# SETUP INSTRUCTIONS 2018

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## 1090 Adventure R

Art. no. 3213803en

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 illustrations and descriptions, misprints, and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of supply.



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:

1090 Adventure R EU (F9903RD)

1090 Adventure R US (F9975RD)

1090 Adventure R CN (F9987RD)

3213803en

11/2017

# 1 MEANS OF REPRESENTATION

## 1.1 Symbols used

The meaning of specific symbols is described below.

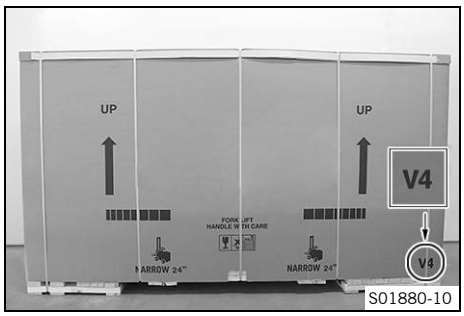
| | |
|---|---|
| ✓ | Indicates an expected reaction (e.g. of a work step or a function). |
| ✗ | Indicates an unexpected reaction (e.g. of a work step or a function). |
|  | Indicates a page reference (more information is provided on the specified page). |
|  | Indicates information with more details or tips. |
| » | Indicates the result of a testing step. |
| V | Indicates a voltage measurement. |
| A | Indicates a current measurement. |
| Ω | 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.

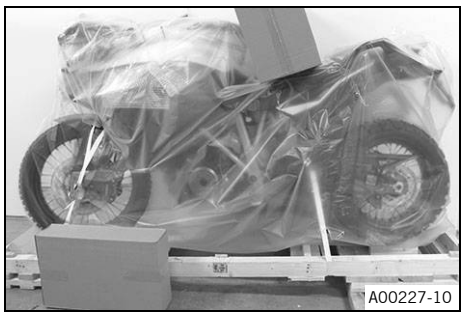
| | |
|---|---|
| **Proprietary name** | Indicates a proprietary name. |
| **Name®** | Indicates a protected name. |
| **Brand™** | Indicates a brand available on the open market. |
| **Underlined terms** | Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary. |

## 2.1 Unpacking and setting up the vehicle

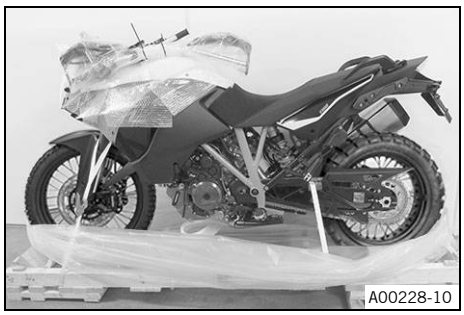


S01880-10

– Remove the straps and box.


A00227-10

– Remove the adhesive tape in the upper area of the motorcycle.


A00228-10

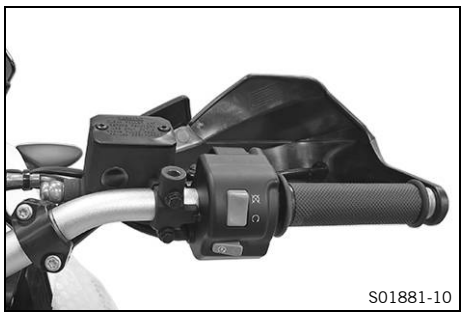
– Roll down the film at the sides.

**Info**
To avoid damaging the motorcycle during unpacking, leave the other films on the vehicle until you have finished work on the vehicle.

– Remove the separate enclosure and unpack it. Check the separate enclosure for completeness.
– Check the vehicle for transport damage.


A00229-10

– Remove the controls from the transport holder.
– Remove the screws and handlebar clamps.
– Remove the transport holder.


S01881-10

– Remove the right hand guard.
– Position the controls on the right half of the handlebar. Tighten the screws.

Guideline

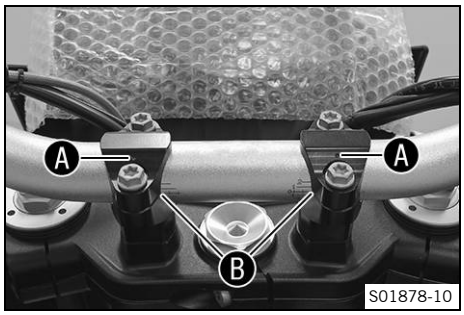
| | | |
|---|---|---|
| Screw, combination switch, right | M5 | 3.5 Nm (2.58 lbf ft) |
| Remaining chassis screws | M6 | 10 Nm (7.4 lbf ft) |

✓ The catch on the combination switch engages in the recess of the mirror clamp.

– Mount the right hand guard.

