# **SETUP INSTRUCTIONS 2018**



# 250 SX-F 250 XC-F

Art. no. 3213710en





Perform the work described in these setup instructions before the vehicle is delivered to the customer.

Read the setup instructions in their entirety before beginning work.

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 GmbH 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 figures and descriptions, misprints, and other errors. The models portraved partly contain special equipment that does not belong to the regular scope of supply.

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REG.NO. 12 100 6061

KTM Sportmotorcycle GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models:

250 SX-F EU (F8101R5)

250 SX-F US (F8175R5)

250 XC-F US (F8175R0)



## 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.



Indicates a voltage measurement.



Indicates a current measurement.



Indicates a resistance measurement.



Indicates the end of an activity including potential rework.

## 1.2 Formats used

The typographical formats used in this document are explained below.

**Proprietary name** Indicates a proprietary name.

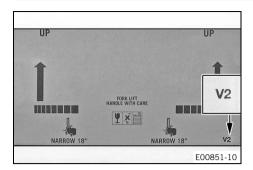
Name® Indicates a protected name.

**Brand™** Indicates a brand available on the open market.

<u>Underlined terms</u> Refer to technical details of the vehicle or indicate technical terms, which

are explained in the glossary.

## 2.1 Unpacking and setting up the vehicle



#### Package 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 supply is complete on the basis of the enclosed packing list.
- Have a lift stand available.

Lift stand (78129955100)

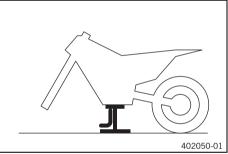
 Carefully loosen and remove the tension belt of the footrest mount.



#### Info

An assistant prevents the motorcycle from falling

- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.



#### Package 12

Remove the box and the plastic packaging.

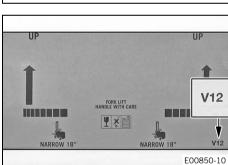


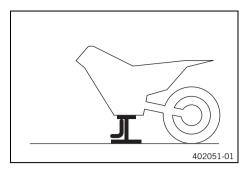
## Info

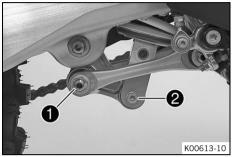
An assistant prevents the motorcycle from falling over

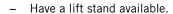
To avoid damaging the motorcycle during the setup, leave the protective film on the vehicle until you have finished.

 Remove the separate enclosure and unpack it. Check that the scope of supply is complete on the basis of the enclosed packing list.









## Lift stand (78129955100)

- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle for transport damage.
- Remove the cardboard from around the shock absorber.
- Position the angle lever and linkage lever.
- Mount and tighten fitting 1. Guideline

Nut, linkage lever to	M14x1.5	80 Nm (59 lbf ft)
angle lever		

Mount and tighten screw 2. Guideline

Screw, bottom	M10	60 Nm (44.3 lbf ft)
shock absorber		Loctite®2701™

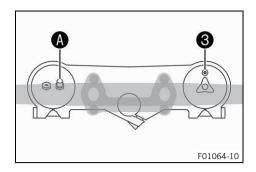


## Info

Raise the wheel slightly to be able to mount the screw more easily.



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)

- Air release screw 3 of the right fork leg is positioned to the front.
- ✓ Valve ♠ of the left fork leg faces the front.



#### Info

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the top edge of the upper triple clamp. The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.

Remove screws **4**. Take off the handlebar clamp. Remove the handlebar and lay it to one side.



#### Info

Cover the components to protect them against damage. Do not kink the cables and lines.

- Remove screws 6. Take off handlebar supports 6.
- Position rubber bushings 7 and push through nuts 8 from below
- Place the handlebar supports in the required position.



#### Info

The handlebar supports are longer and higher on one side

Position the left and right handlebar supports evenly.

Mount and tighten screws 6.



Screw, handle-	M10	40 Nm (29.5 lbf ft)
bar support		Loctite®243™





K00620-11

## Warning

**Danger of accidents** A repaired handlebar poses a safety risk.

If the handlebar is bent or straightened, the material becomes fatigued. The handlebar may break as a result.

- Change the handlebar if the handlebar is damaged or bent.
- Position the handlebar.

## Info

Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamp.
- Mount screws 4 but do not tighten yet.
- First bolt the handlebar clamp with screws **4** onto the longer, higher side of the handlebar supports so that both parts touch.
- Tighten screws 4 evenly.

