

**450 SX-F**  
**450 XC-F**  
**450 SX-F FACTORY EDITION**

ART. NO. 3214879EN





Perform the work described in these setup instructions before the vehicle is delivered to the customer.

Read the setup instructions in their entirety before beginning work.

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

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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ISO 9001(12 100 6061)

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Issued by: TÜV Management Service

REG.NO. 12 100 6061

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This document is valid for the following models:

450 SX-F EU (F8401X5)

450 SX-F US (F8475X5)

450 SX-F BR (F8440X5)

450 XC-F US (F8475X0)

450 SX-F FACTORY EDITION US (F8475X1)



# 1 MEANS OF REPRESENTATION

## 1.1 Symbols used

The meaning of specific symbols is described below.



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



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



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.



Indicates a voltage measurement.



Indicates a current measurement.



Indicates a resistance measurement.



Indicates the end of an activity including potential rework.

## 1.2 Formats used

The typographical formats used in this document are explained below.

**Proprietary name**

Indicates a proprietary name.

**Name®**

Indicates a protected name.

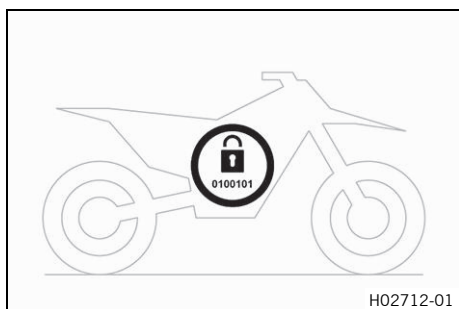
**Brand™**

Indicates a brand available on the open market.

**Underlined terms**

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

## 2.1 Transport mode



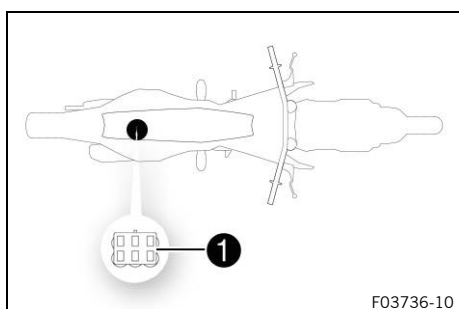
This vehicle was blocked for transport in the software. To operate the vehicle, the vehicle electronics must be enabled. This process is conducted during initial setup in KTM Dealer.net. Enabling ensures that the initial setup in KTM Dealer.net is documented.

Enabling can be performed either temporarily, e.g. for a test ride, or permanently for vehicle handover.

### **i** Info

Make sure that the vehicle is permanently enabled before handing it over to the customer.

## 2.2 Diagnostics connector

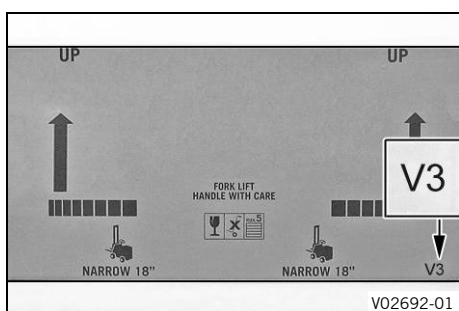


Diagnostics connector **1** is located under the seat.

### **i** Info

As soon as the diagnostics tool is connected, the service hour counter starts running. Before longer diagnostic sessions, unplug the service hour counter behind the start number plate.

## 2.3 Unpacking and setting up the vehicle



### Package 3

- 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.

- Remove the separate enclosure and unpack it. Check that the scope of supply is complete on the basis of the enclosed packing list.

### **i** Info

The procedure for missing components is described in the Customer Service Manual.

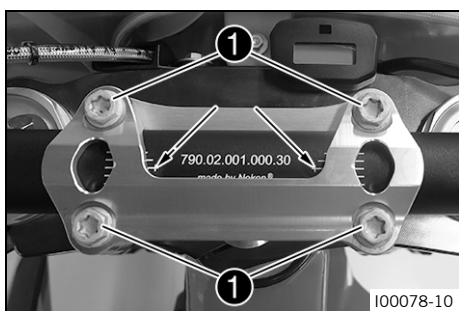
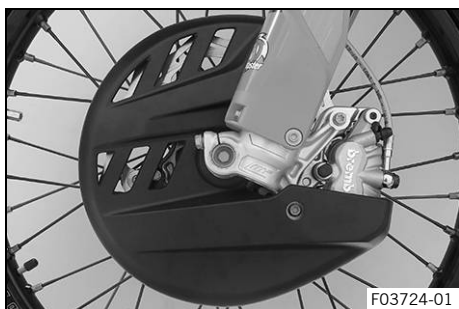
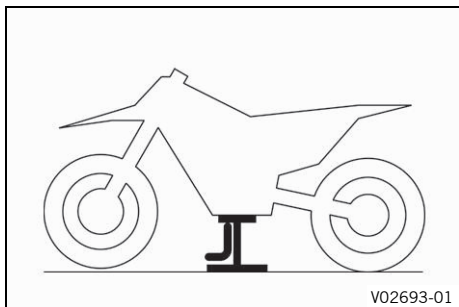
- Carefully loosen and remove the tension belts around the fork legs.
- Remove the attachment on the rear wheel.

### **i** Info

An assistant prevents the motorcycle from falling over.

- Have a lift stand available.

Lift stand (78129955100)
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- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.

**i Info**  
The procedure in the event of transport damage is described in the Customer Service Manual.

**(FACTORY EDITION)**

- Remove the front wheel. (📖 p. 11)
- Mount the brake disc guard.

**i Info**  
Read the accompanying **KTM PowerParts** instructions.  
Align the brake disc guard so that the distances are the same size.

- Install the front wheel. (📖 p. 13)

- Remove cable ties on the side cover and remove film from the handlebar.

**⚠ Warning**  
**Danger of accidents** A repaired handlebar poses a safety risk.  
If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.

- Position the handlebar.

