

250 EXC TPI
250 EXC Six Days TPI
250 XC-W TPI
300 EXC TPI
300 EXC Six Days TPI

Art. no. 3213730en



KTM

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 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.

All specifications are non-binding. KTM Sportmotorcycle GmbH specifically reserves the right to modify or delete technical specifications, prices, colors, forms, materials, services, designs, equipment, etc., without prior notice and without specifying reasons, to adapt these to local conditions, as well as to stop production of a particular model without prior notice. KTM accepts no liability for delivery options, deviations from figures and descriptions, misprints, and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of supply.

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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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Stallhofnerstraße 3
5230 Mattighofen, Austria

This document is valid for the following models:

250 EXC TPI EU (F7303R7)

250 EXC Six Days TPI EU (F7303R2)

250 XC-W TPI US (F7375R4)

300 EXC TPI EU (F7403R7)

300 EXC Six Days TPI EU (F7403R2)



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.

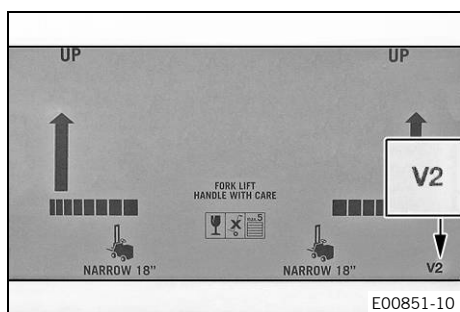
Brand™

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 Unpacking and setting up the vehicle



Condition

Packaging V2

- Remove the box and the plastic packaging.



Info

An assistant prevents the motorcycle from falling over. 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 using the enclosed packing list.
- Have a lift stand available.

Lift stand (78129955100)

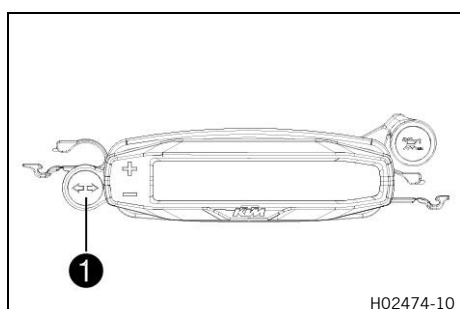
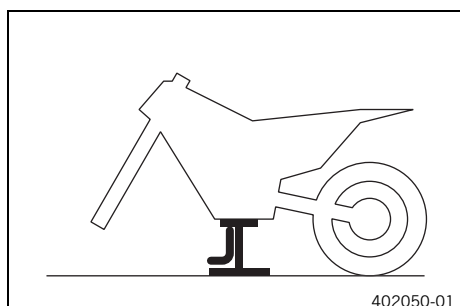
- Carefully loosen and remove the tension belt of the footrest mount.



Info

An assistant prevents the motorcycle from falling over.

- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.
- Remove the headlight mask with the headlight. (📖 p. 30)



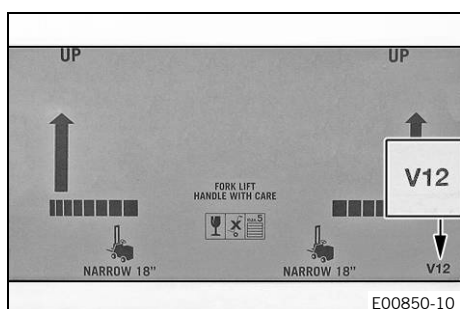
(All EXC models)

- Position the turn signal indicator lamp ❶ in the combination instrument bracket.

Condition

Packaging V12

- Remove the box and the plastic packaging.



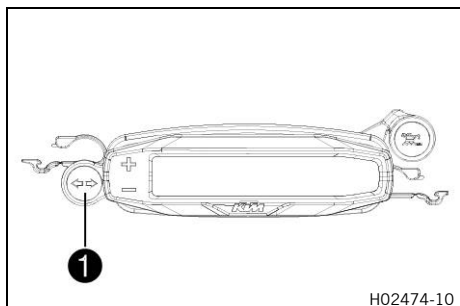
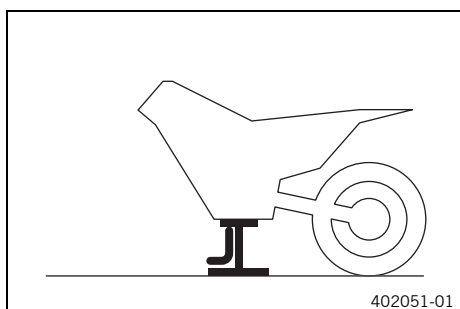
i Info

An assistant prevents the motorcycle from falling over.
To avoid damaging the motorcycle during the setup, leave the protective film on the vehicle until you have finished.

- Remove and unpack the separate enclosure and attachments. Check that the scope of supply is complete using the enclosed packing list.
- Have a lift stand available.

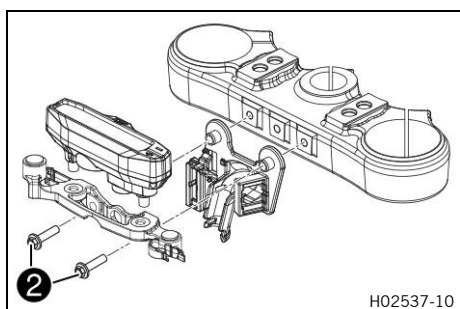
Lift stand (78129955100)

- Remove the two cable ties on the triple clamp.
- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle and attachments for transport damage.
- Install the shock absorber. (🗨️ p. 24)



(All EXC models)

- Position the turn signal indicator lamp **1** in the combination instrument bracket.

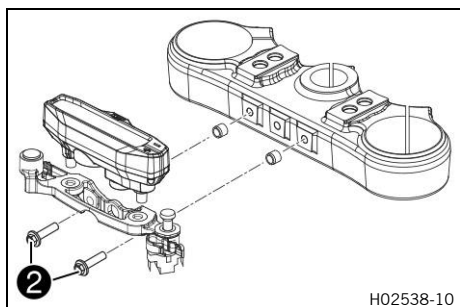


(All EXC models)

- Position the connector retainer and combination instrument on the upper triple clamp.
- Mount and tighten screws **2**.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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(250 XC-W TPI US)

- Position the combination instrument on the upper triple clamp.
- Mount and tighten screws **2** with the collar bushings.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Route the clutch line with the clutch master cylinder toward the front between the upper and lower triple clamps.
- Install the fork legs. (📖 p. 25)

(All standard EXC/XC-W models)

- Remove screws ③ and take off handlebar supports.
- Move the handlebar supports to the desired position and mount and tighten screws ③.

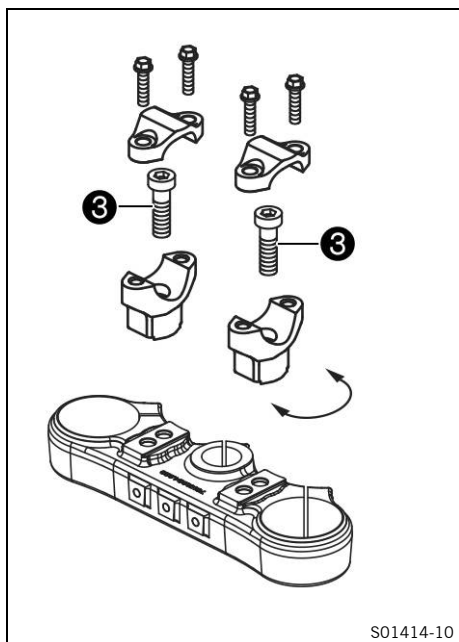
Guideline

Screw, handlebar support	M10	40 Nm (29.5 lbf ft) Loctite®243™
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Info

Position the left and right handlebar supports evenly.



S01414-10



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.



Info

Make sure the cables and wiring are positioned correctly.

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

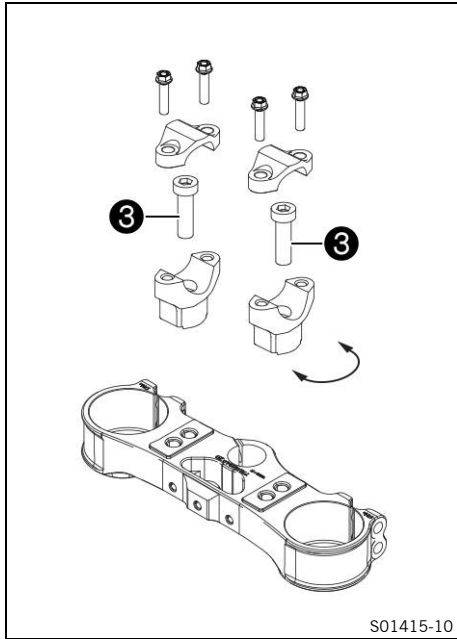
Guideline

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

The markings on the handlebar should be at the center of the handlebar clamps. Keep the gap widths equal when tightening.



(All Six Days models)

- Remove screws ③ and take off handlebar supports.
- Move the handlebar supports to the desired position and mount and tighten screws ③.

Guideline

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

i Info
Position the left and right handlebar supports evenly.

! 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.

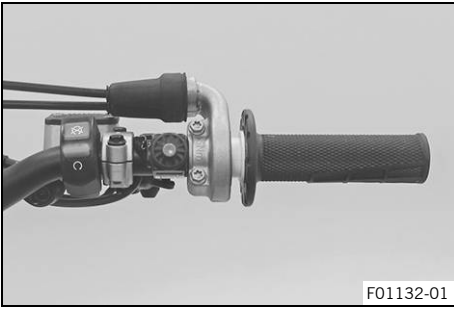
i Info
Make sure the cables and wiring are positioned correctly.

