

125 Duke EU
125 Duke DE
200 Duke EU

Art. no. 3211886en



KTM

The work described in these setup instructions must be performed before the vehicle is delivered to the customer.

Read the setup instructions in their entirety before beginning work.

Print out the current **PDI** form found on the **KTM DEALER.NET**.

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 AG 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, as well as misprints and other errors. The models portrayed partly contain special equipment that does not belong to the regular scope of delivery.

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ISO 9001(12 100 6061)

According to the international quality management standard ISO 9001, KTM uses quality assurance processes that lead to the maximum possible quality of the products.

Issued by: TÜV Management Service

REG.NO. 12 100 6061

KTM-Sportmotorcycle AG
5230 Mattighofen, Austria

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.



Denotes a voltage measurement.



Denotes a current measurement.



Denotes a resistance measurement.

1.2 Formats used

The typographical formats used in this document are explained below.

Proprietary name Identifies a proprietary name.

Name[®] Identifies a protected name.

Brand[™] Identifies a trademark.

2.1 Unpacking and setting up the vehicle

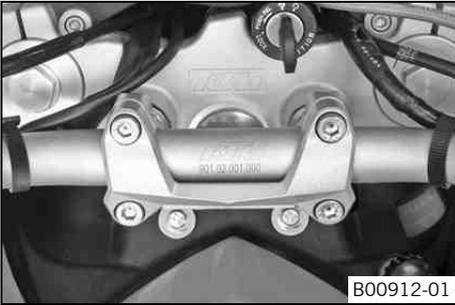


- Remove the box and the plastic packaging.



Info

To avoid damaging the motorcycle during the setup, leave the protective film on the vehicle until you have finished.

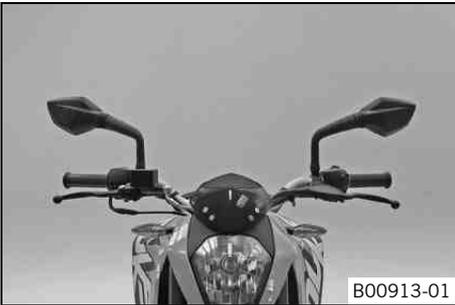


- Check the vehicle for transport damage.
- Unpack the separate enclosure and check its contents on the basis of the enclosure list.

- Position the handlebar.
 - ✓ The lettering on the handlebar should be situated in the middle of the handlebar clamp.
- Position the handlebar clamps. Mount the four screws and tighten evenly.

Guideline

| | | |
|------------------------|----|------------------------|
| Screw, handlebar clamp | M8 | 21 Nm (15.5 lbf ft) |
|------------------------|----|------------------------|



- Mount and tighten the rear mirror on both sides.
- Position all controls in their exact positions on the handlebar. Tighten all screws.



- Mount the reflector.
- Remove the protective plastic.
- Carefully loosen and remove the tensioning belt over the swingarm.



Info

An assistant prevents the motorcycle from falling over.

- Carefully loosen and remove the tensioning belts around the lower triple clamp.
 - ✓ The vehicle is released at the front.
- Take the vehicle off the pallet.



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 goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.

- Fill the battery.



Info

Read the notes in the battery package.

- Recharge the battery. (☛ p. 6)
- Install the battery. (☛ p. 7)
- Refuel. (☛ p. 9)

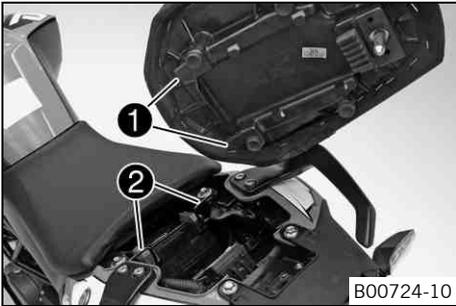
- Print out the current **PDI** form found on **KTM DEALER.NET** and perform the delivery inspection.
- Set kilometers or miles. (☛ p. 9)
- Set the clock. (☛ p. 9)

3.1 Removing the passenger seat



- Insert the ignition key in seat lock ❶ and turn it clockwise.
- Raise the rear of the seat, push it towards the rear, and remove it upwards.
- Remove the ignition key from the seat lock.