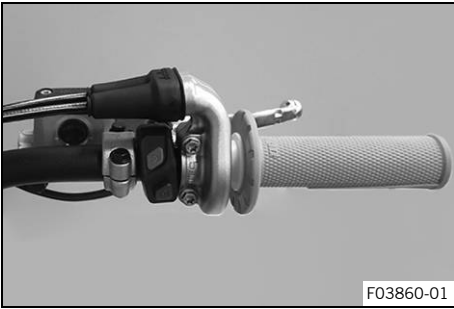
**i Info**  
Make sure the cables and wiring are positioned correctly.  
Do not kink the cables or lines.

- Position the handlebar clamp.
- Mount screws ①, but do not tighten yet.
- First bolt the handlebar clamp with screws ① onto the longer, higher side of the handlebar supports so that both parts touch.
- Tighten screws ① evenly.

**Guideline**

Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
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**i Info**  
The markings on the handlebar should be at the center of the handlebar clamps.

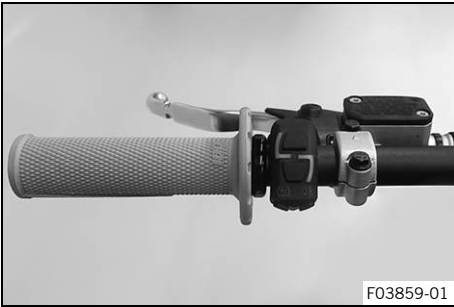


F03860-01

- Position the controls on the right half of the handlebar.

Guideline

Screw, throttle grip	M6	5 Nm (3.7 lbf ft)
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F03859-01

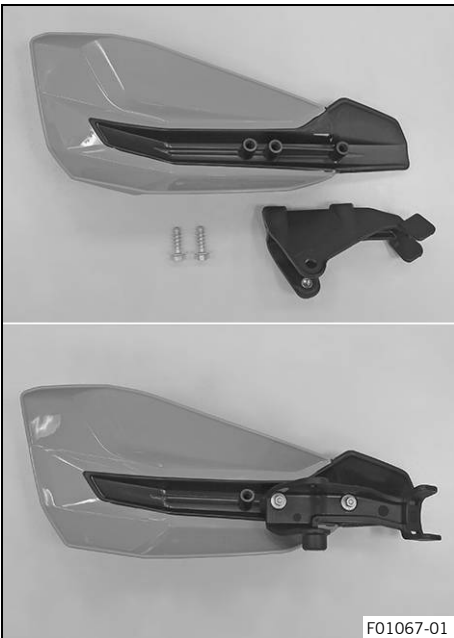
- Position the controls on the left handlebar half.

Guideline

Screw, fixed grip	M4	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
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**(XC-F US)**

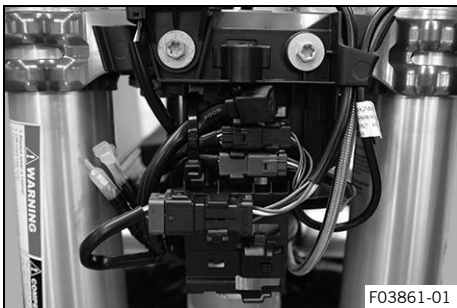
- Preassemble the hand guards on the left and right.



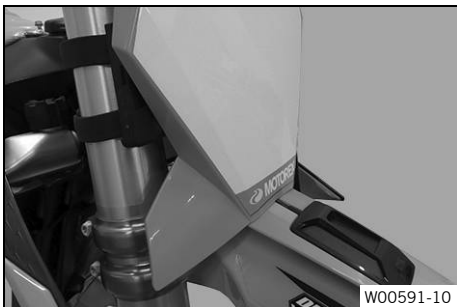
F01067-01



- Mount the left hand guard.
- Mount the right hand guard.



- Remove the start number plate. (📖 p. 15)
- Join all plug-in connectors.
- Route the cables without tension and secure with the cable ties.
- Install the start number plate. (📖 p. 15)



### (FACTORY EDITION)

- Mount the Connectivity Unit.



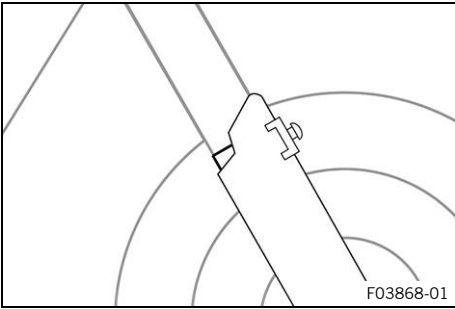
#### Info

Read the accompanying **KTM PowerParts** instructions.



- Mount the handlebar cushion.





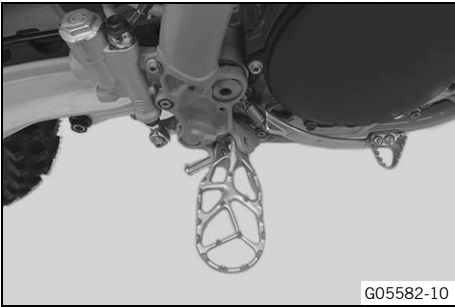
**(FACTORY EDITION)**

- Mount the Factory-Start.



**Info**

Read the accompanying **KTM PowerParts** instructions.

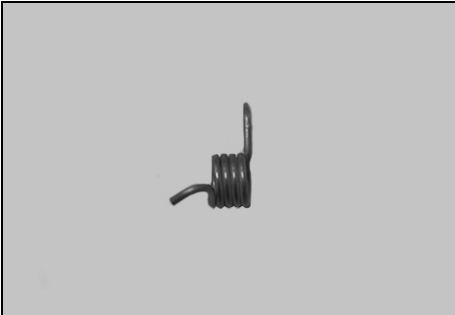


- Position the new footrest and pin.



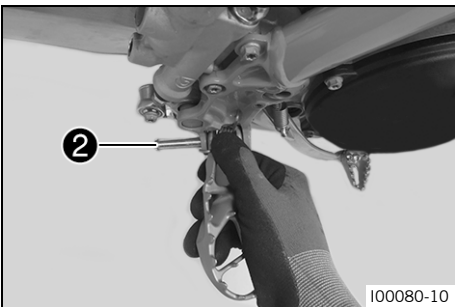
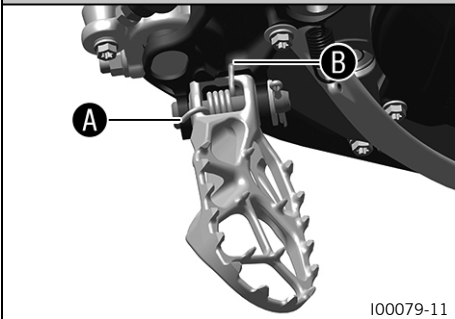
**Info**

Only insert the pin to the extent that the spring can still be mounted.



