

# SETUP INSTRUCTIONS

**FE 450 EU**

**FE 450 USA**

**FE 570 EU**

**FE 570 USA**

# 2009

ART. NO. 3802016en



**HUSABERG**



The work described in these setup instructions must be performed before the vehicle is delivered to the customer.

Read the setup instructions in their entirety before beginning work.

Print out the current **PDI** form found on the **HUSABERG DEALER.NET**.

These setup instructions were written to correspond to the latest state of this series. We reserve the right to make changes in the interest of technical advancement without at the same time updating this manual.

We shall not provide a description of general workshop methods. Likewise, safety rules that apply in a workshop are not specified here. It is assumed that the work will be performed by a fully trained mechanic.

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REG.NO. 12 100 6061

ISO 9001(12 100 6061)

Within the meaning of the international quality management standard ISO 9001, HUSABERG uses quality assurance processes that lead to the maximum possible quality of the products.

Issued by: TÜV Management Service

HUSABERG eine Division der KTM SMC AG  
5230 Mattighofen, Austria

## Symbols used

The symbols used are explained in the following.



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).



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

## Formats used

The typographical and other formats used are explained in the following.

**Name**

Indicates a proprietary name.

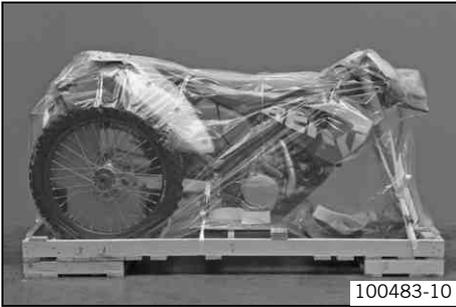
**Name<sup>®</sup>**

Identifies a protected name.

**Brand<sup>™</sup>**

Identifies a brand in merchandise traffic.

## Unpacking and setting up the vehicle



100483-10

- Remove the box and the plastic packaging.

**i Info**

To avoid damaging the motorcycle during the setup, leave the protective film on the vehicle until you have finished.

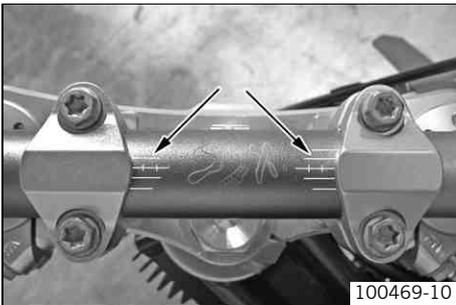
- Check the vehicle for transport damage.
- Unpack the separate enclosure and check its contents on the basis of the enclosure list.
- Set up the work stand.

Work stand (81229055000)

- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a work stand.
- Position the handlebar.
- Position the handlebar clamps and mount the four screws. Move the handlebar into the correct position (see figure) and evenly tighten the screws.

Guideline

Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
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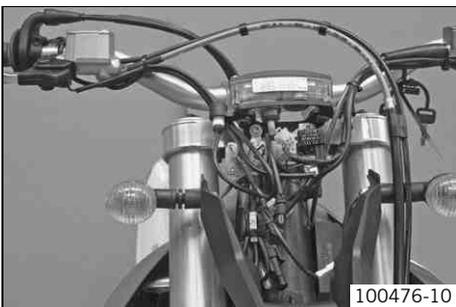
100469-10

- Mount the hand brake cylinder with the mirror clamp.
- Correctly route the throttle cables (see figure), attach the throttle grip to the handlebar and tighten the screws.



100484-10

- Remove the headlight mask with the headlight. (☛ p. 5)
- Connect all connectors to the connector board.
- Fix the cable with cable binders (for routing, see figure).
- Install the headlight mask with the headlight. (☛ p. 5)
- Install the front wheel. (☛ p. 5)

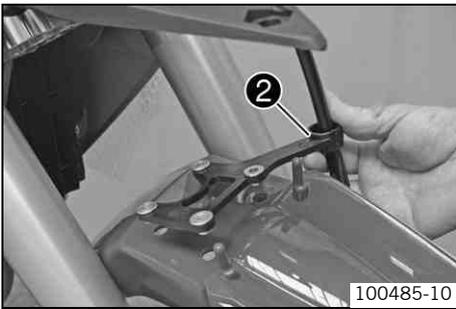


100476-10

- Position mirror clamp ❶.
- Position the clutch master cylinder and tighten the screw.
- Mount both rear mirrors.
- Tighten the screws of the mirror clamp.



