SETUP INSTRUCTIONS 2010





INTRODUCTION 1

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

KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

Symbols used

The symbols used are explained in the following.



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).



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

Formats used

The typographical and other formats used are explained in the following.

Specific name Indicates a proprietary name.

Name® Identifies a protected name.

Brand™ Identifies a brand in merchandise traffic.

SET-UP 3

Unpacking and setting up the vehicle



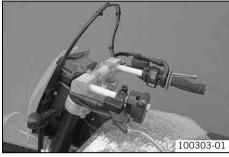
- Remove the box and the plastic packaging.



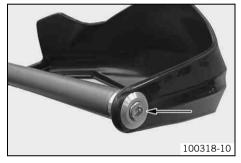
Info

To avoid damaging the motorcycle during assembly, 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.
- Remove the controls from the transport holder. Remove the screws and handlebar clamps. Remove the transport holder.



- Remove the M8 screw from the right hand guard.

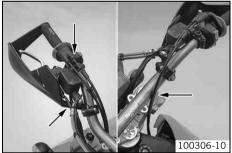


- Position the controls on the right half of the handlebar.



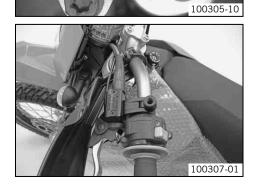
Info

The routing of the cables can be seen in the figure.



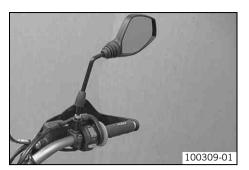
- Position the handlebar.
 - ✓ The mark 1 of the scale on the handlebar should be centered on the handlebar clamp.
- Position the handlebar clamps. Mount and evenly tighten the four screws.
 Guideline

| Screw, handlebar clamp | M8 | 20 Nm (14.8 lbf ft) | Loctite [®] 243™ |
|------------------------|----|------------------------|---------------------------|
|------------------------|----|------------------------|---------------------------|

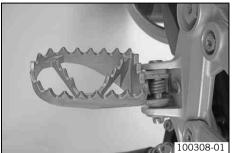


Position the controls on the left half of the handlebar. Mount the screws.

SET-UP



- Mount and tighten the rear mirror adapter and rear mirror on both sides.
- Exactly position all controls on the handlebar. Tighten all screws.
- Fit and tighten the M8 screw of the right hand guard.



 Mount the footrests with the springs and bolts. Secure the bolts using the washers and pins.

Plier for footrest spring (58429083000)

- Remove the protective plastic.
- Carefully loosen and remove the tensioning belt over the link fork.



Info

An assistant prevents the motorcycle from falling over.

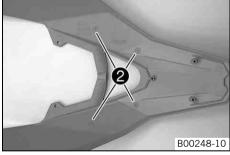
- Carefully loosen and remove the tensioning belts around the lower triple clamp.
 - ✓ The vehicle is released at the front.
- Together with an assistant, take the vehicle off the palette.
- Recharge the battery. (* p. 6)
- Connect plug to the starter relay.



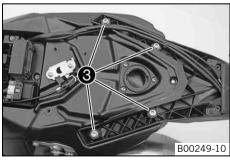
- Remove the rear fairing. (* p. 8)
- Four markings ② can be seen on the underside of the rear fairing. At these positions, drill holes in three steps of the prescribed size.

Guideline

Hole diameter for grab handles 14.50 mm (0.5709 in)



- Remove screws 3.
- Fit the rear fairing. (▼ p. 9)



Mount the reflector.



SET-UP 5



Insert the rubber sleeves 4 in the footrest bracket.

Position the engine guard. Mount and tighten screws 6.
 Guideline

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

Operation as 2-seater

Fit the rear footrest bracket. (♥ p. 9)

Operation as 1-seater (at customer request only) (690 Enduro R)

Mount the rubber strap for the side stand. (* p. 9)



Warning

Forfeiture of homologation and insurance cover The vehicle is homologated as 2-seater. If the heel protector is fitted instead of the footrest bracket, the vehicle no longer conforms to the homologation and must not be operated in this form without alterations to the registration papers.