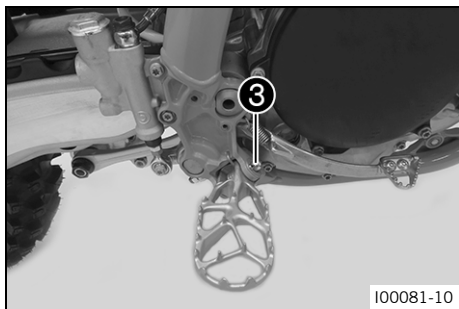
- Position spring as shown.

✓ Spring engages in area **A** and **B**.



- Apply pressure to the spring with your thumb.

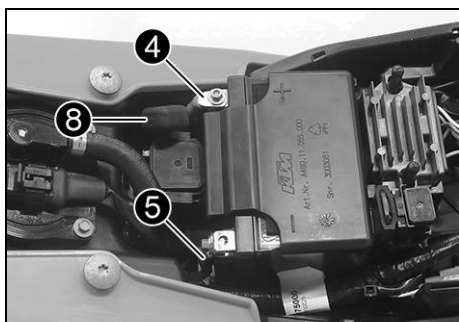
- Mount pin ②.



- Mount the washer and splint **3**.
- Repeat these steps on the opposite side.
- Install the frame protector. (📖 p. 17)

**(XC-F US, FACTORY EDITION)**

- Install the engine guard. (📖 p. 17)



- Remove the seat. (📖 p. 15)
- Connect positive cable **4** to the 12-V battery.

Guideline

Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
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- Connect negative cable **5** to the 12 V battery.

Guideline

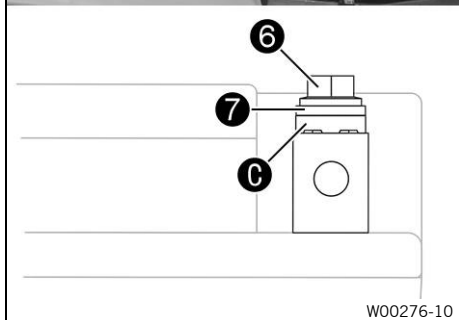
Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
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Contact disks **6** must be mounted under screws **6** and cable sockets **7** with the claws toward the battery terminal.

- Slide positive terminal cover **8** over the positive terminal.
- Charge the 12-V battery. (📖 p. 17)

Guideline

The 12-V battery must be fully charged before it is handed over to the customer.



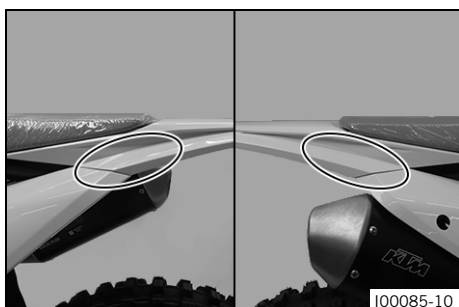
**i Info**

The first charging process may take longer with a new 12-V battery.

- Unpack and mount the **KTM PowerParts** included in the delivery (optional).

**i Info**

Read the accompanying **KTM PowerParts** fitting instructions.



- Stick displacement sticker on the left and right of the side cover.
- Attach the stickers included in the scope of supply (optional).
- Refuel. (📖 p. 21)
- Position all controls in their exact positions on the handlebar. Tighten all screws.
- Remove the remaining film, padding, the corrugated cardboard, and the other packaging material.
- Prepare the vehicle according to the specifications in **KTM Dealer.net** for handover to the customer.

**Info**

Transport mode must be deactivated to be able to start the motorcycle.

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## 3.1 Removing the motorcycle from the lift stand

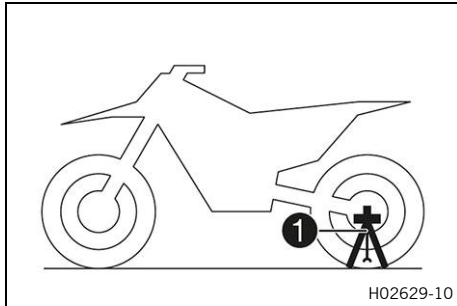
### Note

**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.



### (All SX-F models)

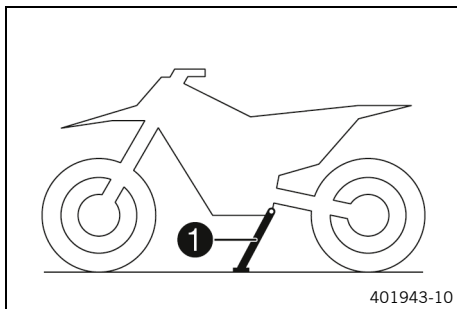
- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand ① into the left side of the wheel spindle.

Plug-in stand (A46029094000)



### Info

The plug-in stand is included.  
Remove the plug-in stand before riding.



### (XC-F US)

- 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.



### Info

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

## 3.2 Raising the motorcycle with a lift stand

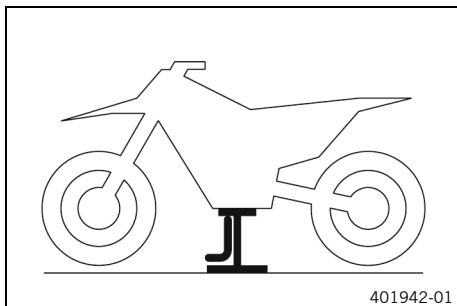
### Note

**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.



### (SX-F EU/US, SX-F EU/BR)

- Remove the plug-in stand and lift up the motorcycle by the frame underneath the engine.

Lift stand (78129955100)

- ✓ Neither wheel is in contact with the ground.

### (FACTORY EDITION)

- Remove the plug-in stand and lift up the motorcycle by the motor guard underneath the engine.