3.2 Mounting the passenger seat



- Attach hooks ❶ on the passenger seat to brackets ❷ on the subframe, and lower it at the rear while pushing forward.
- Press down the passenger seat until it clicks into place.



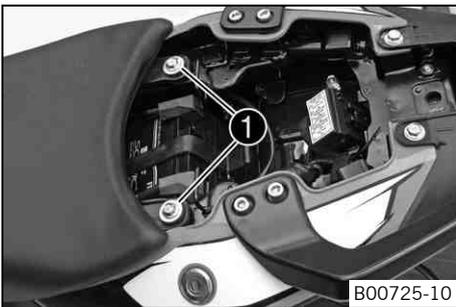
Warning

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

- After mounting the passenger seat, check that it is locked correctly by pulling up.

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

3.3 Removing the seat



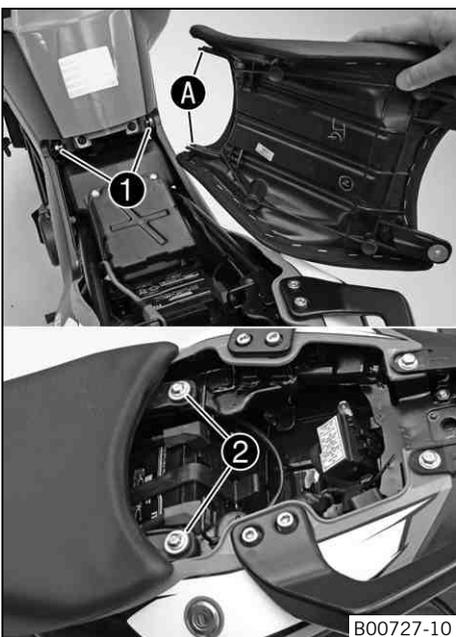
Preparatory work

- Remove the passenger seat. (☛ p. 5)

Main work

- Remove screws ❶.
- Raise the rear of the seat, pull it towards the rear, and remove it upwards.

3.4 Mounting the seat



Main work

- Attach seat recesses A at screws ❶ and lower at the rear.
- Mount and tighten screws ❷.

Guideline

| | | |
|-------------|----|--------------------|
| Screw, seat | M6 | 11 Nm (8.1 lbf ft) |
|-------------|----|--------------------|

Finishing work

- Mount the passenger seat. (☛ p. 5)

3.5 Removing the battery**Warning**

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

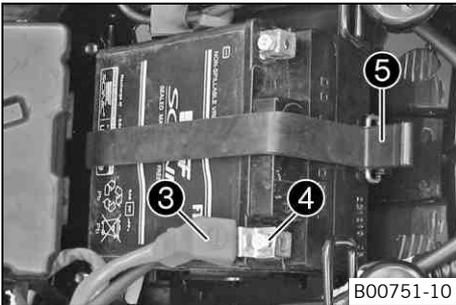
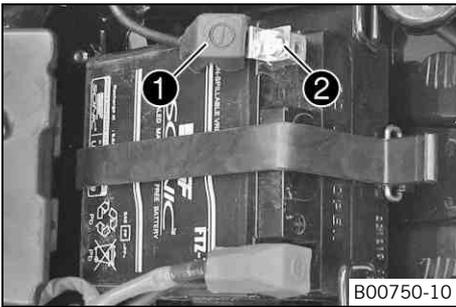
- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.

Preparatory work

- Remove the passenger seat. (☛ p. 5)
- Remove the seat. (☛ p. 5)

Main work

- Pull back the negative terminal cover ❶.
- Disconnect the negative cable ❷ of the battery.



- Pull back the positive terminal cover ❸.
- Disconnect the positive cable ❹ of the battery.
- Detach rubber band ❺.
- Pull the battery up and out of the battery rack.