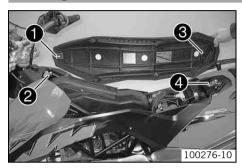
- Set up and operate the vehicle as a 2-seater or have changes made to the registration papers.
- Fit the heel protector. (♥ p. 10)
- Refuel. (* p. 10)
- Print out the current PDI form found on KTM DEALER.NET and perform the delivery inspection.
- Set kilometers or miles. (* p. 11)

Removing the seat



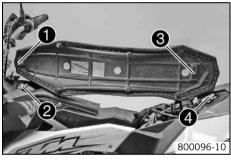
- Pull on strap **1** and raise the rear of the seat at the same time.
- Pull back the seat and lift it off.

Mounting the seat



(690 Enduro)

- Hook slot of the seat onto screw •, press the rear downward and at the same time push it forward.
- Push locking pin 3 into lock housing 4 and push the back of the seat down until the locking pin locks in place with an audible click.
- Finally, check that the seat is correctly mounted.



(690 Enduro R)

- Hook slot of the seat onto screw •, press the rear downward and at the same time push it forward.
- Push locking pin 3 into lock housing 4 and push the back of the seat down until the locking pin locks in place with an audible click.
- Finally, check that the seat is correctly mounted.

Recharging the battery



Warning

Risk of injury Battery acid and battery gases cause serious cauterization.

- 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 fire. Charge only in well ventilated rooms.
- 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 doctor.



Warning

Environmental hazard Battery parts and acid 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.



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Infr

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.

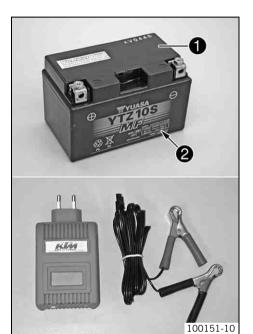
Rapid recharging with a high charging current shortens the battery's service life.

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.



- Switch off all power consumers and switch off the engine.
- Remove the battery. (* p. 7)
- 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.



Info

Never remove lid 1.

Charge the battery with a maximum of 10% of the capacity specified on the battery housing ②.

Switch off and disconnect the charger after charging.

Guideline

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

Charge the battery regularly when the motorcycle is not in use

 $3 \ months$

- Install the battery. (* p. 8)

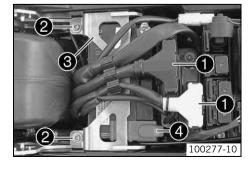
Removing the battery



Warning

Risk of injury Battery acid and battery gases cause serious cauterization.

- 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 fire. Charge only in well ventilated rooms.
- 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 doctor.



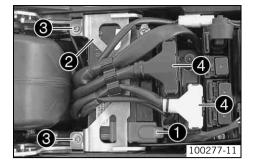
- Switch off all power consumers and switch off the engine.
- Remove the seat. (* p. 6)
- Disconnect the negative (minus) cable of the battery.
- Pull off the plug connector upwards.
- Remove screws 2.
- Pull the retaining bracket **3** of the battery forward and remove it.
- Take off the positive pole cover **4**.
- Disconnect the positive (plus) cable of the battery.
- Push the wiring harness to the side and pull the battery 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.

Installing the battery



Slide the battery into the battery rack.



Info

The battery terminals must be at the rear.

- Attach the positive cable and mount positive terminal cover ①.
- Position retaining bracket ②.
- Mount and tighten screws 3.
 Guideline

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

- Plug in connector 4.
- Attach the minus cable .
- Mount the seat. (* p. 6)
- Set the clock. (* p. 11)

Opening filler cap



- Lift the cover of the filler cap and insert the ignition key.
- Turn the ignition key 90° counterclockwise and remove the filler cap.



Info

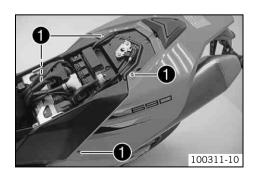
The filler cap has a tank air vent system.

Closing filler cap

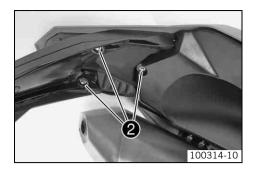


- Put the filler cap back on and turn the ignition key 90° clockwise.
- Remove the ignition key and fold down the cover.

Removing rear fairing

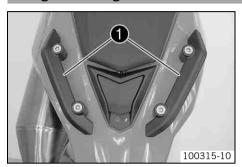


- Remove the seat. (* p. 6)
- Remove screws ①.