Lift stand (78129955100)

- ✓ Neither wheel is in contact with the ground.

**(XC-F US)**

- Fold in the side stand and raise the motorcycle at the frame underneath the engine.

Lift stand (78129955100)

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

**3.3 Removing the front wheel**

**Preparatory work**

- Raise the motorcycle with a lift stand. (📖 p. 10)

**Main work**

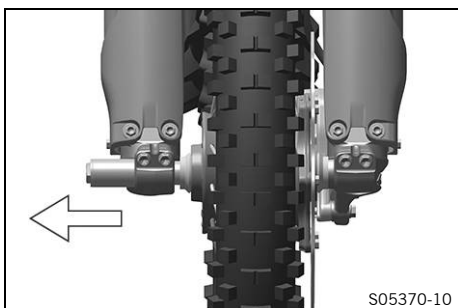
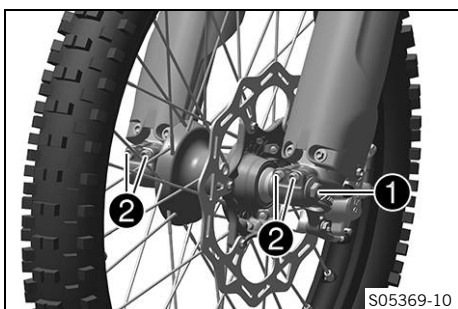
**(All standard models)**

- Manually press the brake caliper toward the brake disc to push back the brake pistons.



**Info**

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



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



**Warning**

**Danger of accidents** Damaged brake discs reduce the braking effect.

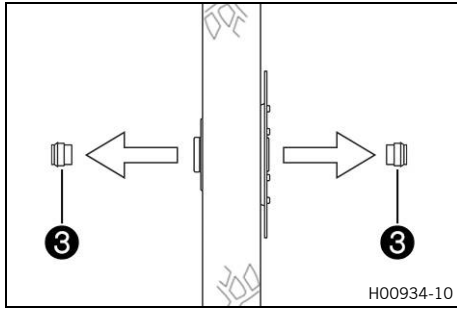
- Always lay the wheel down in such a way that the brake disc is not damaged.

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

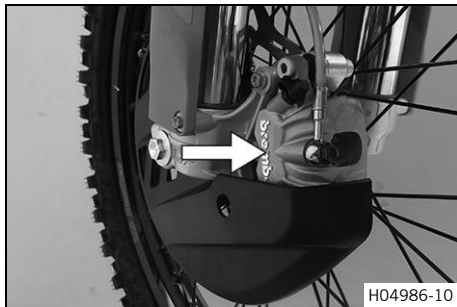


**Info**

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



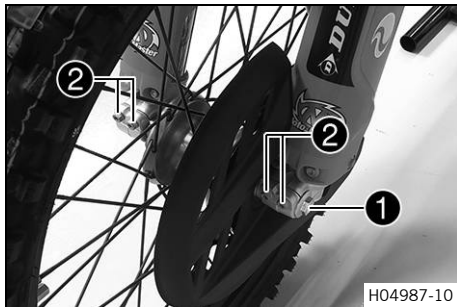
- Remove spacers **3**.



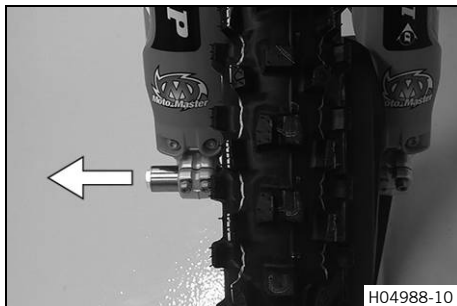
**(FACTORY EDITION)**

- Manually press the brake caliper toward the brake disc to push back the brake pistons.

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



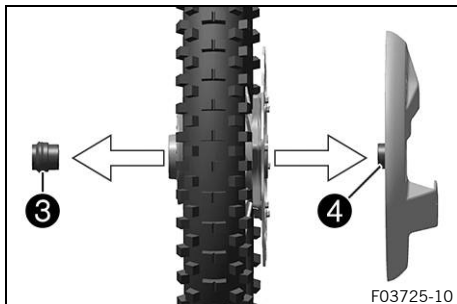
- Loosen screw **1** by several rotations.
- Loosen screws **2**.
- Press on screw **1** to push the wheel spindle out of the axle clamp.
- Remove screw **1**.



**! Warning**  
**Danger of accidents** Damaged brake discs reduce the braking effect.  
- Always lay the wheel down in such a way that the brake disc is not damaged.

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

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



- Remove spacers **3** and brake disc guard **4**.

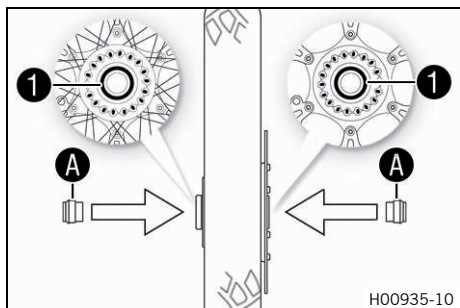
3.4 Installing the front wheel



**Warning**

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

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



**(All standard models)**

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

Long-life grease (📖 p. 26)

- Insert the spacers.
- Clean and lightly grease the wheel spindle.

Long-life grease (📖 p. 26)

- Position the front wheel and insert the wheel spindle.
  - ✓ The brake linings are correctly positioned.

- Mount and tighten screw **2**.

Guideline

Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)
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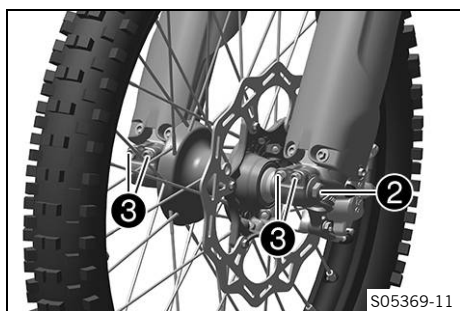
- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (📖 p. 10)
- Operate the front brake and compress the fork a few times firmly.

✓ The fork legs straighten.

