

## 690 Duke

Art. no. 3214016en



**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.

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Issued by: TÜV Management Service

REG.NO. 12 100 6061

KTM Sportmotorcycle GmbH

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This document is valid for the following models:

690 Duke EU (F9703S4)



3214016en

10/2018

# 1 MEANS OF REPRESENTATION

## 1.1 Symbols used

The meaning of specific symbols is described below.



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



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



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



Indicates information with more details or tips.



Indicates the result of a testing step.



Indicates a voltage measurement.



Indicates a current measurement.



Indicates a resistance measurement.



Indicates the end of an activity including potential rework.

## 1.2 Formats used

The typographical formats used in this document are explained below.

**Proprietary name**

Indicates a proprietary name.

**Name®**

Indicates a protected name.

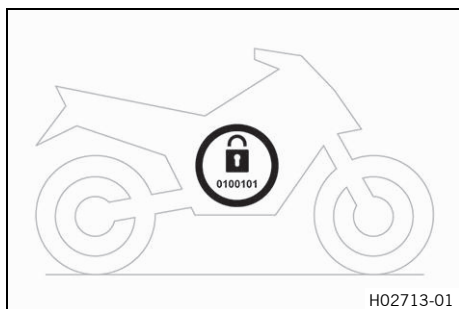
**Brand™**

Indicates a brand available on the open market.

**Underlined terms**

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

## 2.1 Transport mode



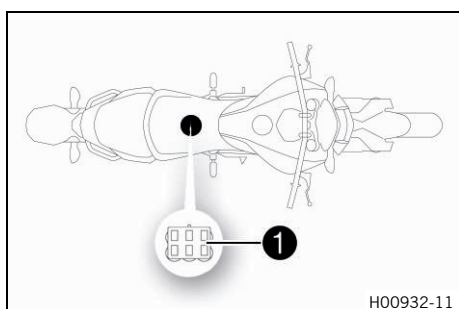
This vehicle was blocked for transport in the software. To operate the vehicle, the vehicle electronics must be enabled. This process is conducted during initial setup in KTM Dealer.net. Enabling ensures that the initial setup in KTM Dealer.net is documented.

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

### **i** Info

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

## 2.2 Diagnostics connector



Diagnostics connector **1** is located under the front rider's seat.

## 2.3 Unpacking and setting up the vehicle



- Remove the box and the plastic packaging.

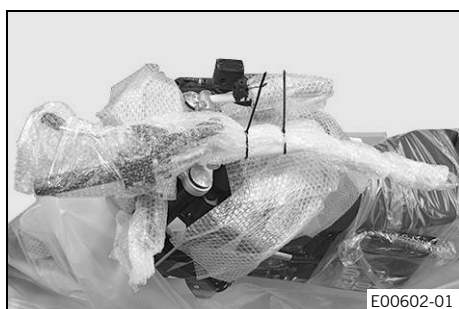
### **i** Info

To avoid damaging the motorcycle while mounting the handlebar, leave the film on the fuel tank until all of the work on the motorcycle has been finished.

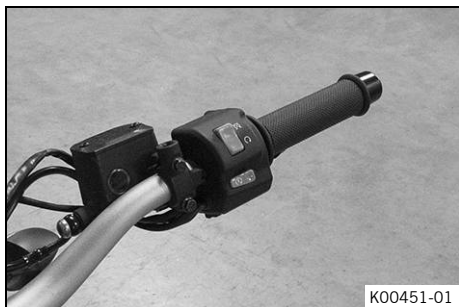
- Check the vehicle for transport damage.
- Unpack the separate enclosure and check its contents on the basis of the enclosure list.

### **i** Info

The procedure in the event of missing parts is described in the customer service manual.



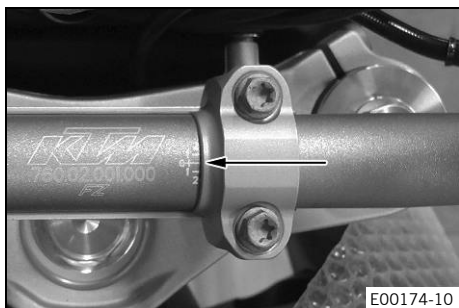
- Remove the controls from the transport holder. Remove the screws and handlebar clamps. Remove the transport holder.



- Remove the right-hand handlebar weight.
- Position the controls on the right half of the handlebar. Tighten the screws.