**Info**

Never operate the motorcycle with a discharged battery or without a battery. In both cases, electrical components and safety devices can be damaged. The vehicle is therefore no longer roadworthy.

3.6 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 goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open flames. Charge only in well-ventilated areas.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a physician.

**Warning**

Environmental hazard The battery contains elements that are harmful to the environment.

- Do not discard batteries with the household trash. Dispose of a defective battery in an environmentally compatible manner. Give the battery to your KTM dealer or to a recycling center that accepts used batteries.

i Info

Even when there is no load on the battery, it still loses power steadily.
 The charge state and the type of charge are very important for the service life of the battery.
 Rapid recharging with a high charging current shortens the battery's service life.
 If the charging current, charging voltage, and charging time are exceeded, electrolyte escapes through the safety valves. This reduces the battery capacity.
 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 sulfate, destroying the battery.
 The battery is maintenance-free, which means that the acid level does not need to be checked.

Preparatory work

- Switch off all power consumers and switch off the engine.
- Remove the passenger seat. (☛ p. 5)
- Remove the seat. (☛ p. 5)
- Disconnect the negative cable of the battery to avoid damage to the motorcycle's electronics.

Main work

- Connect the battery charger to the battery. Switch on the battery charger.

Battery charger (58429074000)

You can also use the battery charger to test rest potential and start potential of the battery, and to test the alternator. With this device, you cannot overcharge the battery.

i Info

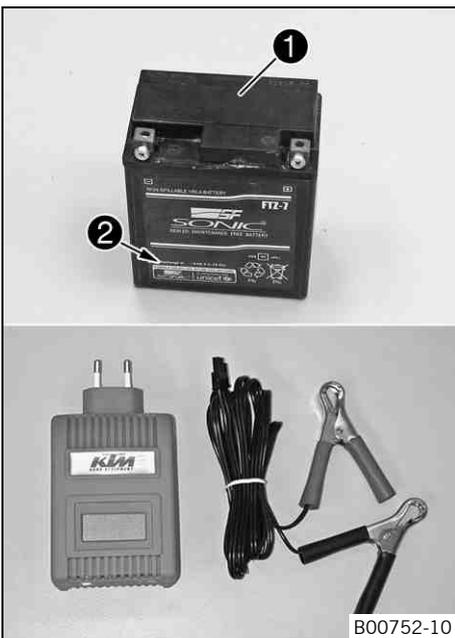
Never remove lid ❶.
 Charge the battery with a maximum of 10% of the capacity specified on battery housing ❷.

- Switch off the charger after charging. Disconnect the battery.

Guideline

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

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

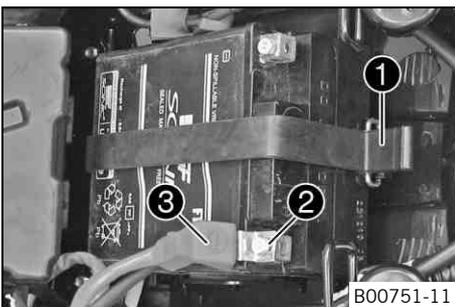


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Finishing work

- Mount the seat. (☛ p. 5)
- Mount the passenger seat. (☛ p. 5)
- Set the clock. (☛ p. 9)

3.7 Installing the battery



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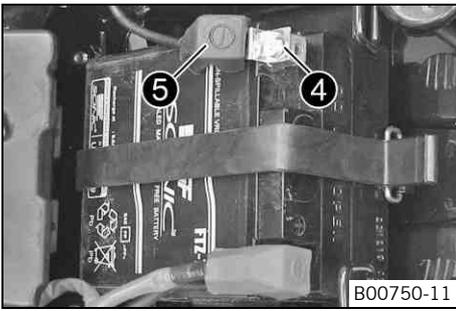
Main work

- Position the battery in the battery rack.

i Info

The battery terminals must be at the top.

- Attach rubber band ❶.
- Reconnect the positive cable ❷ of the battery.
- Position positive terminal cover ❸.



- Connect the negative cable ④ of the battery.
- Position the negative terminal cover ⑤.