100472-11

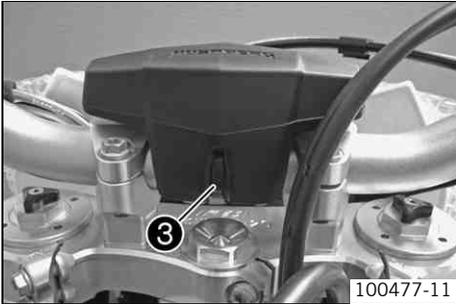


- Position the brake line and wiring harness in brake line guide ②.
- Insert the distance bushings in the brake line guide. Position the fender with the brake line guide.
- Mount and tighten the screws.

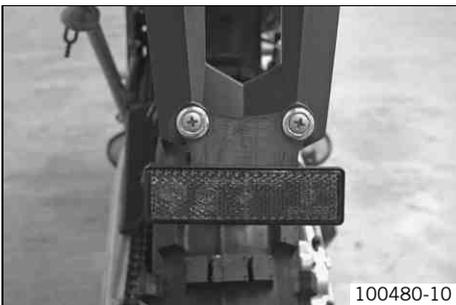
Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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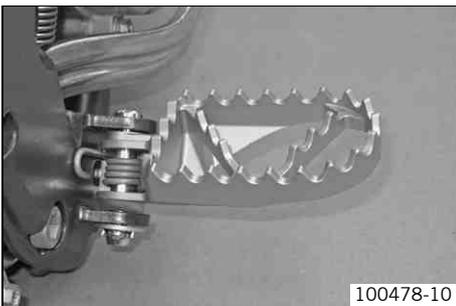
- Mount the screw on the fender brace at the front and tighten.



- Fix the handlebar cushion with cable binder ③.



- Mount the reflector.



- Mount the footrests with the springs and bolts. Secure the bolts using the washers and pins.

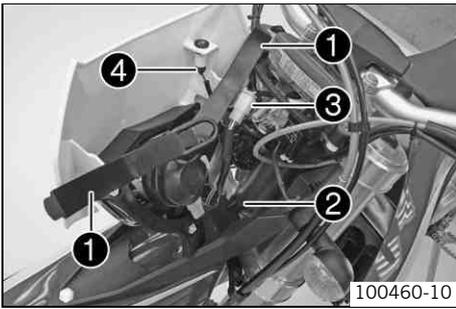
Plier for footrest spring (58429083000)
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- Install the engine guard. (☛ p. 6)
- Charge the battery. (☛ p. 6)



- Connect plug ④ to the starter relay.
- Mount the seat. (☛ p. 6)
- Set kilometers or miles. (☛ p. 7)
- Set the clock. (☛ p. 8)
- Remove the protective plastic.
- Refuel. (☛ p. 9)
- Print out the current **PDI** form found on **KTM DEALER.NET** and perform the delivery inspection.

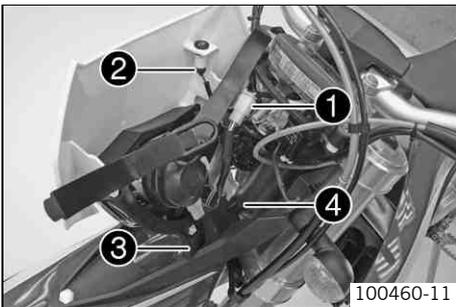
**Removing the headlight mask with the headlight**



100460-10

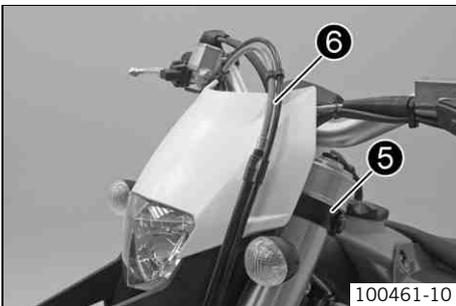
- Switch off all power consumers and the engine.
- Open rubber band ① on the fork legs.
- Tilt the headlight mask forward and detach it from nose ②.
- Disconnect connector ③.
- Pull bulb socket ④ out of the high beam indicator lamp and remove the headlight mask.

