Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️	○	●	●
Check that the electrical equipment is functioning properly.	○	●	●
Check and charge the battery. 🛠️		●	●
Check the front brake linings. (🛠️ p. 71)		●	●
Check the rear brake linings. (🛠️ p. 75)		●	●
Check the brake discs. (🛠️ p. 69)		●	●
Check the brake lines for damage and leakage.		●	●
Check the rear brake fluid level. (🛠️ p. 74)		●	●
Check the free travel of the foot brake lever. (🛠️ p. 73)		●	●
Check the frame and swingarm. 🛠️		●	●
Check the swingarm bearing. 🛠️			●
Check the heim joints at the top of the shock absorber. 🛠️		●	●
Check the shock absorber linkage. 🛠️		●	●
Check the tire condition. (🛠️ p. 80)	○	●	●
Check the tire air pressure. (🛠️ p. 81)	○	●	●
Check the wheel bearing for play. 🛠️		●	●
Check the wheel hubs. 🛠️		●	●
Check the rim run-out. 🛠️	○	●	●
Check the spoke tension. (🛠️ p. 81)	○	●	●
Check the chain, rear sprocket, engine sprocket, and chain guide. (🛠️ p. 64)		●	●
Check the chain tension. (🛠️ p. 62)	○	●	●
Grease all moving parts (e.g., side stand, hand lever, chain, ...) and check for smooth operation. 🛠️		●	●
Check/rectify the fluid level of the hydraulic clutch. (🛠️ p. 67)		●	●
Check the front brake fluid level. (🛠️ p. 70)		●	●
Check the free travel of the hand brake lever. (🛠️ p. 69)		●	●
Check the steering head bearing play. (🛠️ p. 49)	○	●	●
Check the valve clearance. 🛠️	○		●
Check the clutch. 🛠️			●
Change the engine oil and oil filter and clean the oil screens. 🛠️ (🛠️ p. 97)	○	●	●
Check all hoses (e. g., fuel, cooling, bleeding, drainage) and sleeves for cracking, leaks, and incorrect routing. 🛠️	○	●	●
Check the antifreeze and coolant level. (🛠️ p. 90)	○	●	●
Check the cables for damage and routing without sharp bends. 🛠️		●	●
Check that the cables are undamaged, routed without sharp bends and set correctly.	○	●	●
Clean the air filter and air filter box. 🛠️		●	●
Change the glass fiber yarn filling of the main silencer. 🛠️ (🛠️ p. 58)			●
Check the screws and nuts for tightness. 🛠️	○	●	●
Check the headlight setting. (🛠️ p. 88)	○	●	●
Change fuel screen. 🛠️ (🛠️ p. 96)	○	●	●
Check the fuel pressure. 🛠️		●	●
Adjust the idle speed. 🛠️ (🛠️ p. 94)	○	●	●
Check that the radiator fan is functioning properly. 🛠️	○	●	●
Final check: Check the vehicle for roadworthiness and take a test ride.	○	●	●
Read out the fault memory after the test ride using the Husqvarna Motorcycles diagnostics tool. 🛠️	○	●	●
Make the service entry in the <b>Husqvarna Motorcycles Dealer.net</b> and in the Service and Warranty Booklet. 🛠️	○	●	●

○ One-time interval

- Periodic interval

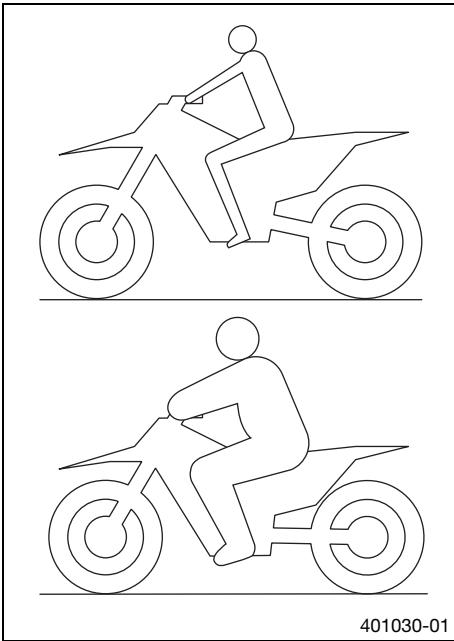
## 10.2 Service work (as additional order)

	Annually		
	Every 135 operating hours	Every 70 operating hours after sporting use	Every 45 operating hours
	Once after 15 operating hours		
Change the front brake fluid. 🛠️			•
Change the rear brake fluid. 🛠️			•
Change the hydraulic clutch fluid. 🛠️ (🔧 p. 67)			•
Lubricate the steering head bearing. 🛠️ (🔧 p. 50)			•
Clean the spark arrestor. 🛠️			•
Perform a fork service. 🛠️	○	•	•
Service the shock absorber. 🛠️		•	•
Change the spark plug and spark plug connector. 🛠️			• •
Change the piston. 🛠️			• •
Check/measure the cylinder. 🛠️			• •
Check the cylinder head. 🛠️			• •
Change the valves, valve springs and valve spring seats. 🛠️			• •
Check the camshaft and rocker arm. 🛠️			• •
Change the connecting rod, conrod bearing, and crank pin. 🛠️			• •
Change the shaft seal rings of the water pump. 🛠️			• •
Check the transmission and shift mechanism. 🛠️			• •
Check the oil pressure regulator valve. 🛠️			• •
Change the suction pump. 🛠️			• •
Check the oil pumps and lubrication system. 🛠️			• •
Change the timing chain. 🛠️			• •
Check the timing assembly. 🛠️			• •
Change all engine bearings. 🛠️			• •

- One-time interval
- Periodic interval

## 11.1 Checking the basic chassis setting with the rider's weight

**Info**  
When adjusting the basic chassis setting, first adjust the shock absorber and then the fork.



401030-01

- For optimal motorcycle riding characteristics and to avoid damage to forks, shock absorbers, swingarm and frame, the basic settings of the suspension components must match the rider's weight.
- As delivered, Husqvarna motorcycles are adjusted for an average rider's weight (with full protective clothing).

Guideline

Standard rider weight	75... 85 kg (165... 187 lb.)
-----------------------	------------------------------

- If the rider's weight is above or below this range, the basic setting of the suspension components must be adjusted accordingly.
- Small weight differences can be compensated by adjusting the spring preload, but in the case of large weight differences, the springs must be replaced.

## 11.2 Compression damping of shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed.

High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.

The high-speed setting, for example, has an effect on the landing after a jump: the rear wheel suspension compresses more quickly.

The low-speed setting, for example, has an effect when riding over long ground swells: the rear wheel suspension compresses more slowly.

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

## 11.3 Adjusting the low-speed compression damping of the shock absorber

**Caution**  
**Danger of accidents** Disassembly of pressurized parts can lead to injury.

- The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

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



H00172-10

- Turn adjusting screw **1** clockwise with a screwdriver up to the last perceptible click.

**Info**  
Do not loosen fitting **2**!

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

Guideline

Compression damping, low-speed	
Comfort	20 clicks
Standard	18 clicks
Sport	16 clicks



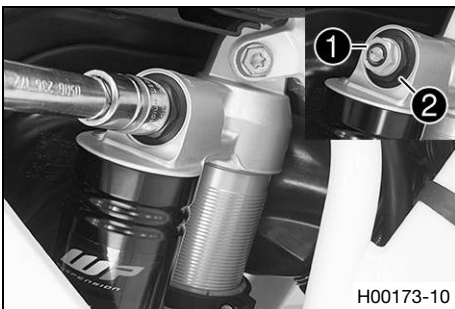
**Info**

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

## 11.4 Adjusting the high-speed compression damping of the shock absorber

- Caution**  
**Danger of accidents** Disassembly of pressurized parts can lead to injury.
- The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

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



- Turn adjusting screw **1** all the way clockwise with a socket wrench.



**Info**

Do not loosen fitting **2**!

- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

**Guideline**

Compression damping, high-speed	
Comfort	2.5 turns
Standard	2 turns
Sport	1.5 turns

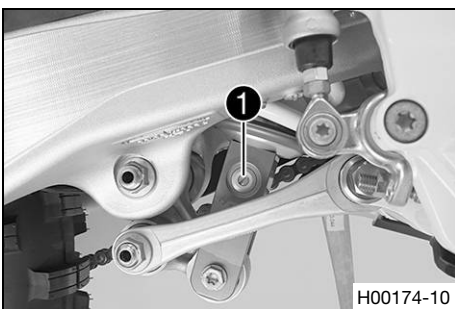


**Info**

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

## 11.5 Adjusting the rebound damping of the shock absorber

- Caution**  
**Danger of accidents** Disassembly of pressurized parts can lead to injury.
- The shock absorber is filled with high density nitrogen. Adhere to 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	18 clicks
Sport	16 clicks

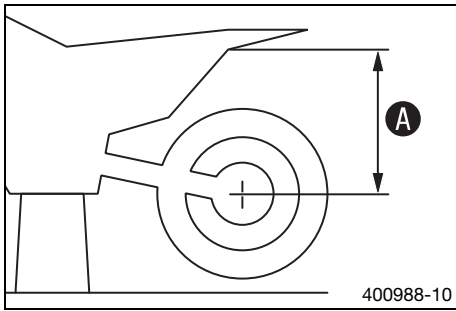


**Info**

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



## 11.6 Measuring rear wheel sag unloaded



### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)

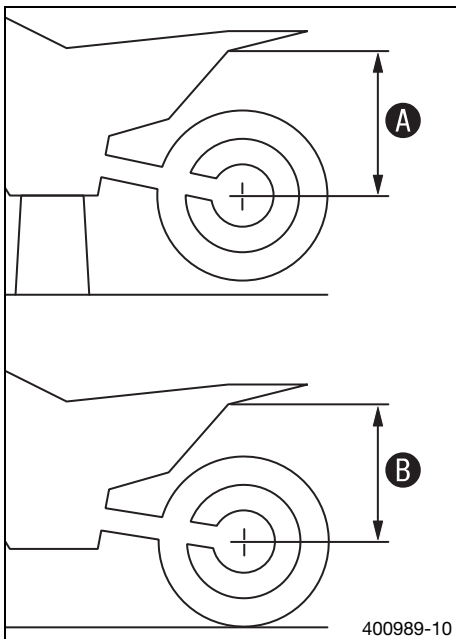
### Main work

- Measure the distance – as vertically as possible – between the rear axle and a fixed point such as a mark on the side cover.
- Make note of the value as measurement **A**.

### Finishing work

- Remove the motorcycle from the lift stand. (☞ p. 44)

## 11.7 Checking the static sag of the shock absorber



- Measure distance **A** of rear wheel unloaded. (☞ p. 39)
- Hold the motorcycle upright with the aid of an assistant.
- Measure the distance between the rear axle and the fixed point again.
- Note down the value as dimension **B**.

### **i** Info

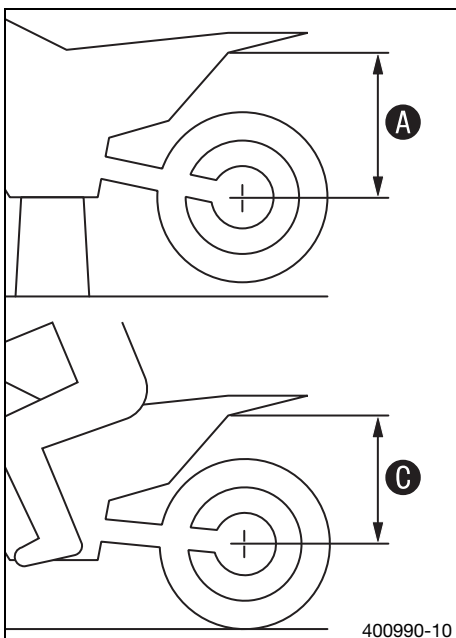
The static sag is the difference between measurements **A** and **B**.

- Check the static sag.

Static sag	30 mm (1.18 in)
------------	-----------------

- » If the static sag is less or more than the specified value:
  - Adjust the spring preload of the shock absorber. ☞ (☞ p. 40)

## 11.8 Checking the riding sag of the shock absorber



- Measure distance **A** of rear wheel unloaded. (☞ p. 39)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal sitting position (feet on footrests) and bounces up and down a few times.
  - ✓ The rear wheel suspension levels out.
- Another person now measures the distance between the rear axle and the fixed point.
- Note down the value as dimension **C**.

### **i** Info

The riding sag is the difference between measurements **A** and **C**.

- Check the riding sag.

Riding sag	100 mm (3.94 in)
------------	------------------

- » If the riding sag differs from the specified measurement:
  - Adjust the riding sag. ☞ (☞ p. 41)

## 11.9 Adjusting the spring preload of the shock absorber ↘

### ⚠ Caution

**Danger of accidents** Disassembly of pressurized parts can lead to injury.

- The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

### i Info

Before changing the spring preload, make a note of the present setting, e.g., by measuring the length of the spring.

#### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the right side cover. (☞ p. 59)
- Remove the main silencer. (☞ p. 57)
- Remove the seat. (☞ p. 51)
- Remove the fuel tank. ↘ (☞ p. 60)
- Remove the manifold. ↘ (☞ p. 54)
- Remove shock absorber. ↘ (☞ p. 51)
- After removing the shock absorber, clean it thoroughly.

#### Main work

- Loosen screw ❶.
- Turn adjusting ring ❷ until the spring is no longer under tension.

Hook wrench (T106S)
---------------------

- Measure the overall spring length while the spring is not under tension.
- Tighten the spring by turning adjusting ring ❷ to measurement A.

#### Guideline

Spring preload	15 mm (0.59 in)
----------------	-----------------

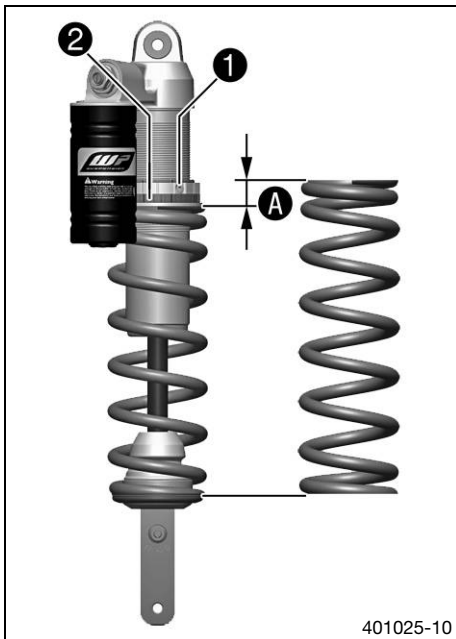
### i Info

Depending on the static sag and/or the riding sag, it may be necessary to increase or decrease the spring preload.

- Tighten screw ❶.

#### Guideline

Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
--------------------------------------	----	-------------------



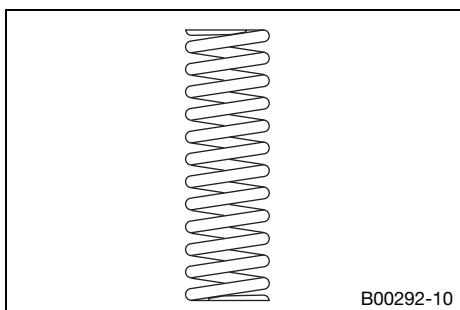
#### Finishing work

- Install the shock absorber. ↘ (☞ p. 51)
- Install the manifold. ↘ (☞ p. 56)
- Install the fuel tank. ↘ (☞ p. 61)
- Mount the seat. (☞ p. 52)
- Install the main silencer. (☞ p. 57)
- Install the right side cover. (☞ p. 59)
- Remove the motorcycle from the lift stand. (☞ p. 44)

## 11.10 Adjusting the riding sag ↘

### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the right side cover. (☞ p. 59)
- Remove the main silencer. (☞ p. 57)
- Remove the seat. (☞ p. 51)
- Remove the fuel tank. ↘ (☞ p. 60)
- Remove the manifold. ↘ (☞ p. 54)
- Remove shock absorber. ↘ (☞ p. 51)
- After removing the shock absorber, clean it thoroughly.



### Main work

- Choose and mount a suitable spring.

#### Guideline

Spring rate	
Weight of rider: 65... 75 kg (143... 165 lb.)	54 N/mm (308 lb/in)
Weight of rider: 75... 85 kg (165... 187 lb.)	57 N/mm (325 lb/in)
Weight of rider: 85... 95 kg (187... 209 lb.)	60 N/mm (343 lb/in)

### **i** Info

The spring rate is shown on the outside of the spring. Smaller weight differences can be compensated by changing the spring preload.

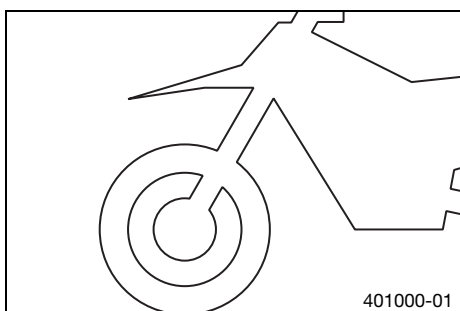
### Finishing work

- Install the shock absorber. ↘ (☞ p. 51)
- Install the manifold. ↘ (☞ p. 56)
- Install the fuel tank. ↘ (☞ p. 61)
- Mount the seat. (☞ p. 52)
- Install the main silencer. (☞ p. 57)
- Install the right side cover. (☞ p. 59)
- Remove the motorcycle from the lift stand. (☞ p. 44)
- Check the static sag of the shock absorber. (☞ p. 39)
- Check the riding sag of the shock absorber. (☞ p. 39)
- Adjust the rebound damping of the shock absorber. (☞ p. 38)

## 11.11 Checking basic setting of fork

### **i** Info

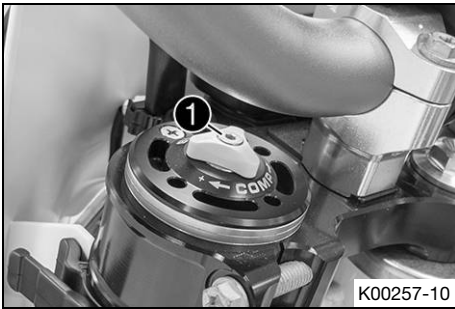
For various reasons, no exact riding sag can be determined for the forks.



- As with the shock absorber, smaller differences in the rider's weight can be compensated by the spring preload.
- However, if the fork is often overloaded (hard end stop on compression), harder springs must be fit to avoid damage to the fork and frame.

## 11.12 Adjusting the compression damping of the fork

**i Info**  
The hydraulic compression damping determines the fork suspension behavior.



- Turn white adjusting screw **1** all the way clockwise.

**i 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	14 clicks
Standard	12 clicks
Sport	10 clicks

**i Info**  
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

## 11.13 Adjusting the rebound damping of the fork

**i Info**  
The hydraulic rebound damping determines the fork suspension behavior.



- Turn the red adjusting screw **1** all the way clockwise.

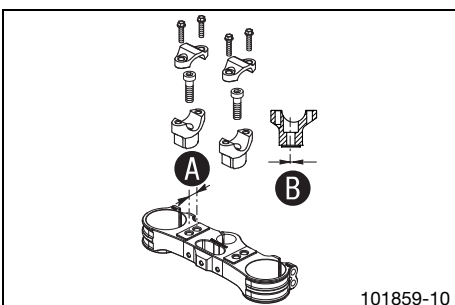
**i Info**  
The adjusting screw **1** is located at the upper end of the right fork leg. The rebound damping is located in the right fork leg **REB** (red adjusting screw). The compression damping is located in the left fork leg **COMP** (white adjusting screw).

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

Rebound damping	
Comfort	14 clicks
Standard	12 clicks
Sport	10 clicks

**i Info**  
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

## 11.14 Handlebar position



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

Hole distance <b>A</b>	15 mm (0.59 in)
------------------------	-----------------

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

Hole distance <b>B</b>	3.5 mm (0.138 in)
------------------------	-------------------

The handlebar supports can be mounted in four different positions.

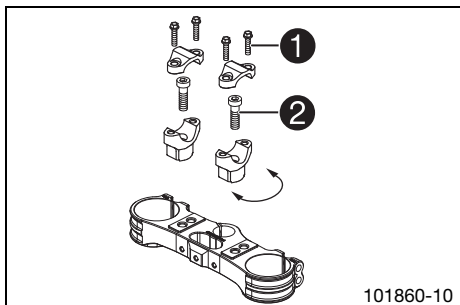
## 11.15 Adjusting the handlebar position ↗



### Warning

**Danger of accidents** Handlebar breakage.

- If the handlebar is bent or straightened it will cause material fatigue, and the handlebar can break. Always replace handlebar.



- Remove screws ❶. Take off the handlebar clamps. Take off the handlebar and lay it to one side.



### Info

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

- Remove screws ❷. Take off the handlebar supports.
- Place the handlebar supports in the required position. Mount and tighten screws ❷.

Guideline

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



### Info

Position the left and right handlebar holders evenly.

- Position the handlebar.



### Info

Make sure the cables and wiring are positioned correctly.

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

Guideline

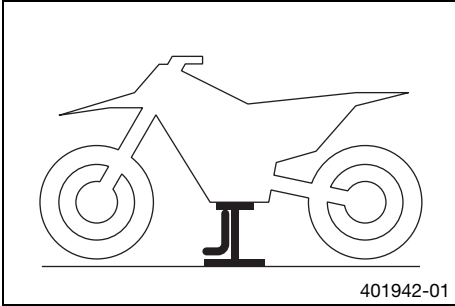
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
------------------------	----	---------------------



### Info

Make sure the gap width is even.

## 12.1 Raising the motorcycle with a lift stand



**Note**

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

- Always place the vehicle on a firm and even surface.
- Raise the motorcycle at the frame underneath the engine.

Lift stand (81329955100)

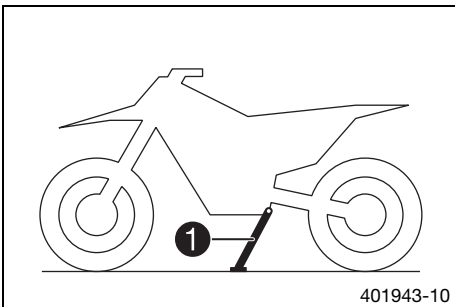
- ✓ Neither wheel is in contact with the ground.
- Secure the motorcycle against falling over.

## 12.2 Removing the motorcycle from the lift stand

**Note**

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

- Always place the vehicle on a firm and even surface.

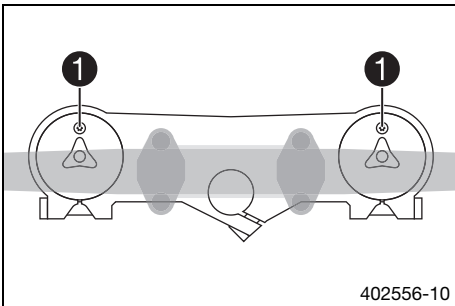


- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, press side stand (1) to the ground with your foot and lean the motorcycle on it.

**i Info**

When you are riding, the side stand must be folded up and secured with the rubber band.

## 12.3 Bleeding the fork legs



**Preparatory work**

- Raise the motorcycle with a lift stand. (☞ p. 44)

**Main work**

- Release bleeder screws (1).
- ✓ Any excess pressure escapes from the interior of the fork.
- Tighten the bleeder screws.

**Finishing work**

- Remove the motorcycle from the lift stand. (☞ p. 44)

## 12.4 Cleaning the dust boots of the fork legs



**Preparatory work**

- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the fork protector. (☞ p. 45)

**Main work**

- Push dust boots (1) of both fork legs downward.

**i Info**

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



**Warning**

**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.

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

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

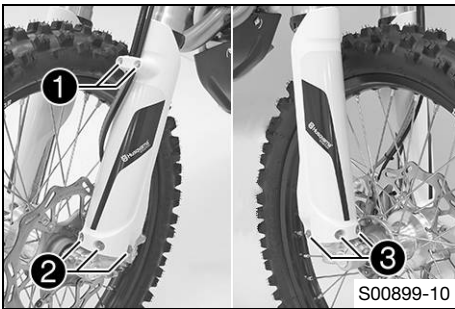
Universal oil spray (☛ p. 113)

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

**Finishing work**

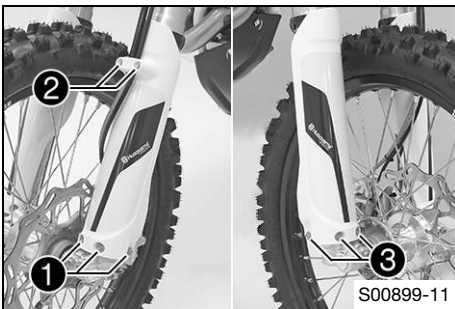
- Install the fork protector. (☛ p. 45)
- Remove the motorcycle from the lift stand. (☛ p. 44)

## 12.5 Removing the fork protector



- Remove screws ① and take off the clamp.
- Remove screws ② on the left fork leg. Take off the fork protector.
- Remove screws ③ on the right fork leg. Take off the fork protector.