Guideline

|                      |    |                         |
|----------------------|----|-------------------------|
| Screw, throttle grip | M5 | 3.5 Nm<br>(2.58 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 handlebar.



### Info

Make sure the cables and wiring are positioned correctly.

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

Guideline

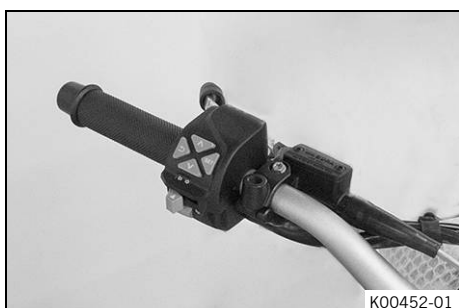
|                        |    |                     |
|------------------------|----|---------------------|
| Screw, handlebar clamp | M8 | 20 Nm (14.8 lbf ft) |
|------------------------|----|---------------------|



### Info

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

- Mount and tighten the right handlebar weight.
- Check the throttle grip for smooth operation.
- Position the controls on the left half of the handlebar.
- Position all controls in their exact positions on the handlebar. Tighten all screws.



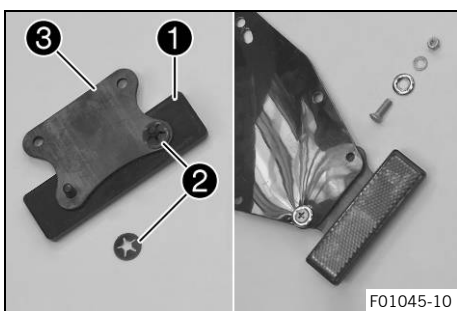


- Mount and tighten the rear mirror adapter and rear mirror on both sides.



- Mount the footrests with the springs and pins. Secure the pins with the lock rings.

Footrest spring plier (58429083000)



- Mount rear reflector ① with spring washers ② on holding plate ③.
- Mount the retaining plate on the license plate holder.
- Mount the license plate holder.
- Remove the protective film.
- 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.
- Together with an assistant, take the vehicle off the pallet.
- Remove the radiator shield.
- Remove the passenger seat. (📖 p. 7)
- Remove the spare key and **KEYCODECARD** keep in a safe place for the handover.
- Secure the tool set with rubber holders under the passenger seat.



### Warning

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

- Keep 12 V 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 12 V battery.
- Only charge 12 V 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.

- Fill the 12 V battery.



### Info

Read the notes in the 12 V battery accessory pack.

- Charge the 12-V battery. (📖 p. 7)
- Install the 12-V battery. (📖 p. 9)
- Refuel. (📖 p. 11)
- Check the headlight setting. (📖 p. 13)
- Prepare the vehicle according to the specifications in the **KTM Dealer.net** for handover to the customer.
- Set the kilometers or miles. (📖 p. 11)

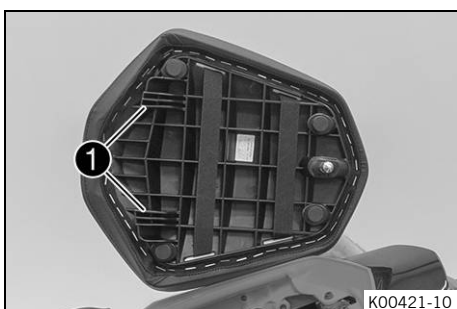


### 3.1 Removing the passenger seat



- Insert the ignition key in seat lock ❶ and turn it clockwise.
- Raise the rear of the passenger seat cover, push it toward the rear, and remove it upward.
- Remove the ignition key from the seat lock.

### 3.2 Mounting the passenger seat



- Hook holding lugs ❶ of the passenger seat onto the storage compartment, lower the rear and push forward.
- Press passenger seat downward until it clicks into place.



**Warning**

**Danger of accidents** The seat can come loose from the anchoring if it is not mounted correctly.

- After assembly, check whether the seat is correctly locked and cannot be pulled up.

- Finally, check that the passenger seat is correctly mounted.

### 3.3 Charging the 12-V battery



**Warning**

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

- Keep 12 V 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 12 V battery.
- Only charge 12 V 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.