## Guideline

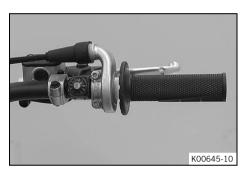
Screw, handlebar	M8	20 Nm (14.8 lbf ft)
clamp		



#### 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.



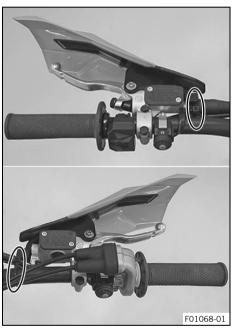
Position the controls on the left half of the handlebar.
 Guideline

Screw, fixed	M4	5 Nm (3.7 lbf ft)
grip		Loctite®243™

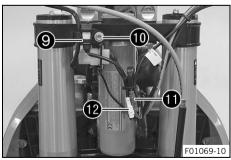


## (XC-F US)

- Preassemble the hand guards on the left and right.



- Mount the left hand guard.
- Mount the right hand guard.



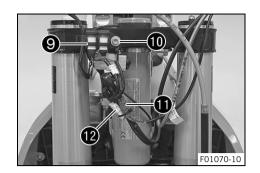
## (All SX-F models)

Position indicator lamp attachment **9** with malfunction indicator lamp. Mount and tighten screw **10**.

Guideline

Rema	ining screws,	M6	10 Nm (7.4 lbf ft)
chass	is		

- Join plug-in connector 11.
- Join plug-in connector 12.
- Route the cable without tension and secure with cable tie.
- Correctly mount the fuel tank breather.



## (XC-F US)

## Guideline

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

- Join plug-in connector 🚺.
- Join plug-in connector 📵.
- Route the cable without tension and secure with cable tie.
- Correctly mount the fuel tank breather.
- Mount the handlebar cushion.
- Install the front wheel. (
   p. 14)
- Install the start number plate. (🕮 p. 15)



## (SX-F EU)

- **WARNING**-Apply sticker to the rear fender.



## Left and right footrest (All SX-F models)

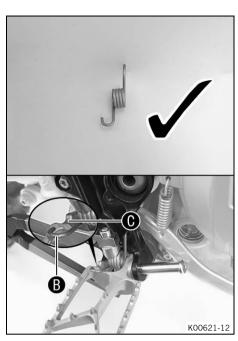
Position the new footrest and pin.

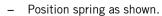


#### Info

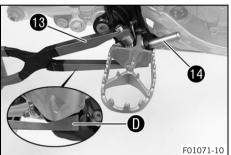
Only insert the pin to the extent that the spring can still be mounted.



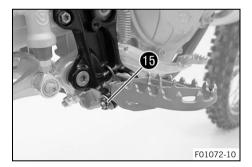




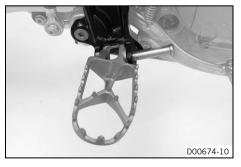
✓ Spring **B** engages in area **C**.



- Press the spring with special tool 13.
  - Pliers for footrest spring (79029083000)
  - $\checkmark$  The special tool is applied to area  $oldsymbol{0}$  on the footrest.
- Mount pin 4.



- Mount the washer and split pin 15.
- Repeat these steps on the opposite side.



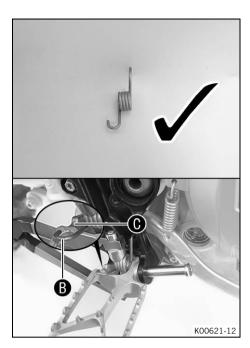
## Right footrest (XC-F US)

Position the right footrest and pin.

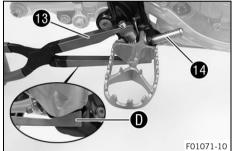


### Info

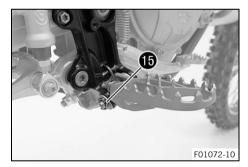
Only insert the pin to the extent that the spring can still be mounted.



- Position spring as shown.
  - ✓ Spring **B** engages in area **G**.



- Press the spring with special tool **13**.
  - Pliers for footrest spring (79029083000)
  - $\checkmark$  The special tool is applied to area  $\bigcirc$  on the footrest.
- Mount pin 🚯.



- Mount the washer and split pin 13.