## 12.6 Installing the fork protector



- Position the fork protector on the left fork leg. Mount and tighten screws ①.

**Guideline**

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

- Position the brake line, wiring harness, and clamp. Mount and tighten screws ②.
- Position the fork protector on the right fork leg. Mount and tighten screws ③.

**Guideline**

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

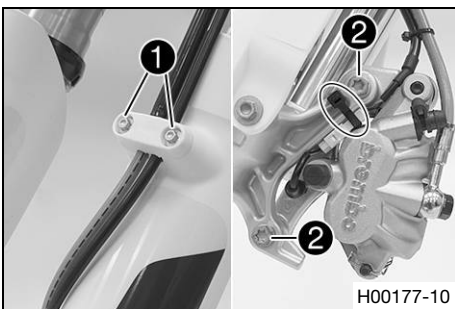
## 12.7 Removing the fork legs

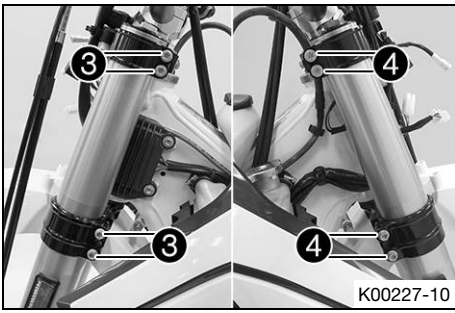
**Preparatory work**

- Switch off all power consumers and switch off the engine.
- Remove the headlight mask with the headlight. (☛ p. 86)
- Raise the motorcycle with a lift stand. (☛ p. 44)
- Remove the front wheel. ☛ (☛ p. 78)

**Main work**

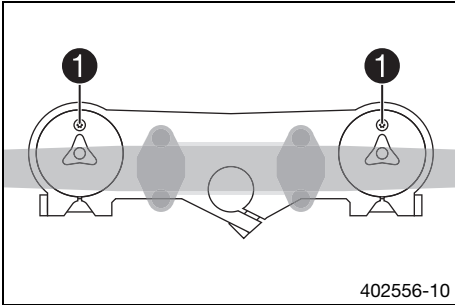
- Remove screws ① and take off the clamp.
- Remove the cable tie(s).
- Remove screws ② and take off the brake caliper.
- Allow the brake caliper and brake line to hang tension-free to the side.





- Release screws **3**. Take out the left fork leg.
- Release screws **4**. Take out the right fork leg.

## 12.8 Installing the fork legs



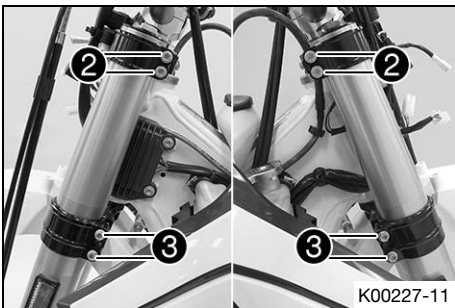
### Main work

- Position the fork legs.
- ✓ Bleeder screws **1** are positioned toward the front.

### Info

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

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the top edge of the upper triple clamp.



- Tighten screws **2**.

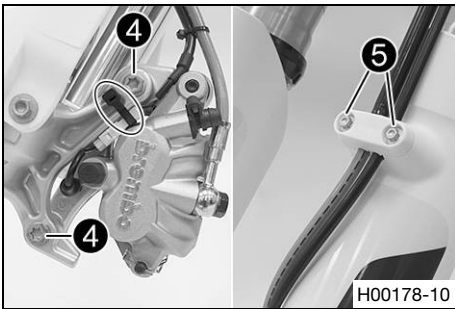
### Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------

- Tighten screws **3**.

### Guideline

Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)
----------------------------	----	---------------------



- Position the brake caliper, and mount and tighten screws **4**.

### Guideline

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
----------------------------	----	---------------------	----------------------

- Mount the cable tie(s).
- Position the brake line, wiring harness, and clamp. Mount and tighten screws **5**.

### Finishing work

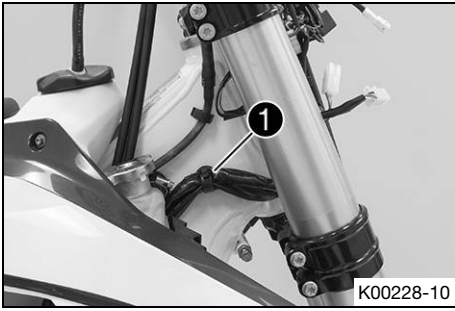
- Install the front wheel. (☞ p. 78)
- Install the headlight mask with the headlight. (☞ p. 87)
- Check the headlight setting. (☞ p. 88)

## 12.9 Removing the lower triple clamp

### Preparatory work

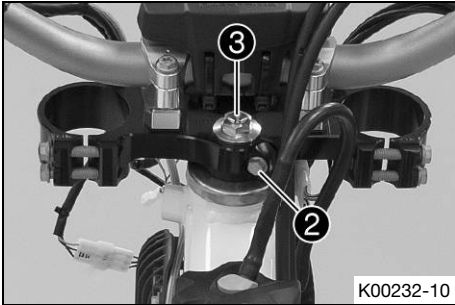
- Switch off all power consumers and switch off the engine.
- Remove the headlight mask with the headlight. (☞ p. 86)
- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the front wheel. (☞ p. 78)
- Remove the fork legs. (☞ p. 45)
- Remove the front fender. (☞ p. 50)





**Main work**

- Open cable holder **1** in front of the right radiator and detach the wiring harness.

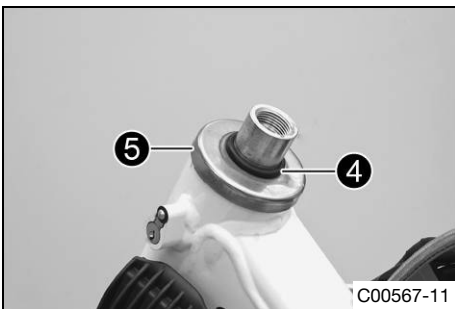


- Remove screw **2**. Remove screw **3**, take off the upper triple clamp with the handlebar and set it aside.



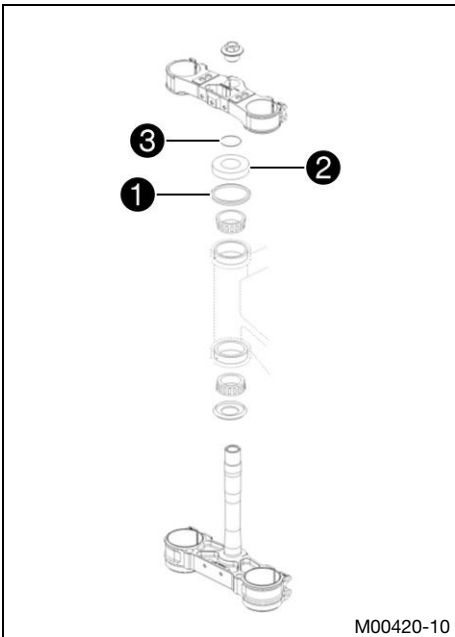
**Info**

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



- Remove O-ring **4**. Remove protective ring **5**.
- Take off the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.

## 12.10 Installing the lower triple clamp

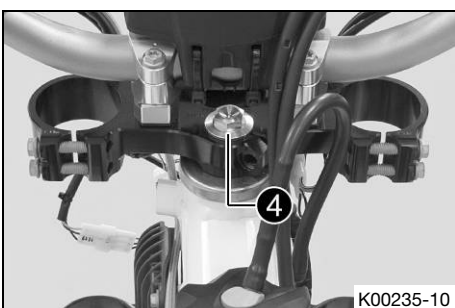


**Main work**

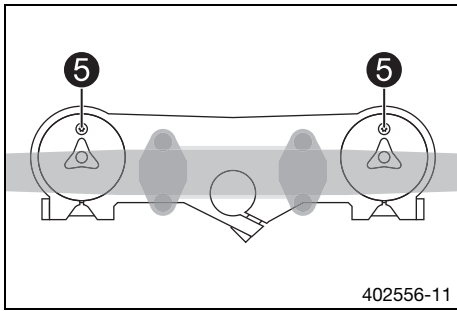
- Clean the bearing and sealing elements, check for damage, and grease.

High viscosity grease (☛ p. 113)

- Position the lower triple clamp with the steering stem. Mount the upper steering head bearing.
- Check whether upper steering head seal **1** is correctly positioned.
- Mount protective ring **2** and O-ring **3**.



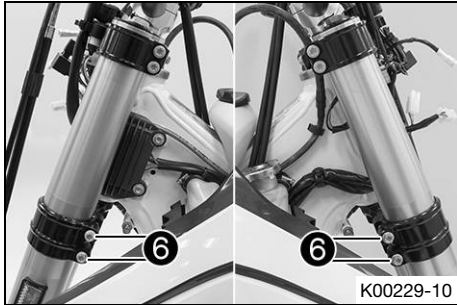
- Position the upper triple clamp with the handlebar.
- Mount screw **4** but do not tighten yet.
- Position the clutch line in the guidance above the voltage regulator.



- Position the fork legs.
- ✓ Bleeder screws **5** are positioned toward the front.

**i Info**

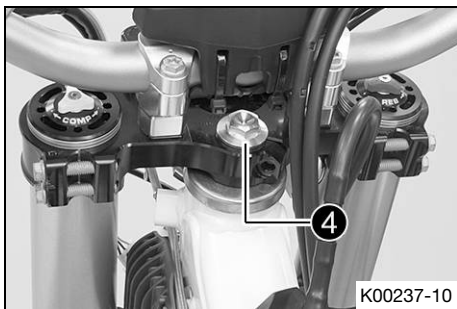
The compression damping is located in left fork leg **COMP** (white adjusting screw). The rebound damping is located in right fork leg **REB** (red adjusting screw). Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the top edge of the upper triple clamp.



- Tighten screws **6**.

Guideline

Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)
----------------------------	----	---------------------



- Tighten screw **4**.

Guideline

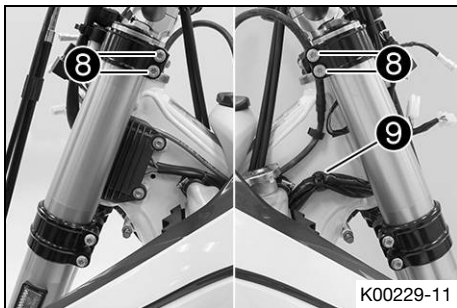
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
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- Mount and tighten screw **7**.

Guideline

Screw, top steering stem	M8	17 Nm (12.5 lbf ft)	<b>Loctite® 243™</b>
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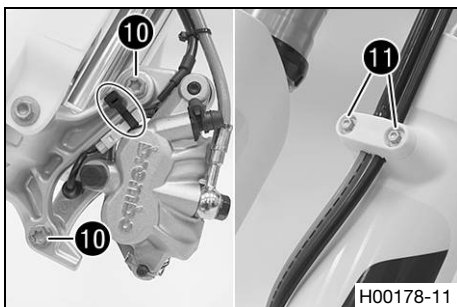


- Tighten screws **8**.

Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------

- Secure the wiring harness with cable holder **9**.



- Position the brake caliper. Mount and tighten screws **10**.

Guideline

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
----------------------------	----	---------------------	----------------------

- Mount the cable tie(s).

- Position the brake line, wiring harness, and clamp. Mount and tighten screws **11**.

**Finishing work**

- Install the front fender. (☛ p. 50)

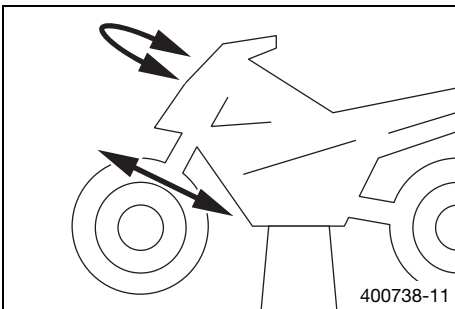
- Install the front wheel. ↩ (☞ p. 78)
- Install the headlight mask with the headlight. (☞ p. 87)
- Check that the wiring harness, throttle cables, and brake and clutch lines can move freely and are routed correctly.
- Check the steering head bearing play. (☞ p. 49)
- Remove the motorcycle from the lift stand. (☞ p. 44)
- Check the headlight setting. (☞ p. 88)

## 12.11 Checking the steering head bearing play

**Warning**  
**Danger of accidents** Unstable vehicle handling from incorrect steering head bearing play.

- Adjust the steering head bearing play without delay. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Info**  
 If the bike is ridden with play in the steering head bearing, the bearing and the bearing seats in the frame can become damaged over time.



### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)

### Main work

- Move the handlebar to the straight-ahead position. Move the fork legs to and fro in the direction of travel.

No play should be noticeable in the steering head bearing.

» If there is noticeable play present:

- Adjust the steering head bearing play. ↩ (☞ p. 49)
- Move the handlebar to and fro over the entire steering range.

The handlebar must be able to move easily over the entire steering range. No resting locations should be noticeable.

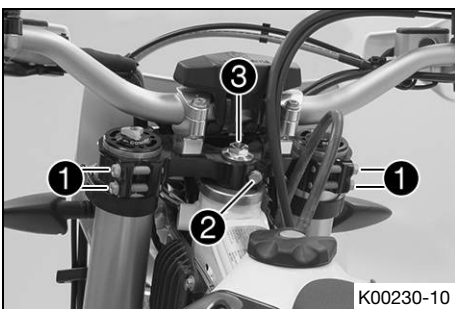
» If click positions are noticeable:

- Adjust the steering head bearing play. ↩ (☞ p. 49)
- Check the steering head bearing and replace if required.

### Finishing work

- Remove the motorcycle from the lift stand. (☞ p. 44)

## 12.12 Adjusting the steering head bearing play ↩



### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)

### Main work

- Loosen screws ❶. Remove screw ❷.
- Loosen and retighten screw ❸.

#### Guideline

Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
--------------------------	---------	--------------------

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid strains.
- Tighten screws ❶.

#### Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
-------------------------	----	---------------------

- Mount and tighten screw ❷.

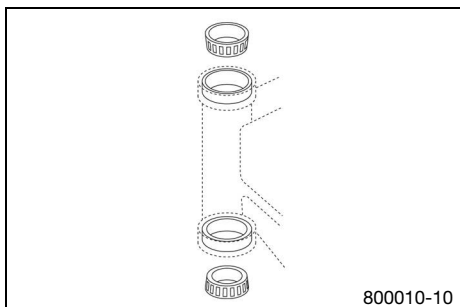
#### Guideline

Screw, top steering stem	M8	17 Nm (12.5 lbf ft)	Loctite® 243™
--------------------------	----	---------------------	---------------

### Finishing work

- Check the steering head bearing play. (☞ p. 49)
- Remove the motorcycle from the lift stand. (☞ p. 44)

## 12.13 Lubricating the steering head bearing



- Remove the lower triple clamp. (☞ p. 46)
- Install the lower triple clamp. (☞ p. 47)

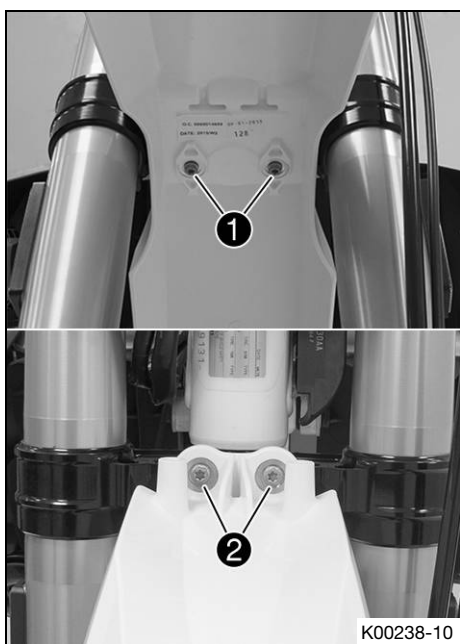
## 12.14 Removing the front fender

### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the headlight mask with the headlight. (☞ p. 86)

### Main work

- Remove screws ① and ②. Remove the front fender.



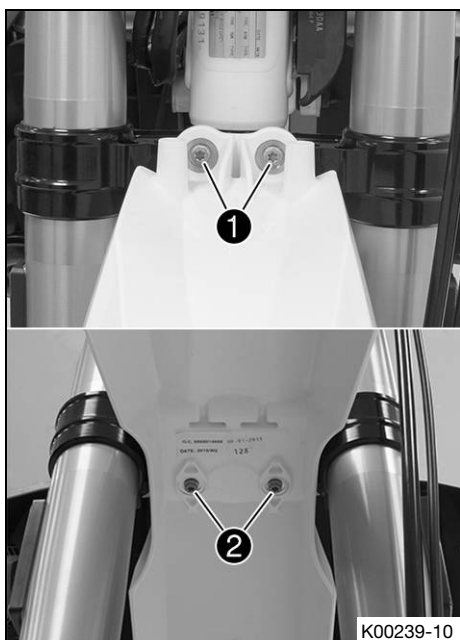
## 12.15 Installing the front fender

### Main work

- Position the front fender. Mount and tighten screws ① and ②.

### Guideline

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



### Finishing work

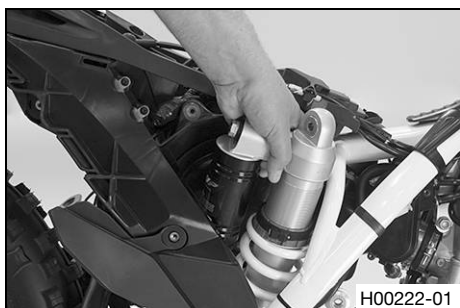
- Install the headlight mask with the headlight. (☞ p. 87)

- Check the headlight setting. (☞ p. 88)

## 12.16 Removing the shock absorber ☞

### Preparatory work

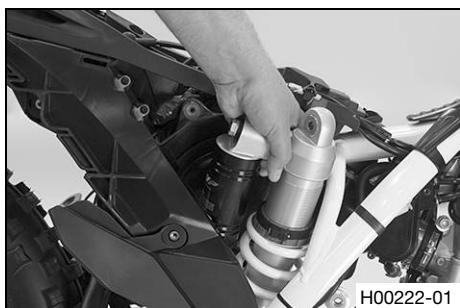
- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the right side cover. (☞ p. 59)
- Remove the main silencer. (☞ p. 57)
- Remove the seat. (☞ p. 51)
- Remove the fuel tank. ☞ (☞ p. 60)
- Remove the manifold. ☞ (☞ p. 54)



### Main work

- Carefully take the shock absorber out of the vehicle toward the top.

## 12.17 Installing the shock absorber ☞



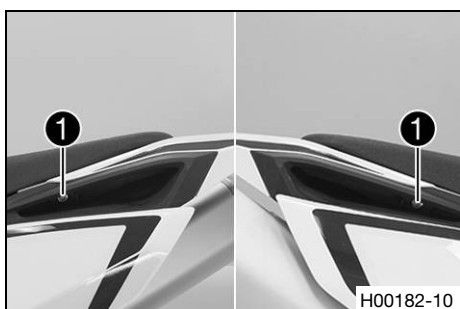
### Main work

- Carefully position the shock absorber into the vehicle from above.

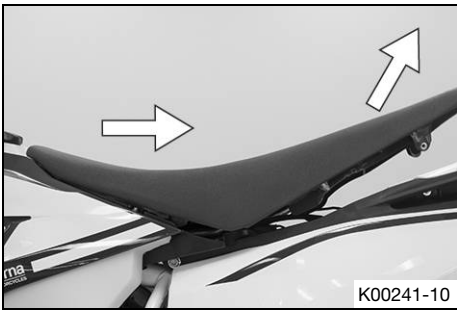
### Finishing work

- Install the manifold. ☞ (☞ p. 56)
- Install the fuel tank. ☞ (☞ p. 61)
- Mount the seat. (☞ p. 52)
- Install the main silencer. (☞ p. 57)
- Install the right side cover. (☞ p. 59)
- Remove the motorcycle from the lift stand. (☞ p. 44)

## 12.18 Removing the seat

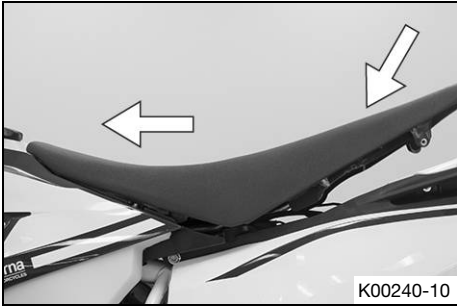


- Remove screws ❶.

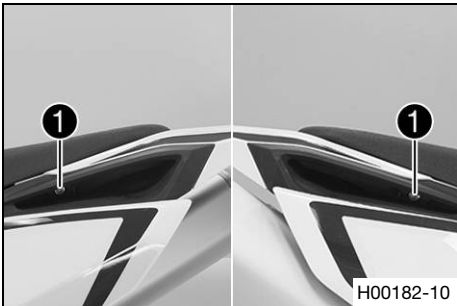


- Raise the rear of the seat, push the seat back, and lift it off.

## 12.19 Mounting the seat



- Mount the front of the seat on the collar bushing of the fuel tank, lower the seat at the rear, and simultaneously push the seat forward.
- ✓ The seat is correctly engaged.

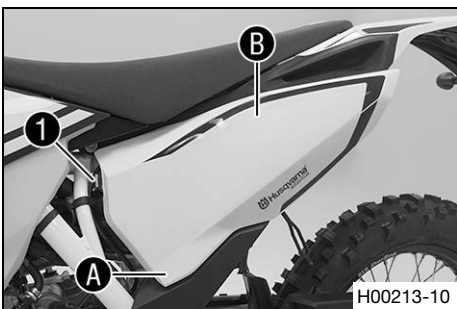


- Mount and tighten the seat fixing screws **1**.

Guideline

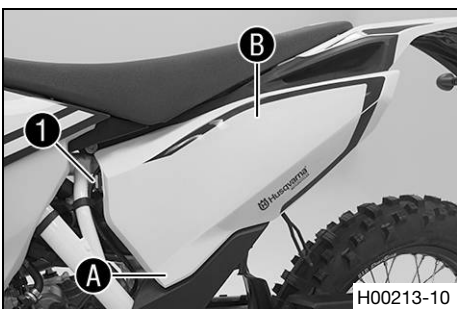
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
---------------------------	----	--------------------

## 12.20 Removing the air filter box lid



- Release catch **1**, pull off the air filter box lid sideways in areas **A** and **B** and remove toward the rear.

## 12.21 Installing the air filter box lid



- Position the air filter box lid and tab **1**. Engage the air filter box lid in areas **A** and **B**.
- Engage tab **1**.

## 12.22 Removing the air filter ↘

**Note**

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

- Never operate the vehicle without an air filter as dust and dirt will enter the engine and lead to increased wear.

 **Warning**

**Environmental hazard** Hazardous substances cause environmental damage.

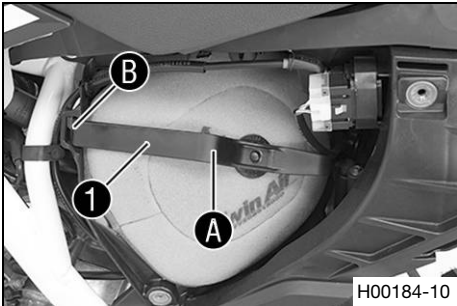
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

**Preparatory work**

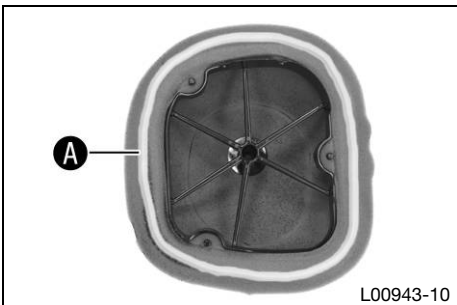
- Remove the air filter box lid. (☞ p. 52)

**Main work**

- Push air filter holding bracket ① toward the air filter at position ②, and detach it at end ③.
- Swivel the air filter holding bracket to one side and remove the air filter with the air filter support.
- Take off air filter from air filter support.



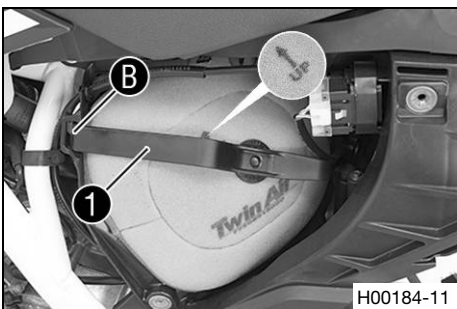
## 12.23 Installing the air filter ↘



**Main work**

- Mount the clean air filter on the air filter support.
- Grease the air filter in area ②.