**Note**

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

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



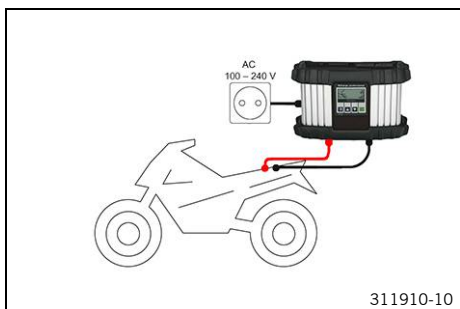
**Note**

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

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

**i Info**

Even when there is no load on the 12-V battery, it discharges steadily. The charging level and the method of charging are very important for the service life of the 12-V battery. Rapid recharging with a high charging current shortens the service life of the battery. If the charging current, charging voltage, or charging time is exceeded, electrolyte escapes through the safety valves. This reduces the capacity of the 12-V battery. If the 12-V battery is depleted by repeated starting, the 12-V battery must be charged immediately. If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and sulfating occurs, destroying the battery. The 12-V battery is maintenance-free. The acid level does not have to be checked.



**Preparatory work**

- Switch off the ignition by turning the ignition key to the position  $\otimes$ .
- Remove the passenger seat. (📖 p. 7)
- Disconnect the negative cable of the 12-V battery. (📖 p. 9)

**Main work**

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

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

**Alternative 1**

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

**Alternative 2**

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

**Alternative 3**

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

**i Info**

Follow the instructions of the charger and the manual.

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

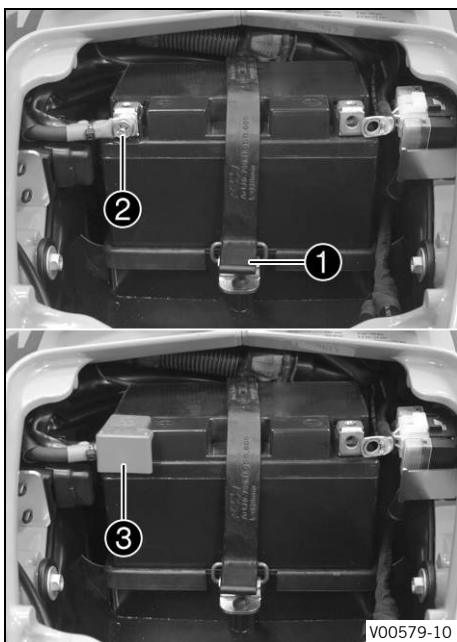
The charging current, charging voltage, and charging time must not be exceeded.

|   |          |
|---|----------|
| Recharge the 12-V battery regularly when the motorcycle is not being used | 3 months |
|---|----------|

**Finishing work**

- Connect the negative cable of the 12-V battery. (📖 p. 10)
- Mount the passenger seat. (📖 p. 7)
- Set the time and date. (📖 p. 10)

### 3.4 Installing the 12-V battery



**Main work**

- Position the 12-V battery in the battery compartment.

|                          |
|--------------------------|
| 12 V battery (HTZ12A-BS) |
|--------------------------|

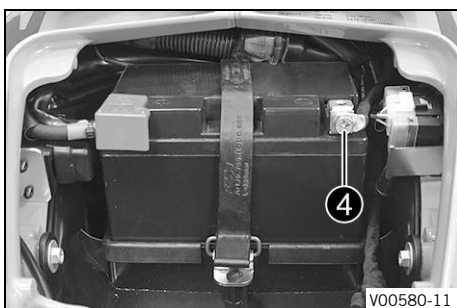
✓ The battery terminals face opposite the direction of travel.

- Attach rubber strap ①.
- Connect both positive cables ② to the 12 V battery.

**Guideline**

|                         |    |                   |
|-------------------------|----|-------------------|
| Screw, battery terminal | M6 | 2 Nm (1.5 lbf ft) |
|-------------------------|----|-------------------|

- Mount positive terminal cover ③.



- Connect negative cable ④ to the 12 V battery.

**Guideline**

|                         |    |                   |
|-------------------------|----|-------------------|
| Screw, battery terminal | M6 | 2 Nm (1.5 lbf ft) |
|-------------------------|----|-------------------|

**Finishing work**

- Mount the passenger seat. (📖 p. 7)
- Set the time and date. (📖 p. 10)

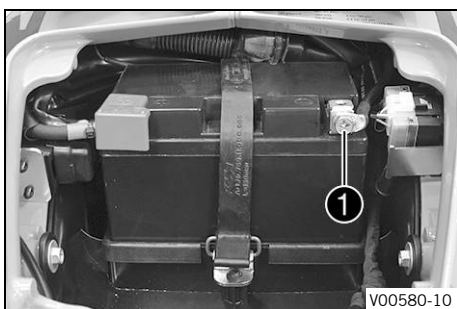
### 3.5 Disconnecting the negative cable of the 12-V battery