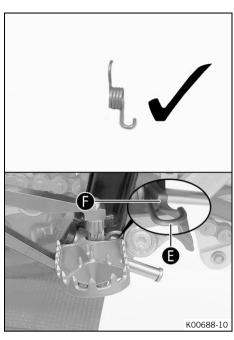
## Left footrest (XC-F US)

Position the left footrest and pin.

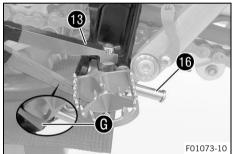


#### Info

Only insert the pin to the extent that the spring can still be mounted.



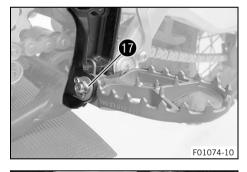
- Position spring as shown.
  - ✓ Spring **(B)** engages in area **(F)**.



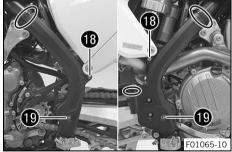
Press the spring with special tool 13.

Pliers for footrest spring (79029083000)

- $\checkmark$  The special tool is applied to area  $\textcircled{\textbf{G}}$  on the footrest.
- Mount pin 16.



Mount the washer and split pin 17.



- Position the frame protectors on both sides.
- Mount and tighten screws 18.
   Guideline

Screw, frame protector M5 3 Nm (2.2 lbf ft)

Mount and tighten screws (19) with the washers.
 Guideline

Screw, frame protector M5 3 Nm (2.2 lbf ft)

- Mount the cable tie(s).
- Recharge the battery. (■ p. 17)

Unpack and mount the KTM PowerParts included in the delivery (optional).

# i

#### Info

Read the accompanying **KTM PowerParts** fitting instructions

- Apply the sticker included in the delivery (optional).
- Refuel. (♥ p. 20)
- Position all controls in their exact positions on the handlebar.
   Tighten all screws.
- Prepare the vehicle according to the specifications in the
   KTM Dealer.net for handover to the customer.



### Info

Transport mode must be deactivated to be able to start the motorcycle.

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## 3.1 Raising the motorcycle with a lift stand

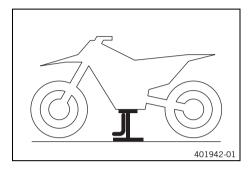
#### Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.



- Raise the motorcycle at the frame underneath the engine.

Lift stand (78129955100)

- ✓ Neither wheel is in contact with the ground.
- Secure the motorcycle against falling over.

3.2 Removing the motorcycle from the lift stand

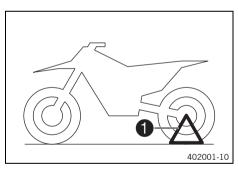
#### Note

Material damage The vehicle may be damaged by incorrect procedure when parking.

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.



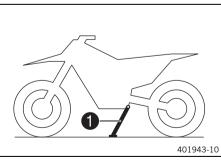
## (All SX-F models)

- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand into the left side of the wheel spindle.



#### Info

Remove the plug-in stand before riding.



## (XC-F US)

- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, press side stand 1 to the ground with your foot and lean the motorcycle on it.



#### Info

While riding, the side stand must be folded up and secured with the rubber band.

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## 3.3 Installing the front wheel

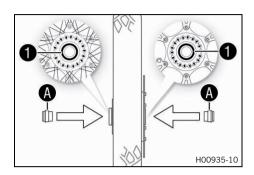


## Warning

Danger of accidents Oil or grease on the brake discs reduces the braking effect.

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

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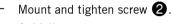
- » If the wheel bearing is damaged or worn:
  - Change front wheel bearing.
- Clean and grease shaft seal rings **1** and contact surface **A** of the spacers.

Long-life grease (🕮 p. 25)

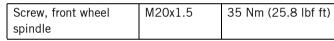
- Insert the spacers.
- Clean and grease the wheel spindle.

Long-life grease (🕮 p. 25)

- Position the front wheel and insert the wheel spindle.
  - ✓ The brake linings are correctly positioned.







- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (

  p. 13)
- Operate the front brake and compress the fork a few times firmly.
  - ✓ The fork legs straighten.
- Tighten screws 3.