Long-life grease (☞ p. 113)



- Insert both parts together, position them, and secure them using air filter holder ① in area ②.

✓ The arrow of marking **UP** faces up.

 **Info**

If the air filter is not mounted correctly, dust and dirt may enter the engine and result in damage.

**Finishing work**

- Install the air filter box lid. (☞ p. 52)

## 12.24 Cleaning the air filter and air filter box ↘

 **Warning**

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

 **Info**

Do not clean the air filter with fuel or petroleum since these substances attack the foam.

**Preparatory work**

- Remove the air filter box lid. (☞ p. 52)
- Remove the air filter. ↘ (☞ p. 53)



### Main work

- Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Air filter cleaning agent (☞ p. 113)



### Info

Only press the air filter to dry it, never wring it out.

- Oil the dry air filter with a high quality filter oil.

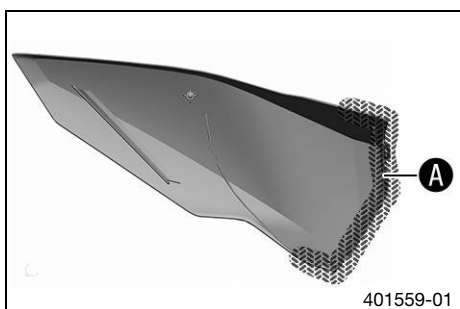
Oil for foam air filter (☞ p. 113)

- Clean the air filter box.
- Check the intake flange for damage and looseness.

### Finishing work

- Install the air filter. ☞ (☞ p. 53)
- Install the air filter box lid. (☞ p. 52)

## 12.25 Sealing the air filter box ☞



### Preparatory work

- Remove the air filter box lid. (☞ p. 52)

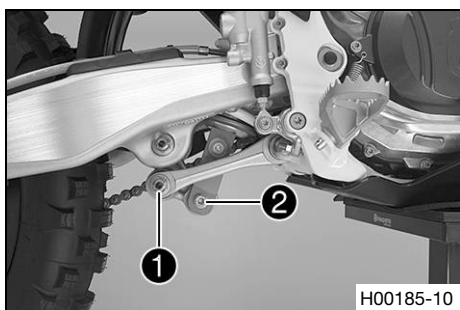
### Main work

- Seal the air filter box in the marked area **A**.

### Finishing work

- Install the air filter box lid. (☞ p. 52)

## 12.26 Removing the manifold ☞



### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)
- Remove the seat. (☞ p. 51)
- Remove the right side cover. (☞ p. 59)
- Remove the main silencer. (☞ p. 57)
- Remove the fuel tank. ☞ (☞ p. 60)

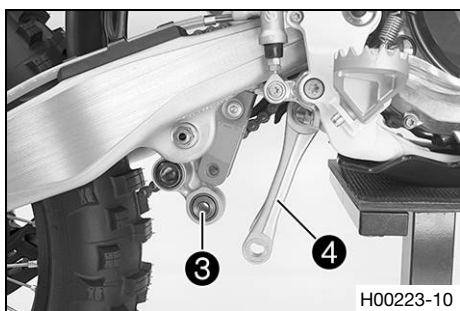
### Main work

- Remove fitting **1**.
- Remove screw **2**.



### Info

Raise the wheel slightly to be able to remove the screws more easily.

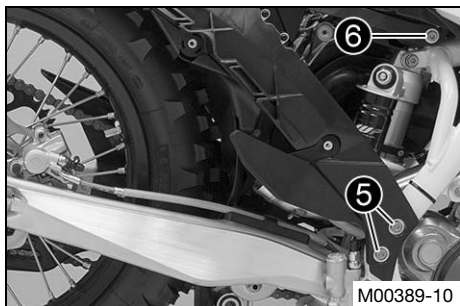


- Press angle lever **3** toward the rear.
- Press linkage lever **4** downward.





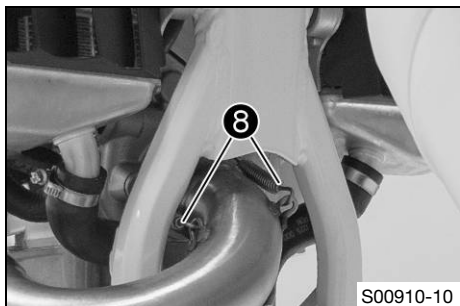
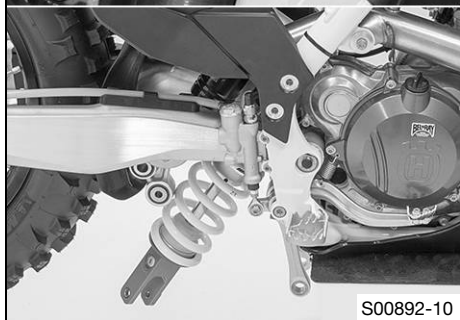
- Lift the swingarm.



- Remove screws 5 on both sides.
- Loosen screws 6 on both sides.

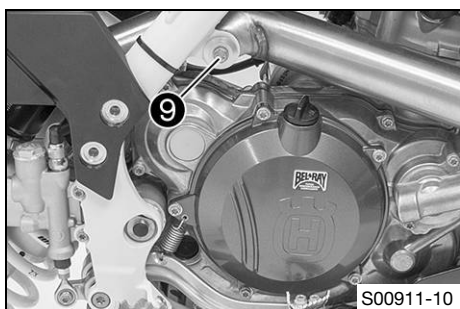


- Remove screw 7.
- Raise the rear frame slightly and lower the shock absorber.



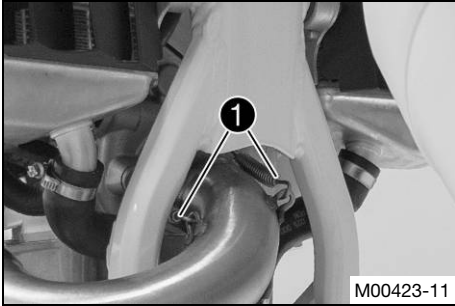
- Remove springs 8.

Spring hooks (50305017000)



- Remove screw 9.
- Take off the manifold.

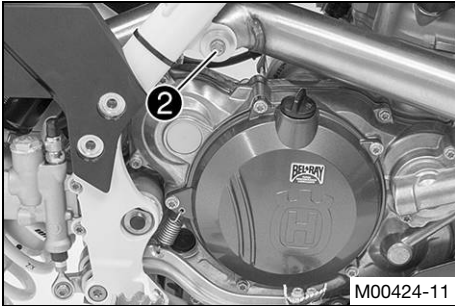
## 12.27 Installing the manifold ↗



### Main work

- Position the manifold and mount springs ❶.

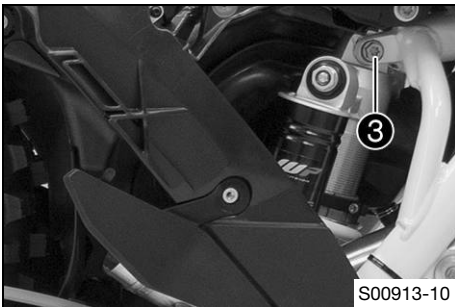
Spring hooks (50305017000)
----------------------------



- Mount and tighten screw ❷.

### Guideline

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

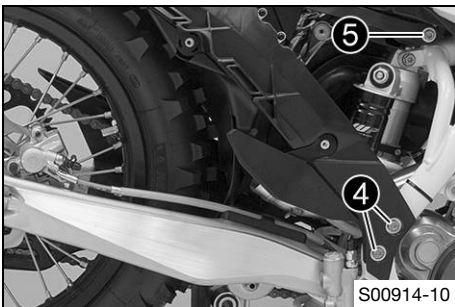


- Lift the rear frame slightly and position the shock absorber.
- Mount and tighten screw ❸.

### Guideline

Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite® 2701™
---------------------------	-----	---------------------	----------------

- Position the rear frame.



- Mount and tighten screws ❹ on both sides.

### Guideline

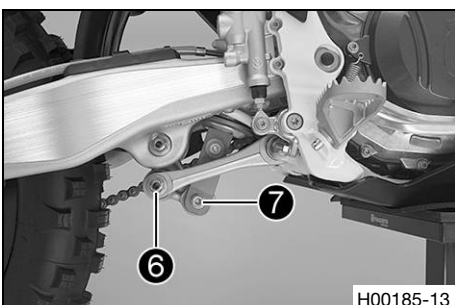
Screw, subframe	M8	35 Nm (25.8 lbf ft)	Loctite® 2701™
-----------------	----	---------------------	----------------

- Remove screws ❺ on both sides.
- Mount and tighten screws ❻ on both sides.

### Guideline

Screw, subframe	M8	35 Nm (25.8 lbf ft)	Loctite® 2701™
-----------------	----	---------------------	----------------

- Lower the swingarm.



- Position the angle lever and linkage lever.
- Mount and tighten fitting ❹.

### Guideline

Nut, linkage lever on angle lever	M14x1.5	80 Nm (59 lbf ft)
-----------------------------------	---------	-------------------

- Mount and tighten screw ❺.

### Guideline

Screw, bottom shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite® 2701™
------------------------------	-----	---------------------	----------------



**Info**

Raise the wheel slightly to be able to mount the screw more easily.

**Finishing work**

- Install the fuel tank. (☞ p. 61)
- Install the main silencer. (☞ p. 57)
- Install the right side cover. (☞ p. 59)
- Mount the seat. (☞ p. 52)
- Remove the motorcycle from the lift stand. (☞ p. 44)

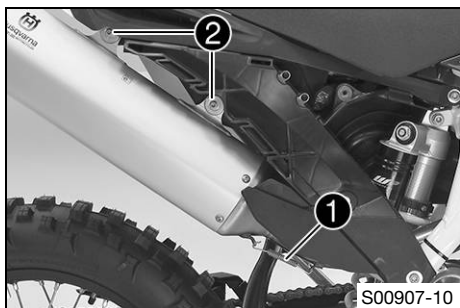
## 12.28 Removing the main silencer



**Warning**

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

- Allow the exhaust system to cool down. Do not touch hot components.



**Preparatory work**

- Remove the right side cover. (☞ p. 59)

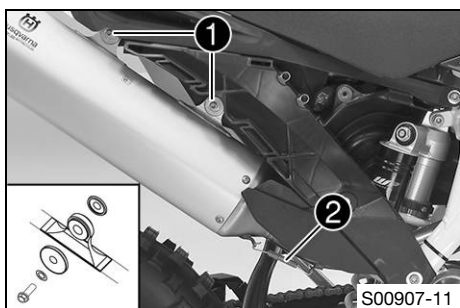
**Main work**

- Disconnect spring (1).

Spring hooks (50305017000)
----------------------------

- Remove screws (2) and take off the main silencer.

## 12.29 Installing the main silencer



**Main work**

- Mount the main silencer. Mount screws (1) but do not tighten yet.
- Reconnect spring (2).

Spring hooks (50305017000)
----------------------------

- Tighten screws (1).

**Guideline**

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

**Finishing work**

- Install the right side cover. (☞ p. 59)

## 12.30 Cleaning the spark arrester ☞



**Warning**

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

- Allow the exhaust system to cool down. Do not touch hot components.

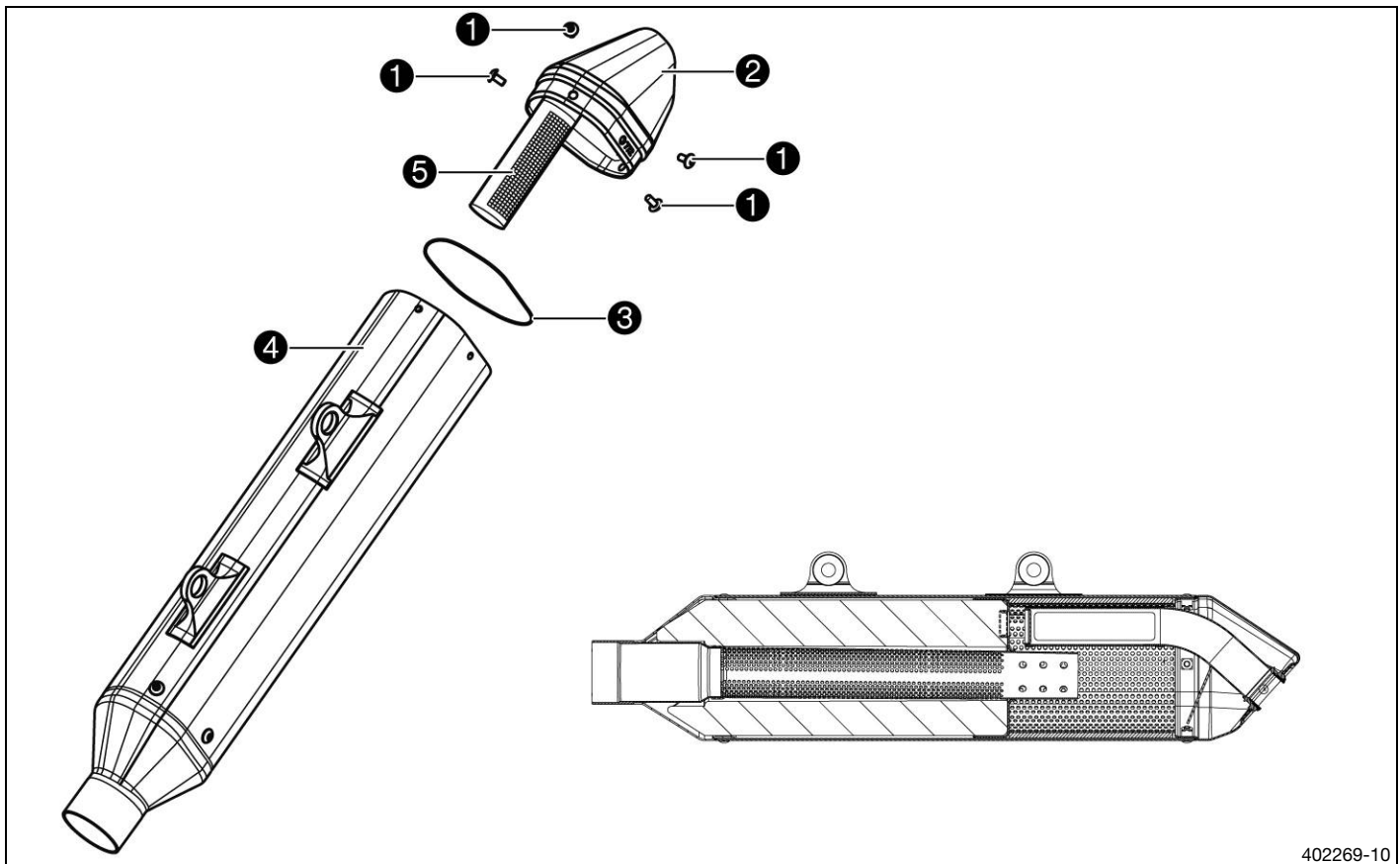


**Info**

Soot particles accumulate on the screen of the spark arrester over time. This changes the performance characteristics.

**Preparatory work**

- Remove the right side cover. (☞ p. 59)
- Remove the main silencer. (☞ p. 57)



**Main work**

- Remove screws ① and take off silencer cap ② with O-ring ③.



**Warning**

**Danger to health** Soot particles irritate the eyes and mucuous membranes.

- Wear suitable breathing and eye protection when cleaning the main silencer and carbon screen.

- Clean main silencer housing ④ and screen ⑤ of the spark arrester with compressed air.
- Mount a new O-ring ③ on silencer cap ②.
- Position silencer cap ②. Mount and tighten screws ①.

Guideline

Screws on the main silencer	M5	7 Nm (5.2 lbf ft)
-----------------------------	----	-------------------

**Finishing work**

- Install the main silencer. (☛ p. 57)
- Install the right side cover. (☛ p. 59)

**12.31 Changing the glass fiber yarn filling of the main silencer ↗**



**Warning**

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

- Allow the exhaust system to cool down. Do not touch hot components.

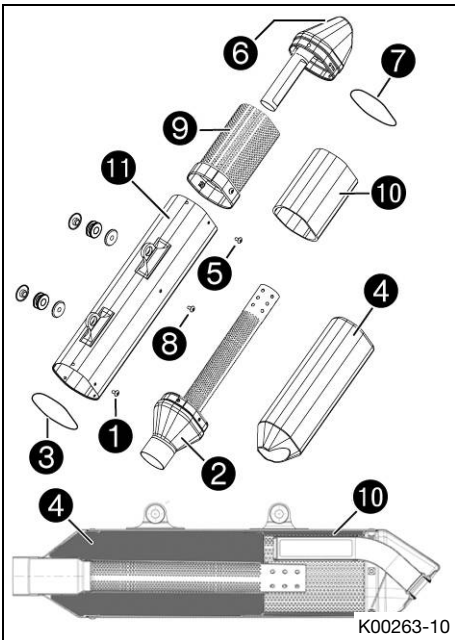


**Info**

Over time, the fibers of the glass fiber yarn escape and the damper "burns" out. Not only is the noise level higher, the performance characteristic changes.

**Preparatory work**

- Remove the right side cover. (☛ p. 59)
- Remove the main silencer. (☛ p. 57)



**Main work**

- Remove screws 1 of connecting cap 2.
- Remove the connecting cap with the perforated pipe, O-ring 3, and glass fiber yarn filling 4.
- Remove screws 5 and silencer cap 6 with O-ring 7.
- Remove screws 8 and insert 9 together with insulating pad 10.
- Remove the insulating pad from the insert.
- Clean the parts that need to be reinstalled and check for damage.
- Mount the new insulating pad on the insert and fasten with adhesive tape.
- Position the insert with the insulating pad in outer tube 11.
- Mount and tighten screws 3.

**Guideline**

Screws on the main silencer	M5	7 Nm (5.2 lbf ft)
-----------------------------	----	-------------------

- Mount O-ring 3 on the silencer cap.
- Mount new glass fiber yarn filling on the perforated pipe.
- Mount the connecting cap with the glass fiber yarn filling in the outer tube.

**Info**

Press the glass fiber yarn filling into the outer tube using a blunt tool.

- Mount and tighten screws 1.

**Guideline**

Screws on the main silencer	M5	7 Nm (5.2 lbf ft)
-----------------------------	----	-------------------

- Mount O-ring 7 on the silencer cap.
- Position the silencer cap with O-ring 7 in the outer tube.
- Mount and tighten screws 5.

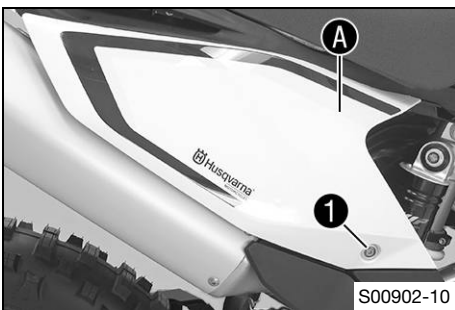
**Guideline**

Screws on the main silencer	M5	7 Nm (5.2 lbf ft)
-----------------------------	----	-------------------

**Finishing work**

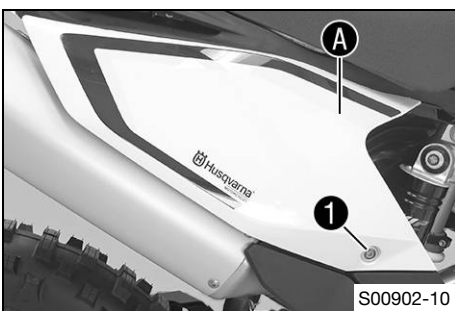
- Install the main silencer. (☛ p. 57)
- Install the right side cover. (☛ p. 59)

**12.32 Removing the right side cover**



- Remove screw 1.
- Pull off the side cover in area A sideways and remove it toward the rear.

**12.33 Installing the right side cover**



- Position the side cover and engage in area A.
- Mount and tighten screw 1.

**Guideline**

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

## 12.34 Removing the fuel tank ↴



### Danger

**Fire hazard** Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- The fuel in the fuel tank expands when warm and may emerge if overfilled. Follow the instructions on refueling.



### Warning

**Danger of poisoning** Fuel is poisonous and a health hazard.

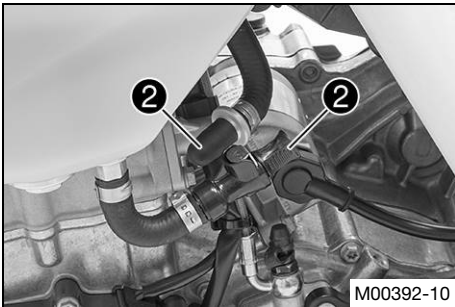
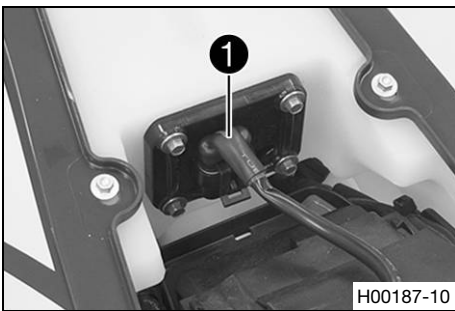
- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that has been contaminated with fuel. Store fuel properly in a suitable canister and keep away from children.

### Preparatory work

- Remove the seat. (↵ p. 51)

### Main work

- Unplug connector ❶ of the fuel pump.
- Pull the hose off the fuel tank breather on the tank lid.



- Thoroughly clean the plug-in connection of the fuel line using compressed air.



### Info

Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

- Disconnect the plug-in connection of the fuel line.

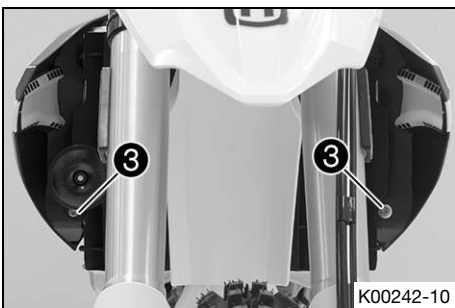


### Info

Remaining fuel may flow out of the fuel hose.

- Mount the wash cap set ❷.

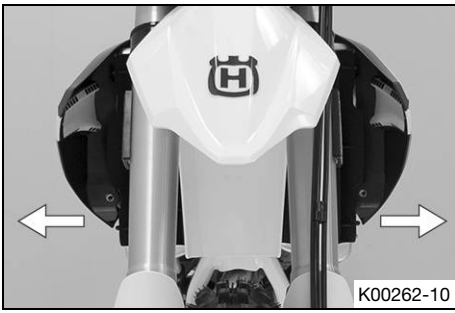
Wash cap set (81212016100)



- Remove screws ❸ with the collar bushings and horn.



- Remove screw ❹ with the rubber bushing.



- Pull both spoilers off of the sides of the radiator bracket and lift off the fuel tank.

## 12.35 Installing the fuel tank



### Danger

**Fire hazard** Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- The fuel in the fuel tank expands when warm and may emerge if overfilled. Follow the instructions on refueling.



### Warning

**Danger of poisoning** Fuel is poisonous and a health hazard.

- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with fuel.

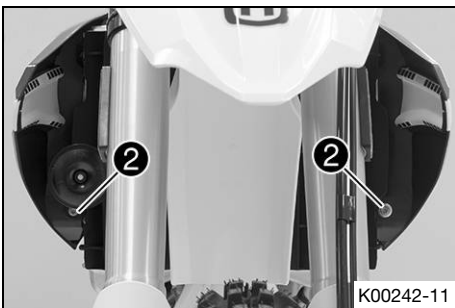


### Main work

- Check the routing of the throttle cable. (☞ p. 66)
- Position the fuel tank and fit the two spoilers to the sides of the radiator bracket.
- Make sure that no cables or throttle cables are trapped or damaged.
- Attach the hose to the fuel tank breather on the tank lid.
- Mount and tighten screw **1** with the rubber bushing.

#### Guideline

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

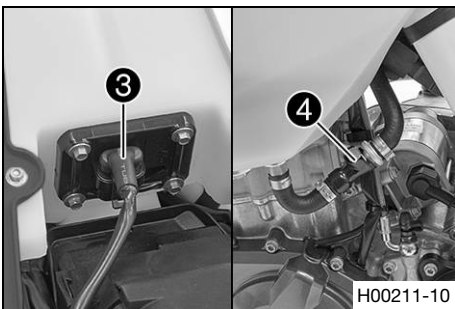


- Position the collar bushings and horn, and mount and tighten screws **2**.

#### Guideline

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

- Connect the connector of the horn.



- Plug in connector **3** for the fuel pump.
- Remove the wash cap set.
- Thoroughly clean the plug-in connection of the fuel line using compressed air.



### Info

Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

- Lubricate the O-ring and connect plug-in connection **4** for the fuel line.