**Preparatory work**

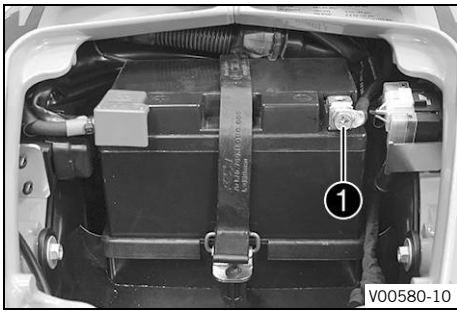
- Switch off the ignition by turning the ignition key to the position ☒.
- Remove the passenger seat. (📖 p. 7)

**Main work**

- Disconnect negative cable ① of the 12-V battery.



## 3.6 Connecting the negative cable of the 12-V battery



### Main work

- Connect negative cable ①. Tighten the screw.

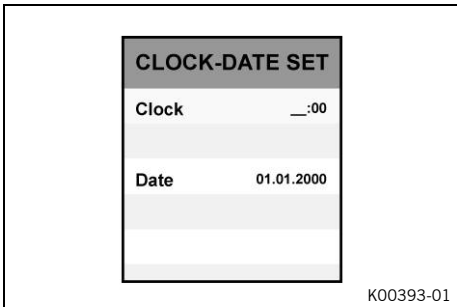
### Guideline

|                         |    |                   |
|-------------------------|----|-------------------|
| Screw, battery terminal | M6 | 2 Nm (1.5 lbf ft) |
|-------------------------|----|-------------------|

### Finishing work

- Mount the passenger seat. (📖 p. 7)
- Set the time and date. (📖 p. 10)

## 3.7 Setting the time and date



### Condition

The motorcycle is stationary.

- Press the **UP** or **DOWN** button until the "**Settings**" menu appears in the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until the "**Clock-date set**" menu is marked in the display. Pressing the **SET** button again sets the unit of measure.
- Press the **SET** button.
  - ✓ The hour next to "**Clock**" flashes.
- Press the **UP** or **DOWN** button until the current hour is set.
- Press the **SET** button.
  - ✓ The minute next to "**Clock**" flashes.
- Press the **UP** or **DOWN** button until the current minute is set.
- Press the **SET** button.
  - ✓ The day next to "**Date**" flashes.
- Press the **UP** or **DOWN** button until the current day is set.
- Press the **SET** button.
  - ✓ The month next to "**Date**" flashes.
- Press the **UP** or **DOWN** button until the current month is set.
- Press the **SET** button.
  - ✓ The year next to "**Date**" flashes.
- Press the **UP** or **DOWN** button until the current year is set.
- Press the **BACK** button.
  - ✓ Time and date are saved.

### 3.8 Setting the kilometers or miles



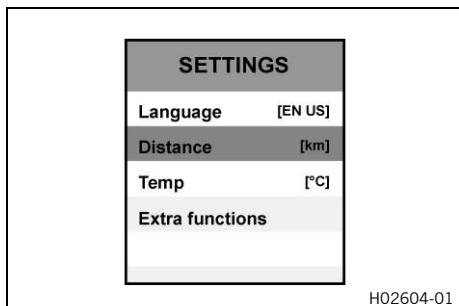
#### Info

If the unit is changed, the value is retained and converted accordingly. Make the setting according to the country.

#### Condition

The motorcycle is stationary.

- Press the **UP** or **DOWN** button until the "**Settings**" menu appears on the display. Pressing the **SET** button opens the menu.
- Press the **UP** or **DOWN** button until "**Distance**" is marked on the display. Pressing the **SET** button again sets the unit of measure.
- Select kilometers "**km**" or miles "**mi**" for the distance.