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

Guideline

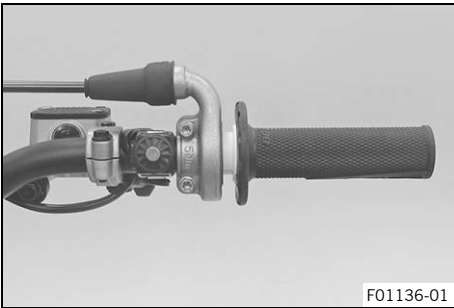
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
------------------------	----	------------------------

i Info
The markings on the handlebar should be at the center of the handlebar clamps.
Keep the gap widths equal when tightening.



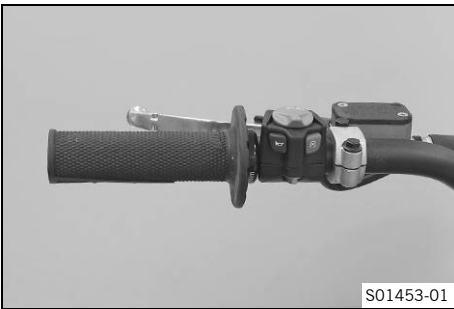
(All EXC models)

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



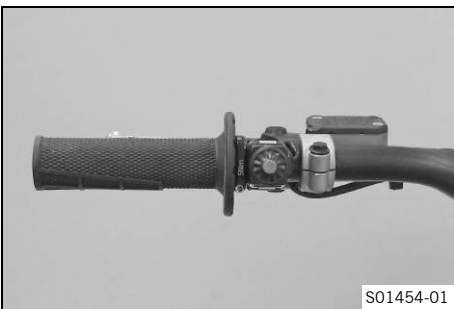
(250 XC-W TPI US)

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



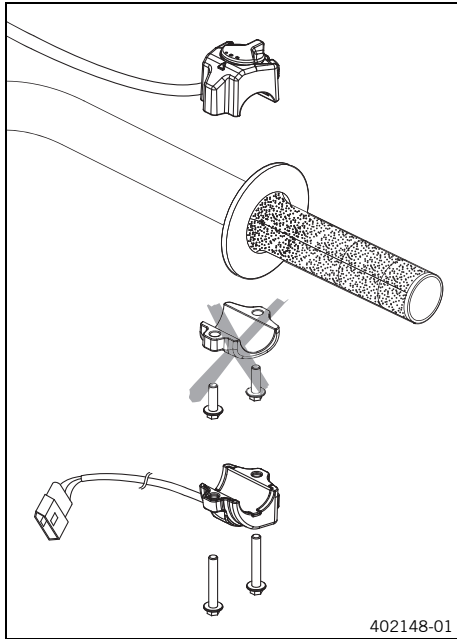
(All EXC models)

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



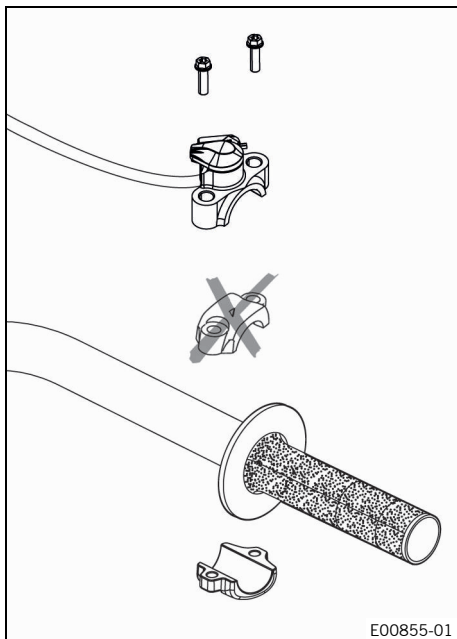
(250 XC-W TPI US)

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



(All EXC models)

- Mount the turn signal switch.



(All Six Days models)



Warning

Voiding of the government approval for road use and the insurance coverage If the map switch is installed, the vehicle's approval for road use is invalidated.

- Only operate the vehicle in closed-off areas away from public road traffic if the map switch is installed.

- Position the map switch with the clamp on the right handlebar half.



Info

Read the accompanying **KTM PowerParts** instructions.

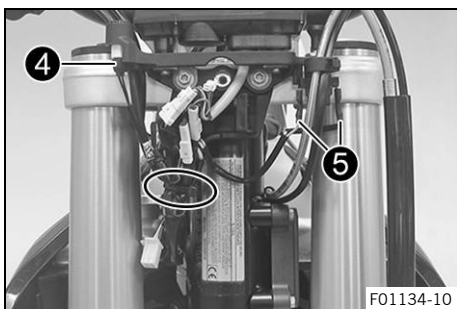


Condition

Packaging **V12**

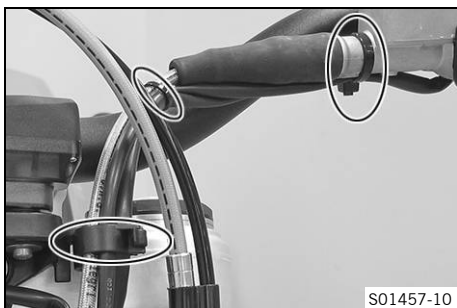
(All EXC models)

- Insert indicator lamp ④ in the socket.
- Join all plug-in connectors to the plug-in holder.
- Route the cable without tension and secure with cable tie.

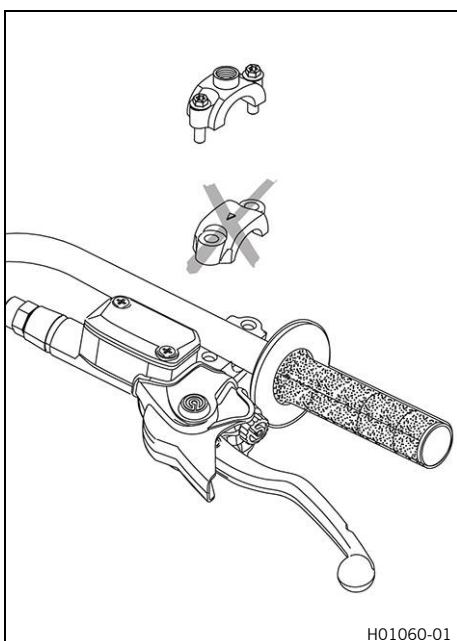


(250 XC-W TPI US)

- Insert indicator lamp ④ in the socket.
- Plug in light pull switch ⑤ with the yellow and white cables.
- Join all plug-in connectors.
- Route the cable without tension and secure with cable tie.

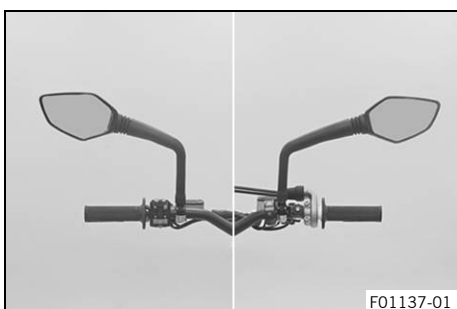


- Route the cable without tension and secure with cable ties and cable holder.



(All EXC models)

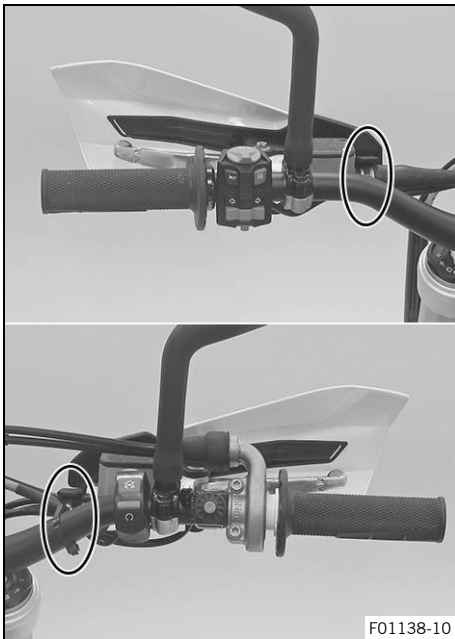
- Mount the mirror clamps on both sides.



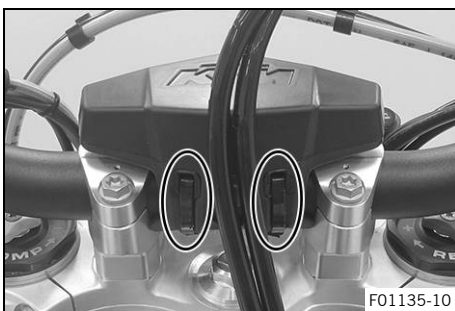
- Mount both rear mirrors with the adapter.



- Preassemble the hand guards on the left and right.