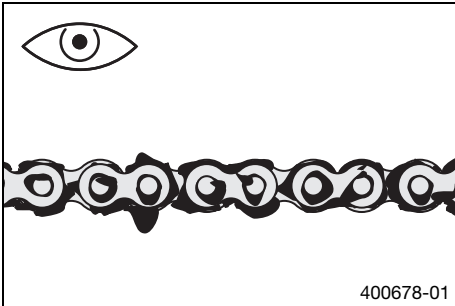
### Info

Route the cable and fuel line at a safe distance from the exhaust system.

### Finishing work

- Mount the seat. (☞ p. 52)

## 12.36 Checking for chain dirt accumulation



- Check the chain for coarse dirt accumulation.
  - » If the chain is very dirty:
    - Clean the chain. (☛ p. 62)

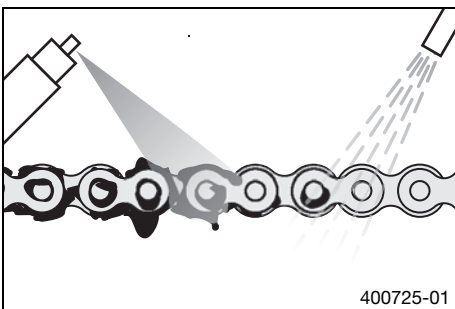
## 12.37 Cleaning the chain

- Warning**  
**Danger of accidents** Oil or grease on the tires reduces their grip.
- Remove oil and grease with a suitable cleaning material.

- Warning**  
**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.

- Warning**  
**Environmental hazard** Hazardous substances cause environmental damage.
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

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



### Preparatory work

- Raise the motorcycle with a lift stand. (☛ p. 44)

### Main work

- Clean the chain regularly and then treat with chain spray.

Offroad chain spray (☛ p. 113)

### Finishing work

- Remove the motorcycle from the lift stand. (☛ p. 44)

## 12.38 Checking the chain tension

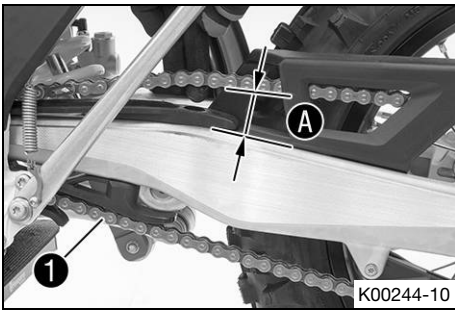
- Warning**  
**Danger of accidents** Danger caused by incorrect chain tension.

- If the chain is too taut, the components of the secondary power transmission (chain, engine sprocket, rear sprocket, bearings in the transmission and in the rear wheel) will be under additional load. In addition to premature wear, this can cause the chain or the countershaft of the transmission to break in extreme cases. If the chain is too loose, however, it may fall off the engine sprocket or rear sprocket and block the rear wheel or damage the engine. Ensure that the chain tension is correct and adjust it if necessary.

### Preparatory work

- Raise the motorcycle with a lift stand. (☛ p. 44)





**Main work**

- Pull the chain at the end of the chain sliding piece upward to measure chain tension **A**.

**i Info**

The lower chain section **1** must be taut. Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension	55... 58 mm (2.17... 2.28 in)
---------------	-------------------------------

- » If the chain tension does not meet the specification:
  - Adjust the chain tension. (☛ p. 63)

**Finishing work**

- Remove the motorcycle from the lift stand. (☛ p. 44)

## 12.39 Adjusting the chain tension

**Warning**  
**Danger of accidents** Danger caused by incorrect chain tension.

- If the chain is too taut, the components of the secondary power transmission (chain, engine sprocket, rear sprocket, bearings in the transmission and in the rear wheel) will be under additional load. In addition to premature wear, this can cause the chain or the countershaft of the transmission to break in extreme cases. If the chain is too loose, however, it may fall off the engine sprocket or rear sprocket and block the rear wheel or damage the engine. Ensure that the chain tension is correct and adjust it if necessary.

**Preparatory work**

- Raise the motorcycle with a lift stand. (☛ p. 44)
- Check the chain tension. (☛ p. 62)

**Main work**

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

**Guideline**

Chain tension	55... 58 mm (2.17... 2.28 in)	
Turn adjusting screws <b>3</b> on the left and right so that the markings on the left and right chain adjusters are in the same position relative to reference marks <b>A</b> . The rear wheel is then correctly aligned.		

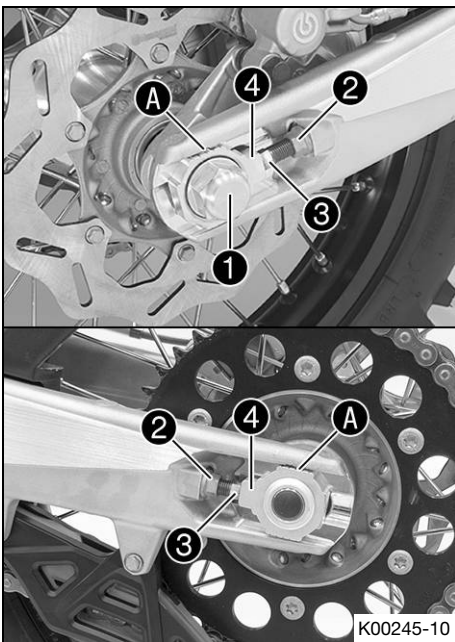
- Tighten nuts **2**.
- Make sure that chain adjusters **4** are fitted correctly on adjusting screws **3**.
- Tighten nut **1**.

**Guideline**

Nut, rear wheel spindle	M20x1.5	80 Nm (59 lbf ft)
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**i Info**

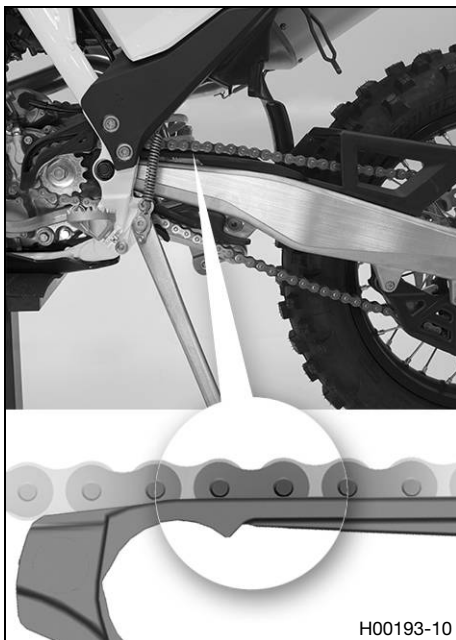
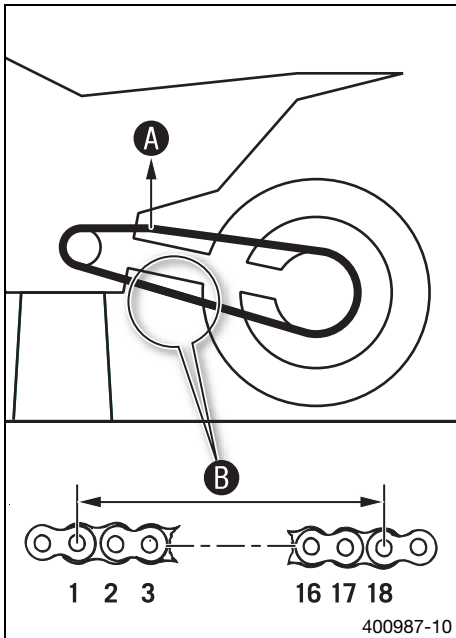
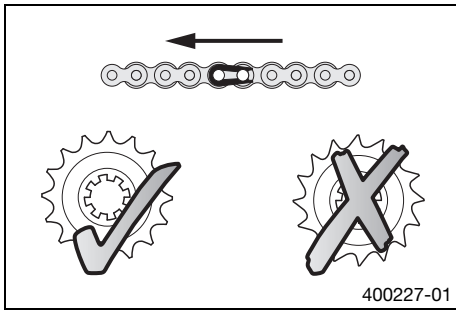
The wide adjustment range of the chain adjusters (32 mm (1.26 in)) enables different secondary ratios with the same chain length. Chain adjusters **4** can be turned by 180°.



**Finishing work**

- Remove the motorcycle from the lift stand. (☛ p. 44)

## 12.40 Checking the chain, rear sprocket, engine sprocket, and chain guide



### Preparatory work

- Raise the motorcycle with a lift stand. (☞ p. 44)

### Main work

- Shift the transmission to idle.
- Check the rear sprocket and engine sprocket for wear.
  - » If the rear sprocket and engine sprocket are worn:
    - Change the drivetrain kit. 🛠️

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

- Pull at the top part of the chain with the specified weight **A**.

#### Guideline

Weight of chain wear measurement	10... 15 kg (22... 33 lb.)
----------------------------------	----------------------------

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

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

Maximum distance <b>B</b> at the longest chain section	272 mm (10.71 in)
--	-------------------

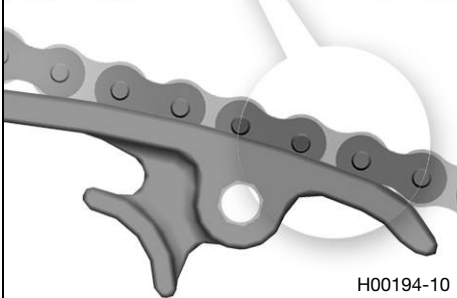
- » If the distance **B** is greater than the specified measurement:
  - Change the drivetrain kit. 🛠️

**i Info**  
When the chain is replaced, the rear sprocket and engine sprocket should also be changed.  
New chains wear out faster on old, worn sprockets.

- Check the chain sliding guard for wear.
  - » If the lower edge of the chain pin is at the level of or below the chain sliding guard:
    - Change the chain sliding guard. 🛠️
- Check that the chain sliding guard is firmly seated.
  - » If the chain sliding guard is loose:
    - Tighten the screws on the chain sliding guard.

#### Guideline

Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	<b>Loctite® 243™</b>
----------------------------	----	----------------------	----------------------

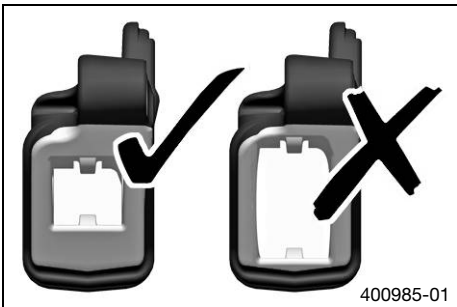


H00194-10

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

Guideline

Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
----------------------------	----	------------------------



400985-01

- Check the chain guide for wear.

**i Info**

Wear can be seen on the front of the chain guide.

- » If the light part of the chain guide is worn:
  - Change the chain guide. 🛠️



K00246-10

- Check that the chain guide is firmly seated.
  - » If the chain guide is loose:
    - Tighten the fitting on the chain guide.

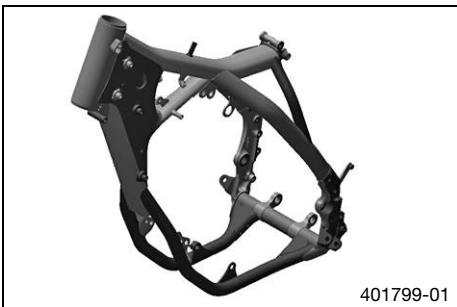
Guideline

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

**Finishing work**

- Remove the motorcycle from the lift stand. (👉 p. 44)

**12.41 Checking the frame 🛠️**



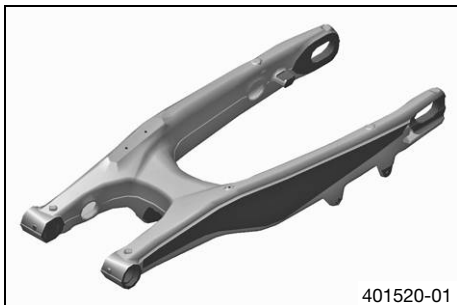
401799-01

- Check the frame for cracks and deformation.
  - » If the frame exhibits cracks or deformation due to a mechanical impact:
    - Change the frame. 🛠️

**i Info**

Always replace a frame that has been damaged due to a mechanical impact. Repair of the frame is not authorized by Husqvarna Motorcycles.

## 12.42 Checking the swingarm ↘



- Check the swingarm for damage, cracking, and deformation.
  - » If the swingarm shows signs of damage, cracking, or deformation:
    - Change the swingarm. ↘



### Info

Always change a damaged swingarm. Repair of the swingarm is not authorized by Husqvarna Motorcycles.

## 12.43 Checking the routing of the throttle cable



### Preparatory work

- Remove the seat. (☞ p. 51)
- Remove the fuel tank. ↘ (☞ p. 60)

### Main work

- Check the throttle cable routing.

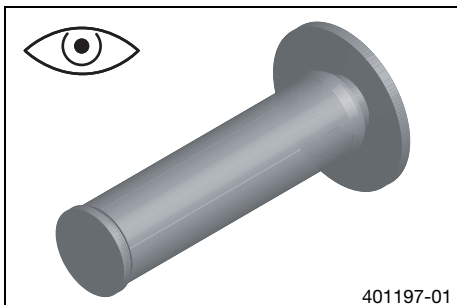
Both throttle cables must be routed to the throttle valve body side by side behind the handlebars and above the fuel tank bearing.

- » If the throttle cable is not routed as specified:
  - Correct the throttle cable routing.

### Finishing work

- Install the fuel tank. ↘ (☞ p. 61)
- Mount the seat. (☞ p. 52)

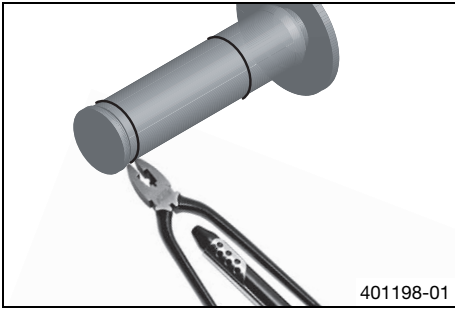
## 12.44 Checking the rubber grip



- Check the rubber grips on the handlebar for damage, wear, and looseness.
  - » If a rubber grip is damaged, worn, or loose:
    - Change and secure the rubber grip.

Grip adhesive (00062030051) (☞ p. 113)

## 12.45 Additionally securing the rubber grip



### Preparatory work

- Check the rubber grip. (☞ p. 66)

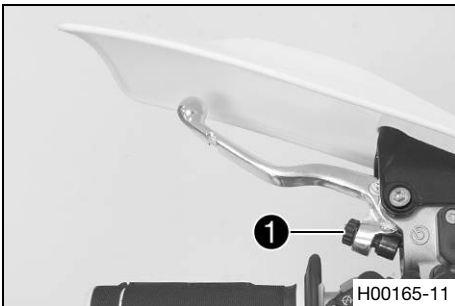
### Main work

- Secure the rubber grip at two points using the securing wire.

Securing wire (54812016000)
Wire twister forceps (U6907854)

- ✓ The twisted wire ends face away from the hands and are bent toward the rubber grip.

## 12.46 Adjusting the basic position of the clutch lever



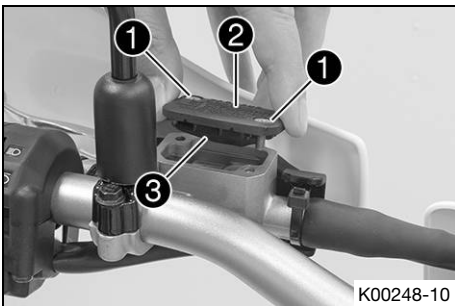
- Adjust the basic setting of the clutch lever to your hand size by turning adjusting screw ①.

### 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 any force.  
Do not make any adjustments while riding!

## 12.47 Checking/correcting the fluid level of the hydraulic clutch

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



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover ② with membrane ③.
- Check the fluid level.

Fluid level below container rim	4 mm (0.16 in)
---------------------------------	----------------

- » If the level of the fluid does not meet specifications:
  - Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 (☞ p. 112)

- Position the cover with the membrane. Mount and tighten the screws.

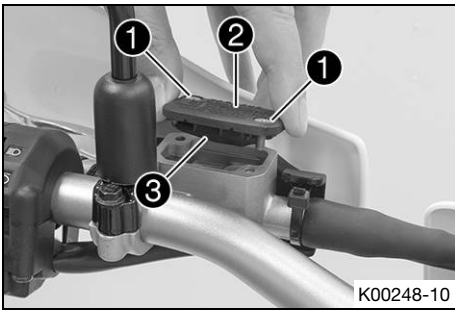
### i Info

Clean up overflowed or spilled brake fluid immediately with water.

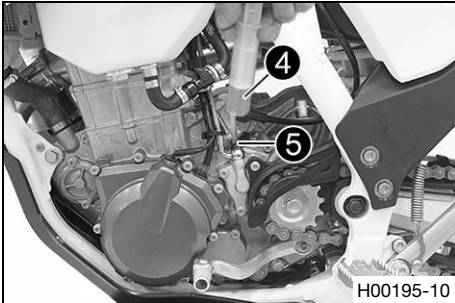
## 12.48 Changing the hydraulic clutch fluid

**Warning**  
**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



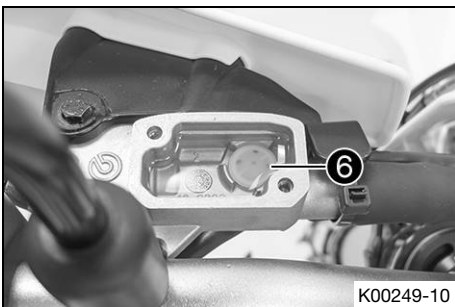
- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover ② with membrane ③.



- Fill bleeding syringe ④ with the appropriate hydraulic fluid.

Bleed syringe (50329050000)
Brake fluid DOT 4 (☛ p. 112)

- On the clutch slave cylinder, remove bleeder screw ⑤ and mount bleeding syringe ④.



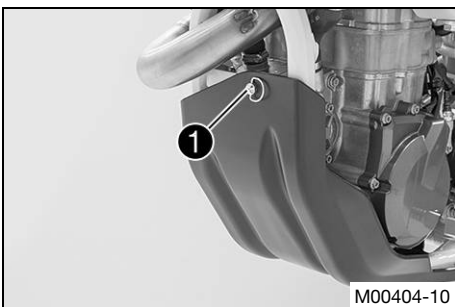
- Inject the liquid into the system until it escapes from openings ⑥ of the master cylinder without bubbles.
- To prevent overflow, drain fluid occasionally from the master cylinder reservoir.
- Remove the bleeding syringe. Mount and tighten screws bleeder screw.
- Correct the fluid level of the hydraulic clutch.

Guideline

Fluid level below container rim	4 mm (0.16 in)
---------------------------------	----------------

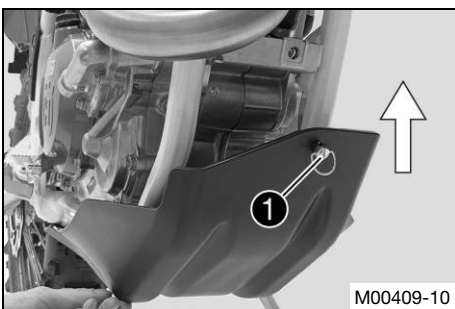
- Position the cover with the membrane. Mount and tighten the screws.

## 12.49 Removing the engine guard



- Turn quick release ① counterclockwise until it disengages. Remove the engine guard.

## 12.50 Installing the engine guard



- Attach the engine guard on the frame at the rear and swing up at the front.
- Turn quick release ① clockwise all the way.

## 13.1 Checking free travel of hand brake lever

**Warning**  
**Danger of accidents** Brake system failure.

- If there is no free travel on the hand brake lever, pressure builds up on the front brake circuit. The front brake can fail due to overheating. Adjust the free travel on hand brake lever according to specifications.



- Push the hand brake to the handlebar and check free travel **A**.

Free travel of hand brake lever	$\geq 3 \text{ mm } (\geq 0.12 \text{ in})$
---------------------------------	---

- » If the free travel does not meet specifications:
  - Adjust the free travel of the hand brake lever. (☞ p. 69)

## 13.2 Adjusting free travel of hand brake lever



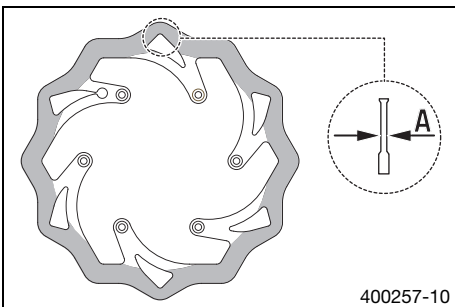
- Check the free travel of the hand brake lever. (☞ p. 69)
- Adjust the free travel of the hand brake lever with adjusting screw **1**.

**i Info**  
 Turn the adjusting screw clockwise to reduce free travel. The pressure point moves away from the handlebar.  
 Turn the adjusting screw counterclockwise to increase free travel. The pressure point moves towards the handlebar.  
 The range of adjustment is limited.  
 Turn the adjusting screw by hand only, and do not apply any force.  
 Do not make any adjustments while riding!

## 13.3 Checking the brake discs

**Warning**  
**Danger of accidents** Reduced braking efficiency due to worn brake disc(s).

- Change the worn brake disc(s) without delay. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



- Check the thickness of the front and rear brake discs at several places on the disk to see if it conforms to measurement **A**.

**i Info**  
 Wear reduces the thickness of the brake disc around the area used by the brake linings.

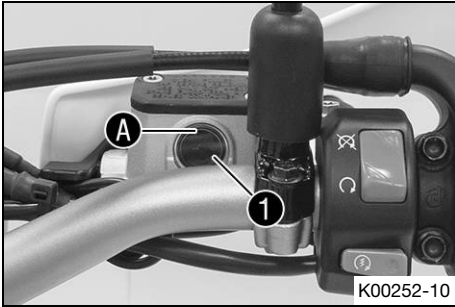
Brake discs - wear limit	
Front	2.5 mm (0.098 in)
Rear	3.5 mm (0.138 in)

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

## 13.4 Checking the front brake fluid level

- Warning**  
**Danger of accidents** Brake system failure.
- If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

- Warning**  
**Danger of accidents** Reduced braking efficiency due to old brake fluid.
- Change the brake fluid of the front and rear brake according to 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 in level viewer **1**.
  - » If the brake fluid has dropped below marking **A**:
    - Add front brake fluid. (☞ p. 70)

## 13.5 Adding front brake fluid

- Warning**  
**Danger of accidents** Brake system failure.
- If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

- Warning**  
**Skin irritation** Brake fluid can cause skin irritation on contact.
- Avoid contact with skin and eyes, and keep out of the reach of children.
  - Wear suitable protective clothing and goggles.
  - If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.

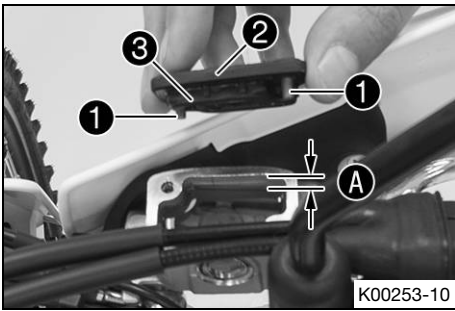
- Warning**  
**Danger of accidents** Reduced braking efficiency due to old brake fluid.
- Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

- Warning**  
**Environmental hazard** Hazardous substances cause environmental damage.
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in 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!
  - Use only clean brake fluid from a sealed container.

- Preparatory work**
- Check the front brake linings. (☞ p. 71)





**Main work**

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

**Guideline**

Level A (brake fluid level below container rim)	5 mm (0.2 in)
---	---------------

Brake fluid DOT 4 (☞ p. 112)

- Position the cover with the membrane. Mount and tighten the screws.

**Info**

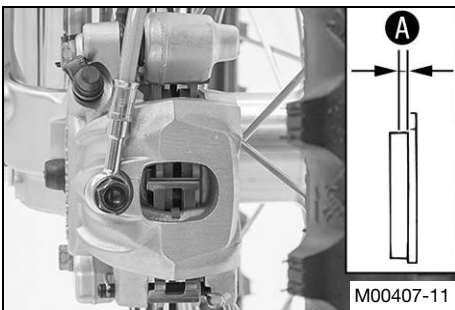
Clean up overflowed or spilled brake fluid immediately with water.

## 13.6 Checking the front brake linings

**Warning**

**Danger of accidents** Reduced braking efficiency caused by worn brake linings.

- Change worn brake linings immediately. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



- Check the brake linings for minimum thickness A.