### 3.9 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.

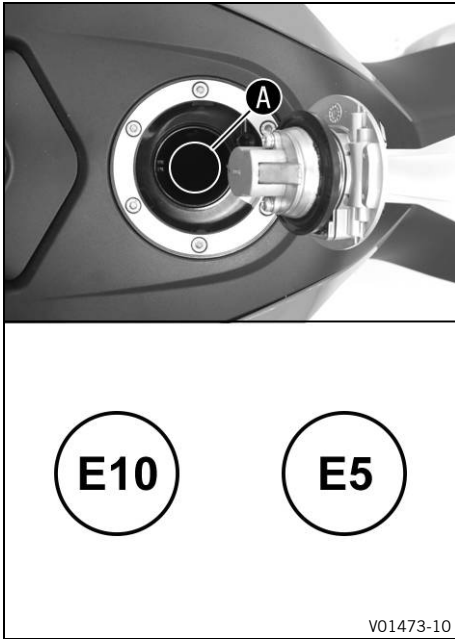
- Refuel only with clean fuel that meets the specified standards.



#### Note

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

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



- Switch off the engine.
- Open fuel tank filler cap. (📖 p. 12)
- Fill the fuel tank with fuel up to the lower edge **A** of the filler neck.

|                                   |                      |   |
|-----------------------------------|----------------------|---|
| Total fuel tank capacity, approx. | 14 l<br>(3.7 US gal) | Super unleaded<br>(ROZ 95/RON 95/PON 91)<br>(📖 p. 18) |
|-----------------------------------|----------------------|---|

- Close the fuel tank filler cap. (📖 p. 13)

## 3.10 Opening fuel tank filler cap



### Danger

**Fire hazard** Fuel is highly flammable.

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

- Do not 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.

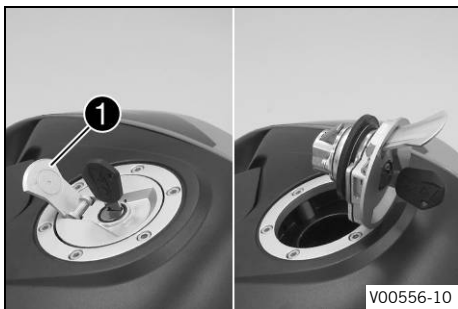
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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



### Note

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

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



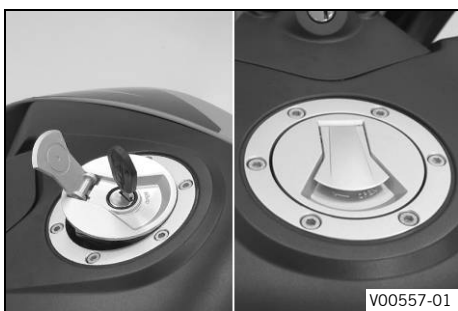
- Lift cover **1** of the fuel tank filler cap and insert the ignition key into the lock.

**Note**

**Danger of damage** The ignition key may break if overloaded. Damaged ignition keys must be replaced.

- Push down on the fuel tank filler cap to take pressure off the ignition key.
- Turn the ignition key 90° clockwise.
- Lift the fuel tank filler cap.

**3.11 Closing the fuel tank filler cap**



- Fold down the fuel tank filler cap.
- Turn the ignition key 90° clockwise.
- Push down the fuel tank filler cap and turn the ignition key counterclockwise until the lock closes.



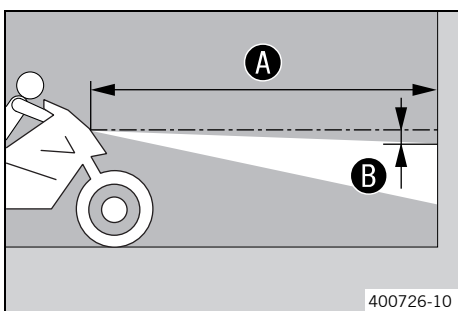
**Warning**

**Fire hazard** Fuel is highly flammable, toxic and a health hazard.

- Check that the fuel tank filler cap is locked correctly after closing.
- Change your clothing if fuel spills on them.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.

- Remove the ignition key and close the cover.

**3.12 Checking the headlight setting**



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

Guideline

|                   |             |
|-------------------|-------------|
| Distance <b>B</b> | 5 cm (2 in) |
|-------------------|-------------|

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

Guideline

|                   |             |
|-------------------|-------------|
| Distance <b>A</b> | 5 m (16 ft) |
|-------------------|-------------|

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

The light-dark boundary must be exactly on the lower marking when the motorcycle is ready to be operated 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. 14)

## 3.13 Adjusting the headlight range



### Preparatory work

- Check the headlight setting. (📖 p. 13)

### Main work

- Adjust the beam headlight range by turning screw ①.

#### Guideline

For a motorcycle with a rider, and any luggage and/or passenger, the light/dark boundary must be exactly on the lower marking (applied in: Checking the headlight setting).