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



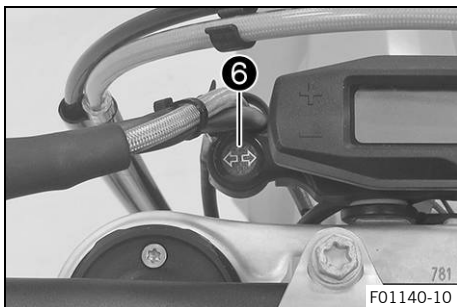
- Secure the handlebar cushion with two cable ties.
- Install front fender. (📖 p. 29)
- Install the front wheel. (📖 p. 26)
- Remove the battery. (📖 p. 26)
- Recharge the battery. (📖 p. 27)

(250 XC-W TPI US)

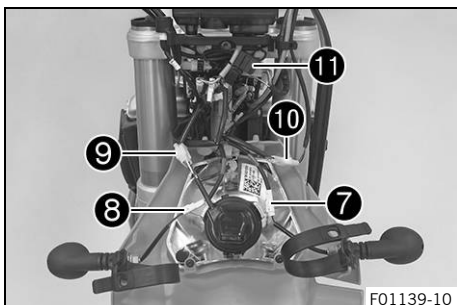
- Install the headlight mask with the headlight. (📖 p. 30)
- Install the battery. (📖 p. 29)

(All EXC models)

- Remove the fuel tank. (📖 p. 20)



- Position turn signal cable harness.
- Insert the indicator lamp with the black and violet cable colors into socket **6**.

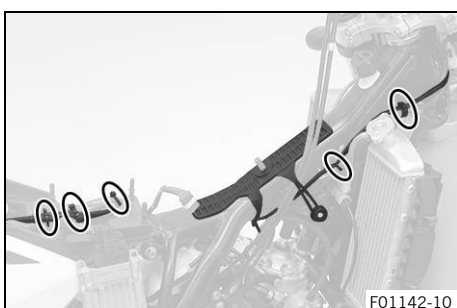
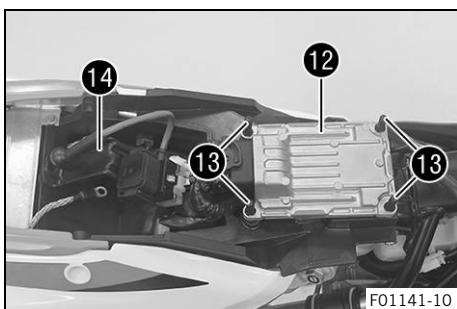


- Position turn signal on the headlight mask on both sides, mount nuts with washers and tighten.
- Connect the plug-in connector **7** of the left turn signal using the violet and brown cable colors of the turn signal cable harness.
- Connect the plug-in connector **8** of the right turn signal using the black and brown cable colors of the turn signal cable harness.

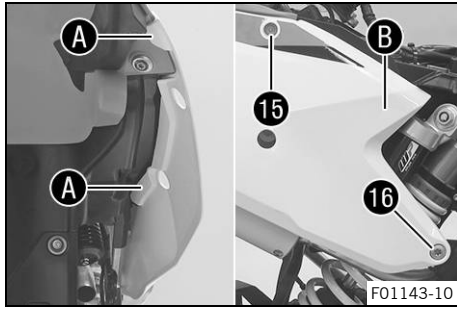
i Info

Pay attention to where the brake line is routed when doing so.

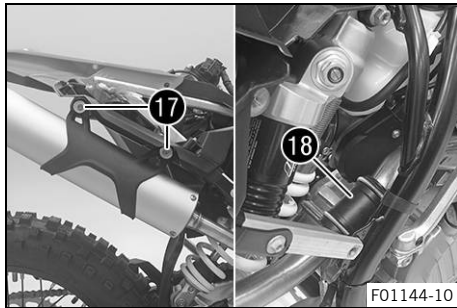
- Connect plug-in connector **9** of the headlight.
- Connect plug-in connector **10** of the turn signal switch.
- Secure turn signal relay **11** with a cable tie and plug in the connector.
- Install the headlight mask with the headlight. (📖 p. 30)
- Pull the EFI control unit **12** upward off the rubber plugs **13** and hang to the side.
- Remove holding bracket **14** and hang to the side.



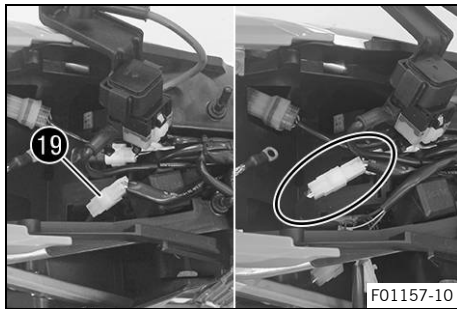
- Route the turn signal cable harness from the front to the rear as far as the battery compartment.
- Position and secure turn signal cable harness using cable ties to the main wiring harness under the rubber bands of fuel tank support.



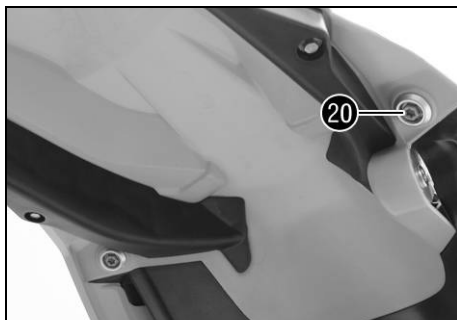
- Remove screw 15.
- Remove screw 16.
- Pull off the side cover in area A and area B and remove it toward the rear.



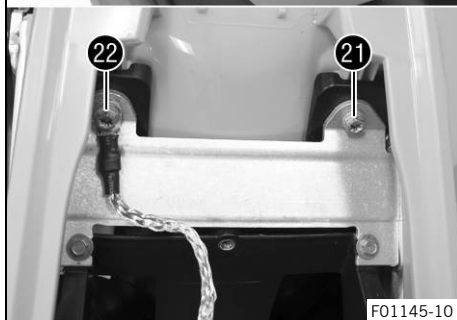
- Remove screws 17 with the washers.
- Pull off the main silencer at the rubber sleeve 18 and the spring ring from the manifold.

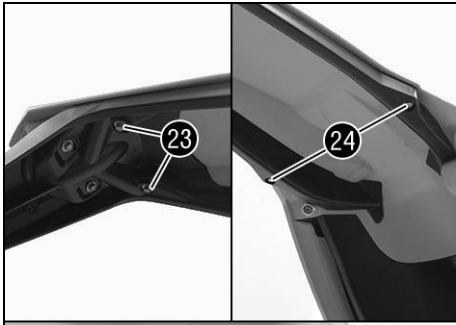


- Disconnect the plug-in connector 19 on the main wiring harness.
- Join turn signal cable harness plug-in connector to the main wiring harness plug-in connector.

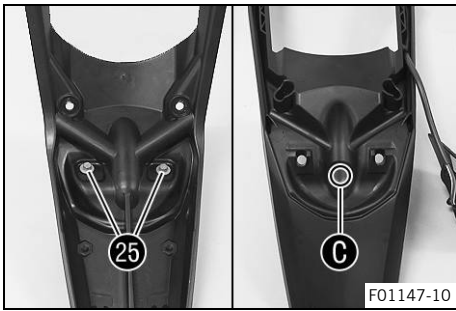


- Remove screw 20 with the collar bushing.
- Remove screw 21.
- Remove screw 22 with negative cable and contact disk.





- Remove screws 23.
- Remove screws 24 with the washers.
- Carefully pull the tail light cable out of the frame, paying attention to the plug as you do so.
- Take off license plate holder with tail light toward the rear.

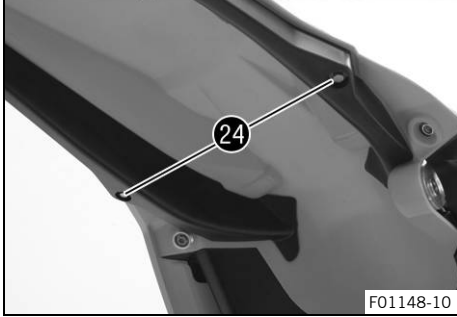


- Remove screws 25 and hang the tail light to the side.
- Drill a hole at the marking C to the size of the marking.



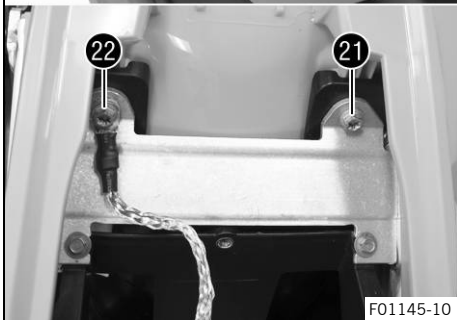
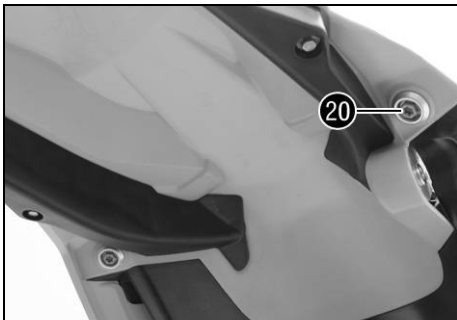
- Route the turn signal cable harness toward the rear and pass through the frame paying attention to the plugs as you do so.
- Route turn signal cable harness on the license plate holder and pass turn signal cable harness through the drill hole.
- Position tail light on license plate holder, and mount and tighten screws 25.





F01148-10

- Carefully pass the tail light cable through the frame, paying attention to the plug as you do so.
- Position license plate holder on the rear.
- Mount and tighten screws **24** with the washers.



F01145-10

- Mount and tighten screw **20** with the collar bushing.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Mount and tighten screw **21**.

Guideline

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

- Mount and tighten screw **22** with negative cable and contact disk.