Finishing work

- Mount the seat. (☛ p. 5)
- Mount the passenger seat. (☛ p. 5)
- Set the clock. (☛ p. 9)

3.8 Opening the filler cap



Danger

Fire hazard Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See the notes on refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

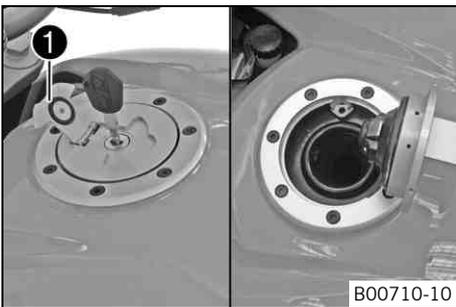
- Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel. Store fuel in a suitable canister according to regulations and keep it out of the reach of children.



Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.



- Lift the cover ① of the filler cap and insert the ignition key in the lock.

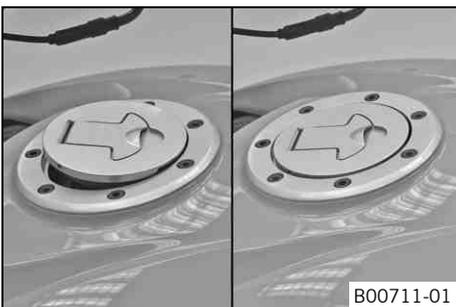
Note

Danger of damage Ignition key breakage.

- To take pressure off of the ignition key, push down on the filler cap. Damaged ignition keys must be replaced.

- Turn the ignition key 90° clockwise.
- Open the filler cap.
- Remove the ignition key.

3.9 Closing the filler cap



Warning

Fire hazard Fuel is highly flammable, poisonous and harmful to your health.

- When closing the filler cap, ensure that it is closed correctly. Change clothing that came into contact with fuel. Immediately clean skin that came into contact with fuel using soap and water.

- Close the filler cap.
- Push down the filler cap until the lock engages.

3.10 Refueling

Danger
Fire hazard Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See the notes on refueling.

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

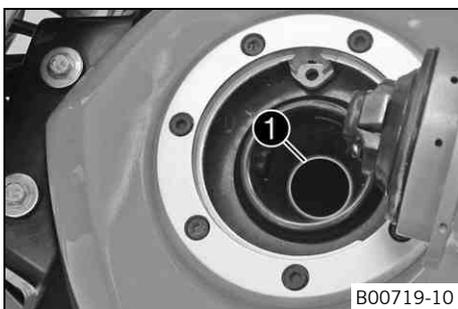
- Avoid contact of the fuel with skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel.

Note
Material damage Premature clogging of the fuel filter.

- In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.
- Only refuel 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 get into the ground water, the ground, or the sewage system.



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- Switch off the engine.
- Open the filler cap. (☛ p. 8)
- Fill the fuel tank with fuel up to the lower edge ❶ of the fuel filler.

| | | |
|-----------------------------------|-------------------------|---|
| Total fuel tank capacity, approx. | 10.5 l (2.77 US gal) | Super unleaded (ROZ 95/RON 95/PON 91) (☛ p. 13) |
|-----------------------------------|-------------------------|---|

- Close the filler cap. (☛ p. 8)

3.11 Setting the time



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Condition

The ignition is on.
 The motorcycle is stationary.

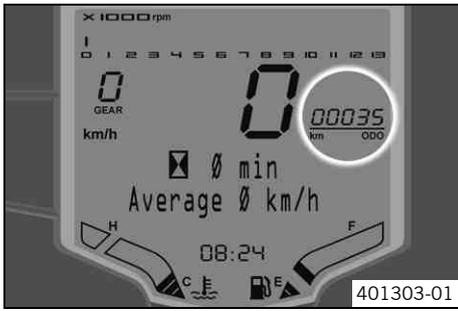
- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** and **SET** buttons for 5 - 10 seconds.
 - ✓ The time display begins to flash.
- Set the hours display using the **MODE** button.
- Set the minutes display using the **SET** button.
- Press the **MODE** and **SET** buttons for 5 - 10 seconds.
 - ✓ The time is set.