#### Info

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



**4.1 Chassis tightening torques**

|  |      |                      |                     |
|--|------|----------------------|---------------------|
| Screw, headlight                                     | EJOT | 2 Nm (1.5 lbf ft)    |                     |
| Screw, side stand switch                             | M4   | 2 Nm (1.5 lbf ft)    | <b>Loctite®243™</b> |
| Remaining nuts, chassis                              | M5   | 4 Nm (3 lbf ft)      |                     |
| Remaining screws, chassis                            | M5   | 5 Nm (3.7 lbf ft)    |                     |
| Retaining clamp, brake line                          | M5   | 3 Nm (2.2 lbf ft)    |                     |
| SAS valve screw on frame                             | M5   | 4 Nm (3 lbf ft)      |                     |
| Screw, air filter box                                | M5   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, cable on starter motor                        | M5   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, combination instrument                        | M5   | 4 Nm (3 lbf ft)      |                     |
| Screw, combination switch, left                      | M5   | 1.5 Nm (1.11 lbf ft) |                     |
| Screw, combination switch, right                     | M5   | 3.5 Nm (2.58 lbf ft) |                     |
| Screw, foot brake lever stub                         | M5   | 6 Nm (4.4 lbf ft)    | <b>Loctite®243™</b> |
| Screw, fuel level sensor                             | M5   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, fuel tank cover                               | M5   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, headlight mask                                | M5   | 4 Nm (3 lbf ft)      |                     |
| Screw, heat guard                                    | M5   | 5 Nm (3.7 lbf ft)    | <b>Loctite®243™</b> |
| Screw, plastic clamp of brake line on fork leg       | M5   | 2 Nm (1.5 lbf ft)    |                     |
| Double-sided grub screw                              | M6   | 6 Nm (4.4 lbf ft)    | <b>Loctite®243™</b> |
| Nut, push rod, foot brake lever                      | M6   | 6 Nm (4.4 lbf ft)    |                     |
| Remaining nuts, chassis                              | M6   | 10 Nm (7.4 lbf ft)   |                     |
| Remaining screws, chassis                            | M6   | 10 Nm (7.4 lbf ft)   |                     |
| Screw, angle sensor                                  | M6   | 5 Nm (3.7 lbf ft)    |                     |
| Screw, ball joint of push rod on foot brake cylinder | M6   | 10 Nm (7.4 lbf ft)   | <b>Loctite®243™</b> |
| Screw, battery terminal                              | M6   | 2 Nm (1.5 lbf ft)    |                     |
| Screw, brake assembly                                | M6   | 5 Nm (3.7 lbf ft)    |                     |
| Screw, brake fluid reservoir for rear brake          | M6   | 5 Nm (3.7 lbf ft)    |                     |
| Screw, chain guard                                   | M6   | 4 Nm (3 lbf ft)      | <b>Loctite®243™</b> |
| Screw, chain sliding guard                           | M6   | 10 Nm (7.4 lbf ft)   | <b>Loctite®243™</b> |
| Screw, clutch assembly                               | M6   | 5 Nm (3.7 lbf ft)    |                     |
| Screw, control unit holder                           | M6   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, foot brake cylinder                           | M6   | 10 Nm (7.4 lbf ft)   | <b>Loctite®243™</b> |
| Screw, fuel pump                                     | M6   | 6 Nm (4.4 lbf ft)    |                     |
| Screw, fuel tank spoiler                             | M6   | 3 Nm (2.2 lbf ft)    |                     |
| Screw, lower radiator bracket                        | M6   | 5 Nm (3.7 lbf ft)    |                     |
| Screw, magnetic holder on side stand                 | M6   | 5 Nm (3.7 lbf ft)    | <b>Loctite®243™</b> |