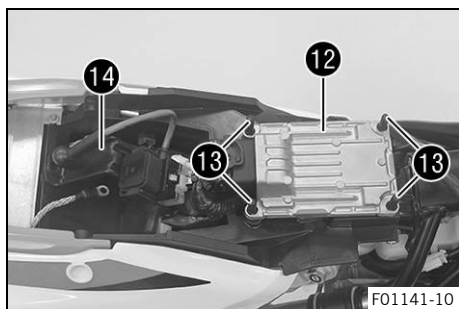
Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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F01159-10

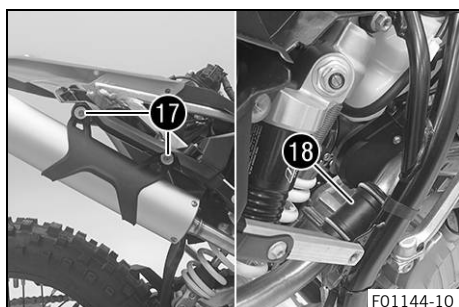
- Connect the tail light plug-in connector to the main wiring harness plug-in connector.



- Mount holding bracket **14**.
- Mount the EFI control unit **12** on the rubber lugs **13**.

i Info
The wiring harness runs under the EFI control unit.

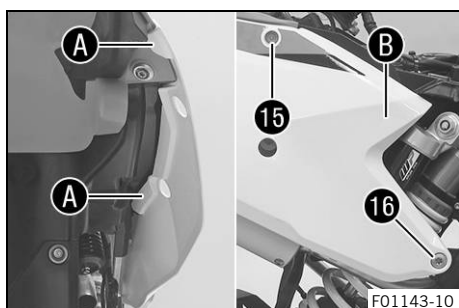
- Position the turn signal cable harness and main wiring harness and secure with cable ties.



- Mount the main silencer with the rubber sleeve **18** and spring ring.
- Mount and tighten screws **17** with the washers.

Guideline

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



- Attach the side cover in area **A** and engage it in area **B**.
- Mount and tighten screw **16**.

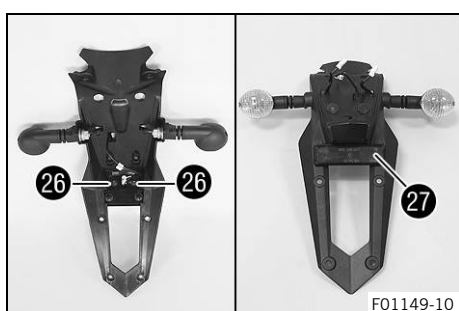
Guideline

Screw, sub-frame	M8	35 Nm (25.8 lbf ft) Loctite®2701™
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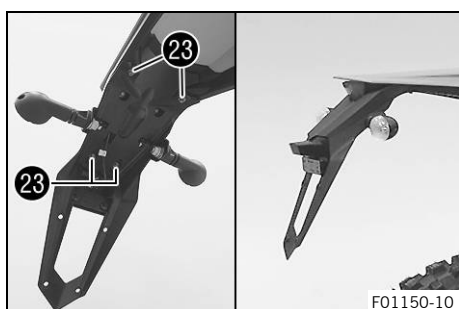
- Mount and tighten screw **15**.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Install the battery. (📖 p. 29)
- Install the fuel tank. (📖 p. 22)
- Position turn signal on both sides, mount nuts with washers and tighten.
- Position license plate lamp on the license plate holder, and mount and tighten screws **26**.
- Mount reflector **27** on license plate holder.
- Pass cable through the license plate holder.



- Position license plate holder on the license plate holder.
- Join the plug-in connector of the license plate lamp.
- Connect the plug-in connector of the left turn signal which is marked red.
- Connect the plug-in connector of the right turn signal which is marked green.
- Mount and tighten screws **23**.

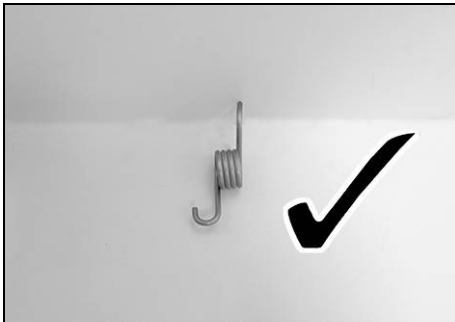


- Position the right footrest and pin.



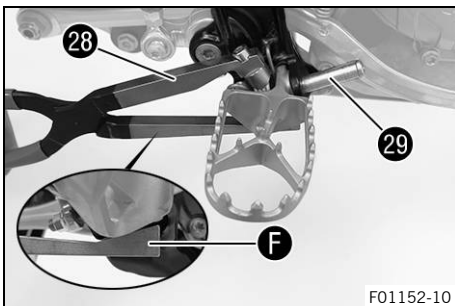
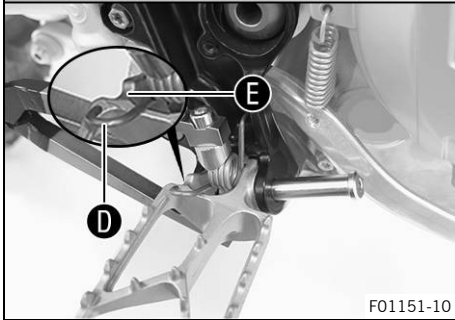
Info

When inserting the pin, leave enough space to mount the spring.



- Position spring as shown.

✓ Spring **D** engages in area **E**.

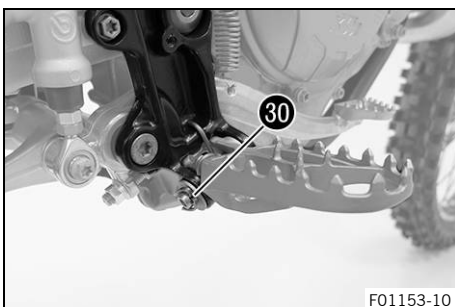


- Press the spring with special tool **28**.

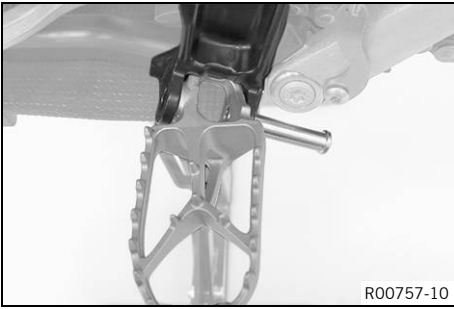
Footrest spring plier (79029083000)

✓ The special tool is applied to area **F** on the footrest.

- Mount pin **29**.

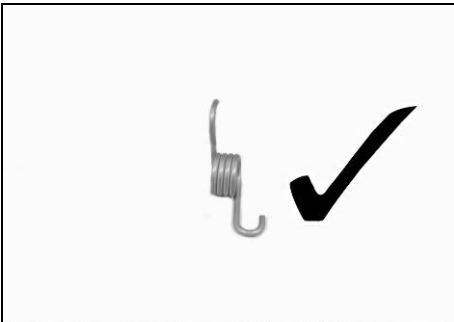


- Mount the washer and split pin **30**.

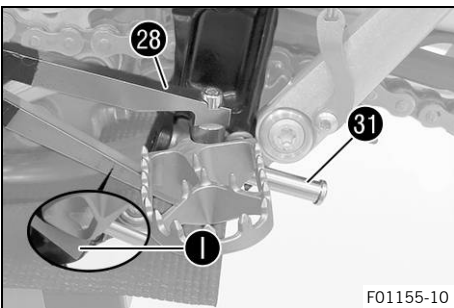
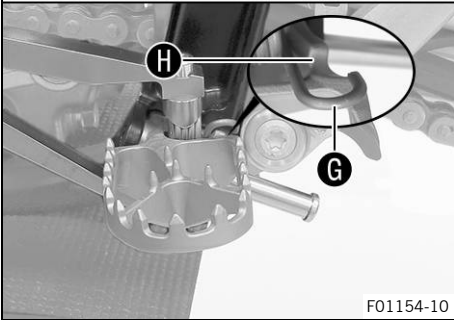


- Position the left footrest and pin.

i Info
When inserting the pin, leave enough space to mount the spring.



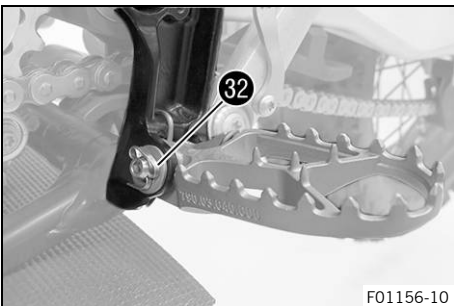
- Position spring as shown.
- ✓ Spring **G** engages in area **H**.



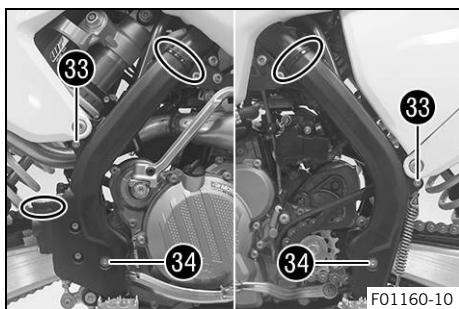
- Press the spring with special tool **28**.

Footrest spring plier (79029083000)

- ✓ The special tool is applied to area **1** on the footrest.
- Mount pin **31**.



- Mount the washer and split pin **32**.



- Position the frame protectors on both sides.
- Mount and tighten screws **33**.

Guideline

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

- Mount and tighten screws **34** with the washers.

Guideline

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

- Mount the cable tie(s).

(All Six Days models)

- Install the engine guard. (📖 p. 32)
- Unpack and mount the **KTM PowerParts** included in the delivery (optional).