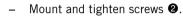
- Remove screws 2.
- Open the filler cap. (* p. 8)
- Take off the rear fairing.
- Close the filler cap. (* p. 8)

Fitting rear fairing



- Position the license plate holder and cable harness.
- Open the filler cap. (* p. 8)
- Position the rear fairing and grab handles as shown in the figure. Fit and slightly tighten the screws of the grab handles.
- Close the filler cap. (* p. 8)
- Fit and tighten the screws on the rear fairing. Guideline

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



Tighten the screws of the grab handles. Guideline

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

Mount the seat. (p. 6)

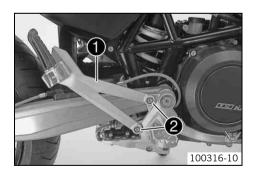
Fitting the rear footrest bracket



Info

The operations are the same for the left and right sides.

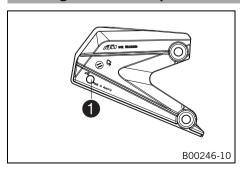
100314-10



Position the footrest bracket **1**. Mount and tighten screws **2**. Guideline

| Screw, rear footrest bracket | M8x16 | 25 Nm |
|------------------------------|-------|---------------|
| | | (18.4 lbf ft) |

Mounting the rubber strap for the side stand (690 Enduro R)



Drill a hole of the specified size at marking **1**. Guideline

Hole diameter for rubber strap 8.0 mm (0.315 in)



A marking • is found on the inside of the left heel protector.

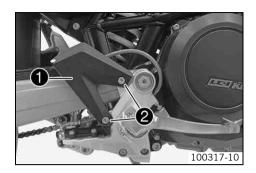
Mount the rubber strap.

Fitting heel protector



Info

The operations are the same for the left and right sides.





Warning

Forfeiture of homologation and insurance cover The vehicle is homologated as 2-seater. If the heel protector is fitted instead of the footrest bracket, the vehicle no longer conforms to the homologation and must not be operated in this form without alterations to the registration papers.

- Set up and operate the vehicle as a 2-seater or have changes made to the registration papers.
- Position the heel protector **1**. Mount and tighten screws **2**.
 Guideline

| Screw, heel protector | M8x12 | 8 Nm (5.9 lbf ft) |
|-----------------------|-------|-------------------|
|-----------------------|-------|-------------------|

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.



Warning

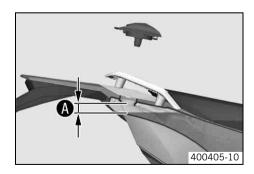
Environmental hazard Improper handling of fuel is a danger to the environment.

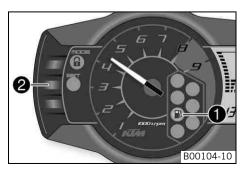
- Do not allow fuel to get into the ground water, the ground, or the sewage system.



Info

This motorcycle is equipped with a regulated catalyst. Leaded fuel will destroy the catalyst. You should therefore use unleaded fuel only.





(690 Enduro)

- Switch off engine.
- Open the filler cap. (♥ p. 8)
- Fill the fuel tank with fuel up to measurement .
 Guideline

| Measurement of (A) | | 20 mm (0.79 in) |
|-----------------------------------|-------------------|---|
| Total fuel tank capacity, approx. | 12 I (3.2 US gal) | Super unleaded (ROZ 95 / RON 95 / PON 91) (* p. 15) |

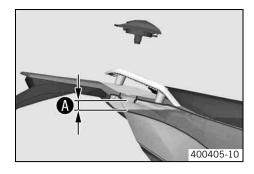
- Close the filler cap. (* p. 8)
- Press the **SET** button **2** for two seconds.
 - ✓ The fuel level warning lamp

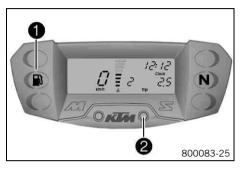
 switches off. TRIP F is set to 0.0 and appears in the previous display mode.



Info

If you do not press the **SET** button **②**, the reset takes place automatically after about three minutes.





(690 Enduro R)

- Switch off engine.
- Open the filler cap. (* p. 8)
- Fill the fuel tank with fuel up to measurement **A**. Guideline

| Measurement of A | 1 | 20 mm (0.79 in) |
|-----------------------------------|-------------------|---|
| Total fuel tank capacity, approx. | 12 l (3.2 US gal) | Super unleaded (ROZ 95 / RON 95 / PON 91) (|

- Close the filler cap. (* p. 8)
- Press the **\$** button **2** for two seconds.
 - The fuel level warning lamp **①** switches off. **Trip F** is set to **0.0** and appears in the previous display mode.



Info

If you do not press the **\$** button **2**, the reset takes place automatically after about three minutes.