- Tighten screws **3**.

Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
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**(FACTORY EDITION)**

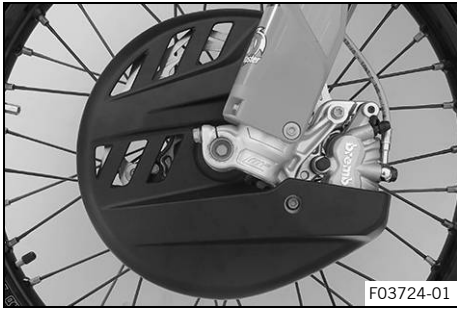
- Check the wheel bearing for damage and wear.
  - » If the wheel bearing is damaged or worn:
    - Change front wheel bearing.
- Clean and grease shaft seal rings **1** and contact surfaces **A** of the spacers.

Long-life grease (📖 p. 26)

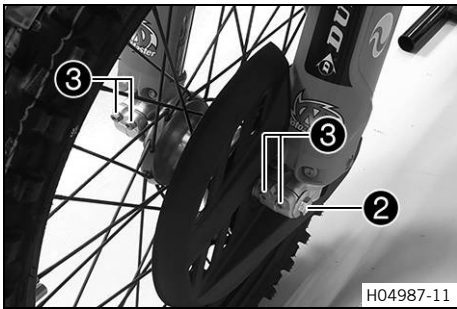
- Insert the spacers.
- Clean and lightly grease the wheel spindle.

Long-life grease (📖 p. 26)

- Position the front wheel and insert the wheel spindle.
  - ✓ The brake linings are correctly positioned.



- Position the brake disc guard.



- Mount and tighten screw 2.

Guideline

Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)
----------------------------	---------	------------------------

- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (p. 10)
- Operate the front brake and compress the fork a few times firmly.

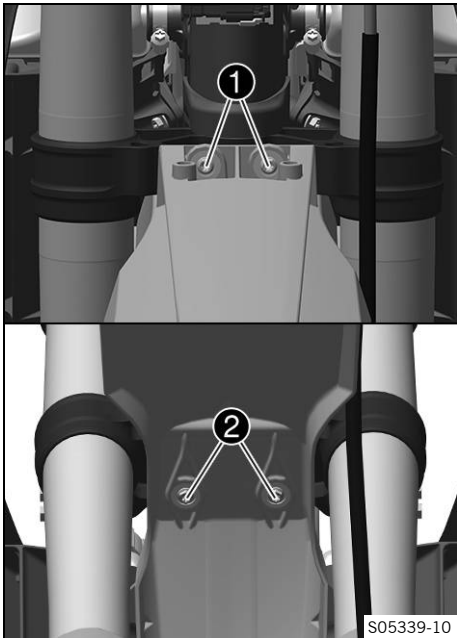
✓ The fork legs straighten.

- Tighten screws 3.

Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
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## 3.5 Installing the front fender



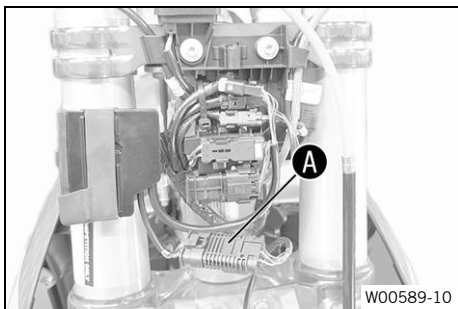
### Main work

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

Guideline

Screw, fender	M6	12 Nm (8.9 lbf ft)
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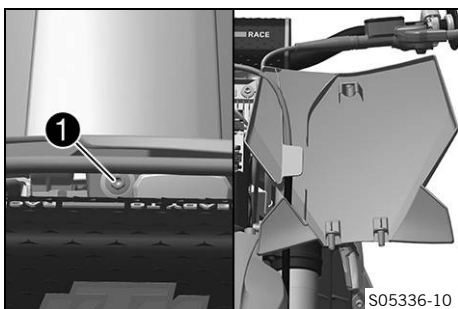
**(FACTORY EDITION)**

- Join plug-in connector **A** (antenna of the Connectivity Unit).

**Finishing work**

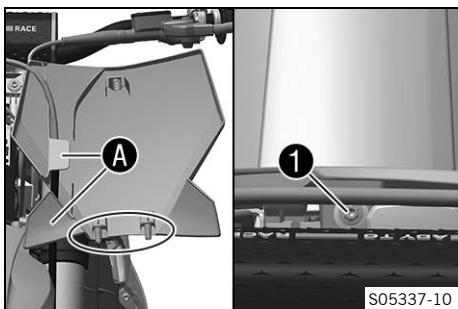
- Install the start number plate. (📖 p. 15)

**3.6 Removing the start number plate**



- Remove screw **1**.
- Unhook the start number plate from the brake line and remove it.

**3.7 Installing the start number plate**



- Position the brake line in holders **A** on the start number plate.
- Position the start number plate. Mount and tighten screw **1**.  
 ✓ The holding lugs engage in the fender.

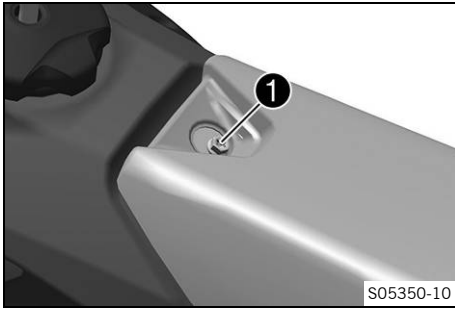
**3.8 Removing the seat**



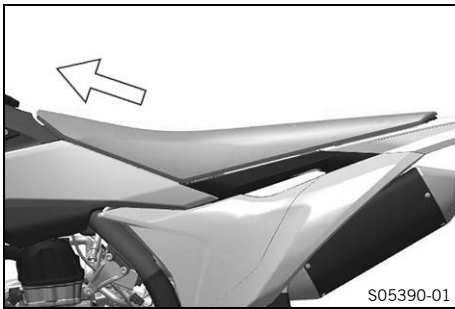
**Caution**

**Danger of burns** The voltage regulator gets very hot when the vehicle is operated.

- Allow the voltage regulator to cool down before performing any work.