Info

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

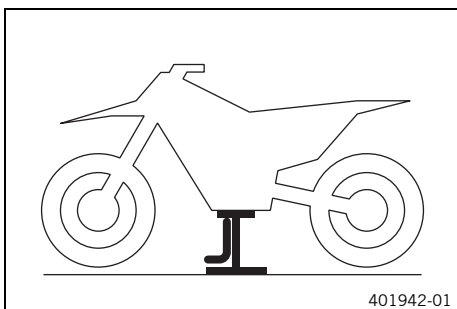
- Apply the sticker included in the delivery (optional).
- Set kilometers or miles. (📖 p. 35)
- Adjust the combination instrument function. (📖 p. 36)
- Set the clock. (📖 p. 37)
- Add 2-stroke oil. (📖 p. 33)
- Refuel. (📖 p. 34)
- Position all controls in their exact positions on the handlebar. Tighten all screws.
- Prepare the vehicle according to the specifications in the **KTM Dealer.net** for handover to the customer.



Info

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

3.1 Raising the motorcycle with a lift stand



Note

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

- Park the vehicle on a firm and level surface.
- 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.

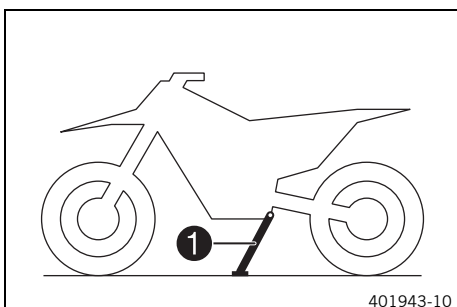


3.2 Removing the motorcycle from the lift stand

Note

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

- Park the vehicle on a firm and level 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.

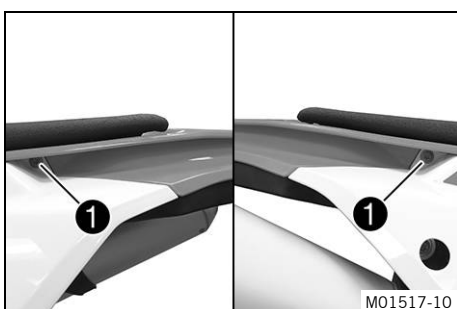


Info

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



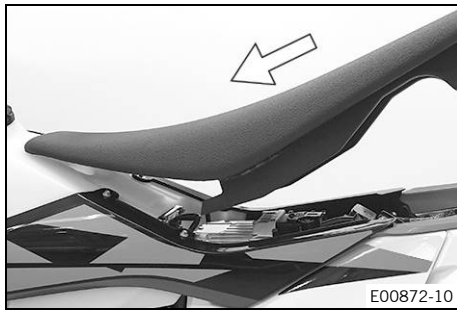
3.3 Removing the seat



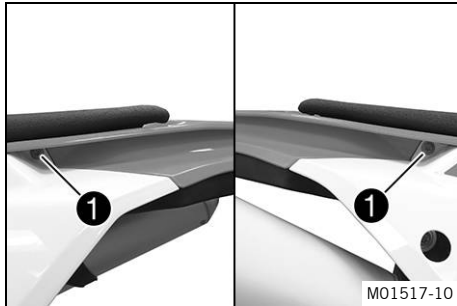
- Remove screws ①.
- Raise the rear of the seat, pull the seat back, and lift it off.



3.4 Mounting the seat



- Hook in the front of the seat on the collar bushing of the fuel tank, lower it at the rear and push it forward.
- Make sure that the seat is correctly locked in.



- Mount and tighten screws ①.

Guideline

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

3.5 Removing the fuel tank



Danger

Fire hazard Fuel is highly flammable.

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

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



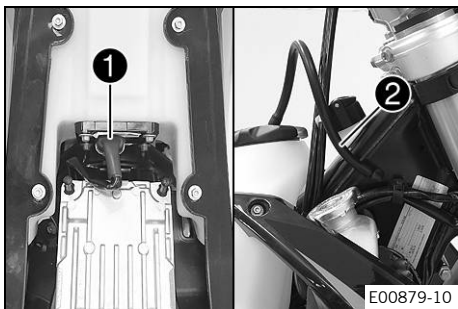
Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

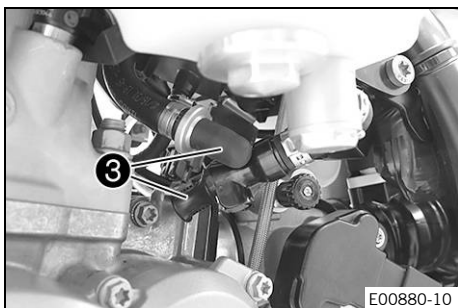
Preparatory work

- Remove the seat. (📖 p. 19)



Main work

- Unplug connector **1** of the fuel pump.
- Remove tube **2** from the fuel tank breather.



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

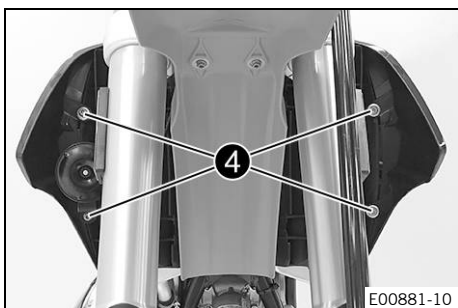
i Info
Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

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

i Info
Remaining fuel may flow out of the fuel hose.

- Mount wash cap set **3**.

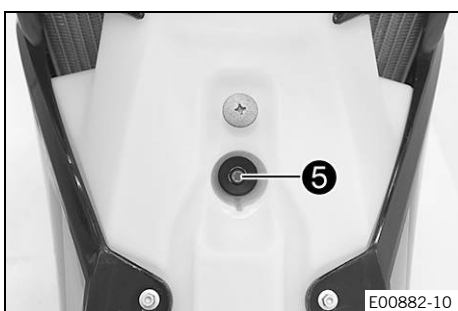
Wash cap set (81212016100)



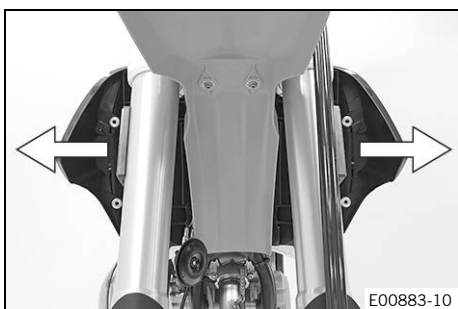
- Remove screws **4** with the collar bushings.

(All EXC models)

- Hang the horn and horn bracket to one side.



- Remove screw **5** with the rubber bushing.



- Pull both spoilers off laterally from the radiator bracket and lift off the fuel tank.

3.6 Installing the fuel tank



Danger

Fire hazard Fuel is highly flammable.

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

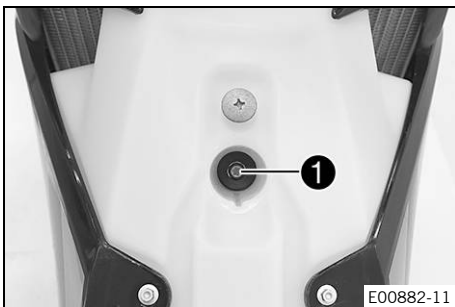
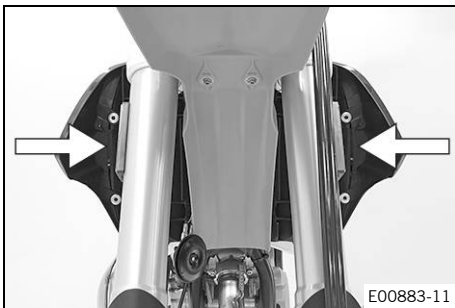
- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Main work

- Check throttle cable routing. (📖 p. 23)
- Position the fuel tank and fit the two spoilers to the sides in front of the radiator bracket.
- Make sure that no cables or throttle cables are trapped or damaged.

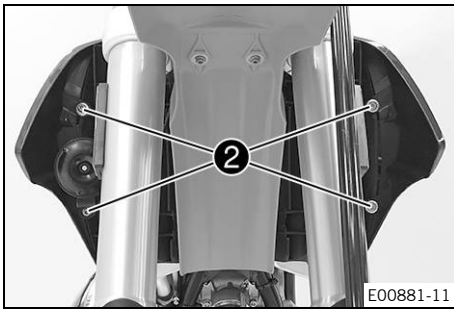
- Mount and tighten screw ❶ with the rubber bushing.

Guideline

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

(All EXC models)

- Position the horn with the horn bracket.



- Mount and tighten screws **2** with the collar bushings.

Guideline

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



- Remove the wash cap set.
- Thoroughly clean the plug-in connection of the fuel line using compressed air.



Info

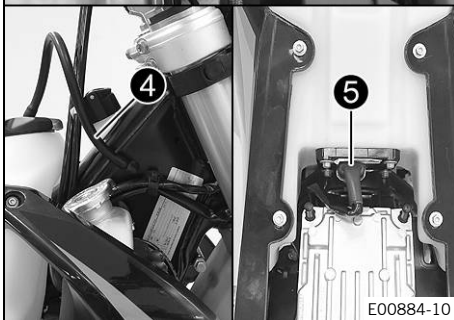
Under no circumstances should dirt enter into the fuel line. Dirt in the fuel line clogs the injection valve!

- Lubricate the O-ring and connect plug-in connection **3** for the fuel line.



Info

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



- Attach fuel tank breather hose **4**.
- Plug in connector **5** for the fuel pump.

