SETUP INSTRUCTIONS 2011





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 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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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.



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



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



Identifies 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.



Identifies a voltage measurement.



Identifies a current measurement.



Identifies a resistance measurement.

Formats used

The typographical formats used in this document are explained below.

Specific name

Identifies a specific name.

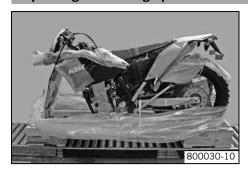
Name[®]

Identifies a protected name.

Brand™

Identifies a brand available on the open market.

Unpacking and setting up the vehicle



Packaging 2

- 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.

- Remove the separate enclosure and unpack it. Check that the scope of delivery is complete on the basis of the enclosed packing list.
- Have a lift stand available.

Lift stand (54829055000)

Carefully loosen and remove the tensioning belt over the link fork.



nfn

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.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.

Package 12

- Remove the box and the plastic packaging.



Info

An assistant prevents the motorcycle from falling over.

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

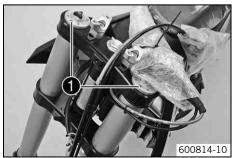
- Remove the separate enclosure and unpack it. Check that the scope of delivery is complete on the basis of the enclosed packing list.
- Have a lift stand available.

Lift stand (54829055000)

- Together with an assistant, take the vehicle off of the palette.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.
- Install the shock absorber. (* p. 10)







- Route the clutch line with the clutch master cylinder toward the front between the upper and lower triple clamps.
- Position the fork legs and tighten the screws of the triple clamp.
 Guideline

| Screw, top triple clamp (EXC USA, all SIX DAYS models) | M8 | 17 Nm (12.5 lbf ft) |
|---|----|------------------------|
| Screw, bottom triple clamp (EXC USA, all SIX DAYS models) | M8 | 12 Nm (8.9 lbf ft) |
| Screw, top triple clamp (EXC EU/AUS) | M8 | 20 Nm (14.8 lbf ft) |
| Screw, bottom triple clamp (EXC EU/AUS) | M8 | 15 Nm (11.1 lbf ft) |



Info

The upper milled groove in the fork leg must be flush with the top edge of the upper triple clamp.

Position bleeder screws 1 toward the front.



✓ The scale on the handlebar should be at the center of the handlebar clamp.

Position the handlebar clamps. Mount and tighten the screws.
 Guideline

| Screw, handlebar clamp | M8 | 20 Nm |
|------------------------|----|----------------|
| · | | (1/1 & lbf ft) |

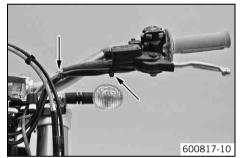
- Position the controls on the right half of the handlebar.



101034-10

Info

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



Position the controls on the left half of the handlebar.



Info

The figure shows how to route the clutch line and wiring harness.



(all EXC models)

 Attach the retaining bracket for the connector, the turn signal bracket with the turn signal and the speedometer to the upper triple clamp.

Guideline

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

Connect the connector.



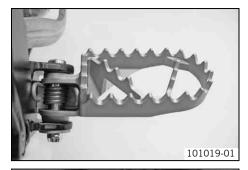
(XC-W SIX DAYS)

Attach the speedometer to the upper triple clamp.

Guideline

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

Connect the connector.



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

Plier for footrest spring (58429083000)



- Secure the handlebar cushion with two cable binders.
- Remove the protective plastic.
- Install the front fender. (* p. 9)
- Install the front wheel. (* p. 7)





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.
- Flush with copious amounts of water in case of skin contact. If battery acid comes into contact with the eyes, flush the eyes with water for at least 15 minutes and consult a physician.
- Fill the battery.



Info

Read the notes in the battery package.

- Recharge the battery. (* p. 8)
- Install the battery. (* p. 9)
- Unpack and mount the KTM PowerParts included in the delivery (optional).



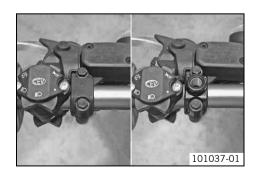
Info

Read the accompanying KTM PowerParts installation instructions.

- Apply the label included in the delivery (optional).

(all EXC models)

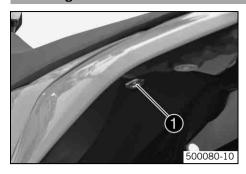
Mount the mirror clamps on both sides.





- Mount and tighten the rear mirror adapter and rear mirror on both sides.
- Position all controls exactly on the handlebar. Tighten all screws.
- Mount the reflector.
- Refuel. (p. 9)
- Print out the current PDI form found on KTM DEALER.NET and perform the delivery inspection.