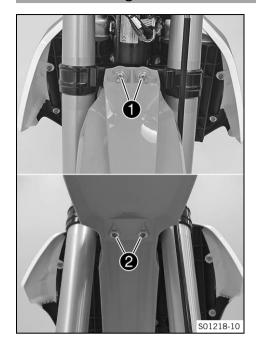
Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
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## 3.4 Installing front fender



#### Main work

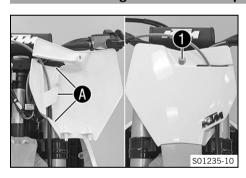
Position front fender. Mount and tighten screws 1 and 2.
 Guideline

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

## Finishing work

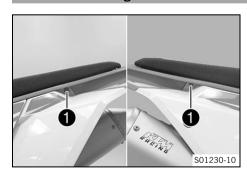
– Install the start number plate. (🕮 p. 15)

## 3.5 Installing the start number plate



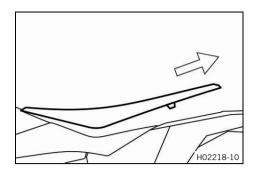
- Position the brake line in holders (A) on the start number plate.
- Position the start number plate. Mount and tighten screw 1.
   The holding lugs engage in the fender.

## 3.6 Removing the seat



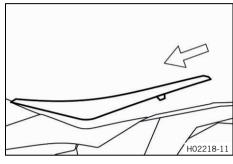
Remove screws 1.



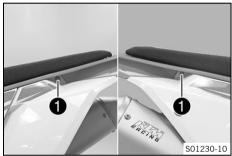


- Raise the rear of the seat, pull the seat back, and lift it off.

3.7 Mounting the seat



- Mount the front of the seat on the collar bushing of the fuel tank, lower the seat at the rear, and push the seat forward.

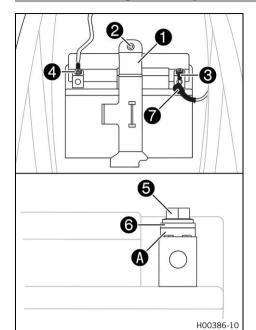


Mount and tighten screws 1.
Guideline

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

4

## 3.8 Installing the battery



#### Main work

Insert the battery into the battery compartment with the terminals facing forward and secure with holding bracket 1.

Battery (HJTZ5S-FP)

Mount and tighten screw 2.

Guideline

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

- Connect positive cable 3 to the battery.

Guideline

Screw, battery termi-	M5	2.5 Nm
nal		(1.84 lbf ft)

Connect negative cable 4 to the battery.

Guideline

Screw, battery termi-	M5	2.5 Nm
nal		(1.84 lbf ft)

Contact disks **A** must be mounted under screws **5** and cable sockets **6** with the claws toward the battery terminal.

- Slide positive terminal cover **7** over the positive terminal.

## **Finishing work**

Mount the seat. (

p. 16)

## 3.9 Recharging the battery



## Warning

**Risk of injury** Batteries contain harmful substances.

- Keep batteries out of the reach of children.
- Keep sparks and open flames away from the batteries.
- Only charge batteries in well-ventilated rooms.
- Maintain a minimum clearance from inflammable materials when charging batteries.

Minimum clearance

1 m (3 ft)

- Do not charge deeply discharged batteries if charge is already below the minimum voltage.
   Minimum voltage before the start of the charge 9 V
- Dispose of batteries with less than the minimum voltage correctly.



## Warning

 $\textbf{Environmental hazard} \quad \text{Batteries contain environmentally-hazardous materials}.$ 

- Do not dispose of batteries as household waste.
- Dispose of batteries at a collection point for used batteries.



#### Warning

**Environmental hazard** Hazardous substances cause environmental damage.

- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



#### Info

Even when there is no load on the battery, it discharges steadily.

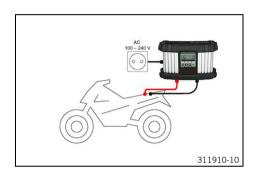
The charging level and the method of charging are very important for the service life of the battery. Rapid recharging with a high charging current shortens the service life of the battery.

If the charging current, charging voltage, or charging time are exceeded, the battery will be destroyed.

If the battery is depleted by repeated starting, 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 sulfated, destroying the battery.

The battery is maintenance-free.



#### **Preparatory work**

- Remove the seat. ( p. 15)

#### Main work

Connect the battery charger to the battery. Set the battery charger.