3.12 Setting kilometers or miles

Info
 Make the country-specific setting.

Condition

The ignition is on.
 The motorcycle is stationary.



- Press the **MODE** button briefly and repeatedly until **ODO** appears on the display.
- Press the **MODE** button for 5 - 10 seconds.
- ✓ The display changes from **km/h** to **mph** or from **mph** to **km/h**.

4 TECHNICAL DATA - TIGHTENING TORQUES FOR CHASSIS

| | | | |
|--|----------|---------------------|---------------|
| Screw, chain guard | EJOT PT® | 4 Nm (3 lbf ft) | – |
| Screw, headlight | EJOT PT® | 4 Nm (3 lbf ft) | – |
| Remaining screws, chassis | M4 | 4 Nm (3 lbf ft) | – |
| Screw, EFI control unit | M4 | 4 Nm (3 lbf ft) | – |
| Screw, trim, subframe, bottom | M4 | 2 Nm (1.5 lbf ft) | – |
| Remaining screws, chassis | M5 | 5 Nm (3.7 lbf ft) | – |
| Screw, brake fluid reservoir of rear brake | M5 | 6 Nm (4.4 lbf ft) | Loctite® 243™ |
| Screw, fuel pump | M5 | 5 Nm (3.7 lbf ft) | – |
| Screw, fuel tank closure flange | M5 | 3 Nm (2.2 lbf ft) | – |
| Screw, fuel tank cover | M5 | 4 Nm (3 lbf ft) | – |
| Screw, fuel tank trim | M5 | 5 Nm (3.7 lbf ft) | – |
| Screw, license plate holder | M5 | 11 Nm (8.1 lbf ft) | – |
| Screw, rollover sensor | M5 | 6 Nm (4.4 lbf ft) | Loctite® 243™ |
| Screw, side stand switch | M5 | 5 Nm (3.7 lbf ft) | Loctite® 243™ |
| Screw, spoiler | M5 | 5 Nm (3.7 lbf ft) | – |
| Screw, subframe cover, bottom | M5 | 5 Nm (3.7 lbf ft) | Loctite® 243™ |
| Screw, windshield | M5 | 3 Nm (2.2 lbf ft) | – |
| Nut, foot brake lever adjustment | M6 | 9 Nm (6.6 lbf ft) | – |
| Nut, radiator | M6 | 5 Nm (3.7 lbf ft) | – |
| Remaining nuts, chassis | M6 | 15 Nm (11.1 lbf ft) | – |
| Remaining screws, chassis | M6 | 10 Nm (7.4 lbf ft) | – |
| Screw, air filter box | M6 | 6 Nm (4.4 lbf ft) | – |
| Screw, bottom of rear part | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, brake fluid reservoir of rear brake | M6 | 9 Nm (6.6 lbf ft) | – |
| Screw, cable holder, side stand switch | M6 | 9 Nm (6.6 lbf ft) | Loctite® 243™ |
| Screw, chain sliding guard | M6 | 9 Nm (6.6 lbf ft) | Loctite® 243™ |
| Screw, compensating tank | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, foot brake cylinder | M6 | 9 Nm (6.6 lbf ft) | Loctite® 243™ |
| Screw, front fender | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, front seat fixing | M6 | 5 Nm (3.7 lbf ft) | – |
| Screw, fuel tank | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, headlight holder | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, headlight mask | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, ignition coil | M6 | 9 Nm (6.6 lbf ft) | – |
| Screw, license plate holder | M6 | 14 Nm (10.3 lbf ft) | – |
| Screw, magnetic holder on side stand | M6 | 5 Nm (3.7 lbf ft) | Loctite® 243™ |
| Screw, radiator bracket | M6 | 6 Nm (4.4 lbf ft) | – |
| Screw, radiator holder | M6 | 9 Nm (6.6 lbf ft) | – |
| Screw, rear splash protector | M6 | 9 Nm (6.6 lbf ft) | – |
| Screw, rollover sensor holder | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, seat | M6 | 11 Nm (8.1 lbf ft) | – |
| Screw, shift activation | M6 | 11 Nm (8.1 lbf ft) | Loctite® 243™ |
| Screw, voltage regulator | M6 | 10 Nm (7.4 lbf ft) | – |
| Screw, voltage regulator holder | M6 | 15 Nm (11.1 lbf ft) | – |
| Remaining nuts, chassis | M8 | 30 Nm (22.1 lbf ft) | – |
| Remaining screws, chassis | M8 | 25 Nm (18.4 lbf ft) | – |
| Screw, bottom triple clamp | M8 | 15 Nm (11.1 lbf ft) | – |
| Screw, engine bearer on frame | M8 | 26 Nm (19.2 lbf ft) | – |
| Screw, foot brake lever | M8 | 15 Nm (11.1 lbf ft) | Loctite® 243™ |
| Screw, fork stub | M8 | 15 Nm (11.1 lbf ft) | – |