**Installing the headlight mask with the headlight**



100460-11

- Connect plug ①.
- Insert bulb socket ② into the high beam indicator lamp.
- Check that the lighting is working properly.
- Attach headlight holder ③ at the nose ④ and position the headlight mask.



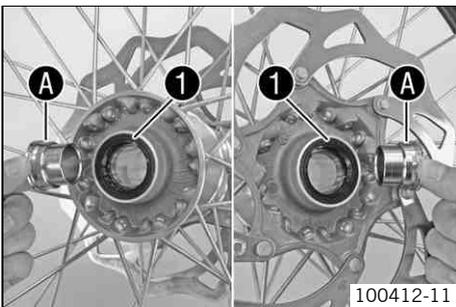
100461-10

- Wrap rubber band ⑤ around the fork legs and close it.
- ✓ The wiring harness and brake line ⑥ are routed in front of the headlight mask.
- Check the headlight adjustment.

**Installing the front wheel**

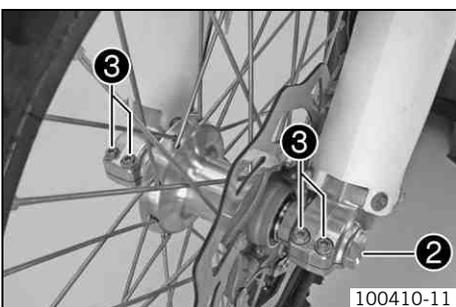
**Warning**  
**Danger of accidents** Reduced braking due to oil or grease on the brake discs.

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



100412-11

- Clean and grease shaft seal rings ① and bearing surface A of the spacing sleeves.
- Long-life grease (☛ p. 12)
- Insert the spacing sleeves.



100410-11

- Lift the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw ②.

Guideline

Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)
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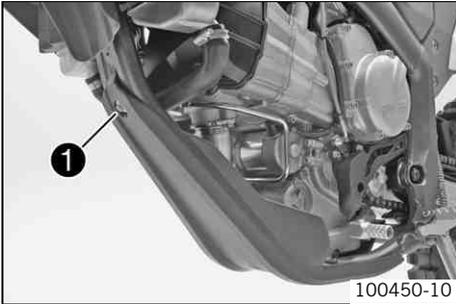
- Operate the hand brake lever several times until the brake pads are lying correctly on the brake disc.
- Remove the motorcycle from the work stand.
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.

- Fully tighten screw ③.

Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
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## Installing the engine guard



- Attach the engine guard on the frame at the rear and swing it up and forward. Mount and tighten screw ①.

Guideline

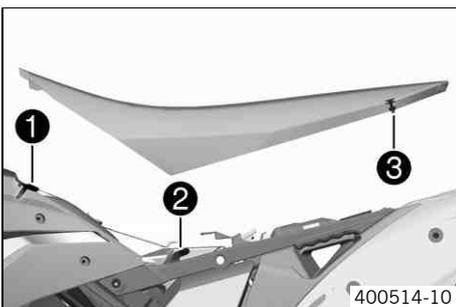
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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## Removing the seat



- Pull on the loop ① while raising the rear of the seat.
- Pull the seat back and lift it off.

## Mounting the seat



- Attach the seat to the hooks on fuel tank ① and on the top part of subframe ②, and lower it at the rear while pushing forward.
- Guide lock bolt ③ into the lock housing and push down the rear of the seat until the lock bolt engages audibly.
- Finally, check that the seat is correctly mounted.

## 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 the battery away from sparks or open fire. Charge only 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** Components and battery acid are a danger to the environment.
- Do not dispose of batteries in normal household waste. Take defective or used batteries to a battery recycling operator.

- Warning**  
**Environmental hazard** Problem materials cause environmental damage.
- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc., according to regulations.