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

- » If the minimum thickness is less than specified:
  - Change the front brake linings. ☞ (☞ p. 71)
- Check the brake linings for damage and cracking.
  - » If damage or cracking is visible:
    - Change the front brake linings. ☞ (☞ p. 71)

## 13.7 Changing the front brake linings ☞

**Warning**

**Danger of accident** Brake system failure.

- Maintenance work and repairs must be carried out professionally. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Warning**

**Skin irritation** Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.

**Warning**

**Danger of accidents** Reduced braking efficiency due to old brake fluid.

- Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Warning**

**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.

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

**Warning**

**Danger of accident** Reduced braking efficiency due to the use of non-approved brake linings.

- Brake linings available in accessories stores often have not been tested and approved for use in Husqvarna motorcycles. The structure and friction coefficient of the brake linings and thus their brake power may vary greatly from that of original Husqvarna Motorcycles brake linings. If brake linings that differ from the original equipment are used, it cannot be guaranteed that these are in keeping with the original homologation. In this case, the vehicle will not correspond to its condition at delivery and the warranty shall be void.



**Warning**

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

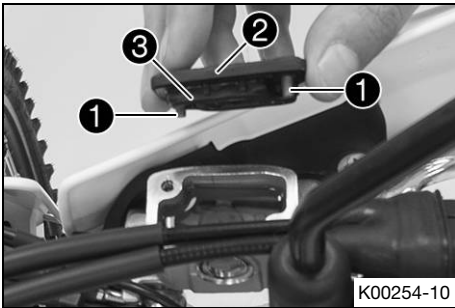


**Info**

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.

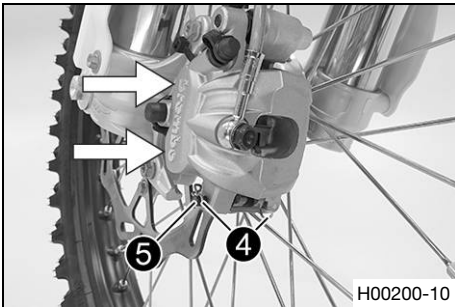
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint!

Use only clean brake fluid from a sealed container.



K00254-10

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover 2 with membrane 3.



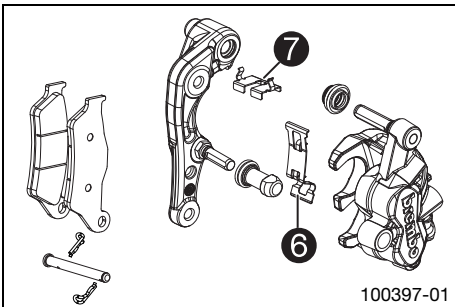
H00200-10

- Manually press the brake caliper to the brake disc to push back the brake pistons. Ensure that brake fluid does not flow out of the brake fluid reservoir, extracting it by suction if it does.



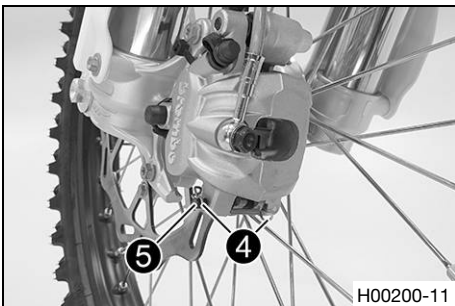
**Info**

Make sure when pushing back the brake pistons that you do not press the brake caliper against the spokes.



100397-01

- Remove cotter pins 4, pull out pin 5, and remove the brake linings.
- Clean the brake caliper and brake caliper support.
- Check that leaf spring 6 in the brake caliper and sliding plate 7 in the brake caliper support are seated correctly.



H00200-11

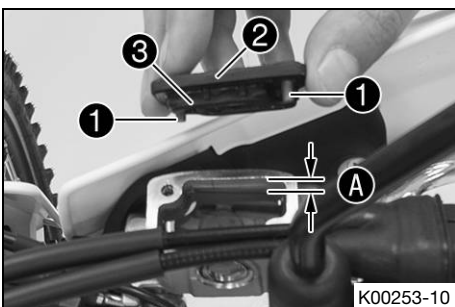
- Insert the new brake linings, insert pin 5, and mount cotter pins 4.



**Info**

Always change the brake linings in pairs.

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



K00253-10

- Correct the brake fluid to level A.

**Guideline**

Level A (brake fluid level below container rim)	5 mm (0.2 in)
---	---------------

Brake fluid DOT 4 (☞ p. 112)

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

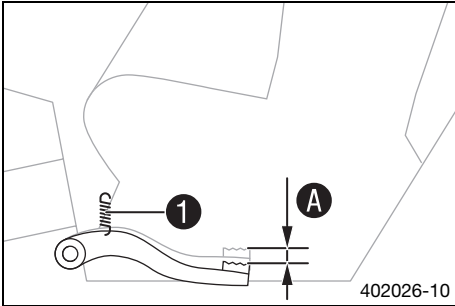


**Info**

Clean up overflowed or spilled brake fluid immediately with water.

## 13.8 Checking the free travel of foot brake lever

- Warning**  
**Danger of accidents** Brake system failure.
- If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake can fail due to overheating. Adjust the free travel on foot brake lever according to specifications.



- Disconnect spring ①.
- 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.

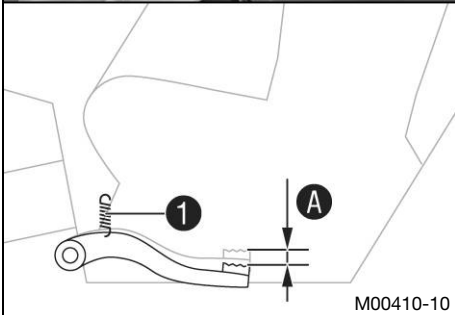
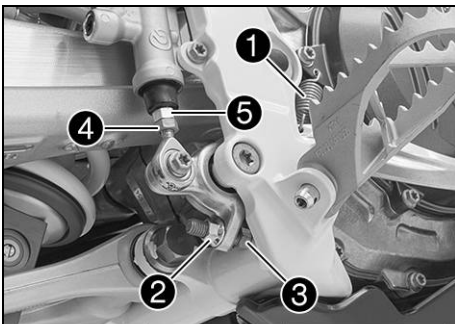
**Guideline**

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

- » If the free travel does not meet specifications:
  - Adjust the basic position of the foot brake lever. ↗ (p. 73)
- Reconnect spring ①.

## 13.9 Adjusting the basic position of the foot brake lever ↗

- Warning**  
**Danger of accidents** Brake system failure.
- If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake can fail due to overheating. Adjust the free travel on foot brake lever according to specifications.



- Disconnect spring ①.
- Loosen nut ④ and, with push rod ⑤, turn it back until you have maximum free travel.
- To adjust the basic position of the foot brake lever individually, loosen nut ② and turn screw ③ accordingly.



**Info**

The range of adjustment is limited.

- Turn push rod ⑤ accordingly until you have free travel A. If necessary, adjust the basic position of the foot brake lever.

**Guideline**

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

- Hold screw ③ and tighten nut ②.

**Guideline**

Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)
----------------------------	----	---------------------

- Hold push rod ⑤ and tighten nut ④.

**Guideline**

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

- Reconnect spring ①.

## 13.10 Checking the rear brake fluid level



### Warning

**Danger of accidents** Brake system failure.

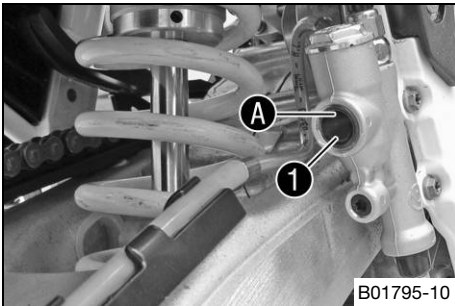
- If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



### Warning

**Danger of accidents** Reduced braking efficiency due to old brake fluid.

- Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



- Stand the vehicle upright.
- Check the brake fluid level in level viewer **1**.
  - » If the brake fluid level has dropped below marking **A**:
    - Add rear brake fluid. (☞ p. 74)

## 13.11 Adding rear brake fluid ☞



### Warning

**Danger of accidents** Brake system failure.

- If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



### Warning

**Skin irritation** Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



### Warning

**Danger of accidents** Reduced braking efficiency due to old brake fluid.

- Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



### Warning

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



### Info

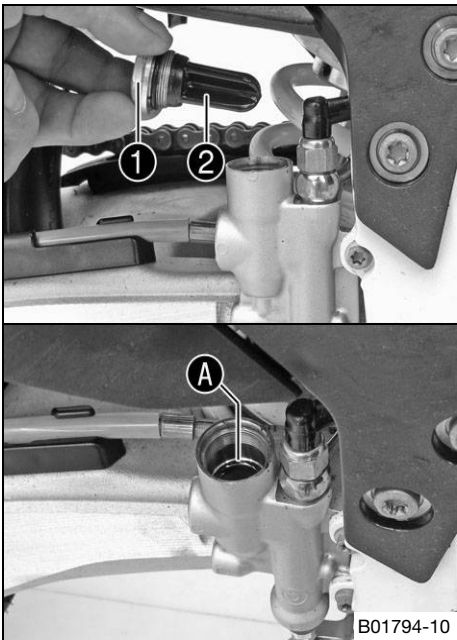
Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

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

Use only clean brake fluid from a sealed container.

### Preparatory work

- Check the rear brake linings. (☞ p. 75)



**Main work**

- Stand the vehicle upright.
- Remove screw cap ① with membrane ② and the O-ring.
- Add brake fluid to level A.

Brake fluid DOT 4 (☞ p. 112)

- Mount the screw cap with the membrane and O-ring.

**i Info**

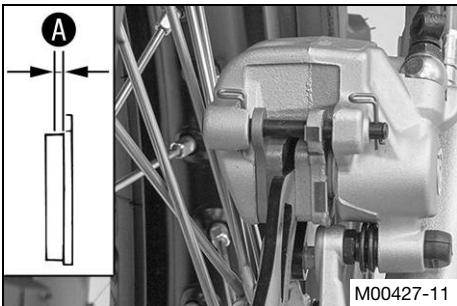
Clean up overflowed or spilt brake fluid immediately with water.

**13.12 Checking the rear brake linings**

**Warning**

**Danger of accidents** Reduced braking efficiency caused by worn brake linings.

- Change worn brake linings immediately. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)



- Check the brake linings for minimum thickness A.

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

- » If the minimum thickness is less than specified:
  - Change the rear brake linings. ☞ (☞ p. 75)
- Check the brake linings for damage and cracking.
  - » If damage or cracking is visible:
    - Change the rear brake linings. ☞ (☞ p. 75)

**13.13 Changing the rear brake linings ☞**

**Warning**

**Danger of accident** Brake system failure.

- Maintenance work and repairs must be carried out professionally. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Warning**

**Skin irritation** Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.

**Warning**

**Danger of accidents** Reduced braking efficiency due to old brake fluid.

- Change the brake fluid of the front and rear brake according to the service schedule. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**Warning**

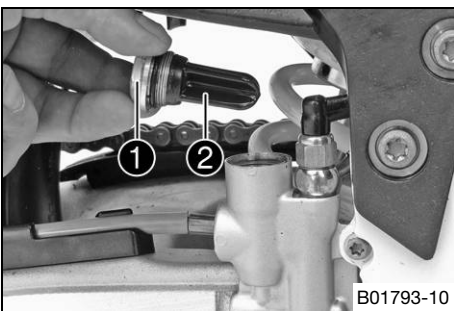
**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.

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

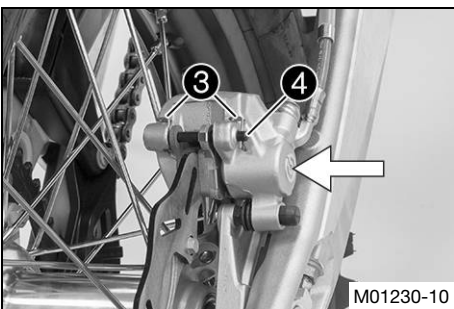
- Warning**  
**Danger of accident** Reduced braking efficiency due to the use of non-approved brake linings.
- Brake linings available in accessories stores often have not been tested and approved for use in Husqvarna motorcycles. The structure and friction coefficient of the brake linings and thus their brake power may vary greatly from that of original Husqvarna Motorcycles brake linings. If brake linings that differ from the original equipment are used, it cannot be guaranteed that these are in keeping with the original homologation. In this case, the vehicle will not correspond to its condition at delivery and the warranty shall be void.

- Warning**  
**Environmental hazard** Hazardous substances cause environmental damage.
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in 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!  
 Use only clean brake fluid from a sealed container.

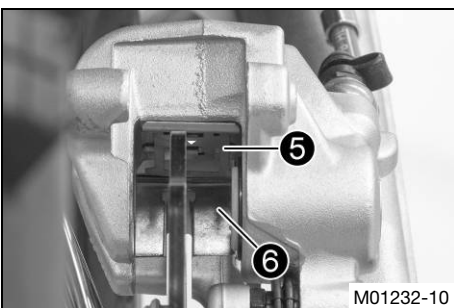


- Stand the vehicle upright.
- Remove screw cap ① with membrane ② and the O-ring.

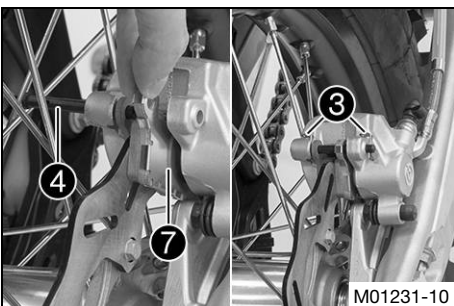


- Press the brake caliper onto the brake disc by hand in order to push back the brake piston and ensure that brake fluid does not flow out of the brake fluid reservoir, extracting it by suction if it does.

- Info**  
 Ensure that the brake caliper is not pressed against the spokes when pushing back the brake piston.



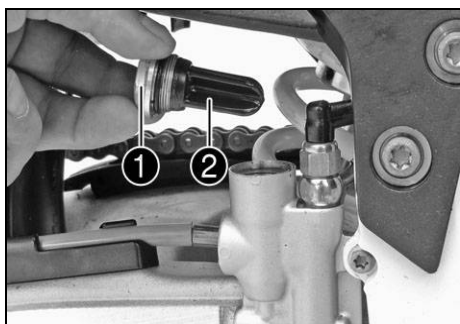
- Remove cotter pin ③, pull out pin ④ and remove the brake linings.
- Clean the brake caliper and brake caliper support.
- Check that leaf spring ⑤ in the brake caliper and sliding plate ⑥ in the brake caliper support are seated properly.
- ✓ The arrow on the leaf spring points in the rotation direction of the brake disc.



- Insert the new brake linings, insert pin ④, and mount cotter pins ③.

- Info**  
 Always change the brake linings in pairs.  
 Make sure that decoupling plate ⑦ is mounted on the piston side of the brake lining.

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



- Add brake fluid to level **A**.

Brake fluid DOT 4 (☞ p. 112)

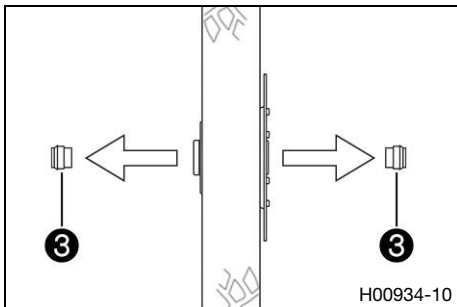
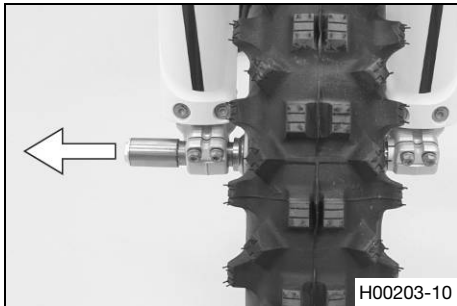
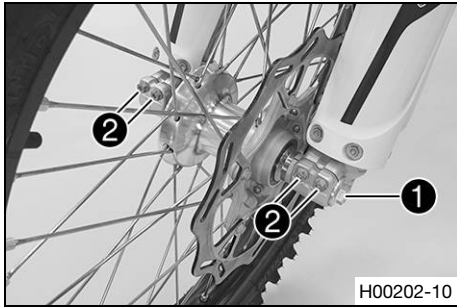
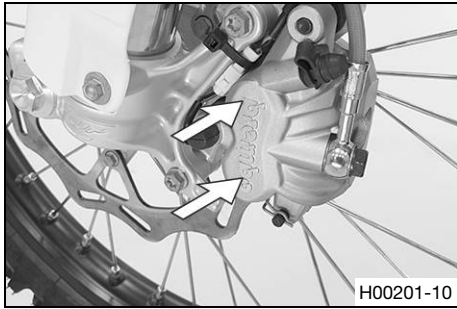
- Mount screw cap **1** with membrane **2** and O-ring.

**i** **Info**

Clean up overflowed or spilt brake fluid immediately with water.



## 14.1 Removing the front wheel



### Preparatory work

- Raise the motorcycle with a lift stand. (☛ p. 44)

### Main work

- Press the brake caliper onto the brake disc by hand in order to push back the brake pistons.

#### **i** Info

Make sure when pushing back the brake pistons that you do not press the brake caliper against the spokes.

- Loosen screw ① by several turns.
- Release screws ②.
- Press on screw ① to push the wheel spindle out of the axle clamp.
- Remove screw ①.

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

#### **i** Info

Do not pull the hand brake lever when the front wheel is removed. Always lay the wheel down in such a way that the brake disc is not damaged.

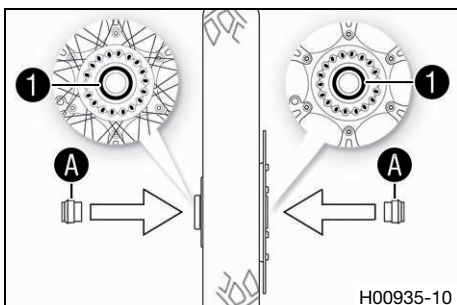
- Remove spacers ③.

## 14.2 Installing the front wheel

### **!** Warning

**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.

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

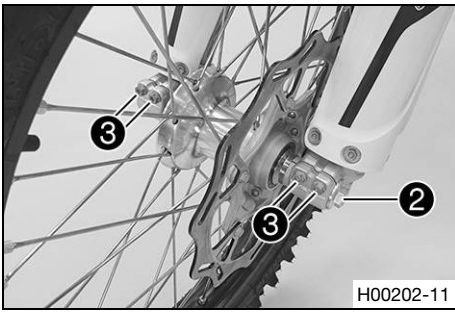


- Check the wheel bearing for damage and wear.
  - » If the wheel bearing is damaged or worn:
    - Change the front wheel bearing. ☛
- Clean and grease the shaft seal rings ① and bearing surface A of the spacers.

Long-life grease (☛ p. 113)

- Insert the spacers.





- Lift the front wheel into the fork, position it, and insert the wheel spindle.
  - ✓ The brake linings are positioned.
- Mount and tighten screw 2.

Guideline

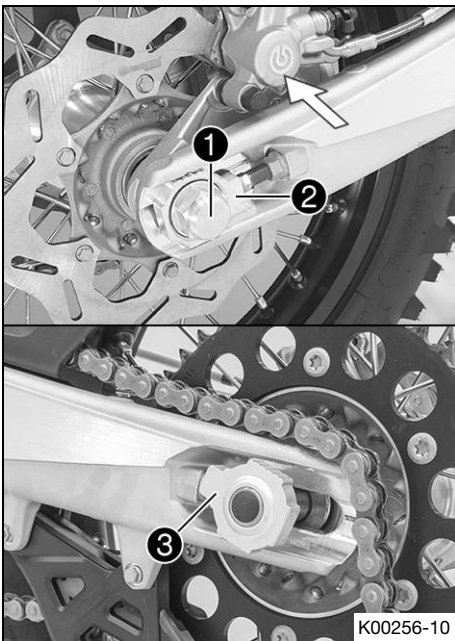
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)
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- Activate the hand brake lever multiple times until the brake linings are in contact with the brake disc.
- Remove the motorcycle from the lift stand. (☛ p. 44)
- Pull the front brake and compress the fork forcefully a few times.
  - ✓ The fork legs straighten.
- Tighten screws 3.

Guideline

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

## 14.3 Removing the rear wheel



### Preparatory work

- Raise the motorcycle with a lift stand. (☛ p. 44)

### Main work

- Press the brake caliper onto the brake disc by hand in order to push back the brake piston.

**i** Info

Make sure when pushing back the brake piston that you do not press the brake caliper against the spokes.

- Remove nut 1.
- Remove chain adjuster 2. Withdraw wheel spindle 3 only 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.

**i** Info

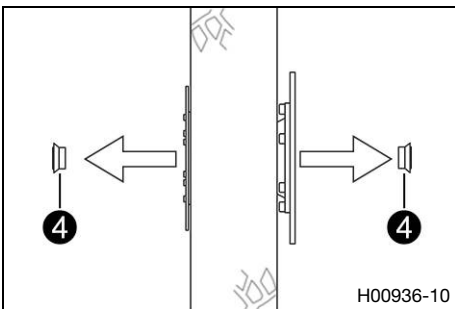
Cover the components to protect them against damage.

- Holding the rear wheel, withdraw the wheel spindle. Take the rear wheel out of the swingarm.

**i** Info

Do not operate the foot brake lever when the rear wheel is removed. Always lay the wheel down in such a way that the brake disc is not damaged.

- Remove spacers 4.

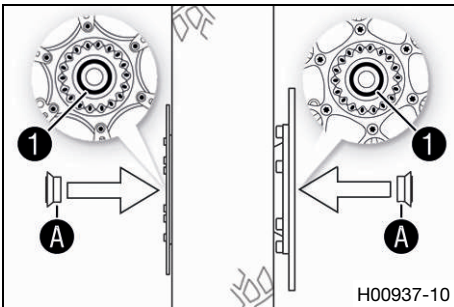


## 14.4 Installing the rear wheel

### Warning

**Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.

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



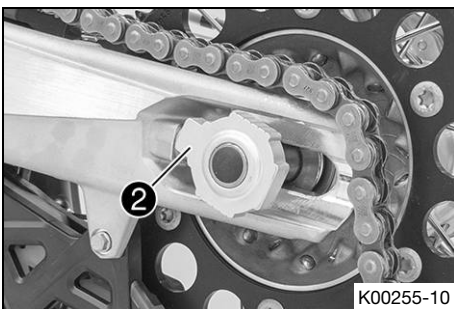
H00937-10

### Main work

- 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 rings 1 and contact surface A of the spacers.

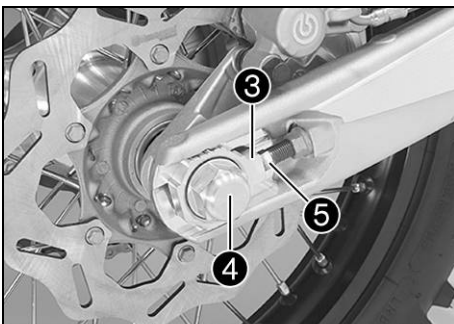
Long-life grease (☛ p. 113)

- Insert the spacers.



K00255-10

- Lift the rear wheel into the swingarm, position it, and insert wheel spindle 2.
- Mount the chain.
  - ✓ The brake linings are correctly positioned.



- Position chain adjuster 3. Mount nut 4, but do not tighten it yet.
- Make sure that chain adjusters 3 are fitted correctly on adjusting screws 5.
- Check the chain tension. (☛ p. 62)
- Tighten nut 4.

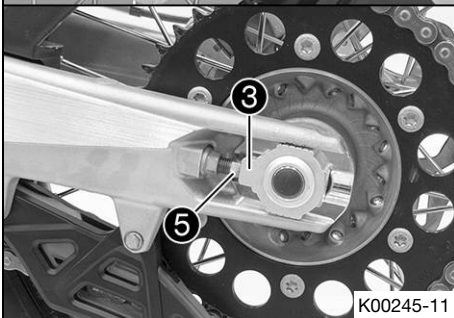
### Guideline

Nut, rear wheel spindle	M20x1.5	80 Nm (59 lbf ft)
-------------------------	---------	-------------------

### Info

The wide adjustment range of the chain adjusters (32 mm (1.26 in)) enables different secondary ratios with the same chain length. Chain adjusters 3 can be turned by 180°.

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



K00245-11

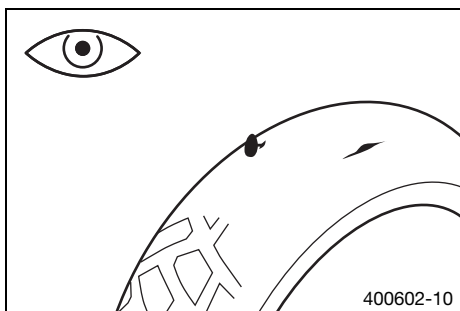
### Finishing work

- Remove the motorcycle from the lift stand. (☛ p. 44)

## 14.5 Checking the tire condition

### Info

Only mount tires approved and/or recommended by Husqvarna Motorcycles. Other tires could have a negative effect on handling characteristics. The type, condition, and air pressure of the tires all have a major impact on the handling of the motorcycle. The tires mounted on the front and rear wheels must have a similar profile. 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.

