

## 1290 Super Duke R

Art. no. 3213804en



**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

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This document is valid for the following models:

1290 Super Duke R EU (F9903R9, F9903R2)

1290 Super Duke R JP (F9986R2)

1290 Super Duke R US (F9975R9, F9975R2)



# 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

### Preparatory work

- Remove the box.

### Main work

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



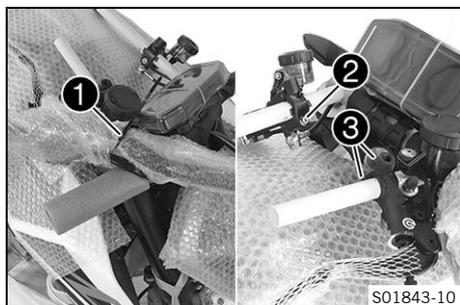
- Roll down the film at the sides.



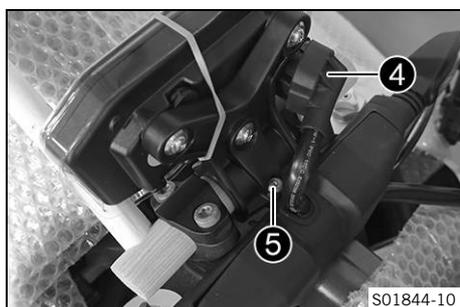
### Info

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

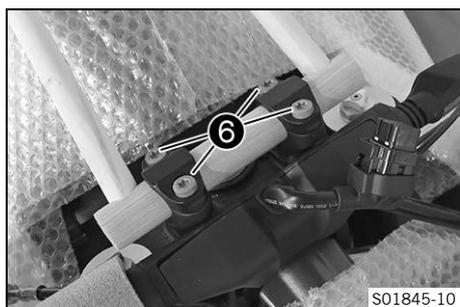
- Remove the separate enclosure and unpack it. Check the separate enclosure for completeness.
- Check the vehicle for transport damage.
- Remove cable tie(s) ①.
- Remove screws ② and ③.
- Take off the controls from the transport holder.



- Disconnect connector ④.
- Remove screw ⑤.
- Take off the combination instrument support from the transport holder.



- Remove the handlebar clamp screws ⑥.
- Take off the handlebar clamp and transport holder.
- Remove packaging on the right turn signal.





- Position the handlebar.
  - ✓ The markings of the handlebar scale are located centrally between the handlebar clamp.
- Position the handlebar clamp. Mount and tighten the screws evenly.

Guideline

Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
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- Position brake assembly on the handlebar.
- Position brake assembly clamp on the handlebar.
  - ✓ Clamp catch engages in the combination switch.
- Mount and tighten screws **7**.

Guideline

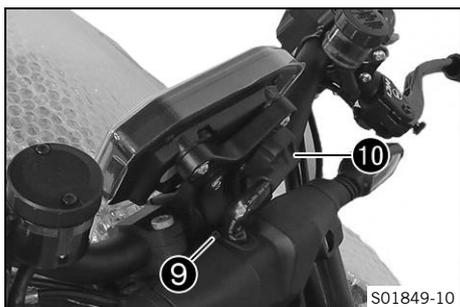
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Position clutch assembly on the handlebar.
- Mount and tighten screw **8**.

Guideline

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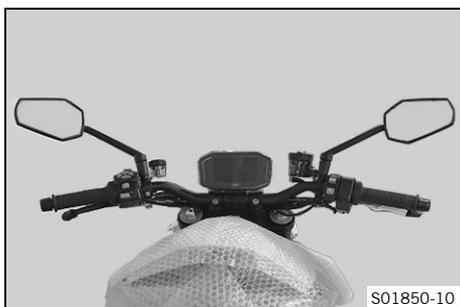


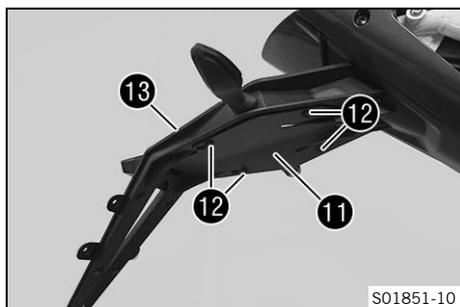
- Position the combination instrument support on the handlebar.
- Mount screw **9** but do not tighten yet.
- Move the combination instrument into the desired position.
- Tighten screw **9**.

