

# SETUP INSTRUCTIONS 2008

**Packaging 4**

**690 ENDURO EU**

**690 ENDURO AUS/UK**

**690 ENDURO USA**

ART. NO. 3211382en



**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 in particular 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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REG.NO. 12 100 6061

ISO 9001(12 100 6061)

Within the meaning of 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.

<b>Name</b>	Indicates a proprietary name.
<b>Protected name<sup>®</sup></b>	Identifies a protected name.
<b>Trademark<sup>™</sup></b>	Identifies a brand in merchandise traffic.

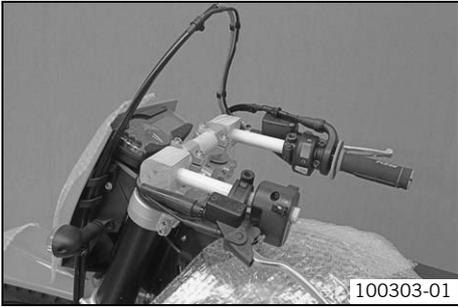
## Unpacking and setting up the vehicle



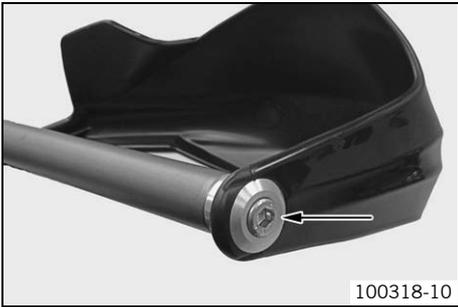
- Remove the box and the plastic packaging.

**i Info**

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

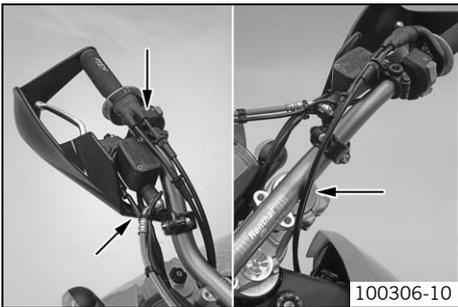


- Check the vehicle for transport damage.
- Unpack the separate enclosure and check its contents on the basis of the enclosure list.



- Remove the operating elements from the transport holder. Remove the screws and handlebar clamps. Remove the transport holder.

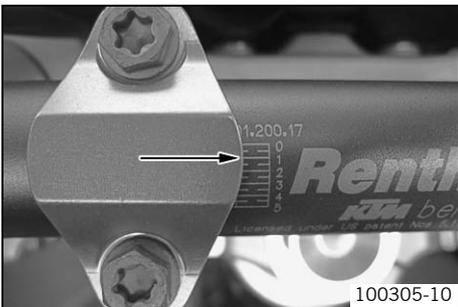
- Remove the M8 screw from the right hand guard.



- Position the operating elements on the right half of the handlebar.

**i Info**

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



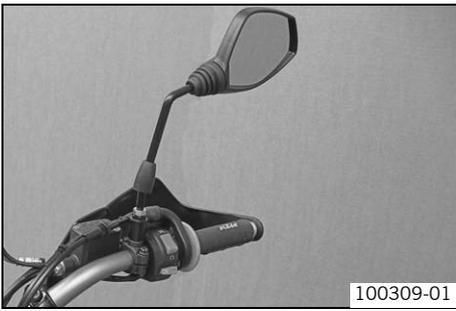
- Position the handlebar.
  - ✓ The mark **1** of the scale on the handlebar should be in the center of the handlebar clamp.
- Position the handlebar clamps. Fit and evenly tighten the four screws.