Finishing work

- Mount the seat. (🔧 p. 20)

3.7 Checking throttle cable routing

Preparatory work

- Remove the seat. (🔧 p. 19)
- Remove the fuel tank. (🔧 p. 20)



Main work

- Check throttle cable routing.

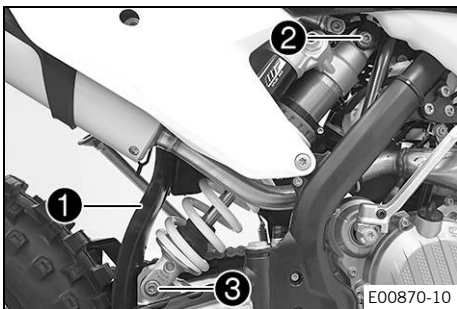
Both throttle cables must be routed, side by side, on the back of the handlebars, above the fuel tank bracket on the right of the frame to the throttle valve body. Both throttle cables must be secured behind the fuel tank contact area rubber band.

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

Finishing work

- Install the fuel tank. (🔧 p. 22)
- Mount the seat. (🔧 p. 20)

3.8 Installing the shock absorber



Main work

- Push splash protector **1** to the side and position the shock absorber. Mount and tighten screw **2**.

Guideline

Screw, top shock absorber	M12	80 Nm (59 lbf ft) Loctite®2701™
---------------------------	-----	---

- Mount and tighten screw **3**.

Guideline

Screw, bottom shock absorber	M12	80 Nm (59 lbf ft) Loctite®2701™
------------------------------	-----	---

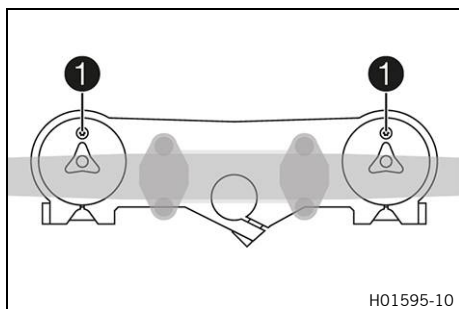
i Info

The heim joint for the shock absorber at the swingarm is Teflon-coated. It must not be greased with grease or with other lubricants. Lubricants dissolve the Teflon coating, thereby drastically reducing the service life.

Finishing work

- Remove the motorcycle from the lift stand. (🔧 p. 19)

3.9 Installing the fork legs



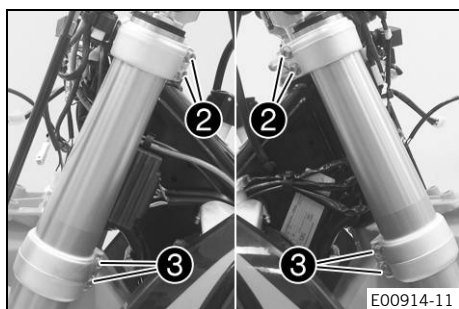
Main work

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



Info

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



(All standard EXC/XC-W models)

- Tighten screws **2**.

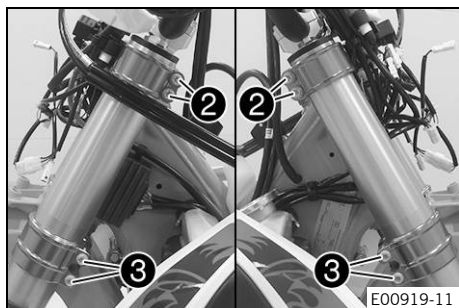
Guideline

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

- Tighten screws **3**.

Guideline

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



(All Six Days models)

- Tighten screws **2**.

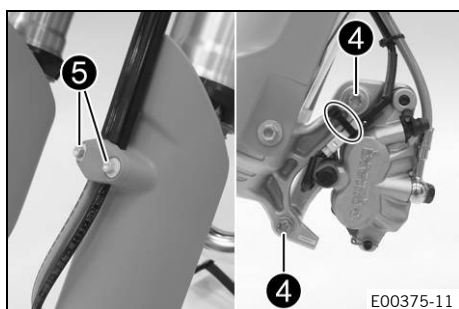
Guideline

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) Loctite®243™
----------------------------	----	--

- 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. 26)
- Install the headlight mask with the headlight. (📖 p. 30)
- Check the headlight setting. (📖 p. 31)

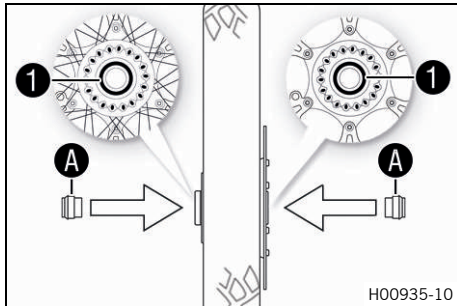
3.10 Installing the front wheel



Warning

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

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



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

Long-life grease (📖 p. 41)

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

Long-life grease (📖 p. 41)

- Lift the front wheel into the fork, position it, 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)
----------------------------	---------	---------------------

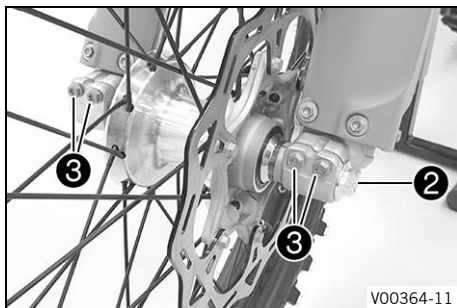
- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (📖 p. 19)
- Operate the front brake and compress the fork a few times firmly.

✓ The fork legs straighten.

- Tighten screws 3.

Guideline

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



3.11 Removing the battery



Warning

Environmental hazard Batteries contain environmentally-hazardous materials.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

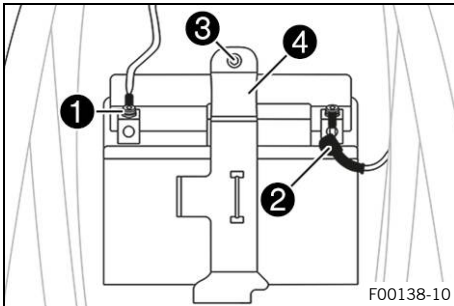
- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

Preparatory work**(All EXC models)**

- Press and hold the kill switch ☒ while the engine is idling until the engine stops.

(250 XC-W TPI US)

- Press and hold the kill switch ☒ while the engine is idling until the engine stops.
- Remove the seat. (📖 p. 19)

**Main work****Warning**

Risk of injury Batteries contain harmful substances.

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

- Disconnect negative cable ① from the battery.
- Pull back positive terminal cover ② and disconnect the positive cable from the battery.
- Remove screw ③.
- Pull holding bracket ④ forward and remove battery toward the top.

3.12 Recharging the battery**Warning**

Risk of injury Batteries contain harmful substances.

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



Warning

Environmental hazard Batteries contain environmentally-hazardous materials.

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



Warning

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 battery, it discharges steadily.

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

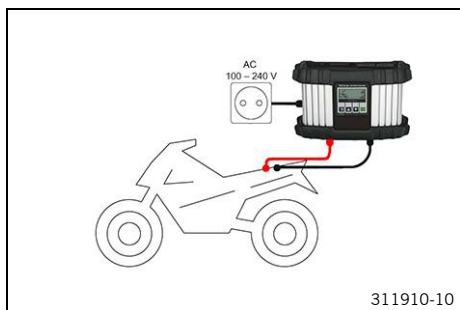
Rapid recharging with a high charging current shortens the service life of the battery.

If the charging current, charging voltage, or charging time are exceeded, the battery will be destroyed.

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

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

The battery is maintenance-free.



Preparatory work

- Remove the seat. (📖 p. 19)

Main work

- Connect the battery charger to the battery. Set 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)

Alternative 3

CH battery charger **XCharge-professional**
(00029095053)



Info

Follow the instructions of the charger and the manual.

- Disconnect the battery charger after charging the battery.

Guideline

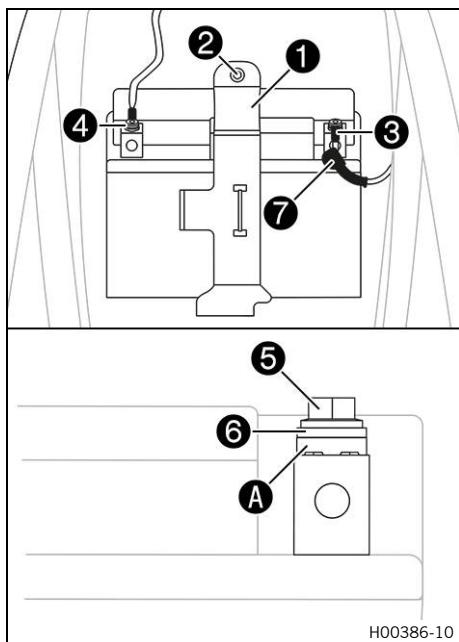
The charging current, charging voltage, and charging time must not be exceeded.

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

Finishing work

- Mount the seat. (📖 p. 20)

3.13 Installing the battery



Main work

- Insert the battery into the battery compartment with the terminals facing forward and secure with holding bracket **1**.

Battery (HJTZ5S-FP)

- Mount and tighten screw **2**.

Guideline

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

- Connect positive cable **3** to the battery.

Guideline

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

Contact disks **A** must be mounted under the screw **5** and the cable lug **6** with the claws toward the battery terminal.

- Slide positive terminal cover **7** over the positive terminal.
- Connect negative cable **4** to the battery.