Guideline

Screw, combination instrument clamping	M6	2 Nm (1.5 lbf ft)
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- Plug in the connector **10** with sleeve.
- Mount and tighten the rear mirror on both sides.

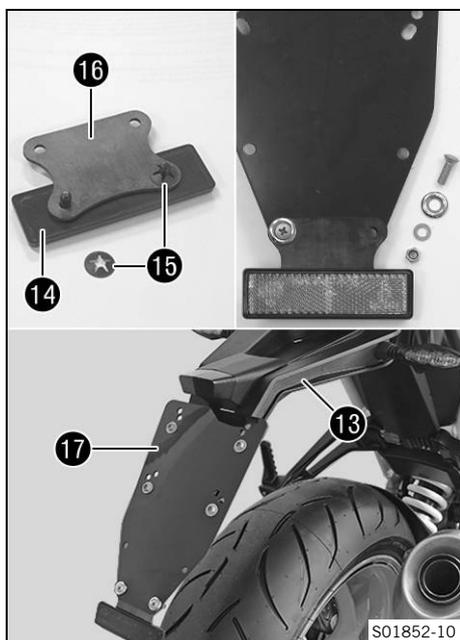




- Mount splash protector 11 with screws 12 on license plate holder 13.

Guideline

Remaining screws, chassis	<b>EJOT PT®</b> K50x12	1 Nm (0.7 lbf ft)
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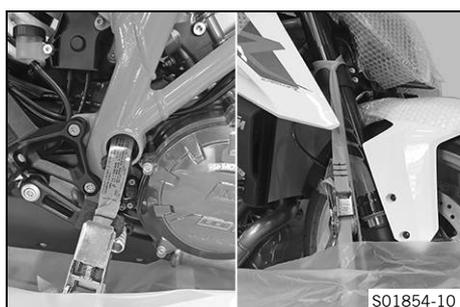
- Mount reflector 14 with spring washers 15 on holding plate 16.
- Mount holding plate 16 on license plate bracket 17.

**(All EU/JP models)**

- Mount license plate bracket 17 on license plate holder 13.

**(1290 Super Duke R US)**

- Bond the reflectors on the right and left side of the reflector holder.
- Mount the reflector holder and license plate bracket 17 on license plate holder 13.

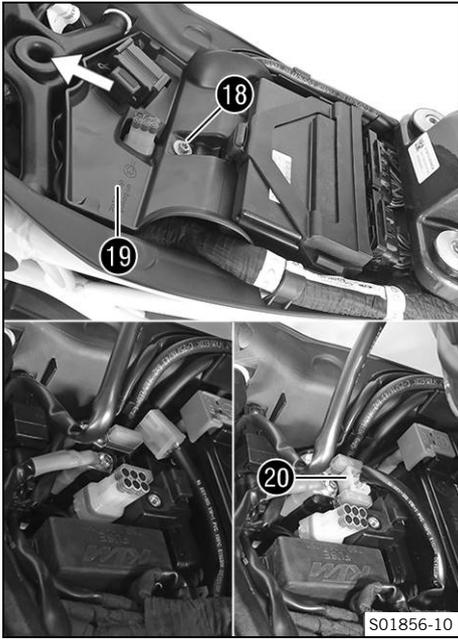


- Carefully loosen and remove the tension belt from the frame.

**i Info**

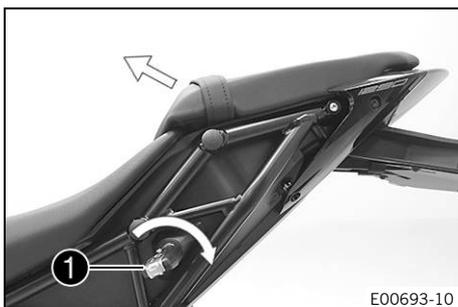
An assistant prevents the motorcycle from falling over.

- Carefully loosen and remove the tension belts around the fork legs.
- ✓ The vehicle is released at the front.
- Together with an assistant, take the vehicle off the pallet.
- Remove the radiator shield.



- Take off the passenger seat. (📖 p. 7)
- Remove the front rider's seat. (📖 p. 7)
- Remove the black ignition key and **KEYCODECARD** and keep in a safe place for the handover.
- Remove screw 18.
- Lift cover 19 at the rear and pull toward the rear.
- Fold up the cover.
- Plug in the connector of starter relay 20.
- Recharge the battery. (📖 p. 12)
- Remove the protective film.
- Refuel. (📖 p. 13)
- Prepare the vehicle according to the specifications in the **KTM Dealer.net** for handover to the customer.