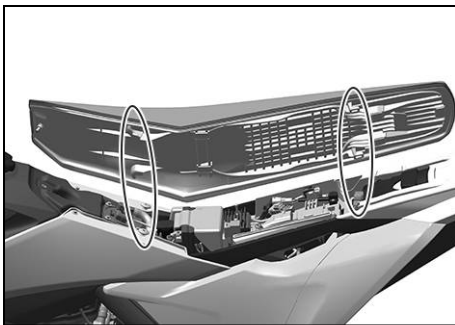


- Remove screw ❶.

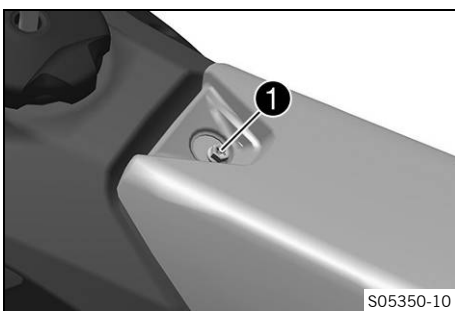
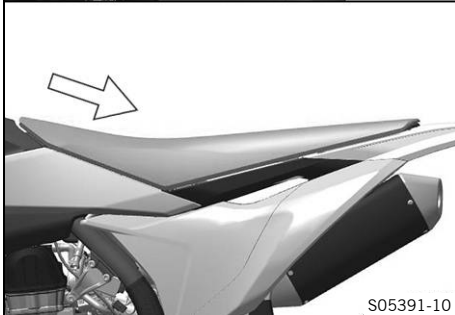


- Raise seat, pull it toward the fuel tank and lift it off.

### 3.9 Mounting the seat



- Attach the seat to the collar bushings at the front and simultaneously push it back.
- ✓ The holding lugs engage in the recesses at the back.
- Make sure the seat is latched in place correctly.

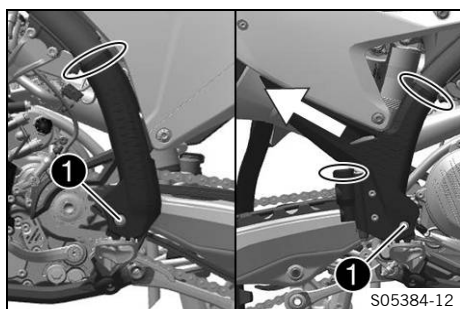


- Mount and tighten screw ❶.

Guideline

Screw, seat fixing	M6	8 Nm (5.9 lbf ft)
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### 3.10 Installing the frame protector



- Position the left frame protector.
- Insert the right frame protector from below and push it to the rear.
- Mount screws ① with the bushings and tighten.

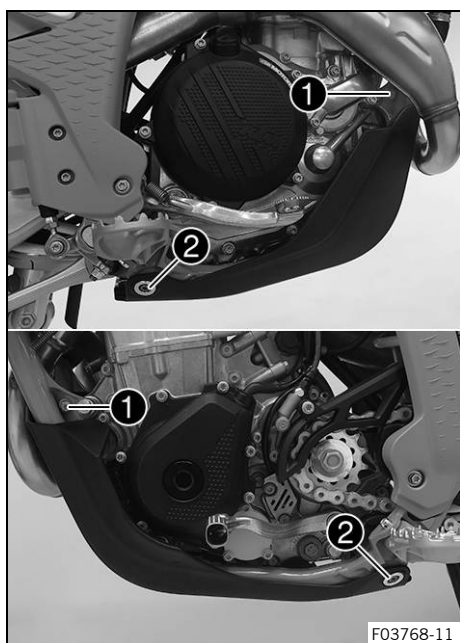
Guideline

Screw, frame protector	M5	3 Nm (2.2 lbf ft)
------------------------	----	-------------------

- Secure the frame protector with cable ties.



### 3.11 Installing the engine guard (XC-F US, FACTORY EDITION)



- Position the engine guard on the frame.
- Mount screws ①, but do not tighten yet.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Mount screws ② with bushings, but do not tighten yet.

Guideline

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

✓ The engine guard is directed evenly toward the front.

- Tighten all the screws of the engine guard.

Guideline

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



### 3.12 Charging the 12-V battery



#### Warning

**Risk of injury** 12 V batteries contain harmful substances.

- Keep 12 V batteries out of the reach of children.
- Keep sparks and open flames away from 12 V batteries.
- Only charge 12 V batteries in well-ventilated rooms.
- Maintain a minimum clearance from inflammable materials when charging 12 V batteries.  
Minimum clearance 1 m (3 ft)
- Do not charge deeply discharged 12 V batteries if the charge is already below the minimum voltage.  
Minimum voltage before the start of the charge 9 V
- Dispose of 12 V batteries correctly if they have less than the minimum voltage.

#### Note

**Danger of damage** An incorrectly selected charging mode will damage the 12-V battery.

- Always select a charging mode that is compatible with the type of battery.



**Note**

**Environmental hazard** 12 V batteries contain environmentally hazardous materials.

- Do not dispose of 12 V batteries as household waste.
- Dispose of 12 V batteries at a collection point for used batteries.



**Note**

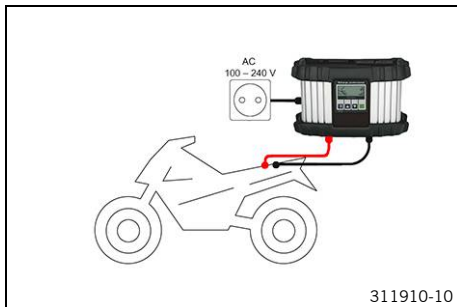
**Environmental hazard** Hazardous substances cause environmental damage.

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



**Info**

Even when there is no load on the 12-V battery, it discharges steadily each day. The charging level and the method of charging are very important for the service life of the 12-V battery. Rapid recharging with a high charging current shortens the service life of the battery. If the charging current, charging voltage, or charging time is exceeded, the 12-V battery will be destroyed. Wenn die 12-V-Batterie leergestartet wurde, die 12-V-Batterie unverzüglich laden. If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and suffer a loss of capacity, destroying the battery. The 12-V battery is maintenance-free.