**i Info**

Adhere to the legally required minimum tread depth.

Minimum tread depth	≥ 2 mm (≥ 0.08 in)
---------------------	--------------------

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

**i Info**

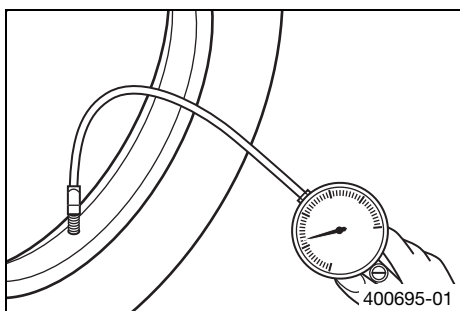
The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture.  
Husqvarna Motorcycles recommends that the tires be changed after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

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

## 14.6 Checking the tire air pressure

**i Info**

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



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

Tire air pressure off road	
Front	1.0 bar (15 psi)
Rear	1.0 bar (15 psi)

Road tire pressure	
Front	1.5 bar (22 psi)
Rear	2.0 bar (29 psi)

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

## 14.7 Checking spoke tension

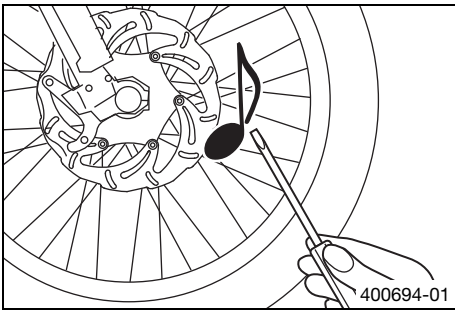
**Warning**

**Danger of accidents** Instable handling due to incorrect spoke tension.

- Ensure that the spoke tension is correct. (Your authorized Husqvarna Motorcycles workshop will be glad to help.)

**i Info**

A loose spoke can cause wheel imbalance, which leads to more loose spokes in a short time. If the spokes are too tight, they can break due to local overload. Check the spoke tension regularly, especially on a new motorcycle.



- Tap each spoke with a screwdriver.



**Info**

The sound frequency depends on the length and thickness of the spoke. If there are different sound frequencies in spokes with the same length and thickness, this indicates different spoke tensions.

You should hear a high note.

- » If the spoke tension varies:
  - Correct the spoke tension. 🛠️
- Check the spoke torque.

**Guideline**

Spoke nipple, front wheel	M4.5	6 Nm (4.4 lbf ft)
Spoke nipple, rear wheel	M4.5	6 Nm (4.4 lbf ft)

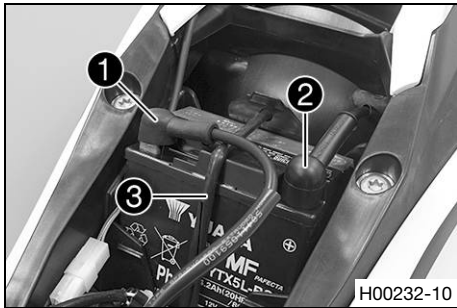
Torque wrench with various accessories in set (58429094000)

## 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 goggles.
- Avoid contact with battery acid and battery gases.
- Keep sparks and open flames away from the battery. Only charge in well-ventilated rooms.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.



H00232-10

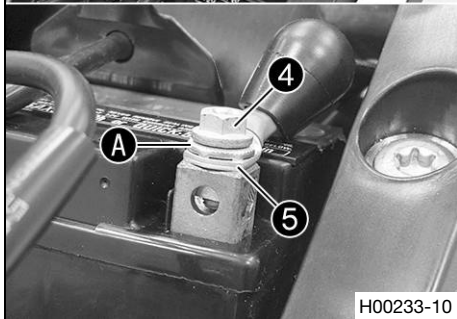
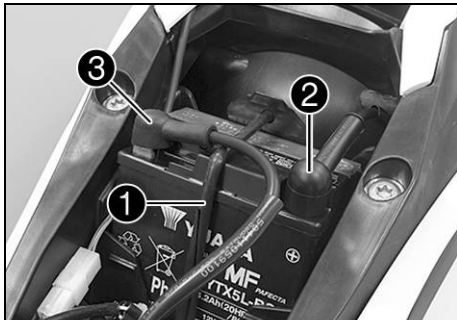
### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the seat. (↗ p. 51)

### Main work

- Pull back the negative terminal cover ① and disconnect the negative cable from the battery.
- Pull back the positive terminal cover ② and disconnect the positive cable from the battery.
- Detach rubber band ③ at the bottom.
- Lift the battery up and out.

## 15.2 Installing the battery ↘



H00233-10

### Main work

- Insert battery into the battery compartment with the terminals facing to the front.
- |                               |
|-------------------------------|
| Battery (YTX5L-BS) (↗ p. 109) |
|-------------------------------|
- Reconnect rubber band ①.

### Info

Contact disk **A** must be mounted between screw ④ and cable socket ⑤ with the claws facing down.

- Position the positive cable and mount and tighten the screw.

#### Guideline

Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
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- Slide positive terminal cover ② over the positive terminal.
- Position the negative cable and mount and tighten the screw.

#### Guideline

Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
-------------------------	----	-------------------------

- Slide negative terminal cover ③ over the negative terminal.

### Finishing work

- Mount the seat. (↗ p. 52)

## 15.3 Charging 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 goggles.
- Avoid contact with battery acid and battery gases.
- Keep sparks and open flames away from the battery. Only charge in well-ventilated rooms.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.



### Warning

**Environmental hazard** Batteries contain environmentally-hazardous materials.

- Do not dispose of batteries as household waste.
- Return batteries to your authorized Husqvarna Motorcycles dealer or dispose of them at a collection point for used batteries.



### Warning

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



### Info

Even when there is no load on the battery, it still loses power steadily.

The charge state and the type of charge are very important for the service life of the battery.

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

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

If the battery is depleted from starting the vehicle repeatedly, 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 sulfate, destroying the battery.

The battery is maintenance-free, which means that the acid level does not need to be checked.

### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the seat. (☛ p. 51)
- Disconnect the negative cable of the battery to avoid damage to the onboard electronics.

### Main work

- Connect the battery charger with the battery. Switch on the battery charger.

Battery charger (81229074000)

You can also use the battery charger to test the open-circuit voltage and starting voltage of the battery, and to test the alternator. With this device, you cannot overcharge the battery.



### Info

Never remove lid ①.

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

- Switch off the battery charger after charging. Connect the negative cable with the battery.

### Guideline

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

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

### Finishing work

- Mount the seat. (☛ p. 52)



## 15.4 Changing the main fuse

### Warning

- Fire hazard** The electrical system can be overloaded if the wrong fuses are used.
- Use only fuses with the prescribed amperage. Never bypass or repair fuses.

### Info

The main fuse protects all power consumers of the vehicle. It is located in the starter relay housing under the air filter box lid.

#### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the air filter box lid. (☞ p. 52)

#### Main work

- Remove protection caps ①.
- Remove the faulty main fuse ②.

### Info

A defective fuse can be identified by the burned-out fuse wire **A**.  
A reserve fuse ③ is located in the starter relay.

- Install a new main fuse.

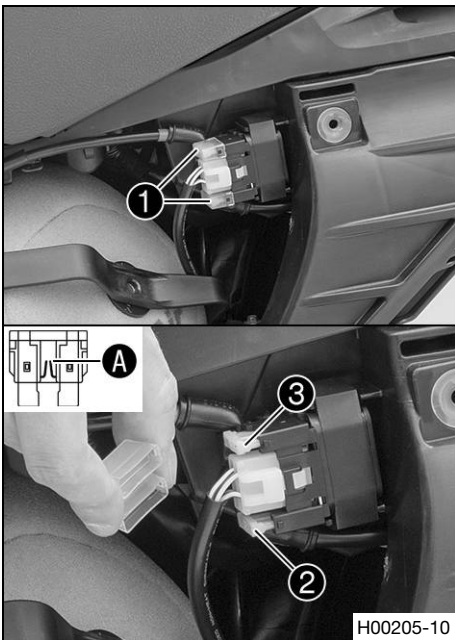
Fuse (58011109120) (☞ p. 109)

- Check that the electrical equipment is functioning properly.

### Tip

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

- Mount the protection caps.



H00205-10

#### Finishing work

- Install the air filter box lid. (☞ p. 52)

## 15.5 Changing the fuses of individual power consumers

### Info

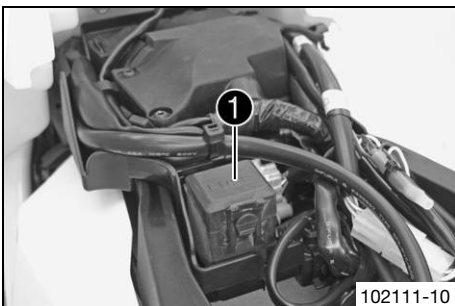
The fuse box containing the fuses of individual power consumers is located under the seat.

#### Preparatory work

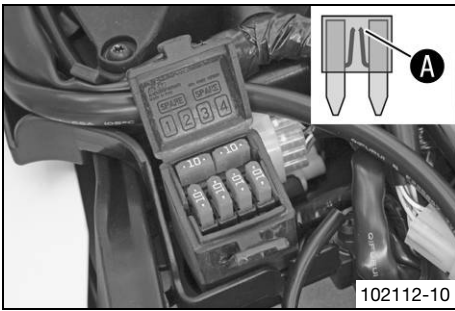
- Switch off all power consumers and switch off the engine.
- Remove the seat. (☞ p. 51)

#### Main work

- Open fuse box cover ①.



102111-10



- Remove the defective fuse.

**Guideline**

Fuse 1 - 10 A - EFI control unit
Fuse 2 - 10 A - fuel pump
Fuse 3 - 10 A - ignition
Fuse 4 - 10 A - high beam, low beam, parking light, tail light, license plate lamp, horn, brake light, turn signal, radiator fan
Fuses res - 10 A - spare fuses

**Info**  
A defective fuse is indicated by a burned-out fuse wire **A**.

**Warning**  
**Fire hazard** The electrical system can be overloaded if the wrong fuses are used.  
- Use only fuses with the prescribed amperage. Never bypass or repair fuses.

- Use spare fuses with the correct rating only.

Fuse (75011088010) (☛ p. 109)
-------------------------------

**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.

**Finishing work**

- Mount the seat. (☛ p. 52)

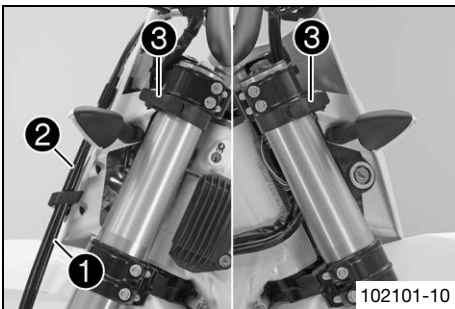
## 15.6 Removing the headlight mask with the headlight

**Preparatory work**

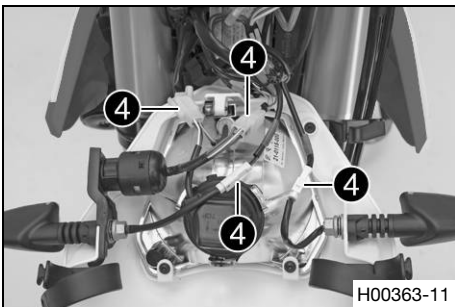
- Switch off all power consumers and switch off the engine.

**Main work**

- Detach brake line **1** and wiring harness **2**.
- Release rubber straps **3**. Slide the headlight mask up and swing it forward.

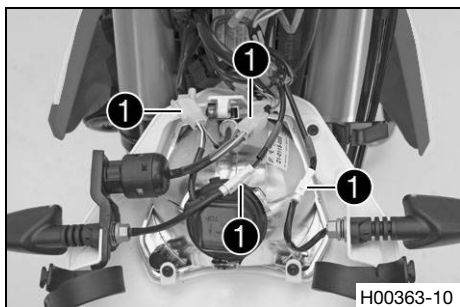


- Detach plug-in connectors **4** and take off the headlight mask with the headlight.



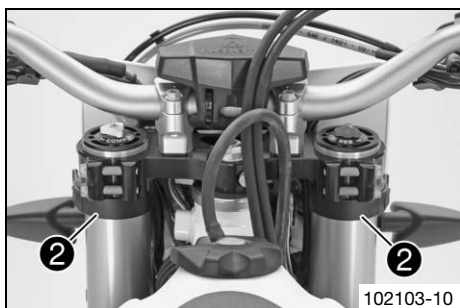


## 15.7 Installing the headlight mask with the headlight

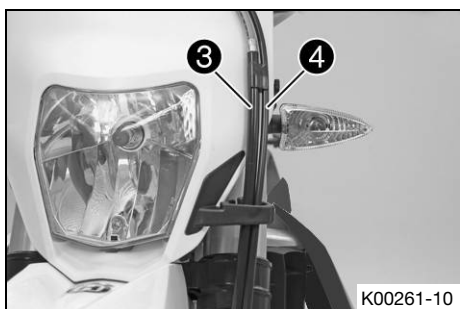


### Main work

- Connect plug-in connectors ①.



- Position the headlight mask and secure it with rubber bands ②.  
✓ The holding lugs engage in the fender.



- Position brake line ③ and wiring harness ④ in the brake line guide.

### Finishing work

- Check the headlight setting. (☛ p. 88)

## 15.8 Changing the headlight bulb

### Note

**Damage to reflector** Reduced brightness.

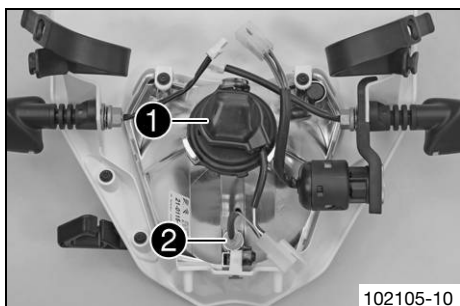
- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.

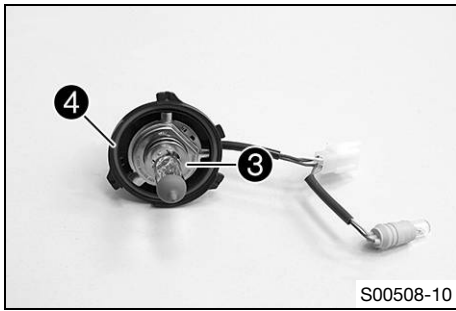
### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the headlight mask with the headlight. (☛ p. 86)

### Main work

- Turn protection cap ① together with the underlying bulb socket counterclockwise all the way and remove it.
- Pull bulb socket ② of the parking light out of the reflector.





- Pull out headlight bulb ③.
- Insert the new headlight bulb.

Headlight (HS1 / Socket PX43t) (☞ p. 109)

- Insert the protection cap with the bulb socket into the reflector and turn it clockwise all the way.
- Ensure that O-ring ④ is seated properly.
- Insert the bulb socket of the parking light into the reflector.

### Finishing work

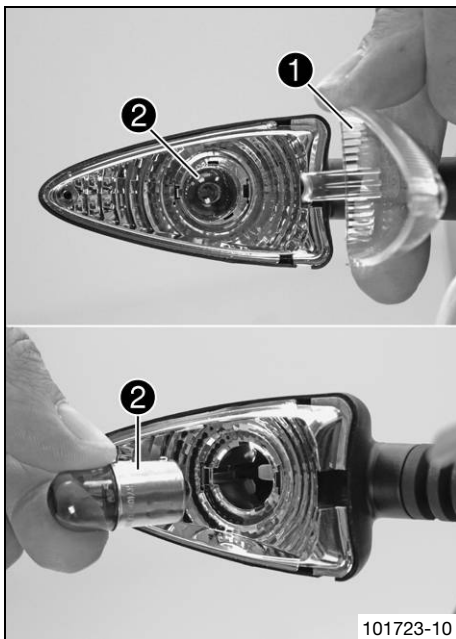
- Install the headlight mask with the headlight. (☞ p. 87)
- Check the headlight setting. (☞ p. 88)

## 15.9 Changing the turn signal bulb

### Note

**Damage to reflector** Reduced brightness.

- Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.



### Main work

- Remove the screw and carefully remove diffuser ①.
- Press the turn signal bulb ② carefully into the socket, turn it counterclockwise by about 30°, and take it out of the socket.

### Info

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

- Press the new turn signal bulb carefully into the socket and turn it clockwise until it stops.

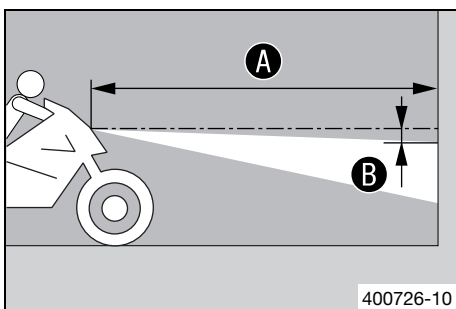
Turn signal (RY10W / socket BAU15s) (☞ p. 109)

- Position the diffuser.
- Insert the screw and first turn counterclockwise until it engages in the thread with a small jerk. Tighten the screw lightly.

### Finishing work

- Check that the turn signal system is functioning properly.

## 15.10 Checking the headlight setting



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

Guideline

Distance B	5 cm (2 in)
------------	-------------

- Position the vehicle vertically at a distance A away from the wall.

Guideline

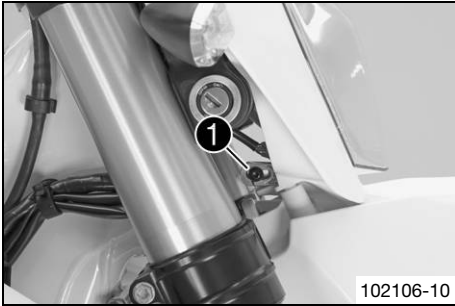
Distance A	5 m (16 ft)
------------	-------------

- The rider now sits down on the motorcycle.
- Switch on the low beam.
- Check the headlight setting.

The boundary between light and dark must be exactly on the lower mark for a motorcycle with rider.

- » If the light-dark border does not meet specifications:
  - Adjust the headlight range. (☞ p. 89)

## 15.11 Adjusting the headlight range



### Preparatory work

- Check the headlight setting. (☞ p. 88)

### Main work

- Loosen screw ❶.
- Adjust the headlight range by pivoting the headlight.

### Guideline

The boundary between light and dark must be exactly on the lower mark for a motorcycle with driver (instructions on how to apply the mark: Checking the headlight setting).

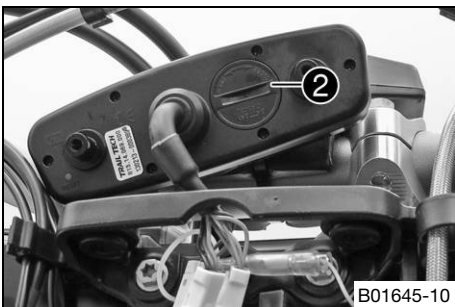
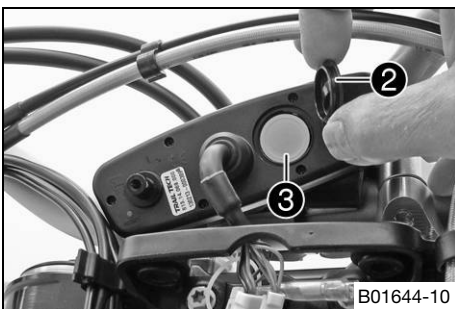
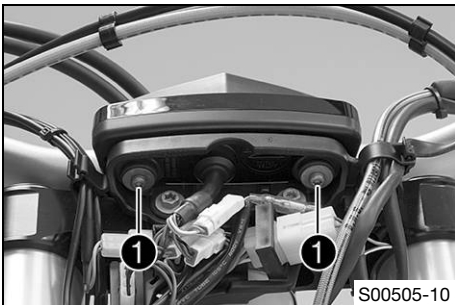


### Info

A change in weight on the vehicle may require a correction of the headlight range.

- Tighten screw ❶.

## 15.12 Changing the speedometer battery



### Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the headlight mask with the headlight. (☞ p. 86)

### Main work

- Remove screws ❶.
- Pull the speedometer upward out of the holder.

- Using a coin, turn protection cap ❷ all the way counterclockwise and remove it.
- Remove speedometer battery ❸.
- Insert the new battery with the label facing outward.

Speedometer battery (CR 2032) (☞ p. 109)

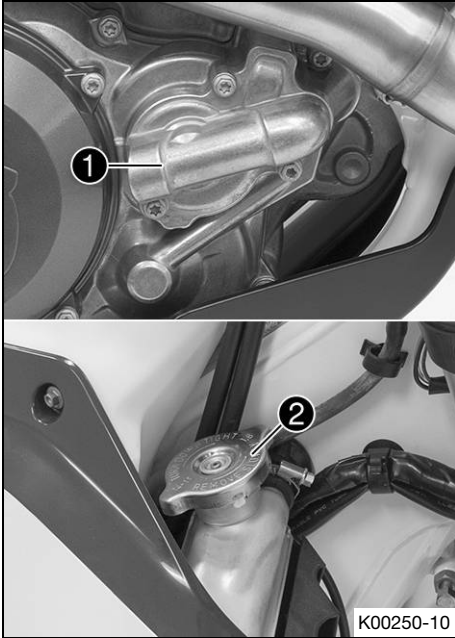
- Check the O-ring of the protection cap for correct seating.

- Position protection cap ❷ and turn all the way clockwise using a coin.
- Press any button on the speedometer.
  - ✓ The speedometer is activated.
- Position the speedometer in the holder.
- Mount and tighten the screws with washers.

### Finishing work

- Install the headlight mask with the headlight. (☞ p. 87)
- Check the headlight setting. (☞ p. 88)
- Set the speedometer. (☞ p. 23)

## 16.1 Cooling system



The 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. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

120 °C (248 °F)
-----------------

Cooling is effected by the air stream.

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

The radiator fan provides extra cooling. It is controlled by a thermostwitch.

## 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 remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.

### Warning

**Danger of poisoning** Coolant is poisonous and a health hazard.

- Coolant must not come into contact with the skin, eyes, or clothing. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with coolant. Keep coolant out of reach of children.

### Condition

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the antifreeze in the coolant.

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

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

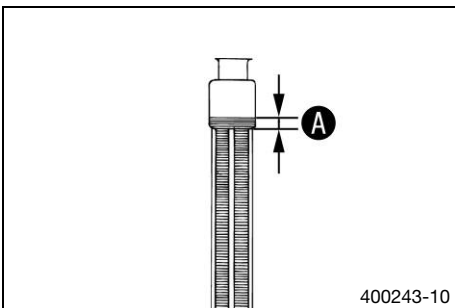
- Check the coolant level in the radiator.

Coolant level ① above the radiator fins	10 mm (0.39 in)
---	-----------------

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

Coolant (☛ p. 112)
--------------------

- Mount the radiator cap.



## 16.3 Checking the coolant level

**Warning**

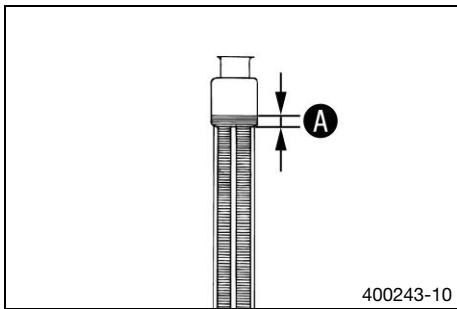
**Danger of scalding** During motorcycle operation, the coolant gets very hot and is under pressure.

- Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.

**Warning**

**Danger of poisoning** Coolant is poisonous and a health hazard.

- Coolant must not come into contact with the skin, eyes, or clothing. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with coolant. Keep coolant out of reach of children.



**Condition**

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the coolant level in the radiator.

Coolant level <b>A</b> above the radiator fins	10 mm (0.39 in)
--	-----------------

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

Coolant (☞ p. 112)
--------------------

- Mount the radiator cap.

## 16.4 Draining the coolant

**Warning**

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

- Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.

**Warning**

**Danger of poisoning** Coolant is poisonous and a health hazard.

- Coolant must not come into contact with the skin, eyes, or clothing. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with coolant. Keep coolant out of reach of children.