Setting the clock







Condition

The motorcycle is stationary.

(690 Enduro)

- Switch on the ignition by turning the ignition key to position **ON** ○.
- Press the MODE button repeatedly until the ODO mode is active.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time display begins to flash.
- Press the **MODE** button to set the hour.
- Press the **SET** button to set the minute.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time is set.

(690 Enduro R)

- Switch on the ignition by turning the ignition key to position $\mathbf{ON} \cap \mathbf{O}$.
- Press the **M** button repeatedly until the **Odo** mode is active.
- Keep the **M** button and the **S** button pressed simultaneously.
 - The time display begins to flash.
- Press the **M** button to set the hour.
- Press the **S** button to set the minute.
- Keep the **M** button and the **S** button pressed simultaneously.
 - The time is set.

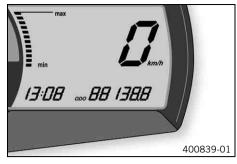
Setting kilometers or miles



If you change the unit, the value is retained and converted accordingly. Making the setting according to the country.

Condition

The motorcycle is stationary.





(690 Enduro)

- Switch on the ignition by turning the ignition key to position ON O.
- Press the MODE button repeatedly until the ODO mode is active.
- Keep the MODE button pressed until the display mode changes from km/h to mph or from mph to km/h.

Guideline

| Activation duration of MODE button | 10 s |
|---|------|
|---|------|

(690 Enduro R)

- Switch on the ignition by turning the ignition key to position $\mathbf{ON} \cap \mathbf{N}$.
- Press the M button repeatedly until the Odo mode is active.
- Keep the M button pressed until the display mode changes from km/h to mph or from mph to km/h.

Guideline

| Activation duration of M button | 10 s |
|--|------|

| | | 1 | T |
|--|-------|---------------------|--|
| Screw, license plate holder, bottom | EJOT | 3 Nm (2.2 lbf ft) | - |
| Screw, SLS valve | EJOT | 2 Nm (1.5 lbf ft) | - |
| Spoke nipple, front wheel | M4.5 | 5 Nm (3.7 lbf ft) | - |
| Bolt, foot brake lever stub | M5 | 6 Nm (4.4 lbf ft) | Loctite [®] 243™ |
| Remaining screws, chassis | M5 | 4 Nm (3 lbf ft) | - |
| Screw, electrical holder | M5 | 3 Nm (2.2 lbf ft) | _ |
| Screw, exhaust heat shield | M5 | 8 Nm (5.9 lbf ft) | - |
| Screw, fuel level sensor | M5 | 3 Nm (2.2 lbf ft) | - |
| Screw, fuel pump | M5 | 6 Nm (4.4 lbf ft) | - |
| Screw, headlight mask | M5 | 5 Nm (3.7 lbf ft) | _ |
| Screw, seat lock | M5 | 3 Nm (2.2 lbf ft) | Loctite® 222 |
| Screw, side cover | M5 | 2 Nm (1.5 lbf ft) | _ |
| Screw, side stand switch | M5 | 3 Nm (2.2 lbf ft) | _ |
| Screw, starter cable on starter | M5 | 3 Nm (2.2 lbf ft) | _ |
| Spoke nipple, rear wheel | M5 | 4 Nm (3 lbf ft) | _ |
| Nut, foot brake cylinder screw | M6 | 10 Nm (7.4 lbf ft) | _ |
| Remaining nuts, chassis | M6 | 15 Nm (11.1 lbf ft) | _ |
| Remaining screws on fuel tank | M6 | 6 Nm (4.4 lbf ft) | _ |
| Remaining screws, chassis | M6 | 10 Nm (7.4 lbf ft) | _ |
| Screw, ball joint of push rod on foot brake cylinder | M6 | 10 Nm (7.4 lbf ft) | Loctite [®] 243™ |
| Screw, brake fluid reservoir of rear brake | M6 | 5 Nm (3.7 lbf ft) | - |
| Screw, front brake disc | M6 | 14 Nm (10.3 lbf ft) | Loctite [®] 243™ |
| · · | M6 | 14 Nm (10.3 lbf it) | Loctite® 243 TM |
| Screw, ignition lock | | | |
| Screw, magnetic holder on side stand | M6 | 10 Nm (7.4 lbf ft) | Loctite® 243™ |
| Screw, radiator bracket | M6 | 5 Nm (3.7 lbf ft) | _ |
| Screw, rear brake disc | M6 | 14 Nm (10.3 lbf ft) | Loctite [®] 243™ |
| Screw, voltage regulator | M6 | 8 Nm (5.9 lbf ft) | - |
| Nut, manifold on cylinder head | M8 | 25 Nm (18.4 lbf ft) | Copper paste |
| Nut, rear sprocket screw | M8 | 35 Nm (25.8 lbf ft) | Loctite® 243™ |
| 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 | 12 Nm (8.9 lbf ft) | _ |
| Screw, connection lever on frame | M8 | 30 Nm (22.1 lbf ft) | _ |
| Screw, exhaust clamp on main silencer | M8 | 25 Nm (18.4 lbf ft) | _ |
| Screw, fork stub | M8 | 15 Nm (11.1 lbf ft) | - |
| Screw, front brake caliper | M8 | 25 Nm (18.4 lbf ft) | Loctite [®] 243™ |
| Screw, front footrest bracket | M8 | 25 Nm (18.4 lbf ft) | _ |
| Screw, fuel tank, bottom | M8 | 20 Nm (14.8 lbf ft) | _ |
| Screw, handlebar clamp | M8 | 20 Nm (14.8 lbf ft) | Loctite [®] 243™ |
| Screw, handrail | M8 | 20 Nm (14.8 lbf ft) | _ |
| Screw, heel protector | M8x12 | 8 Nm (5.9 lbf ft) | _ |
| Screw, license plate holder, top | M8 | 20 Nm (14.8 lbf ft) | _ |
| Screw, main silencer holder | M8 | 25 Nm (18.4 lbf ft) | _ |
| Screw, main silencer holder on fuel tank | M8 | 25 Nm (18.4 lbf ft) | Loctite [®] 243™ |
| Screw, rear footrest bracket | M8x16 | 25 Nm (18.4 lbf ft) | _ |
| Screw, side stand bracket | M8 | 25 Nm (18.4 lbf ft) | _ |
| Screw, spring holder on side stand bracket | M8 | 25 Nm (18.4 lbf ft) | Loctite [®] 243 TM |
| Screw, steering stem | M8 | 20 Nm (14.8 lbf ft) | Loctite [®] 243™ |
| Screw, top triple clamp | M8 | 17 Nm (12.5 lbf ft) | _ |
| · | | 1 | 1 |