Guideline

| | | |
|---|---|---|
| Hand guard screw | M8 | 15 Nm (11.1 lbf ft) |
| Hand guard fitting | M6 | 6 Nm (4.4 lbf ft) |




**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. Tighten the screws evenly.

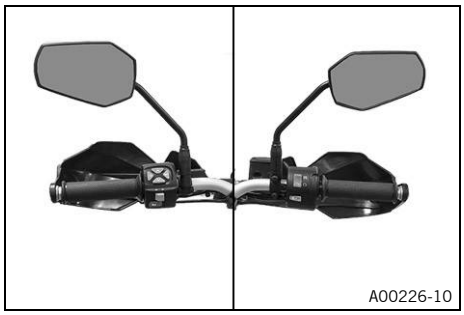
Guideline

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

✔ Markings Ⓐ face backwards.

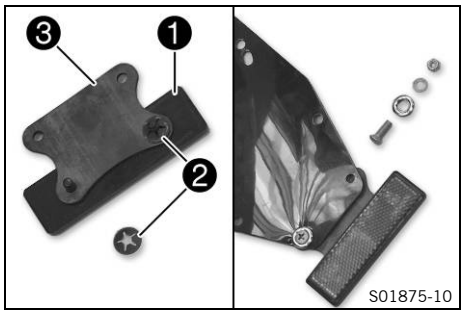
✔ Handlebar scale markings Ⓑ are located centrally between the handlebar clamps.

– Check the throttle grip for smooth operation.



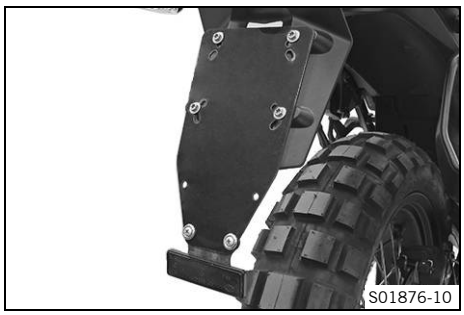

– Mount and tighten the rear mirror on both sides.

– Install the wind shield. (📖 p. 8)



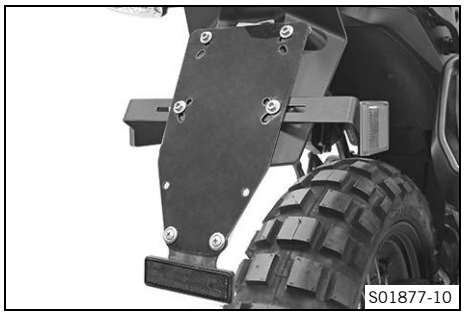

– Mount reflector ❶ with spring washers ❷ on holding plate ❸.

– Mount the retaining plate on the license plate holder.




**(1090 Adventure R EU, 1090 Adventure R CN)**

– Mount the license plate holder.




**(1090 Adventure R US)**

– Bond the reflectors on the right and left side of the reflector holder.
– Mount the reflector holder on license plate bracket.

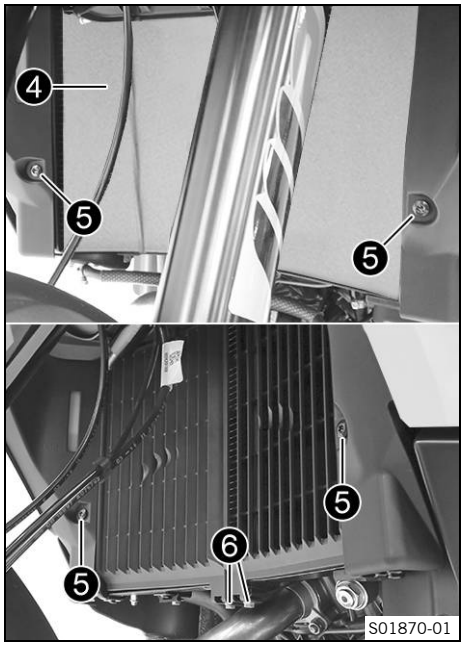
– Carefully loosen and remove the tension belt over the swingarm.

**Info**
An assistant prevents the motorcycle from falling over.

– Carefully loosen and remove the tension belts around the lower triple clamp.

✓ The vehicle is released at the front.

– Take the vehicle off the palette together with an assistant.



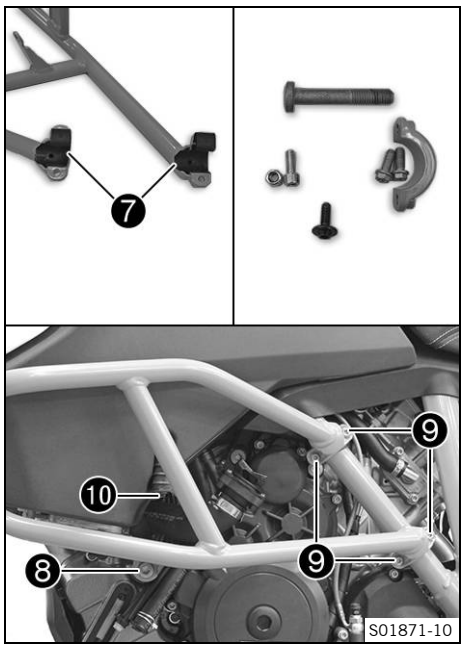

– Remove radiator shield ❹.
– Remove screws ❺.
– Position radiator guard.