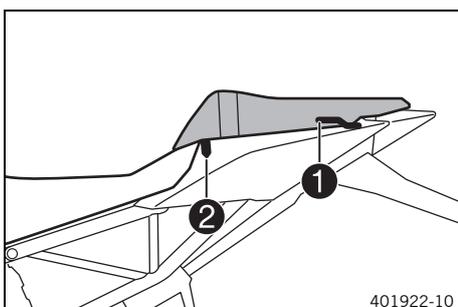
## 3.1 Removing the passenger seat



- Insert the Race-on key or the black ignition key into the seat lock ❶ and turn clockwise.
- Lift the passenger seat at the front and pull it out of the bracket toward the front.
- Take off the passenger seat.
- Remove the key.



## 3.2 Mounting the passenger seat



- Attach the recesses of the passenger seat in guides ❶ and lower the front of the seat while pushing it back.
- Position locking pin ❷ in the lock housing and push the passenger seat down at the front.
- ✓ The locking pin engages with an audible click.
- Check that the passenger seat is correctly mounted.



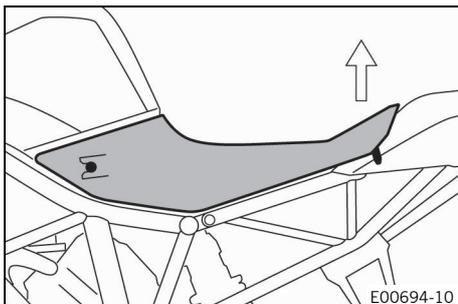
## 3.3 Removing the front rider's seat

### Preparatory work

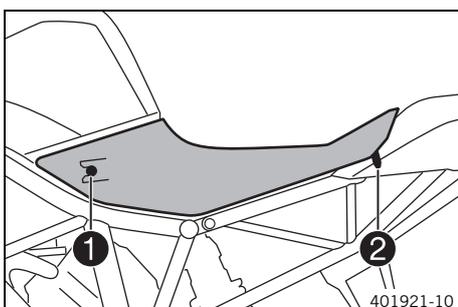
- Take off the passenger seat. (📖 p. 7)

### Main work

- Lift the rear of the front rider's seat.
- Detach the front of the front rider's seat and take it off.



## 3.4 Mounting the front rider's seat



### Main work

- Attach recesses ❶ on the front rider's seat to the fuel tank and push the front rider's seat forward while lowering it.
- ✓ Catch ❷ is located in the recess.
- Check that the front rider's seat is mounted correctly.

### Finishing work

- Mount the passenger seat. (📖 p. 7)



## 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.

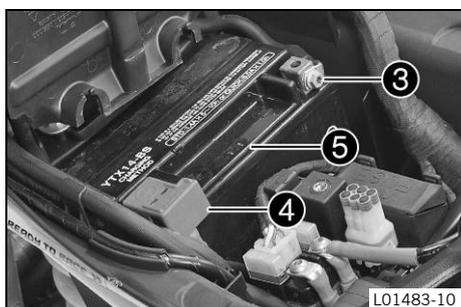
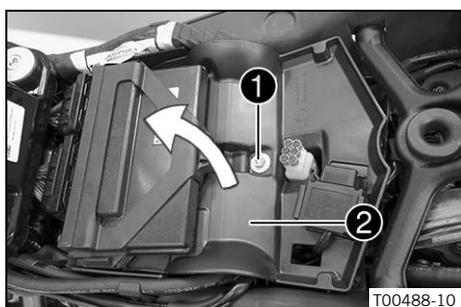
- Never operate the vehicle with a discharged battery or without a battery.

**Preparatory work**

- Switch off ignition - to do this briefly press the Race-on button  (maximum of 1 second) with the ignition switched on.
- Take off the passenger seat. ( p. 7)
- Remove the front rider's seat. ( p. 7)

**Main work**

- Remove screw **1**.
- Lift cover **2** at the rear and pull toward the rear.
- Fold up the cover.



- Disconnect negative cable **3** from the battery.
- Remove positive terminal cover **4** and disconnect the positive cable from the battery.
- Take the battery **5** out of the battery compartment.