#### Alternative 1

Battery charger **XCharge-professional** EU (00029095050)

#### Alternative 2

Battery charger **XCharge-professional** US (00029095051)

#### Alternative 3

Battery charger **XCharge-professional** GB (00029095052)

#### Alternative 4

Battery charger **XCharge-professional** CH (00029095053)



#### Info

Follow the instructions of the charger and the manual.

Disconnect the battery charger after charging the battery.
 Guideline

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

Charge the battery regularly when the motorcycle is not in use

## Finishing work

- Mount the seat. (

p. 16)

## 3.10 Opening the filler cap



## **Danger**

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



## Warning

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

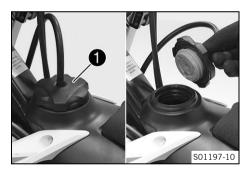
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.
- Keep fuels correctly in a suitable canister, and out of the reach of children.



#### Warning

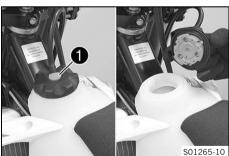
**Environmental hazard** Improper handling of fuel is a danger to the environment.

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



#### (All SX-F models)

Turn filler cap 1 counterclockwise and lift it off.



## (XC-F US)

Press release button 1, turn the filler cap counterclockwise, and lift it off.

## 3.11 Closing the filler cap



# 801198-10

#### (All SX-F models)

 Mount filler cap and turn it clockwise until the fuel tank is tightly closed.



#### Info

Route fuel tank breather hose **2** without kinks.

## (XC-F US)

 Replace the filler cap and turn clockwise until release button 1 locks in place.



## Info

Route fuel tank breather hose 2 without kinks.

## 3.12 Refueling



## Danger

Fire hazard Fuel is highly flammable.

The fuel in the fuel tank expands when warm and can escape if overfilled.

S01266-10

- Do not refuel the vehicle in the vicinity of open flames or lit cigarettes.
- Switch off the engine for refueling.
- Make sure that no fuel is spilled; particularly not on hot parts of the vehicle.
- If any fuel is spilled, wipe it off immediately.
- Observe the specifications for refueling.



## Warning

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

- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.
- Change your clothing in case of fuel spills on them.

## Note

Material damage Inadequate fuel quality causes the fuel filter to quickly become clogged.

In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.

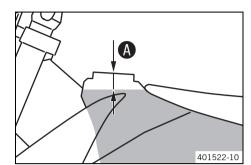
Refuel only with clean fuel that meets the specified standards.



## Warning

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

- Do not allow fuel to enter the groundwater, the soil, or the sewage system.



- Switch off the engine.
- Open the filler cap. (

  p. 19)
- Fill the fuel tank with fuel up to measurement A.
   Guideline

Measurement of (A)	35 mm (1.38 in)	
Total fuel tank capacity, approx. (All SX-F models)		
Super unleaded (ROZ 95/RON 95/PON 91) (  p. 24)	7 I (1.8 US gal)	
Total fuel tank capacity, approx. (XC-F US)		
Super unleaded (ROZ 95/RON 95/PON 91) (🕮 p. 24)	8.5 I (2.25 US gal)	