4 TECHNICAL DATA - TIGHTENING TORQUES FOR CHASSIS

| | | | |
|---|----------|--|---------------|
| Screw, front brake disc | M8 | 29 Nm (21.4 lbf ft) | Loctite® 243™ |
| Screw, front wheel spindle | M8 | 25 Nm (18.4 lbf ft) | – |
| Screw, handlebar clamp | M8 | 21 Nm (15.5 lbf ft) | – |
| Screw, handrail | M8 | 31 Nm (22.9 lbf ft) | – |
| Screw, horn | M8 | 21 Nm (15.5 lbf ft) | – |
| Screw, rear brake disc | M8 | 29 Nm (21.4 lbf ft) | Loctite® 243™ |
| Screw, rear footrest bracket | M8 | 26 Nm (19.2 lbf ft) | Loctite® 243™ |
| Screw, shift lever | M8 | 15 Nm (11.1 lbf ft) | Loctite® 243™ |
| Screw, top triple clamp | M8 | 11 Nm (8.1 lbf ft) | – |
| Screw, front brake caliper | M8x1 | 30 Nm (22.1 lbf ft) | Loctite® 243™ |
| Nut, mirror | M10 | 16 Nm (11.8 lbf ft) | – |
| Nut, turn signal | M10 | 6 Nm (4.4 lbf ft) | – |
| Remaining nuts, chassis | M10 | 50 Nm (36.9 lbf ft) | – |
| Remaining screws, chassis | M10 | 45 Nm (33.2 lbf ft) | – |
| Screw cap, side stand | M10 | 34 Nm (25.1 lbf ft) | – |
| Screw connection, engine mounting bracket | M10 | 46 Nm (33.9 lbf ft) | – |
| Nut, rear sprocket screw | M10x1.25 | 32 Nm (23.6 lbf ft) | – |
| Screw connection, handlebar support | M10x1.25 | 21 Nm (15.5 lbf ft) | – |
| Screw, front footrest bracket | M10x1.25 | 46 Nm (33.9 lbf ft) | – |
| Screw, side stand bracket | M10x1.25 | 25 Nm (18.4 lbf ft) | Loctite® 243™ |
| Screw, top shock absorber | M10x1.25 | 50 Nm (36.9 lbf ft) | – |
| Nut, rear wheel spindle | M14x1.5 | 60 Nm (44.3 lbf ft) | – |
| Nut, swingarm pivot | M14x1.5 | 98 Nm (72.3 lbf ft) | – |
| Screw, top steering head | M16x1.5 | 52 Nm (38.4 lbf ft) | – |
| Swingarm bearing adjusting ring | M22x1 | Tighten and ensure that there is no play | – |
| Nut, steering head | M30x1 | Step 1 50 Nm (36.9 lbf ft) 2nd stage (loosen, counter-clockwise) 2 turns Step 3 5 Nm (3.7 lbf ft) | – |

Super unleaded (ROZ 95/RON 95/PON 91)

According to

- 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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08/2012