Removing the seat



- Remove screw ①.
- Lift up the seat at the rear, pull it back and then remove it from above.

Mounting the seat



- Hook in the front of the seat at the collar sleeve of the fuel tank, lower it at the rear and simultaneously push it forward.
- Make sure that the seat is correctly locked in.
- Mount and tighten the screw of the seat fixing.
 Guideline

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

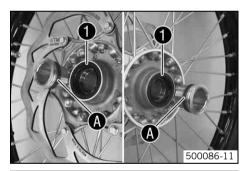
Installing the front wheel



Warning

Danger of accidents Reduced braking efficiency due to oil or grease on the brake discs.

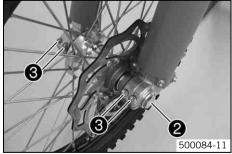
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is damaged or worn:
 - Change the wheel bearing.
- Clean and grease shaft seal rings **1** and bearing surface **2** of the spacers.

Long-life grease (* p. 13)

Insert the spacers.



- Lift the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw ②.

Guideline

| Screw, front wheel spindle | M24x1.5 | 45 Nm |
|----------------------------|---------|---------------|
| | | (33.2 lbf ft) |

- Activate the hand brake lever multiple times until the brake linings are in contact with the brake disc.
- Remove the motorcycle from the lift stand.
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Fully tighten screw **3**.

Guideline

| Screw, fork stub | M8 | 15 Nm |
|------------------|----|---------------|
| | | (11.1 lbf ft) |

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.
- Flush with copious amounts of water in case of skin contact. If battery acid comes into contact with the eyes, flush the
 eyes with water for at least 15 minutes and consult a physician.



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.



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.



- Remove the seat. (♥ p. 7)
- Disconnect the negative cable of the battery to avoid damage to the onboard electronics.
- Connect the battery charger to the battery. Switch on the battery charger.



Battery charger (58429074000)

You can also use the battery charger to test the open-circuit voltage and starting voltage of the battery, and to test the alternator. With this device, you cannot overcharge the battery.



Info

Never remove Iid 1.

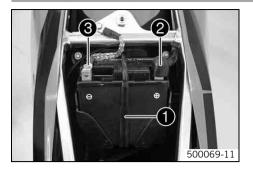
Charge the battery with a maximum of 10% of the capacity specified on battery housing ②.

Switch off the battery 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 | |

Mount the seat. (* p. 7)

Installing the battery



Place the battery in the battery holder.

Battery (YTX5L-BS)

- Reconnect the rubber band ①.
- Attach the plus cable and replace the plus pole cover ②.
- Attach the minus cable 3.
- Mount the seat. (* p. 7)

Installing the front fender



- Ensure that the spacers are mounted in the fender.
- Position the front fender. Mount and tighten screws ①.
 Guideline

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



Info

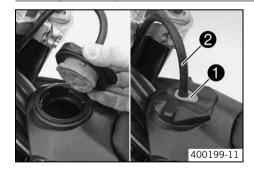
Make sure the holding lugs engage in the start number plate or headlight mask.

Opening filler cap



 Press release button 1, turn filler cap counterclockwise and lift it upwards and remove.

Closing filler cap



- Replace the filler cap and turn clockwise until the release button ● locks in place.



Info

Route the fuel tank breather hose ② without kinking.

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.

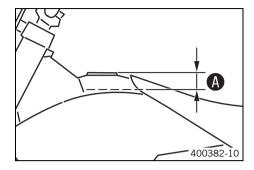
Avoid contact of the fuel with skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



- Switch off engine.
- Open the filler cap. (♥ p. 9)
- Fill the fuel tank with fuel up to measurement 4.
 Guideline

| Measurement of 4 | | 35 mm (1.38 in) |
|---|------------------------|--|
| Total fuel tank capacity, approx. (EXC EU/AUS, EXC SIX DAYS) | 9.5 l (2.51 US gal) | Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 12) |
| Total fuel tank capacity, approx. (XC-W SIX DAYS, EXC USA) | 9.2 l (2.43 US gal) | Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 12) |

Close the filler cap. (♥ p. 9)

Installing the shock absorber



Push splash protector • to the side and position the shock absorber. Mount and tighten screw •.

Guideline

| Screw, top shock absorber | M12 | 80 Nm | Loctite® 2701 |
|---------------------------|-----|-------------|---------------|
| | | (59 lbf ft) | |

Mount and tighten screw 3.