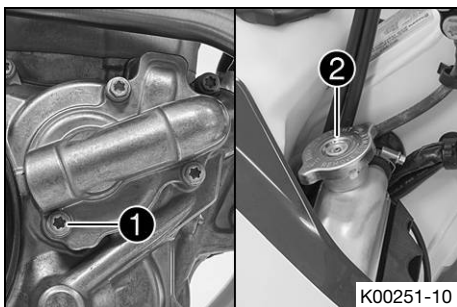
**Condition**

The engine is cold.

- Position the motorcycle upright.
- Place a suitable container under the water pump cover.
- Remove screw **1**. Take off radiator cap **2**.
- Completely drain the coolant.
- Mount and tighten screw **1** with a new seal ring.

**Guideline**

Screw, water pump cover	M6x25	10 Nm (7.4 lbf ft)
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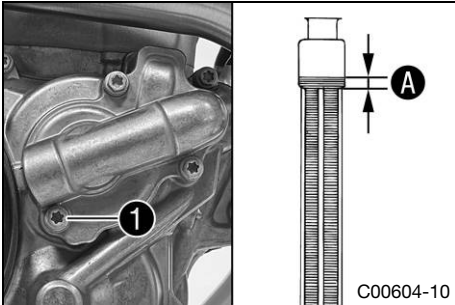


## 16.5 Refilling coolant ↩

**Warning**

**Danger of poisoning** Coolant is poisonous and a health hazard.

- Coolant must not come into contact with the skin, eyes, or clothing. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with coolant. Keep coolant out of reach of children.



**Main work**

- Make sure that the screw ① is tightened.
- Stand the vehicle upright.
- Pour coolant in up to measurement A above the radiator fins.

**Guideline**

10 mm (0.39 in)

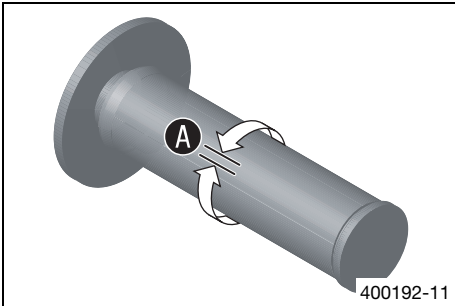
Coolant	1.2 l (1.3 qt.)	Coolant (☛ p. 112)
---------	-----------------	--------------------

- Refit the radiator cap.

**Finishing work**

- Take a short test ride.
- Check the coolant level. (☛ p. 91)

## 17.1 Checking the play in the throttle cable



- Check the throttle grip for smooth operation.
- Move the handlebar to the straight-ahead position. Move the throttle grip back and forth slightly to ascertain play **A** in the throttle cable.

Play in throttle cable	3... 5 mm (0.12... 0.2 in)
------------------------	----------------------------

- » If the throttle cable play does not meet specifications:
  - Adjust the play in the throttle cable. ↘ (☞ p. 93)



### Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.
---------------------------------

- » If the idle speed changes:
  - Adjust the play in the throttle cable. ↘ (☞ p. 93)

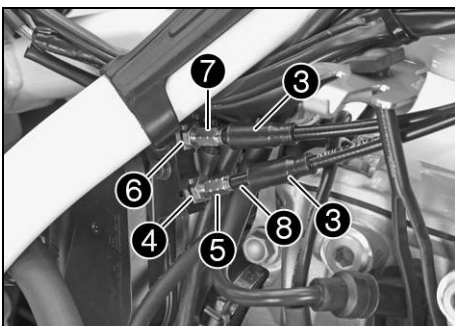
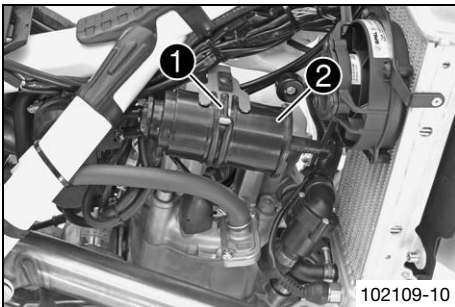
## 17.2 Adjusting the play in the throttle cable ↘

### Preparatory work

- Remove the seat. (☞ p. 51)
- Remove the fuel tank. ↘ (☞ p. 60)
- Check the routing of the throttle cable. (☞ p. 66)

### Main work

- Detach rubber strap **1**.
- Hang activated charcoal filter **2** to the side.

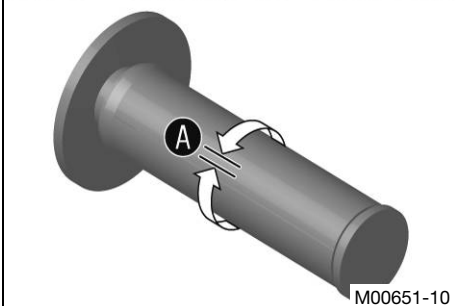


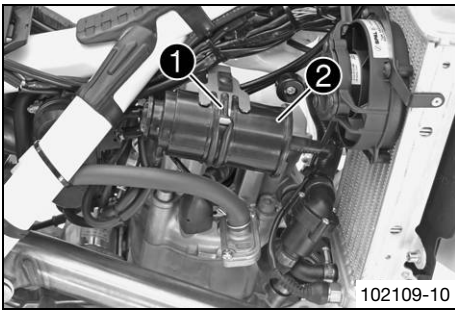
- Move the handlebar to the straight-ahead position.
- Push back sleeves **3**.
- Loosen nut **4**. Turn adjusting screw **5** in as far as possible.
- Loosen nut **6**. Turn adjusting screw **7** so that there is play **A** in the throttle cable at the throttle grip.

### Guideline

Play in throttle cable	3... 5 mm (0.12... 0.2 in)
------------------------	----------------------------

- Tighten nut **6**.
- Press and hold the throttle grip in the closed setting. Turn adjusting screw **5** out until there is no play in throttle cable **8**.
- Tighten nut **4**.
- Slide on sleeves **3**. Check the throttle grip for smooth operation.





- Position activated charcoal filter ②.
- Reconnect rubber band ①.

**Finishing work**

- Install the fuel tank. (☞ p. 61)
- Mount the seat. (☞ p. 52)
- Check the play in the throttle cable. (☞ p. 93)

## 17.3 Adjusting the idle speed ☞



**Warning**

**Danger of accidents** The engine may go out spontaneously if the idle speed is set too low.

- Set the idle speed to the specified value.



**Danger**

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

- Run the engine warm and push the idle speed adjusting screw ① all the way in.
- Set the desired idle speed by turning the idle speed adjusting screw.

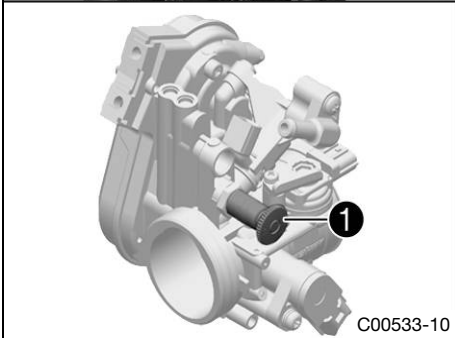
**Guideline**

Idle speed	1,800... 1,900 rpm
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**Info**

Turn counterclockwise to increase the idle speed.  
Turn clockwise to decrease the idle speed.

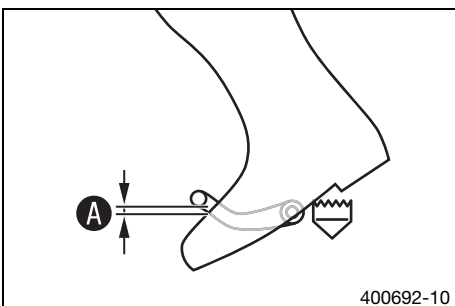


## 17.4 Checking the basic position of the shift lever



**Info**

When driving, the shift lever must not touch the driver's boot when in the basic position.  
When the shift lever keeps touching the boot, the transmission will be subject to an excessive load.



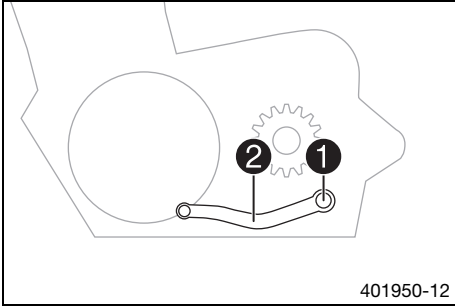
- Sit on the vehicle in the riding position and determine the distance ① between the upper edge of your boot and the shift lever.

Gap between the shift lever and the top of the boot	10... 20 mm (0.39... 0.79 in)
---	-------------------------------

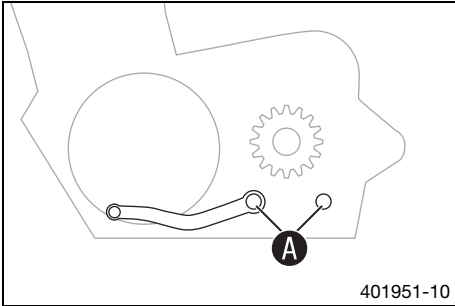
- » If the distance does not meet the specifications:
  - Adjust the basic position of the shift lever. (☞ p. 95)



## 17.5 Adjusting the basic position of the shift lever ↗



- Remove screw 1 with washers and take off shift lever 2.



- Clean gear teeth A of the shift lever and shift shaft.
- Mount the shift lever on the shift shaft in the required position and engage the gearing.

### **i** Info

The range of adjustment is limited.

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

- Locate and tighten screw 1 with washers.

### Guideline

Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
--------------------	----	------------------------	---------------

## 18.1 Changing the fuel screen ↩



### Danger

**Fire hazard** Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- The fuel in the fuel tank expands when warm and may emerge if overfilled. Follow the instructions on refueling.



### Warning

**Danger of poisoning** Fuel is poisonous and a health hazard.

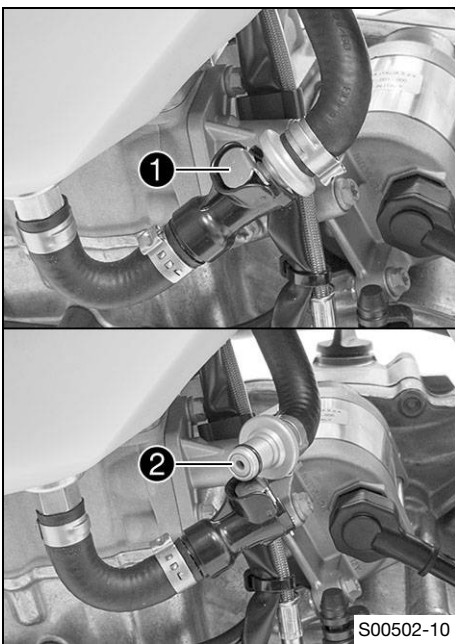
- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that is contaminated with fuel.



### Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.



- Clean the plug-in connection **1** of the fuel line thoroughly with compressed air.



### Info

Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

- Disconnect the plug-in connection of the fuel line.



### Info

Remaining fuel may flow out of the fuel hose.

- Pull fuel screen **2** out of the connecting piece.
- Slide the new fuel screen all the way into the connecting piece.
- Lubricate the O-ring and connect plug-in connection of the fuel line.



### Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

- Start the engine and check the response.

## 18.2 Checking the engine oil level

### Condition

The engine is at operating temperature.

### Preparatory work

- Stand the motorcycle upright on a horizontal surface.

### Main work

- Check the engine oil level.

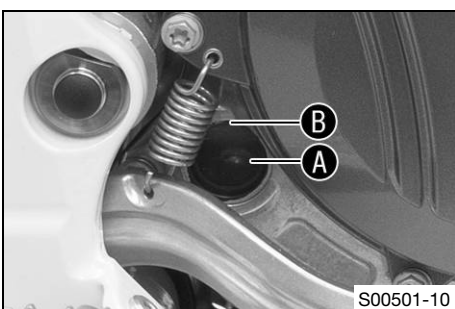


### Info

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

The engine oil level is between **A** and **B**.

- » When the engine oil level is below the **A** marking:
  - Add engine oil. (☛ p. 99)
- » When the engine oil level is at or above the **B** marking:
  - Correct the engine oil level.



## 18.3 Changing the engine oil and oil filter, cleaning the oil screens ↻

**Warning**

**Danger of scalding** Engine oil and gear oil get very hot when the motorcycle is ridden.

- Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.

**Warning**

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

**Info**

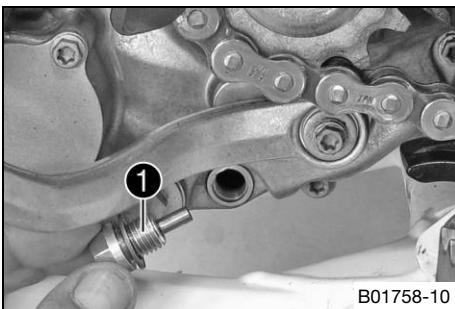
Drain the engine oil only when the engine is warm.

**Preparatory work**

- Remove the engine guard. (↻ p. 68)
- Park the motorcycle on a level surface.

**Main work**

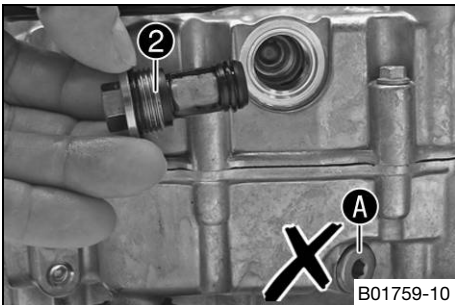
- Place a suitable container under the engine.
- Remove oil drain plug **1** with the magnet and seal ring.



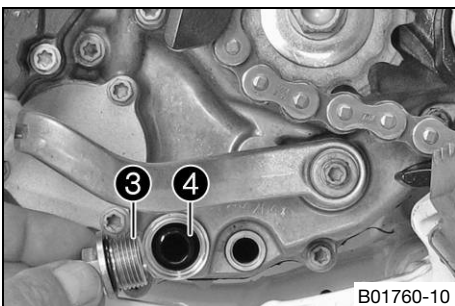
- Remove screw plug **2** with the gear oil screen and the O-rings.

**Info**

Do not remove screw **A**.



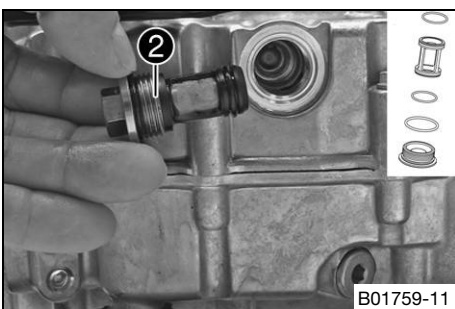
- Remove screw plug **3** with oil screen **4** and the O-rings.
- Completely drain the engine oil.
- Thoroughly clean the parts and sealing surfaces.

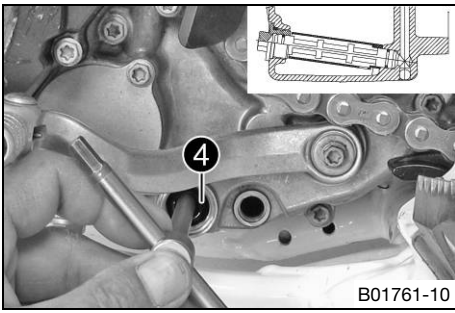


- Mount and tighten screw plug **2** with the gear oil screen and the O-rings.

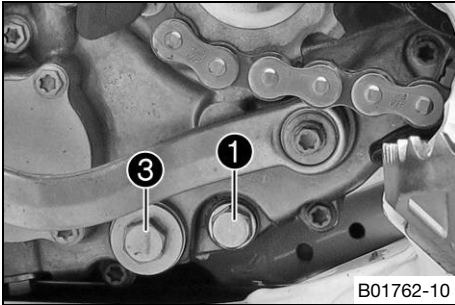
**Guideline**

Screw plug, gear oil screen	M20x1.5	15 Nm (11.1 lbf ft)
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- Position oil screen **4** with the O-rings on a pin wrench.
- Position the pin wrench through the drilled hole of the screw plug in the opposite section of the engine case.
- Push the oil screen all the way into the engine case.



- Mount and tighten screw plug **3** with the O-ring.

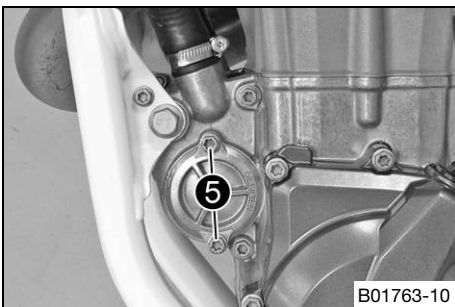
Guideline

Screw plug, engine oil screen	M20x1.5	15 Nm (11.1 lbf ft)
-------------------------------	---------	---------------------

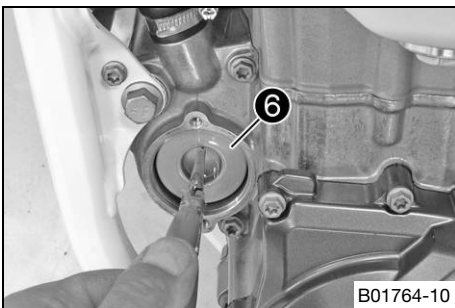
- Mount and tighten the oil drain plug **1** with the magnet and a new seal ring.

Guideline

Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)
----------------------------	---------	---------------------



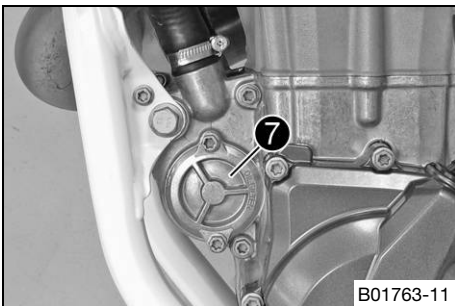
- Remove screws **5**. Remove the oil filter cover with the O-ring.



- Pull oil filter **6** out of the oil filter housing.

Circlip pliers reverse (51012011000)		
--------------------------------------	--	--

- Completely drain the engine oil.
- Thoroughly clean the parts and sealing area.

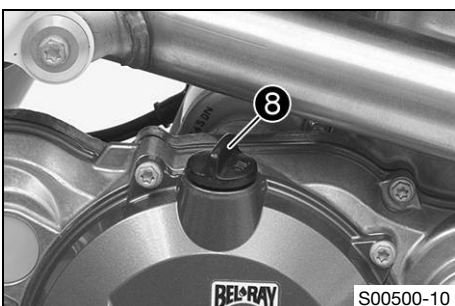


- Lay the motorcycle on its side and fill the oil filter housing to about 1/3 full with engine oil.
- Insert the new oil filter into the oil filter housing.
- Oil the O-ring of the oil filter cover and mount it with oil filter cover **7**.
- Mount and tighten the screws.

Guideline

Screw, oil filter cover	M5	6 Nm (4.4 lbf ft)
-------------------------	----	-------------------

- Stand the motorcycle upright.



- Remove the oil filler plug **8** with the O-ring from the clutch cover and fill up with engine oil.

Engine oil	1.50 l (1.59 qt.)	Engine oil (SAE 10W/50) (☛ p. 112)
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**i Info**

Too little engine oil or poor-quality engine oil results in premature wear to the engine.

- Install and tighten the oil filler plug with O-ring.

**Danger**

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

- Start the engine and check that it is oil-tight.

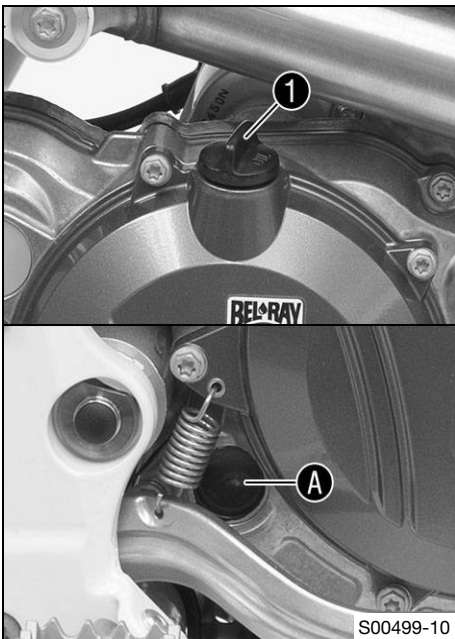
**Finishing work**

- Install the engine guard. (☞ p. 68)
- Check the engine oil level. (☞ p. 96)

## 18.4 Adding engine oil

**Info**

Too little engine oil or poor-quality engine oil results in premature wear to the engine.

**Main work**

- Remove the oil filler plug ① with the O-ring from the clutch cover.
- Fill engine oil to the middle ① of the level viewer.

Engine oil (SAE 10W/50) (☞ p. 112)

**Info**

For optimal performance of the engine oil, do not mix different types of engine oil.

If appropriate, change the engine oil.

- Install and tighten the oil filler plug with O-ring.

**Danger**

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.

- Start the engine and check that it is oil-tight.

**Finishing work**

- Check the engine oil level. (☞ p. 96)

## 19.1 Cleaning the motorcycle

**Note**

**Material damage** Damage and destruction of components by high-pressure cleaning equipment.

- When cleaning the vehicle with a pressure cleaner, do not point the water jet directly onto electrical components, connectors, cables, bearings, etc. Maintain a minimum distance of 60 cm between the nozzle of the pressure cleaner and the component. Excessive pressure can cause malfunctions or destroy these parts.

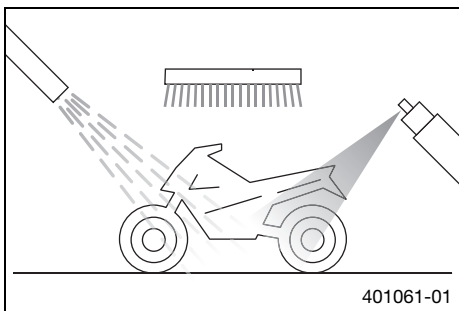
 **Warning**

**Environmental hazard** Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in 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.



- Close off the exhaust system to prevent water from entering.
- Remove coarse dirt particles with a gentle spray of water.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a paintbrush.

 **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.

- 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** Reduced braking efficiency due to a wet or dirty brake system.

- Clean or dry a dirty or wet brake system by riding and braking gently.

- After cleaning, ride a short distance until the engine reaches operating temperature.

 **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. 62)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Preserving materials for paints, metal and rubber (☛ p. 113)

- Treat all plastic parts and powder-coated parts with a mild cleaning and care product.
- Lubricate the steering lock.

Universal oil spray (☛ p. 113)

- Grease the ignition switch.

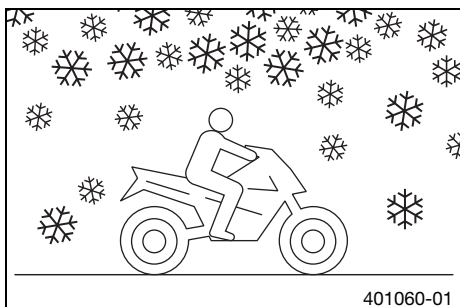
Universal oil spray (☛ p. 113)

## 19.2 Checks and maintenance steps for winter operation

### **i** Info

If you use the vehicle 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.



401060-01

- Clean the motorcycle. (☛ p. 100)
- Clean the brake system.

### **i** Info

After **EVERY** trip on salted roads, thoroughly wash the brake calipers and brake linings, in the cooled down and installed state, with cold water and dry carefully.

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

- Treat the engine, swingarm, and all other bright and zinc-plated parts (except for the brake discs) with a wax-based corrosion inhibitor.

### **i** Info

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

- Clean the chain. (☛ p. 62)

## 20.1 Storage



### Warning

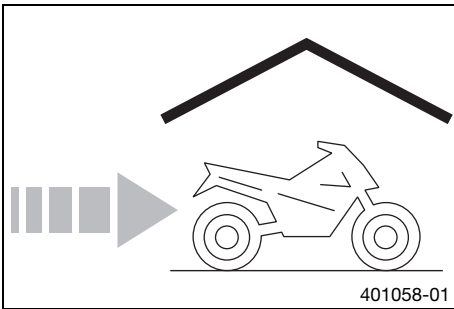
**Danger of poisoning** Fuel is poisonous and a health hazard.

- Fuel must not come into contact with the skin, eyes, or clothing. Do not breathe in the fuel vapors. If contact occurs with the eyes, rinse with water immediately and contact a physician. Immediately clean contaminated areas on the skin with soap and water. If fuel is swallowed, contact a physician immediately. Change clothing that has been contaminated with fuel. Store fuel properly in a suitable canister and keep away from children.



### Info

If you plan to garage the motorcycle for a longer period, perform the following steps or have them performed. Before storing the motorcycle, check all parts for function and wear. If service, repairs, or replacements are necessary, you should do this during the storage period (less workshop overload). In this way, you can avoid long workshop waiting times at the start of the new season.