**Info**
Pay attention to the guides and the holding lugs.

– Mount and tighten screws ❺ and ❻.

Guideline

| | | |
|---|---|---|
| Screw, cooler retaining bracket | M6 | 7 Nm (5.2 lbf ft) |




– Mount the frame protector elements ❼ on both sides.
– Position the left crash bar with frame protector and attach the clamp to the frame tube.

**Info**
Cover the components to protect them against damage.

– Mount screw ❽ but do not tighten yet.

Guideline

| | | |
|---|---|---|
| Remaining chassis screws | M10 | 45 Nm (33.2 lbf ft) |

– Position clamps and mount the new screws ❾ but do not tighten them yet.

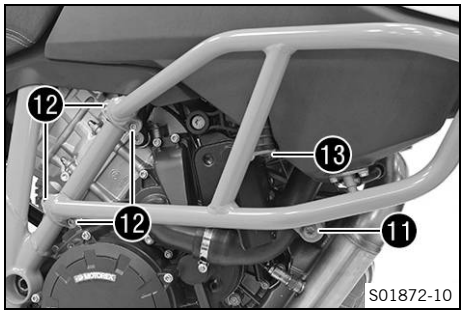
Guideline

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

– Mount screw ❿ but do not tighten yet.

Guideline

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




– Position the right crash bar with frame protector and attach the clamp to the frame tube.

**Info**
Cover the components to protect them against damage.

– Mount screw ⓫ but do not tighten yet.

Guideline

| | | |
|---|---|---|
| Remaining chassis screws | M10 | 45 Nm (33.2 lbf ft) |

– Position clamps and mount the new screws ⓬ but do not tighten them yet.

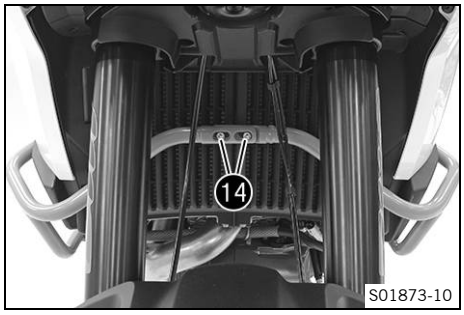
Guideline

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

– Mount screw ⓭ but do not tighten yet.

Guideline

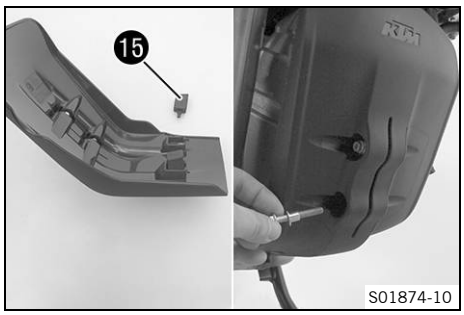
| | | |
|---|---|---|
| Remaining chassis screws | M6 | 10 Nm (7.4 lbf ft) |




– Mount and tighten screws ⓮ with nuts.
✔ The crash bars are equally aligned with each other.
– Tighten all the screws of the crash bar.

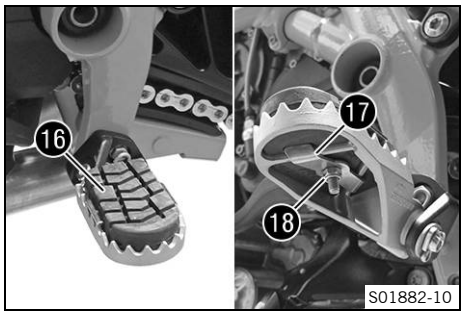
Guideline

| | | |
|---|---|---|
| Remaining chassis screws | M6 | 10 Nm (7.4 lbf ft) |
| Remaining chassis screws | M10 | 45 Nm (33.2 lbf ft) |




– Mount rubber dampers ⓯ on the engine guard.
– Position the engine guard. Mount and tighten the screws with the distance sleeves.
  Guideline

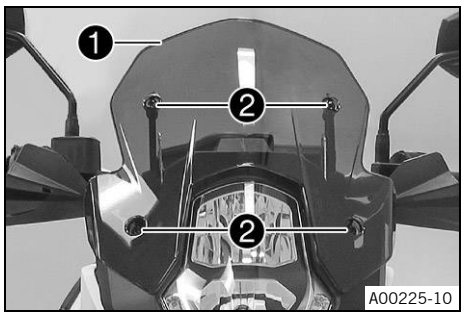
| | | |
|---|---|---|
| Screw, engine guard | M6 | 10 Nm (7.4 lbf ft) |




– Position footrest rubber ⓰.
– Mount locking plate ⓱ and nut ⓲.
– Tighten nut ⓲.
– Repeat the operation on the opposite side.
– Remove the seat. (📖 p. 8)
– Remove spare key and **KEYCODECARD** under the seat and keep in a safe place for the handover.
– Recharge the battery. (📖 p. 8)
– Remove the remaining films.
– Check the headlight setting. (📖 p. 12)
– Refuel. (📖 p. 15)
– Prepare the vehicle according to the specifications in the **KTM Dealer.net** for handover to the customer.