4

# 4.1 Chassis tightening torques

Screw, combination switch   Side PT® K50x18   3 km (2.2 lbf ft)	Screw, air filter box cover	EJOT PT® K60x20-Z	3 Nm (2.2 lbf ft)
Screw, Intake air temperature sensor			
Screw, pressure regulator			
Fitting, E-starter button M3 1 Nm (0.7 lbf ft)  Fitting, kill switch M3 1 Nm (0.7 lbf ft)  Screw, fixed grip M4 5 Nm (3.7 lbf ft)  Screw, service hour counter M4 1 Nm (0.7 lbf ft)  Spoke nipple, front wheel M4.5 6 Nm (4.4 lbf ft)  Spoke nipple, rear wheel M4.5 6 Nm (4.4 lbf ft)  Spoke nipple, rear wheel M4.5 5 Nm (3.7 lbf ft)  Remaining surew, chassis M5 5 Nm (3.7 lbf ft)  Screw, battery terminal M5 2.5 Nm (1.84 lbf ft)  Screw, battery terminal M5 2.5 Nm (1.84 lbf ft)  Screw, shock absorber adjusting ring  Nut, cable on starter motor M6 4 Nm (3 lbf ft)  Remaining sures, chassis M6 10 Nm (7.4 lbf ft)  Remaining sures, chassis M6 10 Nm (7.4 lbf ft)  Screw, battery terminal M5 10 Nm (7.4 lbf ft)  Screw, battery terminal M5 5 Nm (3.7 lbf ft)  Screw, battery terminal M5 6 Nm (4.4 lbf ft)  Screw, battery terminal M5 6 Nm (4.4 lbf ft)  Screw, battery terminal M5 10 Nm (7.4 lbf ft)  Screw, shock absorber adjusting ring  Nut, cable on starter motor M6 4 Nm (3 lbf ft)  Remaining nuts, 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, throttle grip M6 5 Nm (3.7 lbf ft)  Loctite®243™  Nut, foot brake lever stop M8 20 Nm (14.8 lbf ft)  Nut, rear sprocket screw M8 20 Nm (14.8 lbf ft)  Nut, rear sprocket screw M8 25 Nm (18.4 lbf ft)  Nut, rear sprocket screw M8 25 Nm (18.4 lbf ft)  Screw, death attachment M8 25 Nm (25.8 lbf ft)  Loctite®2701™  Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Loctite®243™  Loctite®243™  Loctite®243™	· ·	IOXIZ Z	
Fitting, kill switch	Screw, pressure regulator	EJOT PT® K60x25-Z	3 Nm (2.2 lbf ft)
Screw, fixed grip	Fitting, E-starter button	M3	1 Nm (0.7 lbf ft)
Screw, service hour counter   M4	Fitting, kill switch	M3	1 Nm (0.7 lbf ft)
Screw, service hour counter	Screw, fixed grip	M4	5 Nm (3.7 lbf ft)
Spoke nipple, front wheel			
Spoke nipple, rear wheel	·		· · · · · · · · · · · · · · · · · · ·
Remaining nuts, chassis   M5   5 Nm (3.7 lbf ft)			6 Nm (4.4 lbf ft)
Remaining screws, chassis	Spoke nipple, rear wheel	M4.5	
Screw, battery terminal   M5   2.5 Nm (1.84 lbf ft)	Remaining nuts, chassis	M5	
Screw, frame protector	Remaining screws, chassis	M5	
Screw, shock absorber adjusting ring  Nut, cable on starter motor  M6  A Nm (3 lbf ft)  Remaining nuts, chassis  M6  10 Nm (7.4 lbf ft)  Screw, ball joint of push rod on foot brake cylinder  Screw, chain sliding guard  M6  Crew, front brake disc  M6  A Nm (10.3 lbf ft)  Loctite®243™  Screw, rear brake disc  M6  A Nm (10.3 lbf ft)  Loctite®243™  Screw, throttle grip  M6  Screw, throttle grip  M6  M8  M8  M8  M8  M8  M8  M8  M8  M8			
ring  Nut, cable on starter motor  Nut, cable on starter motor  Remaining nuts, chassis  M6  10 Nm (7.4 lbf ft)  Remaining screws, chassis  M6  10 Nm (7.4 lbf ft)  Screw, ball joint of push rod on foot brake cylinder  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, throttle grip  M6  5 Nm (3.7 lbf ft)  Fuel connection on fuel tank  Nut, foot brake lever stop  M8  10 Nm (7.4 lbf ft)  Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, chain sliding piece  M8  15 Nm (11.1 lbf ft)  Screw, engine brace  M8  Loctite®243™  Loctite®243™  Loctite®243™  Loctite®2743™		M5	·
Nut, cable on starter motor         M6         4 Nm (3 lbf ft)           Remaining nuts, chassis         M6         10 Nm (7.4 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)           Screw, chain sliding guard         M6         6 Nm (4.4 lbf ft)           Screw, chain sliding guard         M6         14 Nm (10.3 lbf ft)           Screw, front brake disc         M6         14 Nm (10.3 lbf ft)           Screw, rear brake disc         M6         14 Nm (10.3 lbf ft)           Screw, throttle grip         M6         5 Nm (3.7 lbf ft)           Screw, throttle grip         M6         5 Nm (3.7 lbf ft)           Fuel connection on fuel tank         M8         10 Nm (7.4 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™         Loctite®2701™           Nut, rim lock         M8         25 Nm (18.4 lbf ft)           Remaining nuts, chassis         M8         25 Nm (18.4 lbf ft)           Screw side stand attachment (XC-F US)         Km         35 Nm (25.8 lbf ft)           Screw, bottom triple clamp		M5	5 Nm (3.7 lbf ft)