- When refueling for the last time before taking the motorcycle out of service, add fuel additive.
- Refuel. (☞ p. 34)
- Clean the motorcycle. (☞ p. 100)
- Change the engine oil and oil filter and clean the oil screens. ☞ (☞ p. 97)
- Check the antifreeze and coolant level. (☞ p. 90)
- Check the tire air pressure. (☞ p. 81)
- Remove the battery. ☞ (☞ p. 83)
- Charge the battery. ☞ (☞ p. 84)

#### 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.

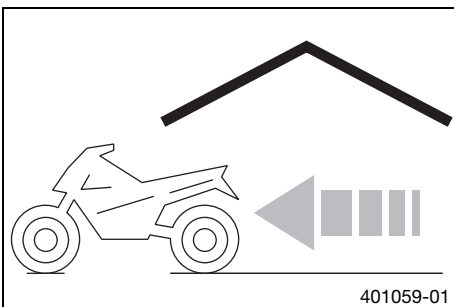
- Raise the motorcycle with a lift stand. (☞ p. 44)
- Cover the motorcycle with a porous sheet or blanket. Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion.



### Info

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












- Remove the motorcycle from the lift stand. (☞ p. 44)
- Install the battery. ☞ (☞ p. 83)
- Perform checks and maintenance work when preparing the vehicle for use. (☞ p. 31)
- Take a test ride.



Faults	Possible cause	Action
The engine cannot be cranked (electric starter)	Operating error	– Carry out the start procedure. (☛ p. 31)
	Battery is discharged	– Charge the battery. ☛ (☛ p. 84) – Check the charging voltage. ☛ – Check the closed current. ☛ – Check the stator winding of the alternator. ☛
	Main fuse blown	– Change the main fuse. (☛ p. 85)
	Starter relay defective	– Check the starter relay. ☛
	Starter motor defective	– Check the starter motor. ☛
Engine turns but does not start	Operating error	– Carry out the start procedure. (☛ p. 31)
	The plug-in connection of the fuel hose connection is not connected	– Connect the plug-in connection of the fuel line.
	Fuse 1 blown	– Change the fuses of individual power consumers. (☛ p. 85)
	Fuse 2 blown	– Change the fuses of individual power consumers. (☛ p. 85)
	Idle speed is not set correctly	– Adjust the idle speed. ☛ (☛ p. 94)
	Spark plug oily or wet	– Clean and dry the spark plug or replace if necessary.
	Electrode distance (plug gap) of spark plug too wide	– Adjust the plug gap. Guideline Spark plug electrode gap 1.0 mm (0.039 in)
	Ignition system defective	– Check the ignition system. ☛
	Short-circuit cable in wiring harness frayed, kill switch or emergency OFF switch defective	– Check the wiring harness. (visual check) – Check the electrical system.
Engine does not speed up	Defect in fuel injection system	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. ☛
	Ignition system defective	– Ignition coil - check the secondary winding. ☛ – Check the spark plug connector. ☛ – Check the stator winding of the alternator. ☛
Engine has too little power	Air filter heavily contaminated	– Clean the air filter and air filter box. ☛ (☛ p. 53)
	Fuel filter is very dirty	– Change the fuel filter. ☛
	Fuel screen is very dirty	– Change fuel screen. ☛ (☛ p. 96)
	Defect in fuel injection system	– Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. ☛
	Exhaust system leaky, deformed or too little glass fiber yarn filling in main silencer	– Check exhaust system for damage. – Change the glass fiber yarn filling of the main silencer. ☛ (☛ p. 58)
	Valve clearance too little	– Adjust valve clearance. ☛
	Ignition system defective	– Ignition coil - check the secondary winding. ☛ – Check the spark plug connector. ☛ – Check the stator winding of the alternator. ☛
Engine dies during the trip	Lack of fuel	– Refuel. (☛ p. 34)
	Fuse 1 blown	– Change the fuses of individual power consumers. (☛ p. 85)
	Fuse 2 blown	– Change the fuses of individual power consumers. (☛ p. 85)
	Fuse 3 blown	– Change the fuses of individual power consumers. (☛ p. 85)
Engine overheats	Coolant level low in cooling system	– Check the cooling system for leaks. – Check the coolant level. (☛ p. 91)

Faults	Possible cause	Action
Engine overheats	Insufficient airflow	– Switch off engine when stationary.
	Radiator fins very dirty	– Clean radiator fins.
	Foam formation in cooling system	– Drain the coolant. 🛠️ (p. 91) – Refill the coolant. 🛠️ (p. 92)
	Bent radiator hose	– Change the radiator hose. 🛠️
	Thermostat defective	– Check the thermostat. 🛠️ Guideline Opening temperature: 70 °C (158 °F)
	Defect in radiator fan system	– Check the radiator fan fuse. – Check fuse 4. – Check the radiator fan. 🛠️
<b>FI</b> warning lamp ( <b>MIL</b> ) lights up/flashes	Defect in fuel injection system	– Stop the motorcycle and identify the faulty part using the blink code. – Check the cabling for damage and the electrical plug-in connectors for corrosion and damage. – Read out the fault memory using the Husqvarna Motorcycles diagnostics tool. 🛠️
High oil consumption	Engine vent hose bent	– Route the vent hose without bends or replace it if necessary.
	Engine oil level too high	– Check the engine oil level. (p. 96)
	Engine oil too thin (low viscosity)	– Change the engine oil and oil filter and clean the oil screens. 🛠️ (p. 97)
	Piston and cylinder worn	– Measure the piston/cylinder mounting clearance. 🛠️
Battery discharged	Battery is not being charged by alternator	– Check the charging voltage. 🛠️ – Check the stator winding of the alternator. 🛠️
	Undesired power consumer	– Check the closed current. 🛠️
Speedometer values deleted (time, stop watch, lap times)	The battery in the speedometer is discharged	– Change the speedometer battery. (p. 89)
The high beam, low beam, parking light, tail light, and license plate lamp are not working	Fuse 3 blown	– Change the fuses of individual power consumers. (p. 85)
The speedometer, horn, brake light, turn signal, and radiator fan are not working	Fuse 4 blown	– Change the fuses of individual power consumers. (p. 85)

<b>Blink code FI warning lamp (MIL)</b>	 02 FI warning lamp (MIL) flashes 2x short
<b>Error level condition</b>	Crankshaft position sensor - circuit fault
<b>Blink code FI warning lamp (MIL)</b>	 06 FI warning lamp (MIL) flashes 6x short
<b>Error level condition</b>	Throttle position sensor circuit A - input signal too low Throttle position sensor circuit A - input signal too high
<b>Blink code FI warning lamp (MIL)</b>	 09 FI warning lamp (MIL) flashes 9x short
<b>Error level condition</b>	Manifold absolute pressure sensor cylinder 1 - input signal too low Manifold absolute pressure sensor cylinder 1 - input signal too high
<b>Blink code FI warning lamp (MIL)</b>	 12 FI warning lamp (MIL) flashes 1x long, 2x short
<b>Error level condition</b>	Engine coolant temperature sensor - input signal too low Engine coolant temperature sensor - input signal too high
<b>Blink code FI warning lamp (MIL)</b>	 13 FI warning lamp (MIL) flashes 1x long, 3x short
<b>Error level condition</b>	Intake air temperature sensor - input signal too low Intake air temperature sensor - input signal too high
<b>Blink code FI warning lamp (MIL)</b>	 15 FI warning lamp (MIL) flashes 1x long, 5x short
<b>Error level condition</b>	Rollover sensor (A/D type) - input signal too low Rollover sensor (A/D type) - input signal too high
<b>Blink code FI warning lamp (MIL)</b>	 33 FI warning lamp (MIL) flashes 3x long, 3x short
<b>Error level condition</b>	Injector cylinder 1 - circuit fault
<b>Blink code FI warning lamp (MIL)</b>	 37 FI warning lamp (MIL) flashes 3x long, 7x short
<b>Error level condition</b>	Ignition coil 1, cylinder 1 - circuit fault
<b>Blink code FI warning lamp (MIL)</b>	 41 FI warning lamp (MIL) flashes 4x long, 1x short
<b>Error level condition</b>	Fuel pump relay - short circuit to ground or open circuit Fuel pump relay - input signal too low

## 23.1 Engine

Design	1-cylinder 4-stroke engine, water-cooled
Displacement	510.4 cm <sup>3</sup> (31.147 cu in)
Stroke	72 mm (2.83 in)
Bore	95 mm (3.74 in)
Compression ratio	11,8:1
Idle speed	1,800... 1,900 rpm
Control	OHC, 4 valves controlled via rocker arm, drive via tooth/wheel chain
Valve diameter, intake	40 mm (1.57 in)
Valve diameter, exhaust	33 mm (1.3 in)
Valve clearance	
Exhaust at: 20 °C (68 °F)	0.12... 0.17 mm (0.0047... 0.0067 in)
Intake at: 20 °C (68 °F)	0.10... 0.15 mm (0.0039... 0.0059 in)
Crankshaft bearing	2 grooved ball bearings
Conrod bearing	Slide bearing
Piston pin bearing	No bearing bushes - DLC-plated piston pins
Pistons	Forged light alloy
Piston rings	1 compression ring, 1 oil scraper ring
Engine lubrication	Pressure circulation lubrication with two rotary pumps
Primary transmission	32:76
Clutch	Multidisc clutch in oil bath / hydraulically activated
Transmission ratio	
1st gear	14:36
2nd gear	17:32
3rd gear	19:28
4th gear	22:26
5th gear	24:23
6th gear	26:21
Alternator	12 V, 200 W
Ignition	Contactless controlled fully electronic ignition with digital ignition adjustment, type Kokusan
Spark plug	NGK LKAR 9AI - 10
Spark plug electrode gap	1.0 mm (0.039 in)
Cooling	Water, permanent circulation of coolant by water pump
Starter	Electric starter

## 23.2 Engine tightening torques

Screw, membrane	M3	1.5 Nm (1.11 lbf ft)	Loctite® 243™
Oil jet, piston cooling	M4	2 Nm (1.5 lbf ft)	Loctite® 243™
Screw, cable holder in alternator cover	M4	4 Nm (3 lbf ft)	Loctite® 243™
Oil jet, piston cooling	M5	2 Nm (1.5 lbf ft)	Loctite® 243™
Oil jet, rocker arm lubrication	M5	2 Nm (1.5 lbf ft)	Loctite® 243™
Screw, bearing retainer	M5	6 Nm (4.4 lbf ft)	Loctite® 2701™
Screw, clutch spring retainer	M5	6 Nm (4.4 lbf ft)	–
Screw, ignition pulse generator	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Screw, locking lever	M5	6 Nm (4.4 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, stator	M5	6 Nm (4.4 lbf ft)	Loctite® 243™
Nut, water pump impeller	M6	8 Nm (5.9 lbf ft)	Loctite® 243™

Plug, vacuum connection	M6	2.5 Nm (1.84 lbf ft)	Loctite® 243™
Screw plug EVAP	M6	5 Nm (3.7 lbf ft)	Loctite® 243™
Screw, alternator cover	M6x25	10 Nm (7.4 lbf ft)	–
Screw, camshaft bearing support	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, clutch cover	M6x25	10 Nm (7.4 lbf ft)	–
Screw, cylinder head	M6	10 Nm (7.4 lbf ft)	–
Screw, engine case	M6x40	10 Nm (7.4 lbf ft)	–
Screw, engine case	M6x60	10 Nm (7.4 lbf ft)	–
Screw, engine case	M6x75	10 Nm (7.4 lbf ft)	–
Screw, engine case	M6x80	10 Nm (7.4 lbf ft)	–
Screw, engine case	M6x85	10 Nm (7.4 lbf ft)	–
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, idler	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, kick starter spring hanger	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, kick starter stop	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, oil pump cover	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
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)	–
Screw, timing chain guide rail	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, timing chain securing guide	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, timing chain tensioner	M6	10 Nm (7.4 lbf ft)	–
Screw, timing chain tensioning rail	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, torque governor	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Screw, valve cover	M6	10 Nm (7.4 lbf ft)	–
Screw, water pump cover	M6x25	10 Nm (7.4 lbf ft)	–
Screw, water pump cover	M6x55	10 Nm (7.4 lbf ft)	–
Oil jet for balancer shaft lubrication	M6x0.75	4 Nm (3 lbf ft)	–
Oil nozzle for conrod bearing lubrication	M6x0.75	4 Nm (3 lbf ft)	–
Plug, oil channel	M7	9 Nm (6.6 lbf ft)	Loctite® 243™
Screw, rocker arm bearing	M7x1	15 Nm (11.1 lbf ft)	–
Plug, crankshaft location	M8	10 Nm (7.4 lbf ft)	–
Screw, kick starter	M8	25 Nm (18.4 lbf ft)	Loctite® 2701™
Plug, timing chain tensioner	M8x1	8 Nm (5.9 lbf ft)	–
Plug, oil drilling	M10	15 Nm (11.1 lbf ft)	Loctite® 243™
Screw, engine sprocket	M10	60 Nm (44.3 lbf ft)	Loctite® 2701™
Screw, cylinder head	M10x1.25	Tightening sequence: Tighten diagonally, beginning with the rear screw on the timing chain shaft. Step 1 10 Nm (7.4 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 50 Nm (36.9 lbf ft)	Lubricated with engine oil
Nut, rotor	M12x1	60 Nm (44.3 lbf ft)	–
Spark plug	M12x1.25	15... 20 Nm (11.1... 14.8 lbf ft)	–
Engine coolant temperature sensor	M12x1.5	12 Nm (8.9 lbf ft)	–
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	–
Oil pressure control valve plug	M12x1.5	20 Nm (14.8 lbf ft)	–
Plug, SLS	M12x1.5	20 Nm (14.8 lbf ft)	–

Plug, rocker arm	M14x1.25	20 Nm (14.8 lbf ft)	–
Nut, inner clutch hub	M18x1.5	80 Nm (59 lbf ft)	–
Nut, primary gear	M20LHx1.5	100 Nm (73.8 lbf ft)	<b>Loctite® 648™</b>
Screw plug, engine oil screen	M20x1.5	15 Nm (11.1 lbf ft)	–
Screw plug, gear oil screen	M20x1.5	15 Nm (11.1 lbf ft)	–

## 23.3 Capacities

### 23.3.1 Engine oil

Engine oil	1.50 l (1.59 qt.)	Engine oil (SAE 10W/50) (☛ p. 112)
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### 23.3.2 Coolant

Coolant	1.2 l (1.3 qt.)	Coolant (☛ p. 112)
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### 23.3.3 Fuel

Total fuel tank capacity, approx.	8.5 l (2.25 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (☛ p. 112)
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Fuel reserve, approx.	1.5 l (1.6 qt.)
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## 23.4 Chassis

Frame	Central tube frame made of chrome molybdenum steel tubing
Fork	<b>WP Performance Systems</b> Up Side Down 4860 MXMA 4CS
Suspension travel	
Front	300 mm (11.81 in)
Suspension travel	
Rear	330 mm (12.99 in)
Fork offset	22 mm (0.87 in)
Shock absorber	<b>WP Performance Systems</b> 5018 DCC
Brake system	Disc brakes, brake calipers on floating bearings
Brake discs - diameter	
Front	260 mm (10.24 in)
Rear	220 mm (8.66 in)
Brake discs - wear limit	
Front	2.5 mm (0.098 in)
Rear	3.5 mm (0.138 in)
Tire air pressure off road	
Front	1.0 bar (15 psi)
Rear	1.0 bar (15 psi)
Road tire pressure	
Front	1.5 bar (22 psi)
Rear	2.0 bar (29 psi)
Final drive	15:45 (13:50)
Chain	5/8 x 1/4"
Rear sprockets available	48, 50, 52
Steering head angle	63.5°
Wheelbase	1,482±10 mm (58.35±0.39 in)
Seat height unloaded	970 mm (38.19 in)
Ground clearance unloaded	345 mm (13.58 in)
Homologated weight without fuel, approx.	115.3 kg (254.2 lb.)
Maximum permissible front axle load	145 kg (320 lb.)
Maximum permissible rear axle load	190 kg (419 lb.)

Maximum permissible overall weight	335 kg (739 lb.)
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## 23.5 Electrical system

Battery	YTX5L-BS	Battery voltage: 12 V Nominal capacity: 4 Ah Maintenance-free
Speedometer battery	CR 2032	Battery voltage: 3 V
Fuse	75011088010	10 A
Fuse	58011109120	20 A
Headlight	HS1 / Socket PX43t	12 V 35/35 W
Parking light	W5W / socket W2.1x9.5d	12 V 5 W
Indicator lamps	W2.3W / socket W2x4.6d	12 V 2.3 W
Turn signal	RY10W / socket BAU15s	12 V 10 W
Brake/tail light	LED	
License plate lamp	W5W / socket W2.1x9.5d	12 V 5 W

## 23.6 Tires

Front tires	Rear tires
<b>90/90 - 21 M/C 54R TT</b> Michelin ENDURO COMPETITION IV	<b>140/80 - 18 M/C 70R TT</b> Michelin ENDURO COMPETITION IIIe
Additional information is available in the Service section under: <a href="http://www.husqvarna-motorcycles.com">www.husqvarna-motorcycles.com</a>	

## 23.7 Fork

Fork part number	24.18.7P.69
Fork	<b>WP Performance Systems</b> Up Side Down 4860 MXMA 4CS
Compression damping	
Comfort	14 clicks
Standard	12 clicks
Sport	10 clicks
Rebound damping	
Comfort	14 clicks
Standard	12 clicks
Sport	10 clicks
Spring length with preload spacer(s)	475 mm (18.7 in)
Spring rate	
Weight of rider: 65... 75 kg (143... 165 lb.)	4.4 N/mm (25.1 lb/in)
Weight of rider: 75... 85 kg (165... 187 lb.)	4.6 N/mm (26.3 lb/in)
Weight of rider: 85... 95 kg (187... 209 lb.)	4.8 N/mm (27.4 lb/in)
Fork length	932 mm (36.69 in)
Air chamber length	68 mm (2.68 in)
Oil capacity per fork leg	630 ml (21.3 fl. oz.)
Fork oil (SAE 4) (48601166S1) (☛ p. 112)	

## 23.8 Shock absorber

Shock absorber article number	18.15.7P.69
Shock absorber	<b>WP Performance Systems 5018 DCC</b>
Compression damping, low-speed	
Comfort	20 clicks
Standard	18 clicks
Sport	16 clicks
Compression damping, high-speed	
Comfort	2.5 turns
Standard	2 turns
Sport	1.5 turns
Rebound damping	
Comfort	20 clicks
Standard	18 clicks
Sport	16 clicks
Spring preload	15 mm (0.59 in)
Spring rate	
Weight of rider: 65... 75 kg (143... 165 lb.)	54 N/mm (308 lb/in)
Weight of rider: 75... 85 kg (165... 187 lb.)	57 N/mm (325 lb/in)
Weight of rider: 85... 95 kg (187... 209 lb.)	60 N/mm (343 lb/in)
Spring length	260 mm (10.24 in)
Gas pressure	10 bar (145 psi)
Static sag	30 mm (1.18 in)
Riding sag	100 mm (3.94 in)
Fitted length	490 mm (19.29 in)
Shock absorber oil	Shock absorber fluid (SAE 2.5) (50180751S1) (☛ p. 112)

## 23.9 Chassis tightening torques

Screw, pressure regulator	<b>EJOT PT®</b> K60x25-Z	3 Nm (2.2 lbf ft)	–
Spoke nipple, front wheel	M4.5	6 Nm (4.4 lbf ft)	–
Spoke nipple, rear wheel	M4.5	6 Nm (4.4 lbf ft)	–
Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)	–
Screw, intake air temperature sensor	M5	2 Nm (1.5 lbf ft)	–
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)	–
Screws on the main silencer	M5	7 Nm (5.2 lbf ft)	–
Nut, cable on starter motor	M6	4 Nm (3 lbf ft)	–
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	–
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	–
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	<b>Loctite® 243™</b>
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	<b>Loctite® 243™</b>
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	<b>Loctite® 243™</b>
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	<b>Loctite® 243™</b>
Screw, throttle grip	M6	5 Nm (3.7 lbf ft)	–
Fuel connection on fuel pump	M8	10 Nm (7.4 lbf ft)	–
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)	–
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	<b>Loctite® 2701™</b>
Nut, rim lock	M8	12 Nm (8.9 lbf ft)	–
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	–
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	–
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	–



Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)	–
Screw, engine brace	M8	33 Nm (24.3 lbf ft)	<b>Loctite® 2701™</b>
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	–
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	–
Screw, manifold	M8	15 Nm (11.1 lbf ft)	–
Screw, side stand attachment	M8	45 Nm (33.2 lbf ft)	<b>Loctite® 2701™</b>
Screw, subframe	M8x20	30 Nm (22.1 lbf ft)	<b>Loctite® 2701™</b>
Screw, subframe	M8x30	30 Nm (22.1 lbf ft)	<b>Loctite® 2701™</b>
Screw, top steering stem	M8	17 Nm (12.5 lbf ft)	<b>Loctite® 243™</b>
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)	–
Engine attachment bolt	M10	60 Nm (44.3 lbf ft)	–
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Screw, bottom shock absorber	M10	60 Nm (44.3 lbf ft)	<b>Loctite® 2701™</b>
Screw, handlebar holder	M10	40 Nm (29.5 lbf ft)	<b>Loctite® 243™</b>
Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	<b>Loctite® 2701™</b>
Nut, fuel pump fixation	M12	15 Nm (11.1 lbf ft)	–
Nut, angle lever on swingarm	M14x1.5	80 Nm (59 lbf ft)	–
Nut, frame on linkage lever	M14x1.5	80 Nm (59 lbf ft)	–
Nut, linkage lever on angle lever	M14x1.5	80 Nm (59 lbf ft)	–
Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)	–
Nut, rear wheel spindle	M20x1.5	80 Nm (59 lbf ft)	–
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)	–
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)	–
Screw-in nozzles, cooling system	M20x1.5	12 Nm (8.9 lbf ft)	<b>Loctite® 243™</b>

**Brake fluid DOT 4****Standard/classification**

- DOT

**Guideline**

- Use only brake fluid that complies with the specified standard (see specifications on the container) and that possesses the corresponding properties.

**Recommended supplier****Bel-Ray®**

- **Super DOT 4 Brake Fluid**

**Coolant****Guideline**

- Only use high quality coolant with corrosion inhibitor for aluminum motors (even in countries with high temperatures). Using inferior antifreeze can result in corrosion and foaming.

**Mixture ratio**

Antifreeze protection: -25... -45 °C (-13... -49 °F)	anti-corrosion/antifreeze distilled water
--	---

**Recommended supplier****Bel-Ray®**

- **Moto Chill Racing Coolant**

**Engine oil (SAE 10W/50)****Standard/classification**

- JASO T903 MA (☛ p. 114)
- SAE (☛ p. 114) (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.

Synthetic engine oil
----------------------

**Recommended supplier****Bel-Ray®**

- **Works Thumper Racing Synthetic Ester 4T**

**Fork oil (SAE 4) (48601166S1)****Standard/classification**

- SAE (☛ p. 114) (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. 114) (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).

## Air filter cleaning agent

Recommended supplier

Bel-Ray®

- Foam Filter Cleaner & Degreaser

## Grip adhesive (00062030051)

Recommended supplier

KTM AG

- GRIP GLUE

## High viscosity grease

Recommended supplier

SKF®

- LGHB 2

## Long-life grease

Recommended supplier

Bel-Ray®

- Waterproof Grease

## Offroad chain spray

Guideline

Recommended supplier

Bel-Ray®

- Blue Tac Chain Lube

## Oil for foam air filter

Recommended supplier

Bel-Ray®

- Foam Filter Oil

## Preserving materials for paints, metal and rubber

Recommended supplier

Bel-Ray®

- Silicone Detailer & Protectant Spray

## Universal oil spray

Recommended supplier

Bel-Ray®

- 6 in 1

### **JASO T903 MA**

Different technical development directions required a new specification for 4-stroke motorcycles – the JASO T903 MA Standard. Earlier, engine oils from the automobile industry were used for 4-stroke motorcycles because there was no separate motorcycle specification. Whereas long service intervals are demanded for automobile engines, high performance at high engine speeds are in the foreground for motorcycle engines. In most motorcycles, the gearbox and the clutch are lubricated with the same oil as the engine. The JASO MA 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.

## 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 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.

	FI warning lamp ( <b>MIL</b> ) lights up/flashes orange – The OBD has detected an emission- or safety-critical fault.
	The low fuel warning lamp lights up orange – The fuel level has reached the reserve mark.

## 28.2 Green and blue symbols

Green and blue symbols reflect information.

	The high beam indicator light lights up blue – The high beam is switched on.
	Turn signal indicator light flashes green – The turn signal is switched on.

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Husqvarna Motorcycles GmbH  
Stallhofnerstraße 3 | 5230 Mattighofen | Austria  
[www.husqvarna-motorcycles.com](http://www.husqvarna-motorcycles.com)



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