◀

## 3.1 Installing the wind shield

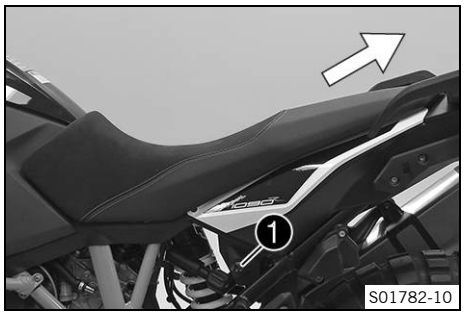



– Position wind shield ❶.
– Mount and tighten screws ❷.

Guideline

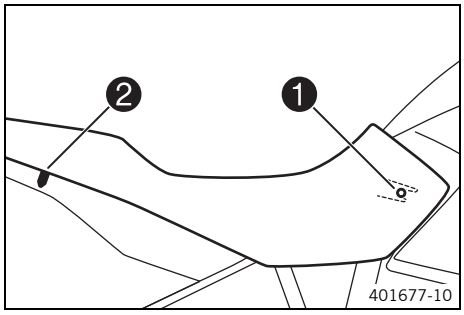
| | | |
|---|---|---|
| Screw, wind shield | M5 | 3.5 Nm (2.58 lbf ft) |

## 3.2 Removing the seat




– Insert the ignition key in the seat lock ❶ and turn it clockwise by 45 °.
– Raise the rear of the seat, pull the seat back, and lift it off.
– Remove the ignition key.

## 3.3 Mounting the seat




– Hook the catch ❶ of the seat onto the fuel tank, lower the rear and push it forward.
– Insert the locking pin ❷ into the lock housing and push down the rear of the seat until the locking pin engages with an audible click.
– Check that the seat is correctly mounted.

## 3.4 Recharging the battery

**Warning**

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

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

**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.

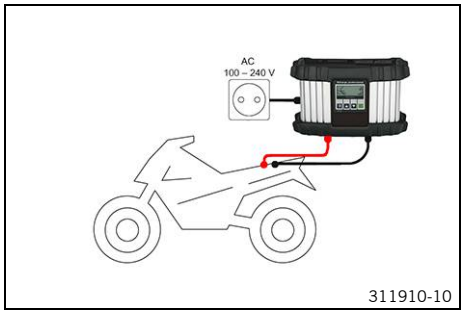
– Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

**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, and charging time are exceeded, the battery will be destroyed.
If the battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.
If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfated, destroying the battery.
The battery is maintenance-free, i.e., the acid level does not have to be checked.

**Preparatory work**

– Switch off the ignition by turning the black ignition key to the position **OFF** ⊠.
– Remove the seat. (📖 p. 8)
– Remove the battery. (📖 p. 10)




**Main work**

– Connect the battery charger to the 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) |

**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**

– Install the battery. (📖 p. 11)
– Mount the seat. (📖 p. 8)
– Set the time and date.

## 3.5 Removing the battery

**Warning**

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

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

**Caution**

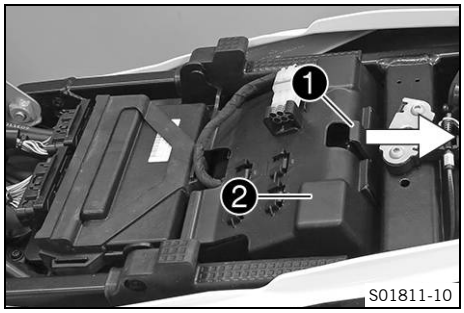
**Danger of accidents** Electronic components and safety devices will be damaged if the battery is discharged or missing.

– Never operate the vehicle with a discharged battery or without a battery.

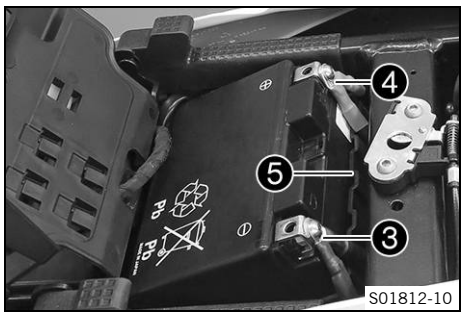
**Preparatory work**

– Switch off the ignition by turning the black ignition key to the position **OFF** ⊠.
– Remove the seat. (📖 p. 8)

**Main work**




– Pull locking mechanism ❶ in the direction of the arrow.
– Fold open cover ❷.