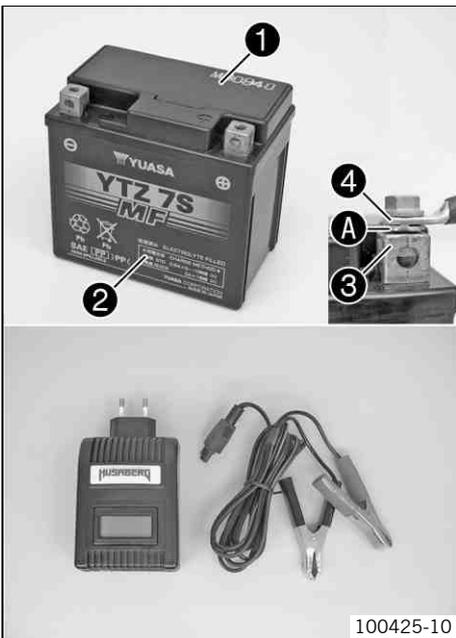
**i** Info

Even when there is no load on the battery, it is still depleted slightly every day. The charging level and type of charge are very important to the battery service life. Rapid charging with a high charging current has a negative impact on the service life. If the charging current, charging voltage and charging time are exceeded, electrolyte escapes via the safety valves. This reduces the battery capacity. If the vehicle is started repeatedly until the battery is depleted, the battery must be charged immediately. If the battery is left in a discharged state for an extended period, it will drain completely and sulfate, destroying the battery. The battery is maintenance-free, which means that the acid level does not need to be checked.

- Switch off all power consumers and the engine.
- Remove the seat. (🔧 p. 6)
- Disconnect the negative cable of the battery to avoid damage to the onboard electronics.
- Connect the battery charger to the battery. Switch on the battery charger.

Battery charger (81229074000)

You can also use the battery charger to check the off load voltage, the starting ability of the battery and the generator. The device also makes it impossible to overcharge the battery.



**i** Info

Never remove cover ①. Charge the battery with a maximum of 10% of the capacity specified on battery housing ②.

- Switch off the battery charger after charging.

Guideline

Charging current, charging voltage and charging time may not be exceeded.

Recharge the battery regularly if the motorcycle is not put into operation	3 months
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**i** Tip

If the vehicle is not ridden for more than two weeks, we recommend trickle charging the battery with the HUSABERG battery charger. The battery is first charged completely and then maintained at this level over the subsequent period. Thus, the battery is always fully charged when the vehicle is put into operation.

- Connect the negative cable.

**i** Info

Contact disk A must be mounted between battery terminal ③ and cable socket ④ with the claws facing up.

- Tighten the screw.

Guideline

Screw, battery terminal	M5	3 Nm (2.2 lbf ft)
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- Mount the seat. (🔧 p. 6)

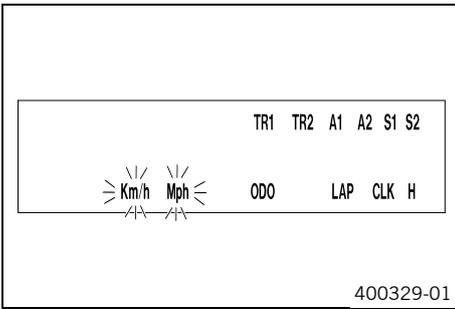
**Setting kilometers or miles**

**i** Info

If you change the unit, the value **ODO** is retained and converted accordingly. The values **TR1**, **TR2**, **A1**, **A2** and **S1** are cleared when the unit of measure is changed.

**Condition**

The motorcycle is standing.



- Press the button  briefly and repeatedly until **H** appears at the bottom right of the display.
- Press the button  for 3 - 5 seconds.
  - ✓ The Setup menu opens and the active functions are displayed.
- Press the button  repeatedly until the **Km/h/Mph** display flashes.

**Km/h adjusting**

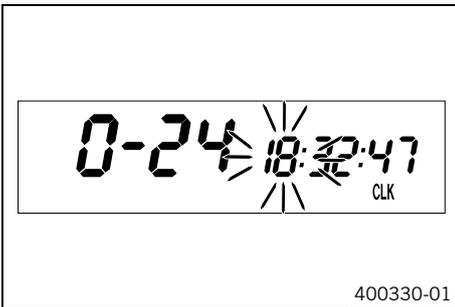
- Press the button .

**Mph adjusting**

- Press the button .
- Press the button  for 3 - 5 seconds.
  - ✓ The settings are saved and the Setup menu closed.

**i Info**  
 If no button is pressed for 20 seconds, or if no impulse comes from the wheel speed sensor, the settings are automatically saved and the Setup menu closed.

**Setting the clock**



**Condition**

The motorcycle is standing.