3.6 Installing the battery



**Warning**

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

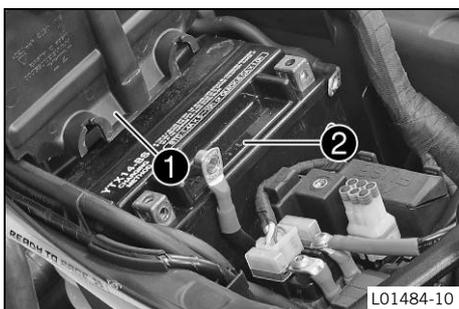
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with 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.

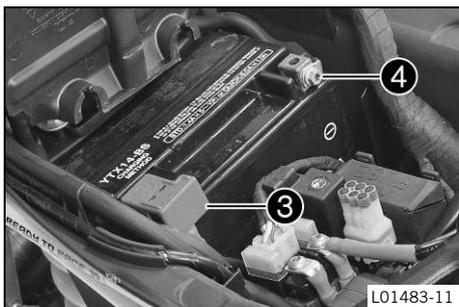
- Never operate the vehicle with a discharged battery or without a battery.



**Main work**

- Fold up cover ①.
- Place battery ② in the battery compartment.

Battery (YTX14-BS)



- Position the positive cable and mount and tighten the screw.

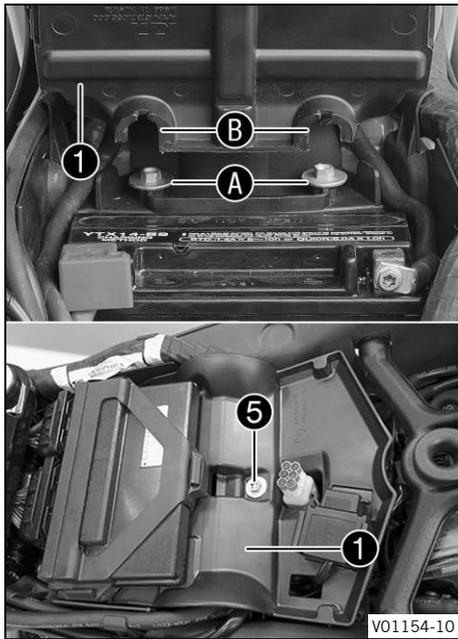
Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
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- Mount positive terminal cover ③.
- Position negative cable ④; mount and tighten the screw.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
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- Position cover ①.
- ✓ Screw heads ① engage in recesses ②.
- Mount and tighten screw ③.

### Finishing work

- Mount the front rider's seat. (📖 p. 7)
- Mount the passenger seat. (📖 p. 7)
- Set the time and date.

## 3.7 Disconnecting the negative cable of 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.



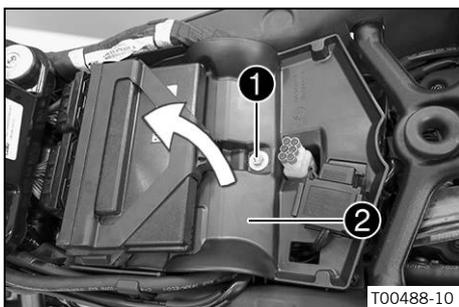
### Caution

**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.

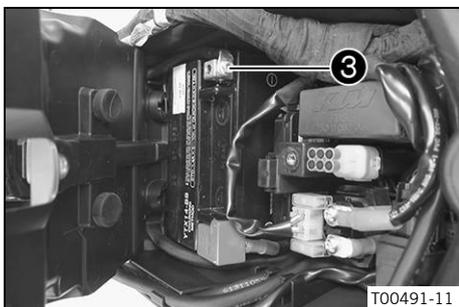
### Preparatory work

- Switch off ignition - to do this briefly press the Race-on button (📖) (maximum of 1 second) with the ignition switched on.
- Take off the passenger seat. (📖 p. 7)
- Remove the front rider's seat. (📖 p. 7)



**Main work**

- Remove screw ①.
- Lift cover ② at the rear and pull toward the rear.
- Fold up the cover.



- Disconnect negative cable ③ from the battery.

**3.8 Connecting the negative cable of the battery**



**Warning**

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

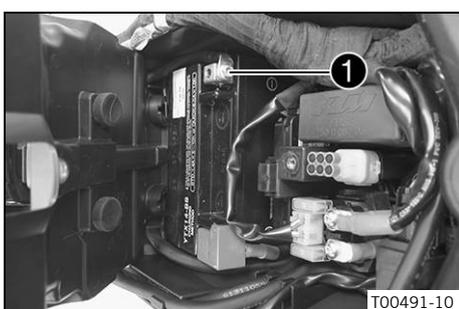
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with 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.