Guideline

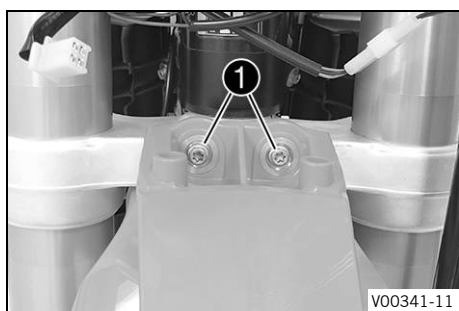
Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
-------------------------	----	----------------------

Contact disks **A** must be mounted under the screw **5** and the cable lug **6** with the claws toward the battery terminal.

Finishing work

- Mount the seat. (🗨️ p. 20)

3.14 Installing front fender

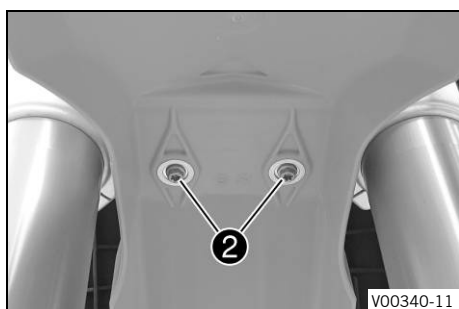


Main work

- Position front fender. Mount and tighten screws **1**.

Guideline

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



- Mount and tighten screws **2**.

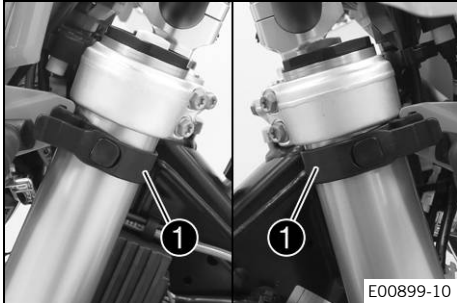
Guideline

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

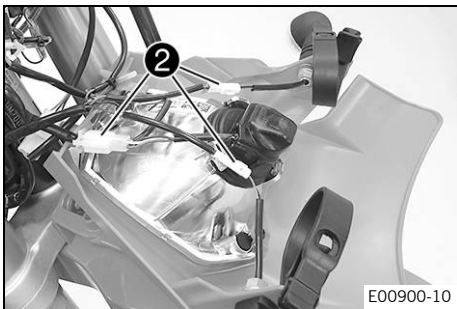
Finishing work

- Install the headlight mask with the headlight. (🔧 p. 30)
- Check the headlight setting. (🔧 p. 31)

3.15 Removing the headlight mask with the headlight

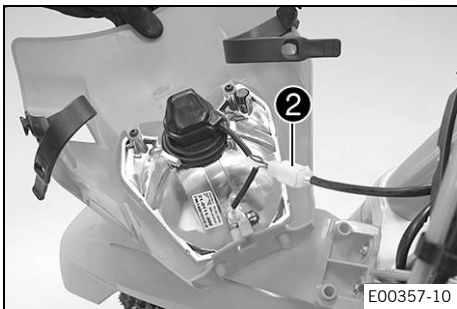


- Detach the brake line and wiring harness from the headlight mask.
- Release rubber bands **1**. Slide the headlight mask up and swing it forward.



(All EXC models)

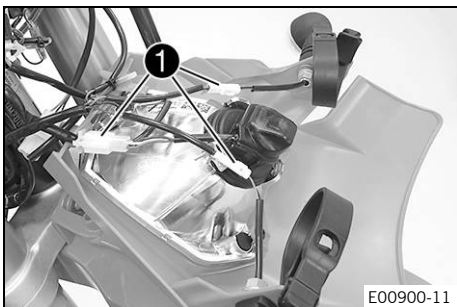
- Detach plug-in connectors **2** and take off the headlight mask with the headlight.



(250 XC-W TPI US)

- Detach plug-in connector **2** and take off the headlight mask with the headlight.

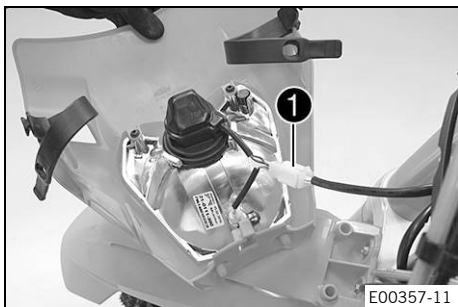
3.16 Installing the headlight mask with the headlight



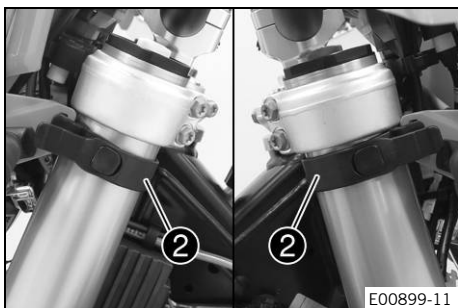
Main work

(All EXC models)

- Connect plug-in connectors **1**.

**(250 XC-W TPI US)**

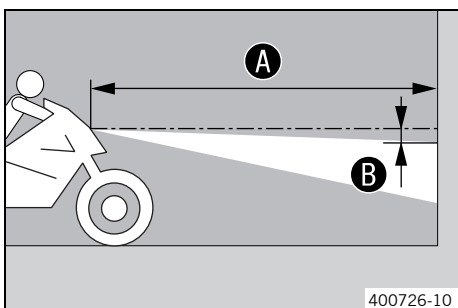
- Connect plug-in connector ①.



- Position the headlight mask and fix it with rubber bands ②.
 - ✓ The holding lugs engage in the fender.
- Position the brake line and wiring harness in the brake line guide.

Finishing work

- Check the headlight setting. (📖 p. 31)

3.17 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 ② under the first mark.

Guideline

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

- Position the vehicle vertically a distance ① away from the wall.

Guideline

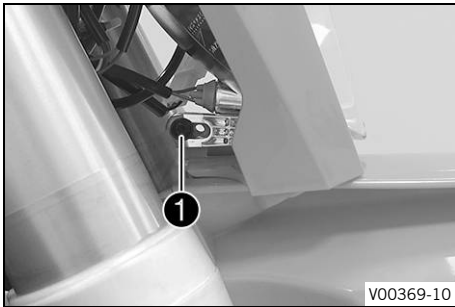
Distance ①	5 m (16 ft)
------------	-------------

- 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. 32)

3.18 Adjusting the headlight range



V00369-10

Preparatory work

- Check the headlight setting. (📖 p. 31)

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 marking for a motorcycle with rider (instructions on how to apply the marking: Checking the headlight setting).

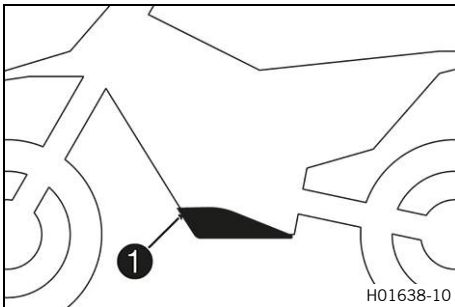


Info

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

- Tighten screw ❶.

3.19 Installing the engine guard (All Six Days models)



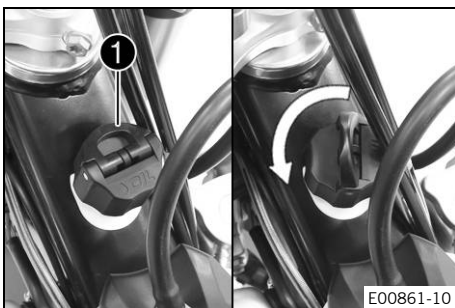
H01638-10

- Attach the engine guard on the frame at the rear and swing up at the front.
- Mount and tighten screws ❶.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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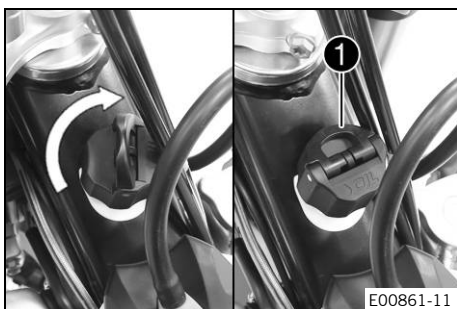
3.20 Opening 2-stroke oil tank cap



E00861-10

- Fold loop ❶ upward.
- Turn the 2-stroke oil tank cap counterclockwise and pull it up.

3.21 Closing 2-stroke oil tank cap



- Put the 2-stroke oil tank cap on and turn it clockwise.
- Fold loop ① down.
- ✓ The 2-stroke oil tank cap engages.

3.22 Adding 2-stroke oil

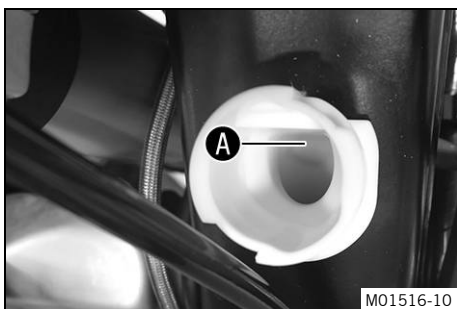


Warning

Engine failure The engine will not be lubricated unless there is 2-stroke oil in the oil tank.

If the oil level warning light lights up, the 2-stroke oil is sufficient for the remaining tank of fuel.