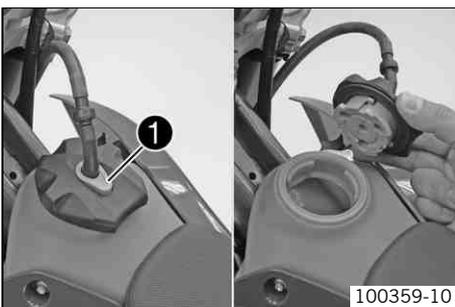
- Press the button  briefly and repeatedly until **CLK** appears at the bottom right of the display.
- Press the button  for 3 - 5 seconds.
  - ✓ The hour display flashes.
- Set the hour display with the button  and/or button .
- Press the button  briefly.
  - ✓ The next segment of the display flashes and can be set.
- You can set the following segments in the same way as the hours by pressing the button  and the button .

**i Info**  
 The seconds can only be set to zero.

- Press the button  for 3 - 5 seconds.
  - ✓ The settings are saved and the Setup menu closed.

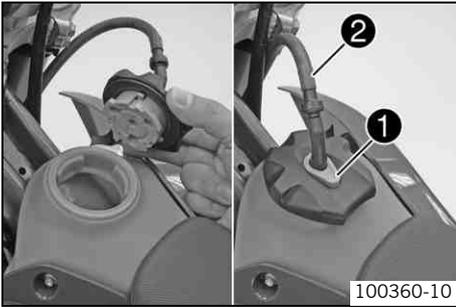
**i Info**  
 If no button is pressed for 20 seconds, or if no impulse comes from the wheel speed sensor, the settings are automatically saved and the Setup menu closed.

**Opening the filler cap**



- Press release button , turn filler cap counterclockwise and lift it free.

## Closing the filler cap



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



### Info

Run the fuel tank breather hose ❷ without kinks.

## Refueling



### Danger

**Fire hazard** Fuel can easily catch fire.

- Never fill up 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.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See specifications on filling up with fuel.



### Warning

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

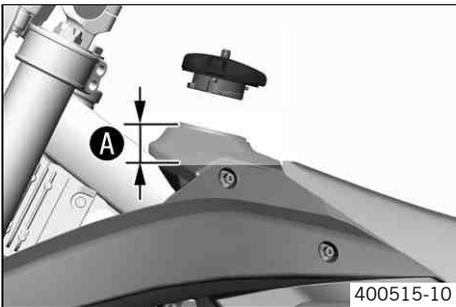
- Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact 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.



- Switch off the engine.
- Open the filler cap. (☛ p. 8)
- Fill the fuel tank with fuel up to measurement A.

### Guideline

Measurement of A	35 mm (1.38 in)	
Total fuel tank capacity, approx.	8.2 l (2.17 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (☛ p. 11)

- Close the filler cap. (☛ p. 9)

Spoke nipple, front wheel	M4.5	5 Nm (3.7 lbf ft)	–
Screw, battery terminal	M5	3 Nm (2.2 lbf ft)	–
Screw, intake air temperature sensor	M5	2 Nm (1.5 lbf ft)	–
Spoke nipple, rear wheel	M5	5 Nm (3.7 lbf ft)	–
Remaining nuts, chassis	M6	15 Nm (11.1 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)	–
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	–
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	–
Screw, shock absorber adjusting ring	M6	5 Nm (3.7 lbf ft)	–
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	<b>Loctite® 243™</b>
Nut, rim lock	M8	10 Nm (7.4 lbf ft)	–
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	–
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	–
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)	–
Screw, engine brace	M8	33 Nm (24.3 lbf ft)	–
Screw, exhaust clamp on manifold	M8	8 Nm (5.9 lbf ft)	–
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, side stand fixing	M8	40 Nm (29.5 lbf ft)	<b>Loctite® 243™</b>
Screw, subframe	M8	30 Nm (22.1 lbf ft)	–
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 carrying screw	M10	60 Nm (44.3 lbf ft)	–
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	<b>Loctite® 243™</b>
Screw, bottom shock absorber	M12	80 Nm (59 lbf ft)	<b>Loctite® 243™</b>
Screw, top shock absorber	M12	80 Nm (59 lbf ft)	<b>Loctite® 243™</b>
Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)	–
Nut, rear wheel spindle	M20x1.5	80 Nm (59 lbf ft)	–
Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)	–
Screw, front wheel spindle	M24x1.5	45 Nm (33.2 lbf ft)	–

## Super unleaded (ROZ 95 / RON 95 / PON 91)

### According to

- DIN EN 228 (ROZ 95 / RON 95 / PON 91)

## Long-life grease

### Specification

- HUSABERG recommends **Motorex®** products.

### Supplier

#### **Motorex®**

- **Fett 2000**

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