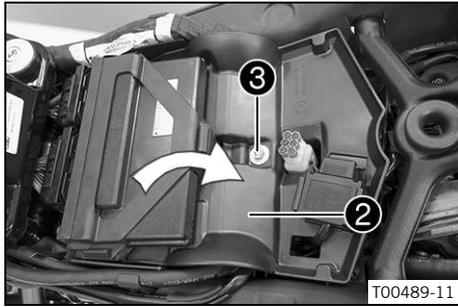


**Main work**

- Position negative cable ①; mount and tighten the screw.

Guideline

Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
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- Fold down cover ②.
- Mount and tighten screw ③.

Guideline

Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
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### Finishing work

- Mount the front rider's seat. (📖 p. 7)
- Mount the passenger seat. (📖 p. 7)
- Set the time and date.

## 3.9 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.



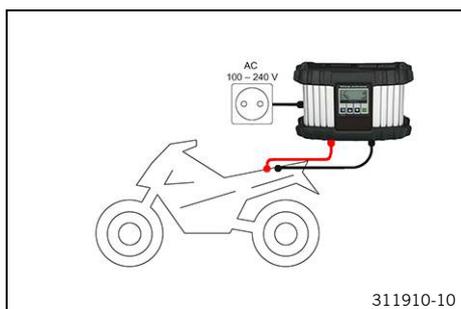
### Info

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 ignition - to do this briefly press the Race-on button (🔌) (maximum of 1 second) with the ignition switched on.
- Take off the passenger seat. (📖 p. 7)

- Remove the front rider's seat. (🔧 p. 7)
- Disconnect the negative cable of 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**

- Connect the negative cable of the battery. (🔧 p. 11)
- Mount the front rider's seat. (🔧 p. 7)
- Mount the passenger seat. (🔧 p. 7)
- Set the time and date.

**3.10 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.

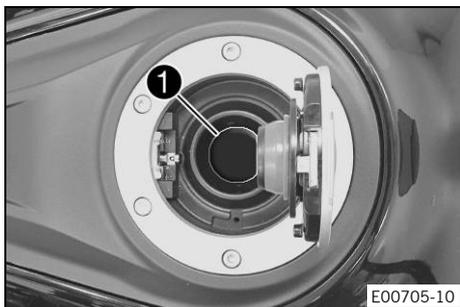
- Refuel only with clean fuel that meets the specified standards.



## 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 **A** of the filler neck.

Total fuel tank capacity, approx.	18 l (4.8 US gal)	Super unleaded (ROZ 95/RON 95/PON 91) (📖 p. 21)
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- Close the filler cap. (📖 p. 15)

## 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.
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- 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.

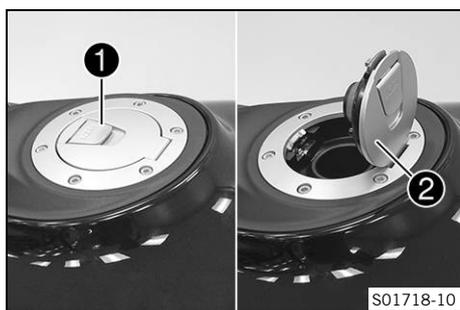
- Do not allow fuel to enter the groundwater, the soil, or the sewage system.

**Condition**

The motorcycle is stationary.

The engine is switched off.

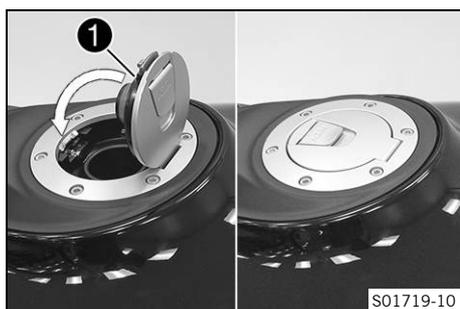
The ignition has been switched on or off for less than 1 minute.



- Fold up cover ❶ slowly.
- ✓ The filler cap unlocks.
- Fold open filler cap ❷.