Guideline

Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	<b>Loctite® 243™</b>
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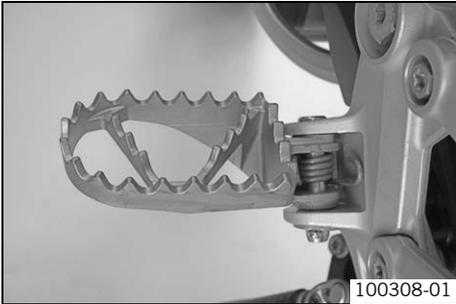


- Position the operating elements on the left half of the handlebar. Fit the screws.



100309-01

- Mount and tighten the rear mirror adapter and rear mirror on both sides.
- Position all operating elements exactly on the handlebar. Tighten all screws.
- Fit and tighten the M8 screw of the right hand guard.



100308-01

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

Plier for footrest spring (58429083000)
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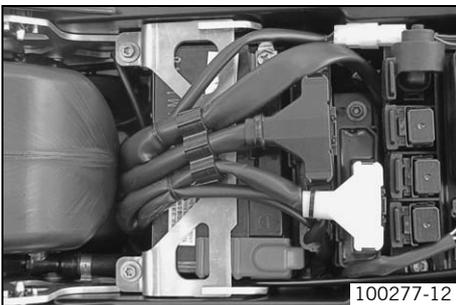
- Remove the protective plastic.
- Carefully loosen and remove the tensioning belt over the link fork.



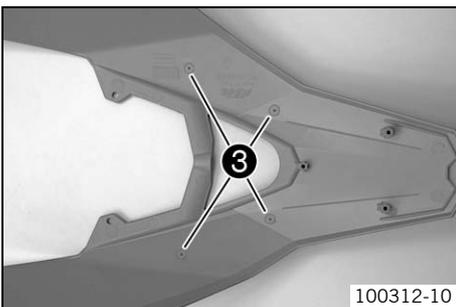
**Info**

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 of the palette.
- Recharge the battery. (☛ S. 6)
- Install the battery. (☛ S. 7)



100277-12

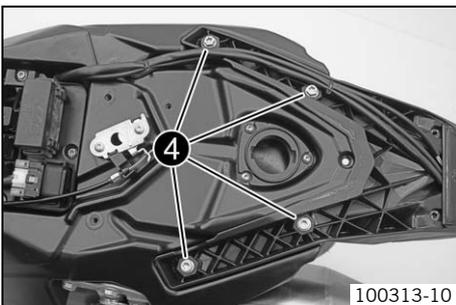


100312-10

- Remove the rear fairing. (☛ S. 8)
- 4 markings ③ can be seen on the underside of the rear cover. At these positions, drill holes in three steps of the prescribed size.

Guideline

Hole diameter for grip handles	14.50 mm (0.5709 in)
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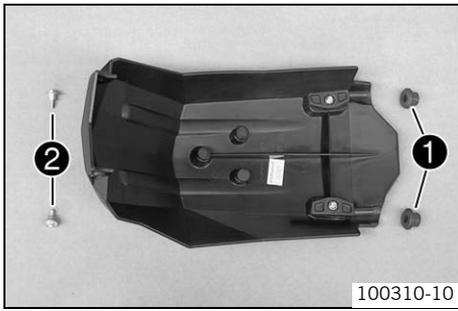
100313-10

- Remove screws ④.
- Fit the rear fairing. (☛ S. 8)



700217-01

- Mount the reflector.



- Insert the rubber sleeves ❶ in the footrest bracket.
- Position the engine guard. Mount and tighten screws ❷.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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**Operation as 2-seater**

- Fit the rear footrest bracket. (☛ S. 8)