– Disconnect both negative cables ❸ from the battery.
– Disconnect both positive cables ❹ from the battery.
– Take the battery and battery case ❺ out of the battery compartment.

## 3.6 Installing the battery

**Warning**

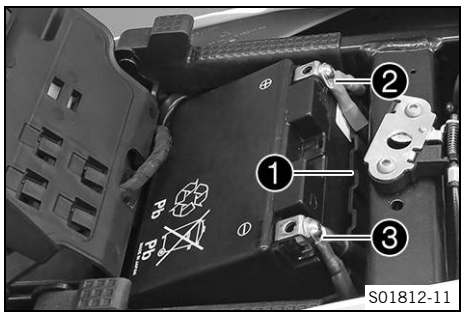
**Risk of injury** Battery acid and battery gases cause serious chemical burns.

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

**Caution**

**Danger of accidents** Electronic components and safety devices will be damaged if the battery is discharged or missing.

- Never operate the vehicle with a discharged battery or without a battery.




**Main work**

- Position the battery in battery case ❶.

  Guideline

  | |
  |---|
  | The even side of the battery case must be opposite the poles. |

- Position the battery and battery case in the battery compartment.
- Position the positive cable ❷ and mount and tighten the screw.

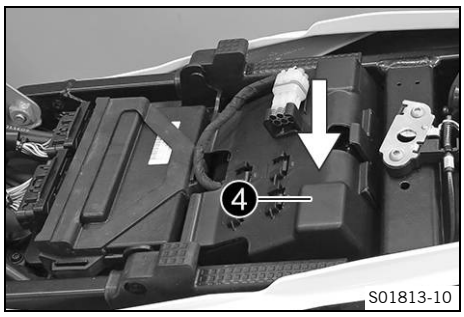
  Guideline

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

- Position the negative cable ❸ and mount and tighten the screw.

  Guideline

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



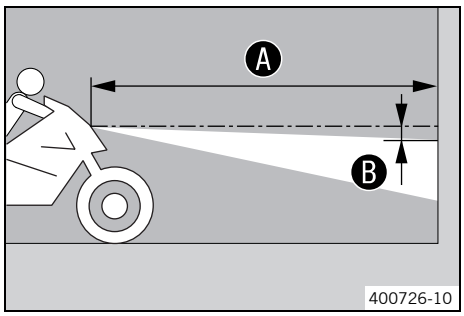

- Close the cover ❹ and push down slightly.

  ✓ The cover engages with an audible click.

**Finishing work**

- Mount the seat. (📖 p. 8)
- Set the time and date.

## 3.7 Checking the headlight setting




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

Guideline

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

– Position the vehicle perpendicular to the wall at a distance Ⓐ from the wall and switch on the low beam.

Guideline

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

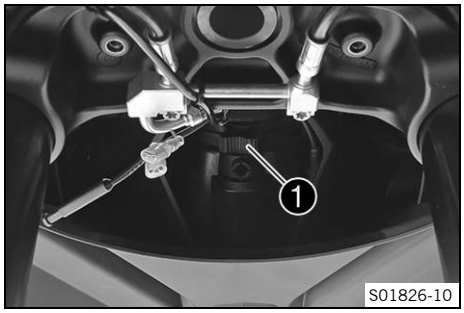
– The rider, with luggage and passenger if applicable, now mounts the motorcycle.
– Check the headlight setting.

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

» If the boundary between light and dark does not meet specifications:
– Adjust the headlight range. (📖 p. 12)

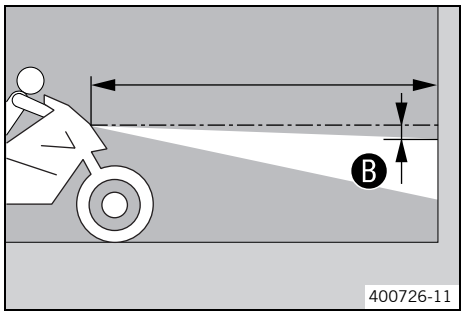
## 3.8 Adjusting the headlight range

**Preparatory work**
– Check the headlight setting. (📖 p. 12)
– Remove the bottom triple clamp cover. (📖 p. 13)




**Main work**
– Turn adjusting screw ❶ to adjust the headlight range.

**Info**
Turn clockwise to increase the headlight range; turn counterclockwise to reduce the headlight range.
If you have a payload, you may have to correct the headlight range.



