SETUP INSTRUCTIONS 2011

250 SX-F EU 250 SX-F USA

Art. no. 3211676en





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. to a work step or a function).



Identifies an unexpected reaction (e.g. to 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 following typographical formats are used.

Proprietary name

Identifies a proprietary name.

Name[®]

Identifies a protected name.

Brand™

Identifies a brand in merchandise traffic.

SET-UP

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.



nfo

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.



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Lift stand (54829055000)

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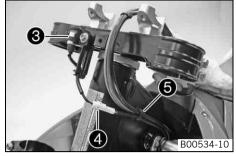


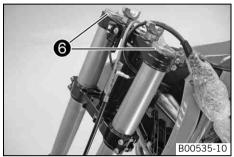
- 101014-10
- Remove the cardboard from around the shock absorber.
- Position the angle lever and linkage lever.
- Mount and tighten screw cap ①.
 Guideline

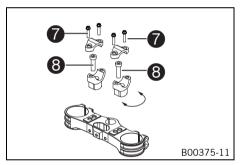
Nut, frame to linkage lever	M14x1.5	80 Nm (59 lbf ft)
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Mount and tighten screw 2.

SET-UP 4











Guideline

Screw, bottom shock	M10	60 Nm	Loctite [®] 243™
absorber		(44.3 lbf ft)	

- Position **FI** warning lamp with holder **3**. Mount and tighten the screw. Guideline

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

- Plug connector 4 into the wiring harness.
- Mount cable holder 6 on the frame.
- 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	M8	17 Nm (12.5 lbf ft)
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)



nfo

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

Position bleeder screws 6 toward the front.

- Remove screws **1**. Remove the handlebar clamp.
- Remove screws 3. Remove the handlebar support.
- Place the handlebar support in the required position. Mount and tighten screws 3.
 Guideline

Screw, handlebar support	M10	40 Nm	Loctite® 243™
		(29.5 lbf ft)	



Info

Position the left and right handlebar supports evenly.

Position the handlebar.



Info

Make sure cables and wiring are positioned correctly.

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

Screw, handlebar clamp	M8	20 Nm
		(14.8 lbf ft)



Info

The markings on the handlebar should be at the center of the handlebar clamps.

Keep the gap widths equal when tightening.

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



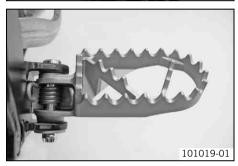
Info

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

SET-UP 5







Position the controls on the left half of the handlebar.



Info

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

- Install the front fender. (* p. 6)
- Install the front wheel. (* p. 6)
- Correctly mount the fuel tank breather.
- Secure the handlebar cushion with two cable binders.
- Install the start number plate. (* p. 6)

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

Plier for footrest spring (58429083000)

- 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).
- Refuel. (* p. 7)
- Position all controls exactly on the handlebar. Tighten all screws.
- Print out the current PDI form found on KTM DEALER.NET and perform the delivery inspection.

WORK

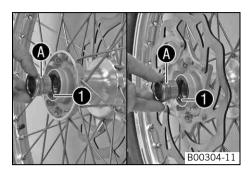
Installing the front wheel



Warning

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

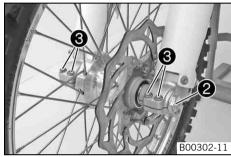
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



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

Long-life grease (p. 11)

Insert the spacers.



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

Guideline

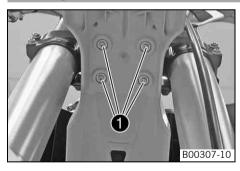
Screw, front wheel spindle	M24x1.5	45 Nm
·		(33.2 lbf ft)

- 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 brake and compress the fork powerfully a few times.
 - ✓ The fork legs straighten.
- Tighten screws 3.

Guideline

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

Installing the front fender



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

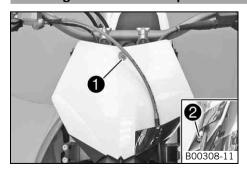
Remaining screws, chassis M6 10 Nm (7.4 lbf ft)



Info

Make sure the holding lugs engage in the start number plate.

Installing the start number plate



Position the start number plate. Mount and tighten screw ①.
 Guideline

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



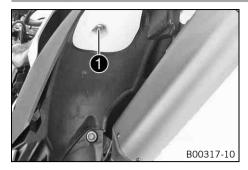
Info

Make sure that the holding lugs engage in the fender.

- Position the brake line and clamp. Mount and tighten screw 2.

WORK

Removing the seat



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

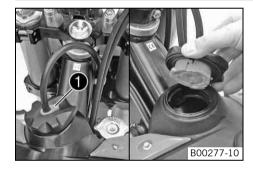
Mounting the seat



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

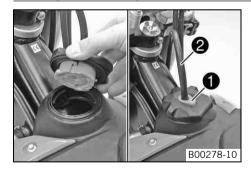
Remaining screws, chassis M6 10 Nm (7.4 lbf ft)

Opening the filler cap



Press release button •, turn the filler cap counterclockwise and lift it free.

Closing the filler cap



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



Info

Run the fuel tank breather hose ② without kinks.

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.

WORK

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.

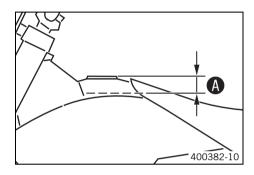
Only refuel with clean fuel that meets the specified standards.



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.



- Switch off the engine.
- Open the filler cap. (♥ p. 7)
- Fill the fuel tank with fuel up to measurement (a).
 Guideline

Measurement of 4		35 mm (1.38 in)	
Total fuel tank capacity, approx.	7.5 l (1.98 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (p. 10)	

Close the filler cap. (* p. 7)

Spoke nipple, front wheel	M4.5	5 6 Nm (3.7 4.4 lbf ft)	_
Spoke nipple, rear wheel	M4.5	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)	Loctite® 243 TM
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™
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	M8	12 Nm (8.9 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, subframe	M8	35 Nm (25.8 lbf ft)	Loctite® 2701
Screw, top steering stem	M8	17 Nm (12.5 lbf ft)	Loctite [®] 243™
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)	_
Engine carrying screw	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, bottom shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Nut, seat fixing	M12x1	20 Nm (14.8 lbf ft)	_
Nut, frame to linkage lever	M14x1.5	80 Nm (59 lbf ft)	-
Nut, linkage lever on swingarm	M14x1.5	80 Nm (59 lbf ft)	_
Nut, linkage lever to angle lever	M14x1.5	80 Nm (59 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, 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)	-

SUBSTANCES 10

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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