SETUP INSTRUCTIONS 2023

READY TO RACE

150 EXC 150 XC-W

ART. NO. 3214714EN





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 model series. We reserve the right to make modifications in the interest of technical advancement without at the same time updating these setup instructions.

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.

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ISO 9001(12 100 6061)

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KTM Sportmotorcycle GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models:

150 EXC EU (F7103W6) 150 XC-W US (F7175W3)



3214714en

14.06.2022

1 MEANS OF REPRESENTATION

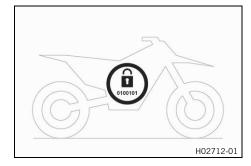
1.1	Symbols used		
The meani	The meaning of specific symbols is described below.		
\checkmark	Indicates an expected reaction (e.g. of a work step or a function).		
X	Indicates an unexpected reaction (e.g. of a work step or a function).		
	Indicates a page reference (more information is provided on the specified page).		
i	Indicates information with more details or tips.		
»	Indicates the result of a testing step.		
V	Indicates a voltage measurement.		
Α	Indicates a current measurement.		
Ω	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.
Underlined terms	Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary.

2.1 **Transport mode**



This vehicle was blocked for transport in the software.

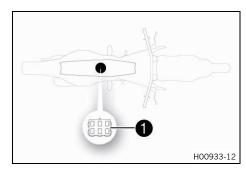
To operate the vehicle, the vehicle electronics must be enabled. This process is conducted during initial setup in KTM Dealer.net. Enabling ensures that the initial setup in KTM Dealer.net is documented.

Enabling can be performed either temporarily, e.g. for a test ride, or permanently for vehicle handover.



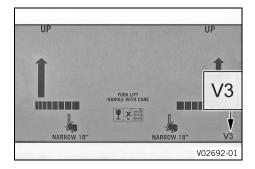
Make sure that the vehicle is permanently enabled before handing it over to the customer.

2.2 **Diagnostics connector**



Diagnostics connector 1 is located under the seat at the EFI control unit.

2.3 Unpacking and setting up the vehicle



Condition Packaging V3

Remove the box and the plastic packaging.



Info

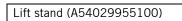
To avoid damaging the motorcycle during the setup, leave the protective film on the vehicle until you have finished.

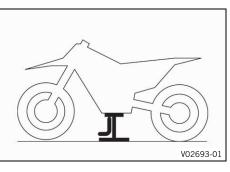
Remove the separate enclosure and unpack it. Check that the scope of supply is complete using the enclosed packing list.

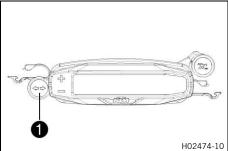


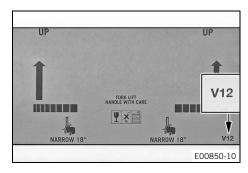
The procedure for missing components is described in the Customer Service Manual.

- Carefully loosen and remove the tension belts around the fork legs.
- Remove the attachment on the rear wheel.
- Have a lift stand available.









402051-01

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

• Info

The procedure in the event of transport damage is described in the Customer Service Manual.

– Remove the headlight mask with the headlight. (IP p. 29)

(150 EXC EU)

Position the turn signal indicator lamp 1 in the combination instrument bracket.

Condition

Packaging V12

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 and unpack the separate enclosure and components. Check that the scope of supply is complete using the enclosed packing list.

Info

The procedure for missing components is described in the Customer Service Manual.

- Have a lift stand available.

Lift stand (78129955100)

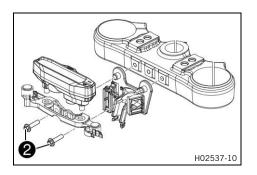
- Remove the two cable ties on the triple clamp.
- Together with an assistant, take the vehicle off the pallet.
- Position the vehicle on a lift stand.
- Check the vehicle and components for transport damage.

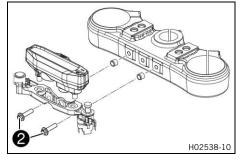
Info

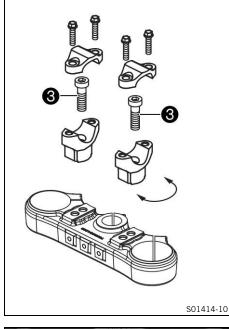
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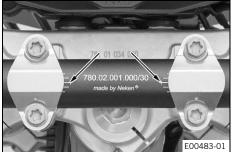
The procedure in the event of transport damage is described in the Customer Service Manual.