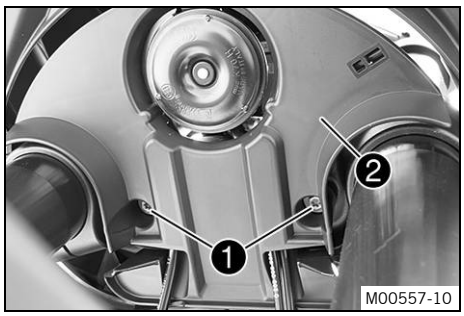

– Set the headlight to marking Ⓑ.

Guideline

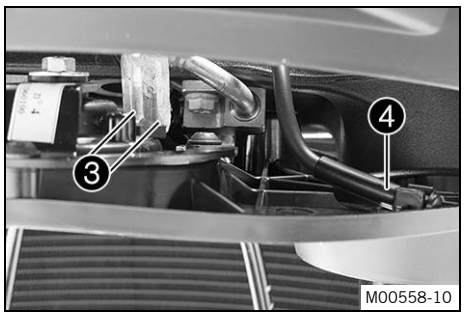
The light-dark boundary must lie exactly on the lower mark Ⓑ when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.

**Finishing work**
– Install the bottom triple clamp cover. (📖 p. 13)

## 3.9 Removing the bottom triple clamp cover

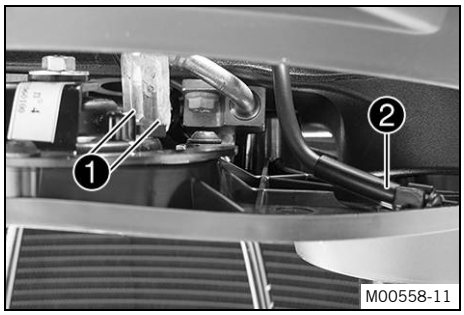



- Remove screws ❶.
- Lower triple clamp cover ❷ slightly.

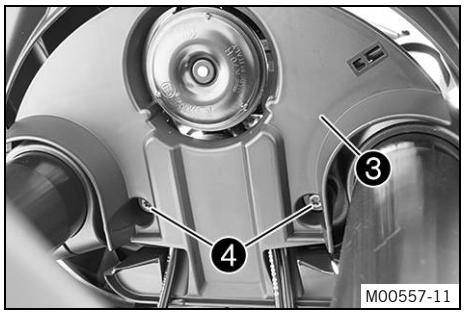



- Disconnect plugs ❸ of the horn.
- Detach temperature sensor ❹.
- Remove the triple clamp cover.

## 3.10 Installing the bottom triple clamp cover




- Plug in connectors ❶ of the horn.
- Attach temperature sensor ❷.




- Position the triple clamp cover ❸.
- Mount and tighten screws ❹.

  Guideline

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

## 3.11 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**

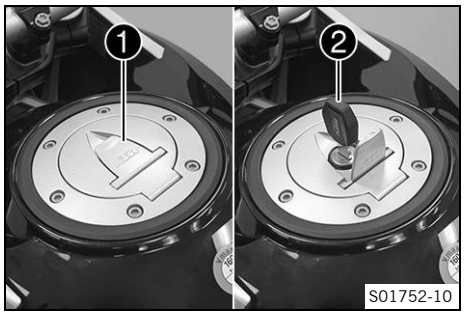
**Danger of poisoning** Fuel is poisonous and a health hazard.

- 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.

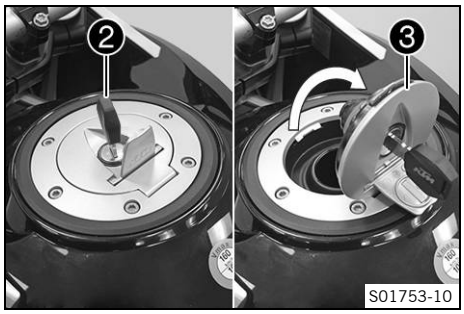
**Warning**

**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.




- Lift cover ❶ of the filler cap and insert ignition key ❷ in the fuel tank lock.




**Note**

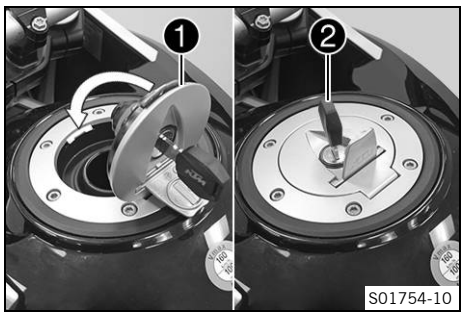
**Danger of damage** The ignition key may break if overloaded.

Damaged ignition keys must be replaced.

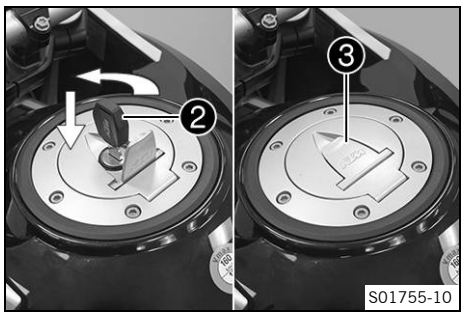
- Push down on the filler cap to take pressure off the ignition key.