**Operation as 1-seater (at customer request only)**

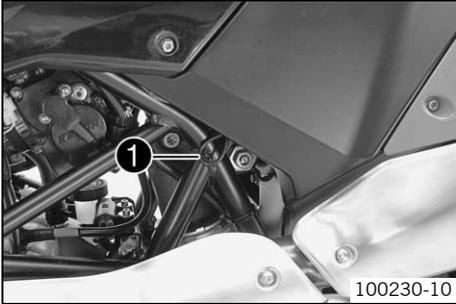


**Warning**

**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.

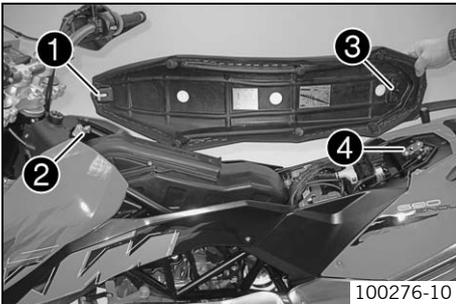
- Set up and operate the vehicle as a 2-seater or have changes made to the registration papers.
- 
- Fit the heel protector. (☛ S. 9)
  - Fill up with fuel. (☛ S. 9)
  - Print out the current **PDI** form found on **KTM DEALER.NET** and perform the delivery inspection.
  - Set kilometers or miles. (☛ S. 10)

## Removing the seat



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

## Mounting the seat



- Hook slot ❶ of the seat onto screw ❷, press the rear downward and at the same time push it forward.
- Push locking pin ❸ into lock housing ❹ 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** Components and battery acid are a danger to the environment.
- Do not dispose of batteries in normal household waste. Take defective or used batteries to a battery recycling operator.

- Warning**  
**Environmental hazard** Problem materials cause environmental damage.
- Dispose of oil, grease, filters, fuel, cleaning substances, brake fluid, batteries, etc. according to regulations.

- i Info**
- Even if there is no load on the battery, it loses power every day. The charge state and the type of charge are very important for the service life of the battery. Fast recharging with a high charge current shortens the battery's service life. If the charge current, the charge voltage and the charge time are exceeded, electrolyte escapes through the breathing holes. The battery capacity is then reduced. If the battery becomes discharged from starting, it must be recharged immediately. If the battery rests for an extended time in a discharged state, it becomes over-discharged and sulfated, which will result in its destruction. The battery is maintenance-free, i.e., the acid level does not have to be checked.

- Switch off all power-consuming components and switch off the engine.
- Remove the battery.



- 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 generator. With this device, you cannot overcharge the battery.



**Info**

Never remove the lid ①.  
Charge the battery according to the instructions ② on the battery casing.

- After charging, switch off and disconnect the battery charger.

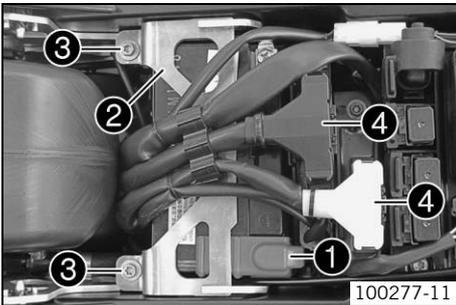
Guideline

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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- Install the battery. (☛ S. 7)

**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)
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- Plug in connector ④.
- Attach the minus cable .
- Mount the seat. (☛ S. 6)
- Set the clock. (☛ S. 10)

**Opening filler cap**



- Lift the cover of the filler cap ① and insert the ignition key.
- Turn the ignition key 90° counterclockwise and remove the filler cap.



**Info**

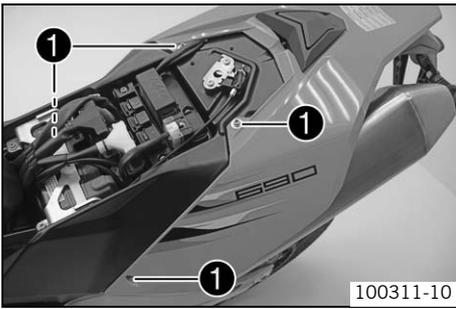
The filler cap has a tank air vent system.