| Upper fuel tank screw | M8 | 20 Nm (14.8 lbf ft) | _ |
|----------------------------------|----------|------------------------|---------------------------|
| Engine carrying screw | M10 | 45 Nm (33.2 lbf ft) | Loctite [®] 243™ |
| Remaining nuts, chassis | M10 | 50 Nm (36.9 lbf ft) | - |
| Remaining screws, chassis | M10 | 45 Nm (33.2 lbf ft) | - |
| Screw, bottom shock absorber | M10 | 45 Nm (33.2 lbf ft) | Loctite® 243™ |
| Screw, engine bearer on frame | M10 | 45 Nm (33.2 lbf ft) | - |
| Screw, foot brake lever | M10LH | 25 Nm (18.4 lbf ft) | Loctite® 243™ |
| Screw, handlebar support | M10 | 40 Nm (29.5 lbf ft) | - |
| Screw, side stand | M10 | 35 Nm (25.8 lbf ft) | Loctite [®] 243™ |
| Screw, top shock absorber | M10 | 45 Nm (33.2 lbf ft) | Loctite [®] 243™ |
| Lambda sensor | M12x1.25 | 24.5 Nm (18.07 lbf ft) | Copper paste |
| Screw, swingarm pivot | M12x1.75 | 80 Nm (59 lbf ft) | - |
| Nut, linkage lever on swingarm | M14x1.5 | 100 Nm (73.8 lbf ft) | - |
| Nut, linkage lever to rocker arm | M14x1.5 | 100 Nm (73.8 lbf ft) | - |
| Screw, bottom steering head | M20x1.5 | 60 Nm (44.3 lbf ft) | Loctite [®] 243™ |
| Screw, top steering head | M20x1.5 | 10 Nm (7.4 lbf ft) | - |
| Screw, front wheel spindle | M24x1.5 | 40 Nm (29.5 lbf ft) | - |
| Nut, rear wheel spindle | M25x1.5 | 90 Nm (66.4 lbf ft) | _ |

SUBSTANCES 15

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

According to

- DIN EN 228 (ROZ 95 / RON 95 / PON 91)



3211616er