**3.12 Closing the filler cap**



**Warning**

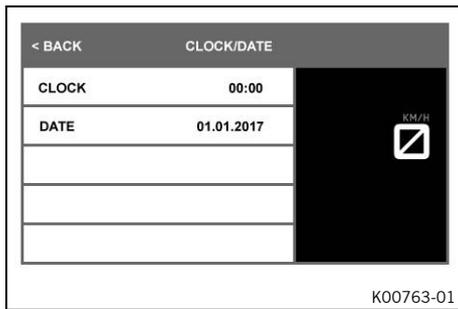
**Fire hazard** Fuel is highly flammable, toxic and a health hazard.

- 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.

- Fold down the filler cap ❶ and push it down.
- ✓ The filler cap locks audibly in place.



## 3.13 Clock/Date

**Condition**

- The motorcycle is stationary.
- Press the **SET** button when the menu is closed.
- Press the **UP** or **DOWN** button until the **Settings** menu is marked on the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button until **Clock/Date** is marked on the display. Press the **SET** button to open the menu.
- Press the **UP** or **DOWN** button to set the clock and confirm with the **SET** button.
- Press the **UP** or **DOWN** button to set the date and confirm with the **SET** button.

If the battery has been disconnected, the time and date must be set.

**Info**

If the battery has been disconnected, the software version is also displayed.

**4.1 Chassis tightening torques**

Remaining screws, chassis	<b>EJOT PT®</b> K50x12	1 Nm (0.7 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x14	1 Nm (0.7 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x16	2 Nm (1.5 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K50x18	2 Nm (1.5 lbf ft)
Remaining screws, chassis	<b>EJOT PT®</b> K45x12	1 Nm (0.7 lbf ft)
Screw, air filter box cover	<b>EJOT PT®</b> K60	2 Nm (1.5 lbf ft)
Screw, combination switch, left		5 Nm (3.7 lbf ft)
Screw, fastening, flue exhaust valve cover	<b>EJOT SF®</b> M4x6-K	4 Nm (3 lbf ft)
Screw, fuel tank cover, quick connect nipple	<b>EJOT PT®</b> K60	2 Nm (1.5 lbf ft)
Screw, tail light	<b>EJOT PT®</b> K50x14	2.5 Nm (1.84 lbf ft)
Screw, fixed grip, left	M4	2 Nm (1.5 lbf ft)
Screw, side stand switch	M4	2 Nm (1.5 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw for throttle grip	M5	3.5 Nm (2.58 lbf ft)
screw, absorbing element, combination instrument	M5	2 Nm (1.5 lbf ft) <b>Loctite®243™</b>
Screw, cable channel	M5	5 Nm (3.7 lbf ft)
Screw, chain sliding guard	M5	5 Nm (3.7 lbf ft)
Screw, combination instrument	M5	3.5 Nm (2.58 lbf ft)
Screw, combination switch, right	M5	5 Nm (3.7 lbf ft)
Screw, filler cap	M5	3 Nm (2.2 lbf ft)
Screw, front turn signal bracket	M5	3 Nm (2.2 lbf ft)
Screw, fuel level indicator	M5	3 Nm (2.2 lbf ft)
Screw, rear turn signal bracket	M5	3 Nm (2.2 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screw, trim	M5x12	3.5 Nm (2.58 lbf ft)
Cable disk nut, exhaust valve control unit	M6	14 Nm (10.3 lbf ft)
Ground fitting on frame	M6	10 Nm (7.4 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, ABS unit fastening	M6	5 Nm (3.7 lbf ft)
Screw, ball joint of push rod on foot brake cylinder	M6	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Screw, battery terminal	M6	4.5 Nm (3.32 lbf ft)
Screw, clutch assembly	M6	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Screw, connecting piece, rear brake line	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, cooler retaining bracket	M6	7 Nm (5.2 lbf ft)