**Closing filler cap**

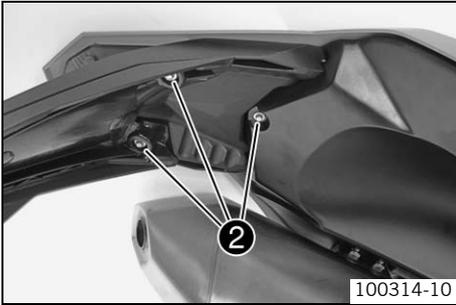


- Put the filler cap back on and turn the ignition key 90° clockwise.
- Remove the ignition key and fold down the cover.

## Removing rear fairing

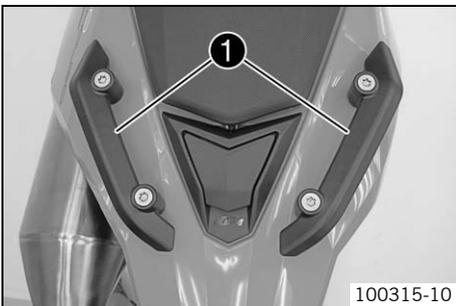


- Remove the seat. (🔧 S. 6)
- Remove screws ❶.



- Remove screws ❷.
- Open the filler cap. (🔧 S. 7)
- Take off the rear fairing.
- Close the filler cap. (🔧 S. 7)

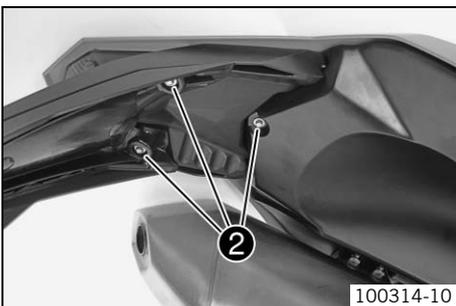
## Fitting rear fairing



- Position the license plate holder and cable harness.
- Open the filler cap. (🔧 S. 7)
- Position the rear fairing and grab handles ❶ as shown in the figure. Fit and slightly tighten the screws of the grab handles.
- Close the filler cap. (🔧 S. 7)
- Fit and tighten the screws on the rear fairing.

### Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Mount and tighten screws ❷.
- Tighten the screws of the grab handles.

### Guideline

Screw, handrail	M8	20 Nm (14.8 lbf ft)
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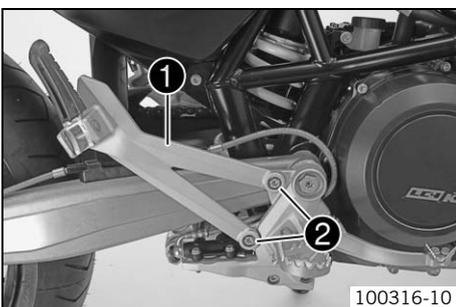
- Mount the seat. (🔧 S. 6)

## Fitting the rear footrest bracket



### Info

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



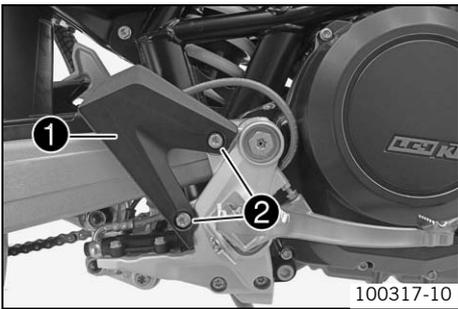
- Position the footrest bracket ❶. Mount and tighten screws ❷.

### Guideline

Screw, rear footrest bracket	M8x16	25 Nm (18.4 lbf ft)
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**Fitting heel protector**

**i 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 ❶. Mount and tighten screws ❷.

Guideline

Screw, heel protector	M8x12	8 Nm (5.9 lbf ft)
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**Refueling**

**! Danger**  
**Fire hazard** Fuel can easily catch fire.

- Never fill up 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 specifications on filling up with fuel.