**Preparatory work**

- Remove the seat. (📖 p. 15)
- Disconnect the negative cable of the 12-V battery. (📖 p. 19)

**Main work**

- Connect a battery charger to the 12-V battery. Adjust the battery charger.

EU battery charger **XCharge-professional** (00029095050)

**Alternative 1**

US battery charger **XCharge-professional** (00029095051)

**Alternative 2**

UK battery charger **XCharge-professional** (00029095052)



**Info**

Follow the instructions of the charger and the manual.

- Disconnect the battery charger after charging the 12-V battery.
- Guideline

The charging current, charging voltage, and charging time must not be exceeded.	
Recharge the 12-V battery regularly when the motorcycle is not being used	3 months

**Finishing work**

- Connect the negative cable of the 12 V battery. (📖 p. 19)
- Mount the seat. (📖 p. 16)

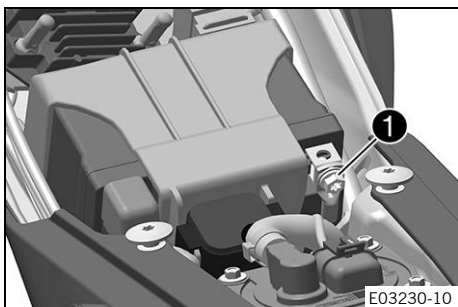
### 3.13 Disconnecting the negative cable of the 12-V battery

**Preparatory work**

- Remove the seat. (🛠 p. 15)

**Main work**

- Disconnect negative cable ❶ of the 12-V battery.



### 3.14 Connecting the negative cable of the 12 V battery

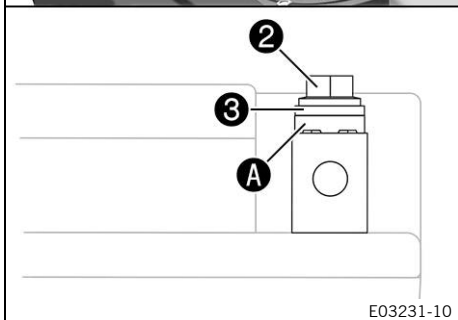
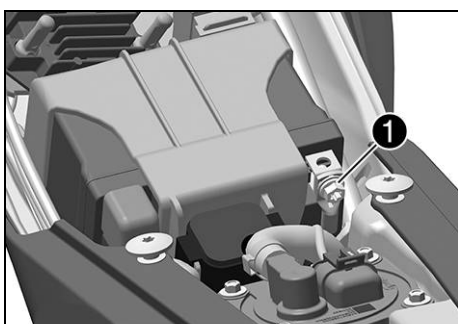
**Main work**

- Connect negative cable ❶ of the 12 V battery.

**Guideline**

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

Contact disks **A** must be mounted under the screw **❷** and the cable lug **❸** with the claws toward the battery terminal.



**Finishing work**

- Mount the seat. (🛠 p. 16)

### 3.15 Opening the fuel tank filler cap



**Danger**

**Fire hazard** Fuel is highly flammable.

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

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



## Warning

**Danger of poisoning** Fuel is harmful to health.

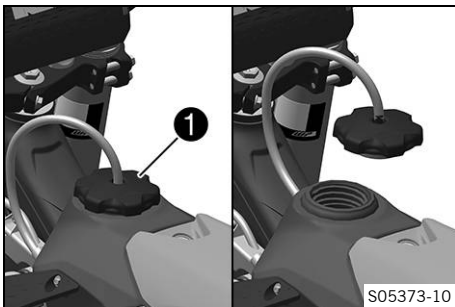
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse the eyes thoroughly with water, and consult a doctor in case of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



## Note

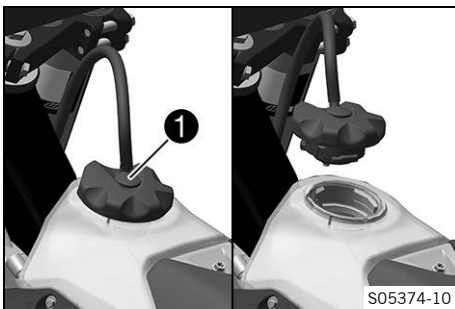
**Environmental hazard** Improper handling of fuel is a danger to the environment.

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



### (All SX-F models)

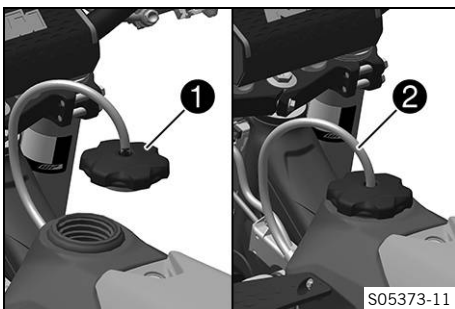
- Turn fuel tank filler cap ① counterclockwise and lift it off.



### (XC-F US)

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

## 3.16 Closing the fuel tank filler cap



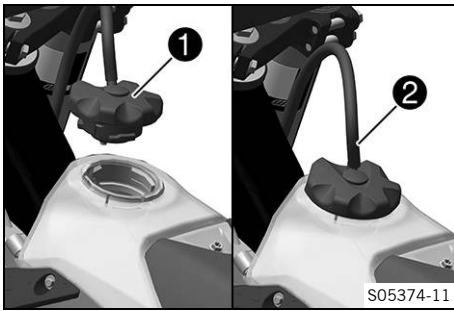
### (All SX-F models)

- Mount fuel tank filler cap ① and turn it clockwise until the fuel tank is tightly closed.



### Info

Route fuel tank breather hose ② without kinks.



(XC-F US)

- Mount filler cap ① and turn it clockwise until the release button engages.



**Info**

Route fuel tank breather hose ② without kinks.