## 4 TECHNICAL DATA

Screw, exhaust clamp on main silencer	M6	8 Nm (5.9 lbf ft)
Screw, exhaust clamp on manifold	M6	8 Nm (5.9 lbf ft)
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, front wheel speed sensor	M6	4 Nm (3 lbf ft)
Screw, fuel pump	M6	6 Nm (4.4 lbf ft)
Screw, instrument support	M6	2 Nm (1.5 lbf ft)
Screw, license plate holder on lower rear panel	M6	12 Nm (8.9 lbf ft)
Screw, radiator hose clip	M6	3 Nm (2.2 lbf ft)
Screw, sensor box	M6	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, shift lever stub	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, shift rod	M6	5 Nm (3.7 lbf ft) <b>Loctite®243™</b>
Screw, shift shaft deflector on shift shaft	M6	18 Nm (13.3 lbf ft) <b>Loctite®243™</b>
Screw, side stand stub	M6	6 Nm (4.4 lbf ft) <b>Loctite®243™</b>
Screw, steering damper, holder, on frame	M6	8 Nm (5.9 lbf ft) <b>Loctite®243™</b>
Screw, step plate for foot brake lever	M6	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, wheel speed sensor, rear	M6	4 Nm (3 lbf ft)
Nut, exhaust valve throttle cable	M6x1	5 Nm (3.7 lbf ft)
Cable disk nut, exhaust valve	M8	7 Nm (5.2 lbf ft)
Nut, rear sprocket	M8	36 Nm (26.6 lbf ft)
Nut, shift rod	M8	12 Nm (8.9 lbf ft)
Nut, valve (1290 Super Duke R JP)	M8	4 Nm (3 lbf ft)
Nut, valve (1290 Super Duke R EU, 1290 Super Duke R US)	M8	6 Nm (4.4 lbf ft)
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, axle clamp	M8	15 Nm (11.1 lbf ft)
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)
Screw, foot brake lever	M8	20 Nm (14.8 lbf ft) <b>Loctite®243™</b>
Screw, front brake disc	M8	30 Nm (22.1 lbf ft) <b>Loctite®2701™</b>
Screw, front rider footrest bracket	M8	25 Nm (18.4 lbf ft) <b>Loctite®243™</b>
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
Screw, ignition lock (tamper-proof screw)	M8	25 Nm (18.4 lbf ft)

Screw, rear brake caliper	M8	25 Nm (18.4 lbf ft) <b>Loctite®2701™</b>
Screw, rear brake disc	M8	30 Nm (22.1 lbf ft) <b>Loctite®243™</b>
Screw, shift lever on footrest bracket	M8	20 Nm (14.8 lbf ft) <b>Loctite®243™</b>
Screw, shift shaft deflector on frame	M8	10 Nm (7.4 lbf ft) <b>Loctite®243™</b>
Screw, side stand bracket	M8	25 Nm (18.4 lbf ft) <b>Loctite®243™</b>
Screw, side stand spring	M8	15 Nm (11.1 lbf ft) <b>Loctite®2701™</b>
Screw, steering damper on holder	M8	8 Nm (5.9 lbf ft) <b>Loctite®243™</b>
Screw, steering damper on triple clamp	M8	8 Nm (5.9 lbf ft) <b>Loctite®243™</b>
Screw, steering stem clamp	M8	20 Nm (14.8 lbf ft) <b>Loctite®243™</b>
Screw, top triple clamp	M8	18 Nm (13.3 lbf ft)
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)
Screw, engine bearer	M10	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
Screw, front brake caliper	M10	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
Screw, handlebar support	M10	40 Nm (29.5 lbf ft) <b>Loctite®243™</b>
Screw, side stand	M10	35 Nm (25.8 lbf ft) <b>Loctite®243™</b>
Screw, side stand bracket	M10	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
Screw, side stand retaining plate	M10	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
Banjo bolt, brake line	M10x1	25 Nm (18.4 lbf ft)
Banjo bolt, brake line, connecting piece, rear	M10x1	15 Nm (11.1 lbf ft)
Nut, rear hub shock absorber carrier	M10x1.25	45 Nm (33.2 lbf ft) <b>Loctite®243™</b>
Lambda sensor	M12x1.25	25 Nm (18.4 lbf ft)
Screw, bottom shock absorber	M14x1.5	80 Nm (59 lbf ft) Thread greased
Screw, top shock absorber	M14x1.5	80 Nm (59 lbf ft) Thread greased
Screw, eccentric	M16	70 Nm (51.6 lbf ft)
Nut, swingarm pivot	M19x1.5	130 Nm (95.9 lbf ft) Thread greased
Nut, seat lock	M22x1.5	4 Nm (3 lbf ft)
Screw, front wheel spindle	M25x1.5	45 Nm (33.2 lbf ft) Thread greased
Screw, steering head, top	M25x1.5	18 Nm (13.3 lbf ft)

## 4 TECHNICAL DATA

Nut, rear axle, shock absorber side	M35x1.5	200 Nm (147.5 lbf ft) <b>Loctite® 262™</b> /lock the locking wire with locking varnish
Nut, rear axle	M50x1.5	250 Nm (184.4 lbf ft) Thread greased/lock locking wire with locking varnish

**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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