Remaining nuts, chassis M6 10 Nm (7.4 lbf ft) Remaining screws, chassis M6 10 Nm (7.4 lbf ft) Screw, ball joint of push rod on foot brake cylinder Screw, chain sliding guard M6 6 Nm (4.4 lbf ft) Screw, chain sliding guard M6 6 Nm (4.4 lbf ft) Screw, front brake disc M6 14 Nm (10.3 lbf ft) Screw, rear brake disc M6 14 Nm (10.3 lbf ft) Screw, throttle grip M6 5 Nm (3.7 lbf ft) Fuel connection on fuel tank M8 10 Nm (7.4 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) Nut, rim lock M8 12 Nm (8.9 lbf ft) Remaining nuts, chassis M8 25 Nm (18.4 lbf ft) Screw side stand attachment M8 35 Nm (25.8 lbf ft) Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft) Screw, chain sliding piece M8 15 Nm (11.1 lbf ft) Screw, engine brace M8 25 Nm (18.4 lbf ft) Screw, engine brace M8 25 Nm (18.4 lbf ft) Loctite®2701™ Loctite®2701™ Loctite®2701™ Loctite®2701™			
Remaining screws, chassis M6 10 Nm (7.4 lbf ft)  Screw, ball joint of push rod on foot brake cylinder  Screw, chain sliding guard M6 6 Nm (4.4 lbf ft)  Screw, chain sliding guard M6 6 Nm (4.4 lbf ft)  Screw, front brake disc M6 14 Nm (10.3 lbf ft)  Screw, rear brake disc M6 14 Nm (10.3 lbf ft)  Screw, throttle grip M6 5 Nm (3.7 lbf ft)  Fuel connection on fuel tank M8 10 Nm (7.4 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)  Nut, rim lock M8 12 Nm (8.9 lbf ft)  Remaining screws, chassis M8 25 Nm (18.4 lbf ft)  Screw side stand attachment M8 35 Nm (25.8 lbf ft)  Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Screw, engine brace M8 25 Nm (18.4 lbf ft)  Loctite®2701™  Loctite®243™  Loctite®243™	,		
Screw, ball joint of push rod on foot brake cylinder  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, throttle grip  M6  5 Nm (3.7 lbf ft)  Fuel connection on fuel tank  Nut, foot brake lever stop  M8  10 Nm (7.4 lbf ft)  Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw, side stand attachment  (XC-F US)  Screw, chain sliding piece  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®243™  Loctite®243™			
Foot brake cylinder  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, throttle grip  M6  5 Nm (3.7 lbf ft)  Fuel connection on fuel tank  M8  10 Nm (7.4 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  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment  (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®243™  Loctite®243™	<u> </u>		
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, throttle grip  M6  5 Nm (3.7 lbf ft)  Fuel connection on fuel tank  Nut, foot brake lever stop  M8  10 Nm (7.4 lbf ft)  Nut, rear sprocket screw  M8  20 Nm (14.8 lbf ft)  Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment  (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®243™		M6	
Screw, rear brake disc  M6  14 Nm (10.3 lbf ft)  Loctite®243™  Screw, throttle grip  M6  5 Nm (3.7 lbf ft)  Fuel connection on fuel tank  M8  10 Nm (7.4 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  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment  (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®243™  Loctite®243™	Screw, chain sliding guard	M6	
Screw, throttle grip M6 5 Nm (3.7 lbf ft)  Fuel connection on fuel tank M8 10 Nm (7.4 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)  Nut, rim lock M8 12 Nm (8.9 lbf ft)  Remaining nuts, chassis M8 25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Screw, engine brace M8 25 Nm (18.4 lbf ft)  Loctite®2701™  Loctite®243™  Loctite®243™	Screw, front brake disc	M6	
Fuel connection on fuel tank  Nut, foot brake lever stop  Nut, rear sprocket screw  M8  20 Nm (14.8 lbf ft)  Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Remaining screws, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  N8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, chain sliding piece  M8  15 Nm (11.1 lbf ft)  Screw, engine brace  M8  25 Nm (18.4 lbf ft)  Loctite®243™	Screw, rear brake disc	M6	