Guideline

| Screw, bottom shock | M12 | 80 Nm | Loctite® 2701 |
|---------------------|-----|-------------|---------------|
| absorber | | (59 lbf ft) | |



Info

The heim joint for the shock absorber at the swing arm is Teflon coated. It must not be greased with grease or with other lubricants. Lubricants dissolve the Teflon coating, thereby drastically reducing the service life.

- Remove the motorcycle from the lift stand.

| Spoke nipple, front wheel | M4.5 | 5 6 Nm (3.7 4.4 lbf ft) | _ |
|---|---------|-------------------------|---------------------------|
| Screw, spoiler on fuel tank | M5x12 | 1.5 Nm (1.11 lbf ft) | _ |
| (XC-W SIX DAYS, EXC USA) | | | |
| Spoke nipple, rear wheel | M5 | 5 6 Nm (3.7 4.4 lbf ft) | - |
| Remaining nuts, chassis | M6 | 15 Nm (11.1 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) | - |
| Screw, chain sliding guard | M6 | 6 Nm (4.4 lbf ft) | Loctite [®] 243™ |
| Screw, front brake disc | M6 | 14 Nm (10.3 lbf ft) | Loctite [®] 243™ |
| Screw, rear brake disc | M6 | 14 Nm (10.3 lbf ft) | Loctite [®] 243™ |
| Screw, shock absorber adjusting ring | M6 | 5 Nm (3.7 lbf ft) | _ |
| Nut, foot brake lever stop | M8 | 20 Nm (14.8 lbf ft) | _ |
| Nut, rear sprocket screw | M8 | 35 Nm (25.8 lbf ft) | Loctite® 2701 |
| Nut, rim lock | M8 | 10 Nm (7.4 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 (EXC USA, all SIX DAYS models) | M8 | 12 Nm (8.9 lbf ft) | - |
| Screw, bottom triple clamp (EXC EU/AUS) | M8 | 15 Nm (11.1 lbf ft) | _ |
| Screw, chain sliding piece | M8 | 15 Nm (11.1 lbf ft) | _ |
| Screw, engine brace | M8 | 33 Nm (24.3 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, handlebar clamp | M8 | 20 Nm (14.8 lbf ft) | _ |
| Screw, side stand fixing | M8 | 40 Nm (29.5 lbf ft) | Loctite® 2701 |
| Screw, subframe | M8 | 35 Nm (25.8 lbf ft) | Loctite® 2701 |
| Screw, top steering stem (EXC USA, all SIX DAYS models) | M8 | 17 Nm (12.5 lbf ft) | Loctite [®] 243™ |
| Screw, top steering stem (EXC EU/AUS) | M8 | 20 Nm (14.8 lbf ft) | - |
| Screw, top triple clamp (EXC USA, all SIX DAYS models) | M8 | 17 Nm (12.5 lbf ft) | - |
| Screw, top triple clamp (EXC EU/AUS) | M8 | 20 Nm (14.8 lbf ft) | _ |
| Engine attachment bolt | M10 | 60 Nm (44.3 lbf ft) | - |
| Remaining nuts, chassis | M10 | 50 Nm (36.9 lbf ft) | - |
| Remaining screws, chassis | M10 | 45 Nm (33.2 lbf ft) | - |
| Screw, handlebar support | M10 | 40 Nm (29.5 lbf ft) | Loctite® 243™ |
| Screw, bottom shock absorber | M12 | 80 Nm (59 lbf ft) | Loctite® 2701 |
| Screw, top shock absorber | M12 | 80 Nm (59 lbf ft) | Loctite® 2701 |
| Nut, seat fixing | M12x1 | 20 Nm (14.8 lbf ft) | _ |
| Nut, swingarm pivot | M16x1.5 | 100 Nm (73.8 lbf ft) | _ |
| Nut, rear wheel spindle | M20x1.5 | 80 Nm (59 lbf ft) | - |
| Screw, bottom steering head (XC-W SIX DAYS) | M20x1.5 | 60 Nm (44.3 lbf ft) | Loctite [®] 243™ |
| Screw, top steering head | M20x1.5 | 10 Nm (7.4 lbf ft) | _ |
| Screw-in nozzles, cooling system | M20x1.5 | 12 Nm (8.9 lbf ft) | Loctite [®] 243™ |
| Screw, front wheel spindle | M24x1.5 | 45 Nm (33.2 lbf ft) | _ |
| • | I . | 1 | ı |

SUBSTANCES 12

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

According to

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

Long-life grease

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Bike Grease 2000



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