- Install the shock absorber. (🕮 p. 19)









(150 EXC EU)

- Position the connector board and combination instrument on the upper triple clamp.
- Mount and tighten screws **2**.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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(150 XC-W US)

- Position the combination instrument on the upper triple clamp.
- Mount and tighten screws ② with the collar bushings.
 Guideline

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

- Route the clutch line with the clutch master cylinder toward the front between the upper and lower triple clamps.
- Install the fork legs. (
 p. 20)
- Remove screws 🕄 and take off the handlebar supports.
- Move the handlebar supports to the desired position and mount and tighten screws 3.

Guideline

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



Position the left and right handlebar supports evenly.



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 clamps. Mount and tighten the screws evenly.

Guideline

Screw, handlebar M8 20 N clamp	m (14.8 lbf ft)
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lnfo

The markings on the handlebar should be at the center of the handlebar clamps. Keep the installed gap widths equal when tightening.

(150 EXC EU)

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



(150 XC-W US)

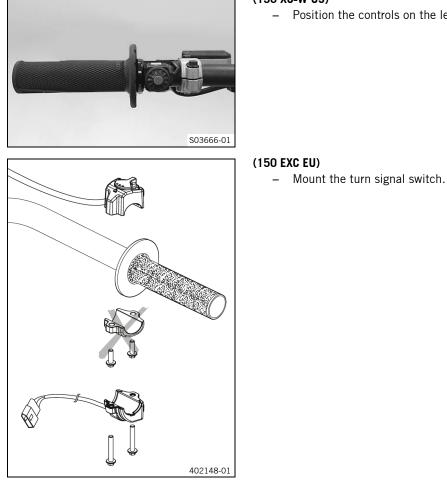
- Position the controls on the right half of the handlebar.



(150 EXC EU)

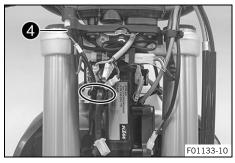
- Position the controls on the left handlebar half.

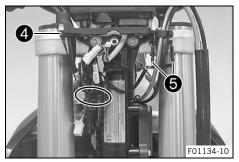




(150 XC-W US)

- Position the controls on the left handlebar half.





Condition

Packaging V12

(150 EXC EU)

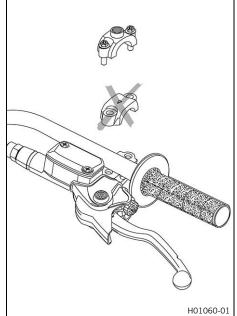
- Insert indicator lamp 4 in the socket.
- Join all plug-in connectors to the connector board.
- Route the cable without tension and secure with the cable ties.

(150 XC-W US)

- Insert indicator lamp 4 in the socket.
- Plug in light switch **5** with the yellow and white cables.
- Join all plug-in connectors.
- Route the cable without tension and secure with the _ cable ties.

2 SETUP





• Route the cable without tension and secure with cable ties and cable holders.

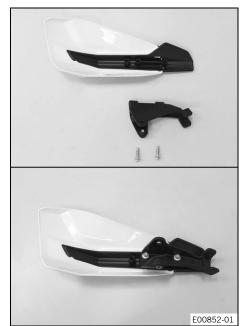
(150 EXC EU)

- Mount the mirror clamps on both sides.

- Colored Colore
- Mount both rear mirrors with the adapter.

SETUP 2

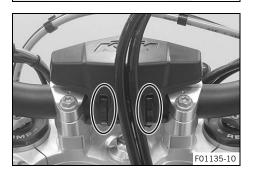
Preassemble the hand guards on the left and right.



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

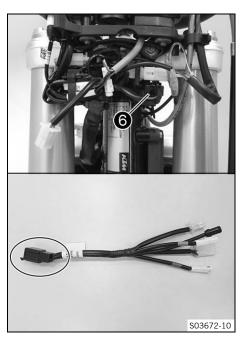


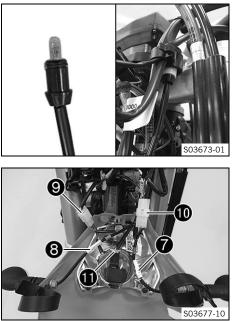


- Secure the handlebar cushion with two cable ties. -
- Install front fender. (📖 p. 28) _
- Install the front wheel. (🕮 p. 20) _
- Remove the 12-V battery. (🕮 p. 21) _
- Charge the 12-V battery. (🕮 p. 23)

(150 XC-W US)

- Install the headlight mask with the headlight. (I p. 30)
- Install the 12-V battery. (I p. 25)