- As soon as the oil level warning light lights up, ride for no longer than until the remaining fuel in the tank is depleted.
- At the next opportunity add 2-stroke oil before you refuel.
- Time the oil pump if the 2-stroke oil hose has been removed or the 2-stroke oil tank has been fully depleted in error.



- Open 2-stroke oil tank cap. (📖 p. 32)
- Fill the 2-stroke oil tank up to the lower edge ① of the filler neck.

2-stroke oil tank content approx.	0.7 l (0.7 qt.)	Engine oil, 2-stroke (📖 p. 40)
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- Close 2-stroke oil tank cap. (📖 p. 33)

3.23 Opening the filler cap



Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

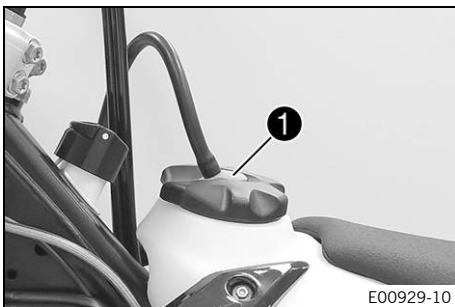
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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



Warning

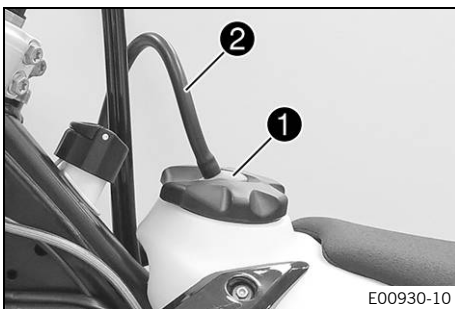
Environmental hazard Improper handling of fuel is a danger to the environment.

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



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

3.24 Closing the filler cap



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



Info

Route fuel tank breather hose **2** without kinks.

3.25 Refueling



Danger

Fire hazard Fuel is highly flammable.

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

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

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

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

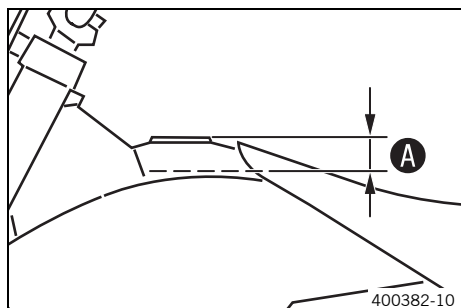
Note**Material damage** Inadequate fuel quality causes the fuel filter to quickly become clogged.

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

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

**Warning****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.



- Open the filler cap. (📖 p. 33)
- Fill the fuel tank with fuel up to level **A**.

Guideline

Level A	35 mm (1.38 in)	
Total fuel tank capacity, approx.	9 l (2.4 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (📖 p. 40)

**Info**

Do not refuel using pre-mixed fuel.

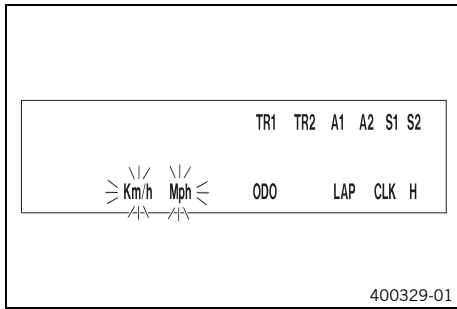
- Close the filler cap. (📖 p. 34)

**3.26 Setting the kilometers or miles****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 stationary.



- Repeatedly press the button briefly until **H** appears at the bottom right of the display.
- Press the button for 2–3 seconds.
 - ✓ The Setup menu is displayed and the active functions are shown.
- Repeatedly press the button briefly until **Km/h/Mph** flashes.

Setting the Km/h

- Press the button .

Setting the Mph

- Press the button .
- Wait 3 - 5 seconds.
 - ✓ The settings are stored.



Info

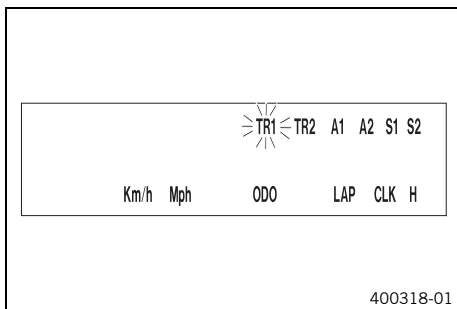
If no button is pressed for 10-12 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

3.27 Adjusting the combination instrument function



Info

When the vehicle is delivered, only the **SPEED/H** and **SPEED/ODO** display modes are activated.



Condition

The motorcycle is stationary.

- Repeatedly press the button briefly until **H** appears at the bottom right of the display.
- Press the button for 2–3 seconds.
 - ✓ The Setup menu is displayed and the active functions are shown.



Info

If no button is pressed for 10 - 12 seconds, the settings are automatically saved. If no button is pressed for 20 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

- Repeatedly press the button briefly until the desired function flashes.
 - ✓ The selected function flashes.

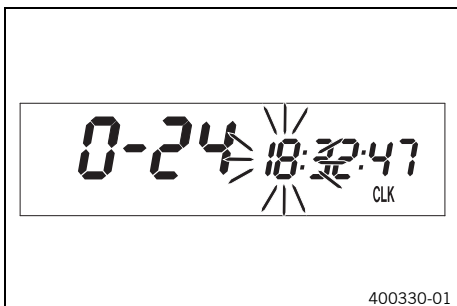
Activating the function

- Press the button .
 - ✓ The symbol continues to appear in the display and the next function appears.

Deactivating a function







- Press the button .
 - ✓ The symbol disappears in the display and the next function appears.

3.28 Setting the clock



Condition

The motorcycle is stationary.

- Repeatedly press the button  briefly until **CLK** appears at the bottom right of the display.
- Press the button  for 2–3 seconds.
 - ✓ The hour display flashes.
- Set the hour display with the button  and/or button .
- Wait 3 - 5 seconds.
 - ✓ 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 .



Info

The seconds can only be set to zero.

If no button is pressed for 15 - 20 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

4.1 Chassis tightening torques

Remaining screws, chassis	EJOT PT® K60x25-Z	2 Nm (1.5 lbf ft)
Screw, fuel pump	EJOT PT®	2.3 Nm (1.7 lbf ft)
Screw, oil fill level sensor	G 3/4 "	7 Nm (5.2 lbf ft)
Screw, pressure regulator	EJOT PT® K60x25-Z	2.3 Nm (1.7 lbf ft)
Screw, seat fixing	EJOTEJOFORM PT® K60x23/18	2.5 Nm (1.84 lbf ft)
Screw, emergency OFF switch (All EXC models)	M4	1 Nm (0.7 lbf ft)
Screw, fixed grip	M4	5 Nm (3.7 lbf ft) Loctite®243™
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, intake air temperature sensor	M5	3.5 Nm (2.58 lbf ft)
Screw, light switch (All EXC models)	M5	1 Nm (0.7 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screw, turn signal switch (All EXC models)	M5	1 Nm (0.7 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) Loctite®243™
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft) Loctite®243™
Screw, front brake disc	M6	14 Nm (10.3 lbf ft) Loctite®243™
Screw, manifold on silent block	M6	6 Nm (4.4 lbf ft)
Screw, oil pump holder on oil tank	M6	6 Nm (4.4 lbf ft)
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft) Loctite®243™
Screw, silent block on frame	M6	6 Nm (4.4 lbf ft)
Screw, throttle grip	M6	5 Nm (3.7 lbf ft)
Nut, foot brake lever	M8	15 Nm (11.1 lbf ft)
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)
Nut, pull switch (250 XC-W TPI US)	M8	0.4 Nm (0.3 lbf ft)
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft) Loctite®2701™
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 (All standard EXC/XC-W models)	M8	15 Nm (11.1 lbf ft)
Screw, bottom triple clamp (All Six Days models)	M8	15 Nm (11.1 lbf ft)
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
Screw, engine brace	M8	25 Nm (18.4 lbf ft) Loctite®2701™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft) Loctite®243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
Screw, side stand attachment	M8	35 Nm (25.8 lbf ft) Loctite®2701™
Screw, subframe	M8	35 Nm (25.8 lbf ft) Loctite®2701™
Screw, top steering stem (All standard EXC/XC-W models)	M8	20 Nm (14.8 lbf ft)
Screw, top steering stem (All Six Days models)	M8	17 Nm (12.5 lbf ft) Loctite®243™
Screw, top triple clamp (All standard EXC/XC-W models)	M8	20 Nm (14.8 lbf ft)
Screw, top triple clamp (All Six Days models)	M8	17 Nm (12.5 lbf ft)
Engine bracket 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, handlebar support	M10	40 Nm (29.5 lbf ft) Loctite®243™
Nut, fuel pump	M12	15 Nm (11.1 lbf ft)
Screw, bottom shock absorber	M12	80 Nm (59 lbf ft) Loctite®2701™
Screw, top shock absorber	M12	80 Nm (59 lbf ft) Loctite®2701™
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) Loctite®243™

Engine oil, 2-stroke

Standard/classification

- JASO FD (📖 p. 42)

Guideline

- Only use high grade 2-stroke engine oil of a reputable brand.

Fully synthetic

Recommended supplier

Motorex®

- Cross Power 2T

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).

Long-life grease

Recommended supplier

Motorex®

– Bike Grease 2000

JASO FD

JASO FD is a classification for a 2-stroke engine oil that was specifically developed for the extreme demands of racing. Thanks to first rate synthetic esters and specially designed additives, superb combustion is achieved even under extreme operating conditions.

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