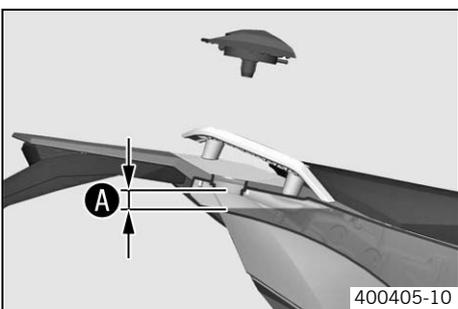
**! Warning**  
**Danger of poisoning** Fuel is poisonous and a health hazard.

- 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.

**☼ 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.

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



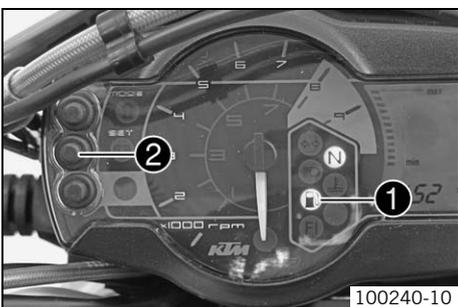
- switch off engine.
- Open the filler cap. (☛ S. 7)
- Fill the fuel tank with fuel up to measurement A.

Guideline

Measurement of A	20 mm (0.79 in)	
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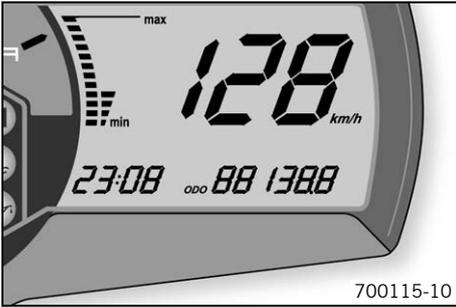
Fuel tank content	12 l (3.2 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (☛ S. 13)
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- Close the filler cap. (☛ S. 7)
- Press the **SET** ❷ function button for 2 seconds.
- ✓ The fuel level warning lamp ❶ switches off. **TRIP F** is set to 0 and appears in the previous display mode.



**i Info**  
If you do not press the **SET** ❷ function button, the reset takes place automatically after about 3 minutes.

**Setting the clock**



**Condition**

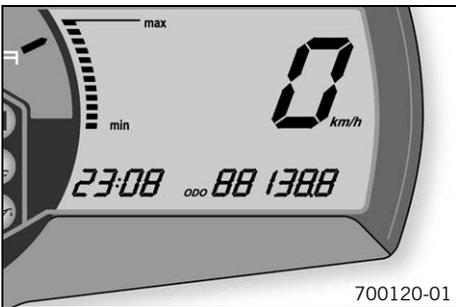
The motorcycle is standing.

- Switch on the ignition by turning the ignition key in the position **ON** (690 ENDURO USA).
- Press the **MODE** button several times until the **ODO** display mode is active.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
  - ✓ The time begins to flash.
- Press the **MODE** button to adjust the hour.
- Press the **SET** button to adjust the minute.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
  - ✓ The time is set.

**Setting kilometers or miles**

**i Info**

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



**Condition**

The motorcycle is standing.