Fuel connection on fuel tank  Nut, foot brake lever stop  Nut, rear sprocket screw  M8  20 Nm (14.8 lbf ft)  Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Remaining screws, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  N8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, chain sliding piece  M8  15 Nm (11.1 lbf ft)  Screw, engine brace  M8  Loctite®243™  Loctite®243™	Screw, throttle grip	M6	5 Nm (3.7 lbf ft)
Nut, rear sprocket screw  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  M8  35 Nm (25.8 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, chain sliding piece  M8  12 Nm (8.9 lbf ft)  Screw, chain sliding piece  M8  25 Nm (11.1 lbf ft)  Loctite®243™  Loctite®243™	- :	M8	10 Nm (7.4 lbf ft)
Nut, rim lock  Remaining nuts, chassis  M8  25 Nm (18.4 lbf ft)  Remaining screws, chassis  M8  25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Loctite®2701™  Loctite®2701™  Screw, chain sliding piece  M8  15 Nm (11.1 lbf ft)  Screw, engine brace  M8  Loctite®243™	Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)
Nut, rim lockM812 Nm (8.9 lbf ft)Remaining nuts, chassisM825 Nm (18.4 lbf ft)Remaining screws, chassisM825 Nm (18.4 lbf ft)Screw side stand attachment (XC-F US)M835 Nm (25.8 lbf ft)Screw, bottom triple clampM812 Nm (8.9 lbf ft)Screw, chain sliding pieceM815 Nm (11.1 lbf ft)Screw, engine braceM825 Nm (18.4 lbf ft)Loctite®243™	Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)
Remaining nuts, chassis M8 25 Nm (18.4 lbf ft)  Remaining screws, chassis M8 25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Screw, engine brace M8 25 Nm (18.4 lbf ft)  Loctite®243™			Loctite®2701™
Remaining screws, chassis M8 25 Nm (18.4 lbf ft)  Screw side stand attachment (XC-F US)  Screw, bottom triple clamp M8 12 Nm (8.9 lbf ft)  Screw, chain sliding piece M8 15 Nm (11.1 lbf ft)  Screw, engine brace M8 25 Nm (18.4 lbf ft)  Loctite®243™		M8	
Screw side stand attachment (XC-F US)  Screw, bottom triple clamp  M8  12 Nm (8.9 lbf ft)  Screw, chain sliding piece  M8  15 Nm (11.1 lbf ft)  Screw, engine brace  M8  Loctite®243 <sup>TM</sup>	Remaining nuts, chassis	M8	
(XC-F US)       Loctite®2701™         Screw, bottom triple clamp       M8       12 Nm (8.9 lbf ft)         Screw, chain sliding piece       M8       15 Nm (11.1 lbf ft)         Screw, engine brace       M8       25 Nm (18.4 lbf ft)         Loctite®243™		M8	25 Nm (18.4 lbf ft)
Screw, chain sliding piece       M8       15 Nm (11.1 lbf ft)         Screw, engine brace       M8       25 Nm (18.4 lbf ft)         Loctite®243™			
Screw, engine brace M8 25 Nm (18.4 lbf ft)  Loctite®243 <sup>TM</sup>	Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)
Loctite®243™	Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
Screw, fork stub M8 15 Nm (11.1 lbf ft)	Screw, engine brace	M8	
	Screw, fork stub	M8	15 Nm (11.1 lbf ft)

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)
Screw, from brake camper	IVIO	Loctite®243 <sup>TM</sup>
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)
Screw, manifold on cylinder head brace	M8	15 Nm (11.1 lbf ft)
Screw, subframe	M8	35 Nm (25.8 lbf ft)  Loctite®2701™
Screw, top steering stem	M8	20 Nm (14.8 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	45 Nm (33.2 lbf ft)
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)
Screw, bottom shock absorber	M10	60 Nm (44.3 lbf ft)  Loctite®2701™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)  Loctite®243™
Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)  Loctite®2701™
Nut, fuel pump	M12	15 Nm (11.1 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)
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)
Screw-in nozzles, cooling system	M20x1.5	12 Nm (8.9 lbf ft)  Loctite®243™
Nut, rear wheel spindle	M25x1.5	80 Nm (59 lbf ft)

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

## Standard/classification

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).

## Long-life grease

Recommended supplier Motorex®

- Bike Grease 2000





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