## 4 TECHNICAL DATA

|  |       |   |
|--|-------|---|
| Screw, manifold clamp                            | M6    | 8 Nm (5.9 lbf ft)<br>Copper paste                               |
| Screw, seat lock                                 | M6    | 10 Nm (7.4 lbf ft)<br><b>Loctite® 222™</b>                      |
| Screw, tail light cover                          | M6    | 8 Nm (5.9 lbf ft)   |
| Screw, voltage regulator                         | M6    | 8 Nm (5.9 lbf ft)   |
| Screw, wheel speed sensor                        | M6    | 6 Nm (4.4 lbf ft)   |
| Nut, manifold on cylinder head                   | M8    | 20 Nm (14.8 lbf ft)<br>Copper paste                             |
| Nut, rear sprocket screw                         | M8    | 35 Nm (25.8 lbf ft)<br><b>Loctite®2701™</b>                     |
| Remaining nuts, chassis                          | M8    | 25 Nm (18.4 lbf ft)   |
| Remaining screws, chassis                        | M8    | 25 Nm (18.4 lbf ft)   |
| Screw, bottom triple clamp                       | M8    | 12 Nm (8.9 lbf ft)  |
| Screw, footrest bracket, rear                    | M8x30 | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, footrest bracket, rear                    | M8x50 | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, fork stub                                 | M8    | 15 Nm (11.1 lbf ft)   |
| Screw, front brake disc                          | M8    | 30 Nm (22.1 lbf ft)<br><b>Loctite®2701™</b>                     |
| Screw, front footrest bracket                    | M8    | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, handlebar clamp                           | M8    | 20 Nm (14.8 lbf ft)   |
| Screw, handrail                                  | M8x30 | Countersunk screw<br>18 Nm (13.3 lbf ft)<br><b>Loctite®243™</b> |
| Screw, handrail, cover                           | M8x20 | 18 Nm (13.3 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, ignition lock (tamper-proof screw)        | M8    | <b>Loctite®243™</b>   |
| Screw, license plate holder                      | M8    | 18 Nm (13.3 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, linkage bracket, front engine fixing arm  | M8    | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, main silencer holder                      | M8    | 25 Nm (18.4 lbf ft)   |
| Screw, rear brake disc                           | M8    | 30 Nm (22.1 lbf ft)<br><b>Loctite®2701™</b>                     |
| Screw, side stand bracket                        | M8    | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, spring holder plate on side stand bracket | M8    | 25 Nm (18.4 lbf ft)<br><b>Loctite®243™</b>                      |
| Screw, top triple clamp                          | M8    | 17 Nm (12.5 lbf ft)   |
| Engine carrying screw                            | M10   | 45 Nm (33.2 lbf ft)<br><b>Loctite®243™</b>                      |
| Remaining nuts, chassis                          | M10   | 45 Nm (33.2 lbf ft)   |
| Remaining screws, chassis                        | M10   | 45 Nm (33.2 lbf ft)   |
| Screw, foot brake lever                          | M10   | 25 Nm (18.4 lbf ft)   |
| Screw, handlebar support                         | M10   | 20 Nm (14.8 lbf ft)   |

|                                   |          |  |
|-----------------------------------|----------|--|
| Screw, side stand                 | M10      | 35 Nm (25.8 lbf ft)<br><b>Loctite®243™</b> |
| Screw, subframe                   | M10      | 45 Nm (33.2 lbf ft)<br><b>Loctite®243™</b> |
| Banjo bolt, brake line            | M10x1    | 25 Nm (18.4 lbf ft)                        |
| Screw, bottom shock absorber      | M10x1.25 | 50 Nm (36.9 lbf ft)<br><b>Loctite®243™</b> |
| Screw, front brake caliper        | M10x1.25 | 45 Nm (33.2 lbf ft)<br><b>Loctite®243™</b> |
| Screw, top shock absorber         | M10x1.25 | 50 Nm (36.9 lbf ft)<br><b>Loctite®243™</b> |
| Lambda sensor                     | M12x1.25 | 25 Nm (18.4 lbf ft)                        |
| Nut, angle lever to link fork     | M14x1.5  | 100 Nm (73.8 lbf ft)                       |
| Nut, frame to linkage lever       | M14x1.5  | 100 Nm (73.8 lbf ft)                       |
| Nut, linkage lever to rocker arm  | M14x1.5  | 100 Nm (73.8 lbf ft)                       |
| Nut, swingarm pivot               | M16x1.5  | 100 Nm (73.8 lbf ft)                       |
| Screw, steering head              | M20x1.5  | 40 Nm (29.5 lbf ft)                        |
| Adjusting ring, link fork bearing | M24x1.5  | 25 Nm (18.4 lbf ft)                        |
| Screw, front wheel spindle        | M24x1.5  | 45 Nm (33.2 lbf ft)                        |
| Nut, rear wheel spindle           | M25x1.5  | 90 Nm (66.4 lbf ft)                        |
| Nut, steering head                | M28x1    | 12 Nm (8.9 lbf ft)                         |

### 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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10/2018