- Switch on the ignition by turning the ignition key in the position **ON** (690 ENDURO USA).
- Press the **MODE** button several times until the **ODO** display 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 <b>MODE</b> button	10 s
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Remaining screws, chassis	M5	4 Nm (3 lbf ft)	–
Spoke nipple, front wheel	M5	4 Nm (3 lbf ft)	–
Spoke nipple, rear wheel	M5	4 Nm (3 lbf ft)	–
Screw, exhaust heat shield	M5	8 Nm (5.9 lbf ft)	–
Screw, electrical holder	M5	3 Nm (2.2 lbf ft)	–
Screw, footbrake pedal foothold	M5	6 Nm (4.4 lbf ft)	<b>Loctite® 243™</b>
Screw, fuel pump	M5	6 Nm (4.4 lbf ft)	–
Screw, fuel level indicator	M5	3 Nm (2.2 lbf ft)	–
Screw, side cover	M5	2 Nm (1.5 lbf ft)	–
Screw, headlight mask	M5	5 Nm (3.7 lbf ft)	–
Screw, side stand switch	M5	3 Nm (2.2 lbf ft)	–
Screw, seat lock	M5	3 Nm (2.2 lbf ft)	<b>Loctite® 222</b>
Screw, starter cable on starter	M5	3 Nm (2.2 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, brake fluid reservoir of rear brake	M6	5 Nm (3.7 lbf ft)	–
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	<b>Loctite® 243™</b>
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	<b>Loctite® 243™</b>
Screw, license plate holder, bottom	M6	8 Nm (5.9 lbf ft)	–
Screw, ball joint of push rod on foot-brake cylinder	M6	10 Nm (7.4 lbf ft)	<b>Loctite® 243™</b>
Screw, radiator bracket	M6	5 Nm (3.7 lbf ft)	–
Screw, magnetic holder on side stand	M6	10 Nm (7.4 lbf ft)	<b>Loctite® 243™</b>
Screw, voltage regulator/rectifier	M6	8 Nm (5.9 lbf ft)	–
Screw, SLS valve	M6	4 Nm (3 lbf ft)	–
Screw, ignition lock	M6	10 Nm (7.4 lbf ft)	<b>Loctite® 243™</b>
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	<b>Loctite® 243™</b>
Nut, manifold on cylinder head	M8	25 Nm (18.4 lbf ft)	Copper paste
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	–
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	–
Screw, exhaust clamp on main silencer	M8	25 Nm (18.4 lbf ft)	–
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
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)	<b>Loctite® 243™</b>
Screw, heel protector	M8x12	8 Nm (5.9 lbf ft)	–
Screw, rear footrest bracket	M8x16	25 Nm (18.4 lbf ft)	–
Screw, front footrest bracket	M8	25 Nm (18.4 lbf ft)	–
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)	–
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)	–
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	–
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	<b>Loctite® 243™</b>
Screw, handrail	M8	20 Nm (14.8 lbf ft)	–
Screw, license plate holder, top	M8	20 Nm (14.8 lbf ft)	–
Screw, fuel tank, top	M8	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
Screw, fuel tank, bottom	M8	25 Nm (18.4 lbf ft)	–
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	<b>Loctite® 243™</b>
Screw, side stand bracket	M8	25 Nm (18.4 lbf ft)	–

Screw, connection lever on frame	M8	30 Nm (22.1 lbf ft)	–
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	–
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	–
Engine carrying screw	M10	45 Nm (33.2 lbf ft)	<b>Loctite® 243™</b>
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	<b>Loctite® 243™</b>
Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)	<b>Loctite® 243™</b>
Screw, foot brake pedal	M10LH	25 Nm (18.4 lbf ft)	<b>Loctite® 243™</b>
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	–
Screw, engine bearer on frame	M10	45 Nm (33.2 lbf ft)	–
Screw, side stand	M10	35 Nm (25.8 lbf ft)	<b>Loctite® 243™</b>
Lambda probe	M12x1.25	24.5 Nm (18.07 lbf ft)	–
Screw, swingarm pivot	M12x1.75	80 Nm (59 lbf ft)	–
Nut, linkage lever to rocker arm	M14x1.5	100 Nm (73.8 lbf ft)	–
Nut, linkage lever on swingarm	M14x1.5	100 Nm (73.8 lbf ft)	–
Screw, top steering head	M20x1.5	10 Nm (7.4 lbf ft)	–
Screw, bottom steering head	M20x1.5	60 Nm (44.3 lbf ft)	<b>Loctite® 243™</b>
Screw, front wheel spindle	M24x1.5	40 Nm (29.5 lbf ft)	–
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	–

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

### **according to**

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



3211382en



04/2008 Photo: Mitterbauer



**KTM-Sportmotorcycle AG**  
5230 Mattighofen/Austria  
<http://www.ktm.com>