**3.17 Refueling**



**Danger**

**Fire hazard** Fuel is highly flammable.

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

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



**Warning**

**Danger of poisoning** Fuel is harmful to health.

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

**Note**

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

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

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

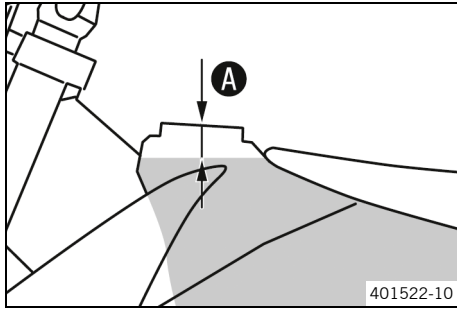


**Note**

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

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

- Switch off the engine.
- Open the fuel tank filler cap. (📖 p. 19)



- Fill the fuel tank with fuel up to a maximum of level **A**.

Guideline

Dimension <b>A</b>	35 mm (1.38 in)
--------------------	-----------------

Total fuel tank capacity, approx. (All SX-F models)		
Total fuel tank capacity, approx.	7.2 l (1.9 US gal)	Super unleaded (ROZ 95) (📖 p. 25) (SX-F EU/US)
Total fuel tank capacity, approx.		Super unleaded (RON 95/97) (📖 p. 25) (SX-F BR)
Total fuel tank capacity, approx. (XC-F US)		
Total fuel tank capacity, approx.	8.5 l (2.25 US gal)	Super unleaded (ROZ 95) (📖 p. 25) (XC-F US)

- Close the fuel tank filler cap. (📖 p. 20)





## 4.1 chassis tightening torques

Screw, air filter box cover	<b>EJOT PT®</b> K60x20-Z	3 Nm (2.2 lbf ft)
Screw, air filter box, on subframe	<b>EJOT PT®</b> K60x20AL	5 Nm (3.7 lbf ft)
Screw, combination switch	<b>EJOT PT®</b> K50x18 T20	2 Nm (1.5 lbf ft)
Screw, fuel pump on fuel tank	<b>EJOT PT®</b> K60x30-Z	2.5 Nm (1.84 lbf ft)
Screw, intake air temperature sensor	<b>EJOT PT®</b> K50x18 T20	0.7 Nm (0.52 lbf ft)
Screw, radiator hoses clip		2.4 Nm (1.77 lbf ft)
Screw, seat fixing	<b>EJOT EJOFORM PT®</b> K60x23/18	2.5 Nm (1.84 lbf ft)
Screw, start/stop button	<b>EJOT PT®</b> K50x18 T20	2 Nm (1.5 lbf ft)
Screw, fixed grip	M4	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Screw, throttle valve body hose clamp	M4	5 Nm (3.7 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)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
Screw, frame protector	M5	3 Nm (2.2 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screw, throttle valve body cover	M5	2.6 Nm (1.92 lbf ft)
Screws on main silencer	M5	7 Nm (5.2 lbf ft)
Nut, starter cable on starter motor	M6	4 Nm (3 lbf ft)
Nut, throttle cable on throttle valve body	M6	3 Nm (2.2 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Screw, battery holding bracket	M6	6 Nm (4.4 lbf ft)
Screw, brake line guide on link fork	M6	4.5 Nm (3.32 lbf ft)
Screw, chain guide on link fork at the front	M6x45	10 Nm (7.4 lbf ft)
Screw, chain guide on link fork at the rear	M6x16	10 Nm (7.4 lbf ft)
Screw, chain sliding guard on link fork	M6	6 Nm (4.4 lbf ft)
Screw, connector board with combination instrument	M6	5 Nm (3.7 lbf ft)
Screw, fender	M6	12 Nm (8.9 lbf ft)
Screw, front brake disc	M6	14 Nm (10.3 lbf ft) <b>Loctite®243™</b>
Screw, fuel tank spoiler on radiator	M6	6 Nm (4.4 lbf ft)
Screw, ground wire on frame	M6	10 Nm (7.4 lbf ft)
Screw, hand lever	M6	5 Nm (3.7 lbf ft)
Screw, push rod ball joint on the rear brake cylinder	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>

## 4 TECHNICAL SPECIFICATIONS

Screw, rear brake disc	M6	14 Nm (10.3 lbf ft) <b>Loctite®243™</b>
Screw, seat fixing	M6	8 Nm (5.9 lbf ft)
Screw, starter cable to starter relay	M6	6 Nm (4.4 lbf ft)
Screw, throttle grip	M6	5 Nm (3.7 lbf ft)
Brake lever stop nut	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	12 Nm (8.9 lbf ft)
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
Screw, engine sprocket cover	M8	15 Nm (11.1 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, manifold on cylinder head brace	M8	15 Nm (11.1 lbf ft)
Screw, side stand attachment (XC-F US)	M8	33 Nm (24.3 lbf ft) <b>Loctite®2701™</b>
Screw, subframe bottom	M8	30 Nm (22.1 lbf ft) <b>Loctite®2701™</b>
Screw, subframe top	M8	35 Nm (25.8 lbf ft) <b>Loctite®2701™</b>
Screw, top steering stem	M8	20 Nm (14.8 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	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 support	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, angle lever to link fork	M16x1.5	60 Nm (44.3 lbf ft)
Nut, fork pivot	M16x1.5	100 Nm (73.8 lbf ft)
Nut, frame on linkage lever	M16x1.5	60 Nm (44.3 lbf ft)
Nut, linkage lever on angle lever	M16x1.5	60 Nm (44.3 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)
Nut, rear wheel spindle	M22x1.5	80 Nm (59 lbf ft)
Screw-in fitting, cooling system	M24x1.5	7.5 Nm (5.53 lbf ft)

### Super unleaded (ROZ 95)

**Standard/classification**

- DIN EN 228 (ROZ 95)

**Guideline**

- Only use super unleaded fuel that matches or is equivalent to the specified standard.
- 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).

### Super unleaded (RON 95/97)

**Standard/classification**

- DIN EN 228 (RON 95/97)

**Guideline**

- Only use super unleaded fuel that matches or is equivalent to the specified standard.
- Fuel with an ethanol content of up to 10 % (E10 fuel) is safe to use.
- For fuel with more than 10 % ethanol, at least RON 97 must be used.

**Info**

Do **not** use fuel containing methanol (e.g., M15, M85, M100) or with more than 25 % ethanol (e.g., E85, E100).

### Long-life grease

Recommended supplier

**MOTOREX®**

– Bike Grease 2000



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