- Turn ignition key ❷ clockwise.
- Fold open filler cap ❸.

## 3.12 Closing the filler cap




– Fold down filler cap ❶.
– Turn ignition key ❷ clockwise.




– Push down the filler cap and turn the ignition key ❷ counter-clockwise until the tank lock closes.

**Warning**
**Fire hazard** Fuel is highly flammable, toxic and a health hazard.
– Check the filler cap is locked correctly after closing.
– Change your clothing in case of fuel spills on them.
– Rinse the affected area immediately with plenty of water in the event of contact with the skin.

– Remove ignition key ❷ and close cover ❸.

## 3.13 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.

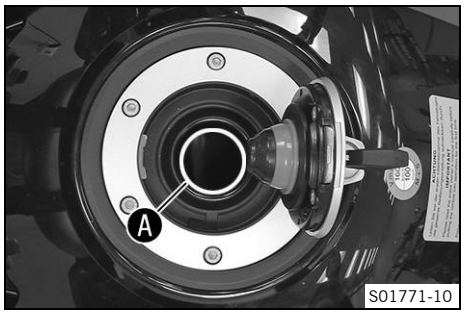
In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.

– 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.




– Switch off the engine.
– Open the filler cap. (📖 p. 14)
– Fill the fuel tank with fuel up to the lower edge Ⓐ of the filler neck.

| | | |
|---|---|---|
| Total fuel tank capacity, approx. | 23 l (6.1 US gal) | Super unleaded (ROZ 95/RON 95/PON 91) (📖 p. 20) |

– Close the filler cap. (📖 p. 15)

## 4.1 Chassis tightening torques

| | | |
|---|---|---|
| Nut, valve | ISO 10V2 | 12 Nm (8.9 lbf ft) **Loctite®2701™** |
| Screw, combination switch, left | M4 | 2 Nm (1.5 lbf ft) |
| Screw, side stand switch | M4 | 2 Nm (1.5 lbf ft) |
| Rear fairing screw | M5x12 | 3.5 Nm (2.58 lbf ft) |
| Rear fairing screw | M5x17 | 3.5 Nm (2.58 lbf ft) |
| Remaining nuts, chassis | M5 | 5 Nm (3.7 lbf ft) |
| Remaining screws, chassis | M5 | 5 Nm (3.7 lbf ft) |
| Screw brake line holder on frame | M5 | 2 Nm (1.5 lbf ft) |
| Screw, brake line holder on swingarm | M5 | 5 Nm (3.7 lbf ft) |
| Screw, cable channel | M5 | 5 Nm (3.7 lbf ft) |
| Screw, cable guide, wheel speed sensor, rear | M5 | 3 Nm (2.2 lbf ft) |
| Screw, chain sliding guard | M5 | 5 Nm (3.7 lbf ft) |
| Screw, combination switch, right | M5 | 3.5 Nm (2.58 lbf ft) |
| Screw, cover part | M5 | 3.5 Nm (2.58 lbf ft) |
| Screw, filler cap | M5 | 3 Nm (2.2 lbf ft) |
| Screw, foot brake lever stub | M5 | 6 Nm (4.4 lbf ft) **Loctite®243™** |
| Screw, fuel level sensor | M5 | 3 Nm (2.2 lbf ft) |
| Screw, heat guard on main silencer | M5 | 4 Nm (3 lbf ft) |
| Screw, wind shield | M5 | 3.5 Nm (2.58 lbf ft) |
| Spoke nipple | M5 | 5 Nm (3.7 lbf ft) |
| Ground fitting on frame | M6 | 6 Nm (4.4 lbf ft) |
| Nut, ABS module fastening | M6 | 8 Nm (5.9 lbf ft) |
| Remaining chassis nuts | M6 | 10 Nm (7.4 lbf ft) |
| Remaining chassis screws | M6 | 10 Nm (7.4 lbf ft) |
| Screw, angle sensor | M6 | 6 Nm (4.4 lbf ft) **Loctite®243™** |
| Screw, ball joint of push rod on foot brake cylinder | M6 | 10 Nm (7.4 lbf ft) **Loctite®243™** |
| Screw, battery terminal | M6 | 4.5 Nm (3.32 lbf ft) |
| Screw, cable channel | M6 | 5 Nm (3.7 lbf ft) |
| Screw, chain guide | M6 | 5 Nm (3.7 lbf ft) |
| Screw, clutch assembly | M6 | 5 Nm (3.7 lbf ft) |
| Screw, cooler retaining bracket | M6 | 7 Nm (5.2 lbf ft) |
| Screw, cover part | M6 | 6 Nm (4.4 lbf ft) |
| Screw, engine guard | M6 | 10 Nm (7.4 lbf ft) |
| Screw, exhaust clamp | M6 | 8 Nm (5.9 lbf ft) |
| Screw, foot brake cylinder | M6 | 10 Nm (7.4 lbf ft) **Loctite®243™** |
| Screw, front brake disc | M6 | 14 Nm (10.3 lbf ft) **Loctite®243™** |
| Screw, front wheel speed sensor | M6 | 10 Nm (7.4 lbf ft) |

| | | |
|---|---|---|
| Screw, fuel pump | M6 | 6 Nm (4.4 lbf ft) |
| Screw, fuel tank | M6 | 10 Nm (7.4 lbf ft) |
| Screw, fuel tap | M6 | 6 Nm (4.4 lbf ft) |
| Screw, headlight | M6 | 5 Nm (3.7 lbf ft) |
| Screw, lower rear part | M6 | 6 Nm (4.4 lbf ft) |
| Screw, magnetic holder on side stand | M6 | 6 Nm (4.4 lbf ft) **Loctite®243™** |
| Screw, rear brake disc | M6 | 14 Nm (10.3 lbf ft) **Loctite®243™** |
| Screw, retaining bracket, angle sensor | M6 | 10 Nm (7.4 lbf ft) **Loctite®243™** |
| Screw, voltage regulator | M6 | 6 Nm (4.4 lbf ft) |
| Screw, wheel speed sensor, rear | M6 | 10 Nm (7.4 lbf ft) |
| Remaining chassis nuts | M8 | 25 Nm (18.4 lbf ft) |
| Remaining chassis screws | M8 | 25 Nm (18.4 lbf ft) |
| Screw, bottom triple clamp | M8 | 12 Nm (8.9 lbf ft) |
| Screw, exhaust clamp | M8 | 25 Nm (18.4 lbf ft) |
| Screw, foot brake lever | M8 | 25 Nm (18.4 lbf ft) **Loctite®243™** |
| Screw, fork stub | M8 | 15 Nm (11.1 lbf ft) |
| Screw, front footrest bracket | M8 | 25 Nm (18.4 lbf ft) **Loctite®243™** |
| Screw, handle bar end hand guard | M8 | 25 Nm (18.4 lbf ft) |
| Screw, handlebar clamp | M8 | 20 Nm (14.8 lbf ft) |
| Screw, ignition lock (tamper-proof screw) | M8 | 25 Nm (18.4 lbf ft) **Loctite®243™** |
| Screw, rear footrest bracket | M8 | 25 Nm (18.4 lbf ft) **Loctite®243™** |
| Screw, steering damper | M8 | 25 Nm (18.4 lbf ft) **Loctite®243™** |
| Screw, steering damper clamp | M8 | 12 Nm (8.9 lbf ft) |
| Screw, steering stem | M8 | 20 Nm (14.8 lbf ft) |
| Screw, suitcase hook | M8 | 20 Nm (14.8 lbf ft) **Loctite®243™** |
| Screw, top triple clamp | M8 | 20 Nm (14.8 lbf ft) |
| Remaining chassis nuts | M10 | 45 Nm (33.2 lbf ft) |
| Remaining chassis screws | M10 | 45 Nm (33.2 lbf ft) |
| Screw, front brake caliper | M10 | 45 Nm (33.2 lbf ft) **Loctite®243™** |
| Screw, handlebar support | M10 | 40 Nm (29.5 lbf ft) **Loctite®243™** |
| Screw, side stand | M10 | 35 Nm (25.8 lbf ft) **Loctite®243™** |
| Screw, side stand bracket | M10 | 45 Nm (33.2 lbf ft) **Loctite®243™** |
| Banjo bolt, brake line | M10x1 | 25 Nm (18.4 lbf ft) |
| Nut, rear sprocket screw | M10x1.25 | 50 Nm (36.9 lbf ft) **Loctite®243™** |
| Lambda sensor | M12x1.25 | 25 Nm (18.4 lbf ft) |

| | | |
|---|---|---|
| Screw, bottom shock absorber | M14x1.5 | 80 Nm (59 lbf ft)<br>Thread greased |
| Screw, top shock absorber | M14x1.5 | 80 Nm (59 lbf ft)<br>Thread greased |
| Nut, swingarm pivot | M19x1.5 | 130 Nm (95.9 lbf ft)<br>Thread greased |
| Nut, seat lock | M22x1.5 | 4 Nm (3 lbf ft) |
| Screw, steering head, top | M22x1.5 | 18 Nm (13.3 lbf ft) |
| Nut, rear wheel spindle | M25x1.5 | 90 Nm (66.4 lbf ft)<br>Thread greased |
| Screw, front wheel spindle | M25x1.5 | 45 Nm (33.2 lbf ft)<br>Thread greased |

## 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).

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