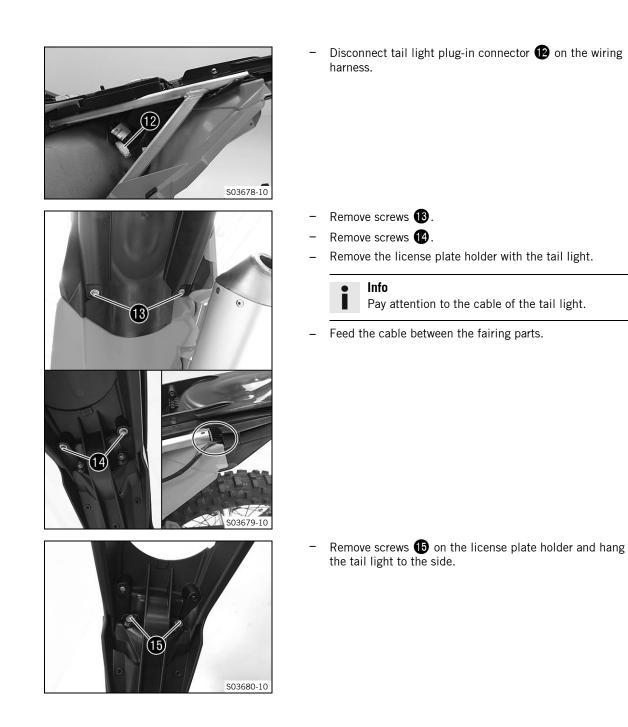


- (150 EXC EU)
 - Remove connector **6** from the bracket and join with turn signal wiring harness.

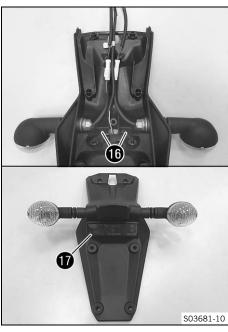
 Insert the black and violet cables of the bulb included in the separate enclosure into the socket and position it in the turn signal indicator lamp.

- Position the turn signal on the headlight mask on both sides, mount nuts with washers and tighten.
- Join plug-in connector of the left turn signal using the violet and brown cable colors of the turn signal cable harness.
- Join plug-in connector (3) of the right turn signal using the black and brown cable colors of the turn signal cable harness.
- Join plug-in connector (9) of the headlight.
- Connect plug-in connector **(D)** of the turn signal switch.
- Secure turn signal relay 1 with a cable tie and plug in the connector.
- Remove the air filter box cover. (I p. 27)
- Remove the rear left side cover. (El p. 28)

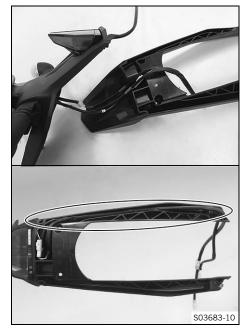
SETUP 2



11







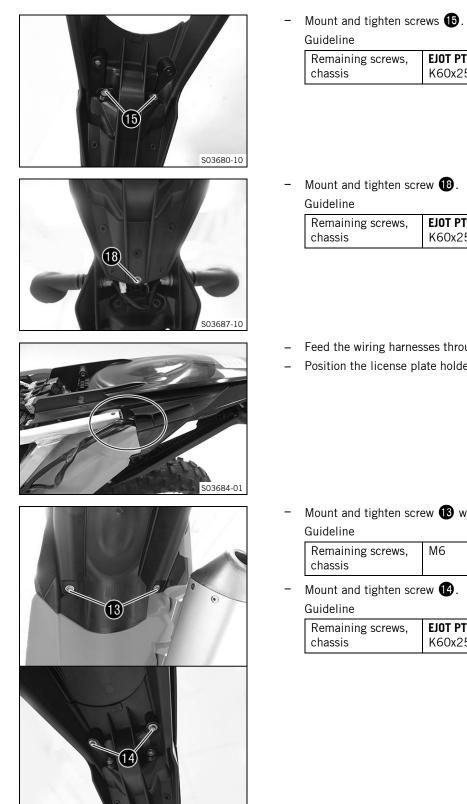
- Position the turn signal on both sides on the license plate holder, mount nuts with washers and tighten.
- Position the license plate lamp on the license plate holder, and mount and tighten screws (6).
- Mount reflector **1** on license plate holder.

 Drill a hole at marking (A) on the license plate holder to the size of the marking.

 Position the tail light together with the license plate holder on the license plate bracket.



Ensure that the cables are routed correctly.



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Remaining screws,	EJOT PT®	2 Nm (1.5 lbf ft)
chassis	K60x25-Z	

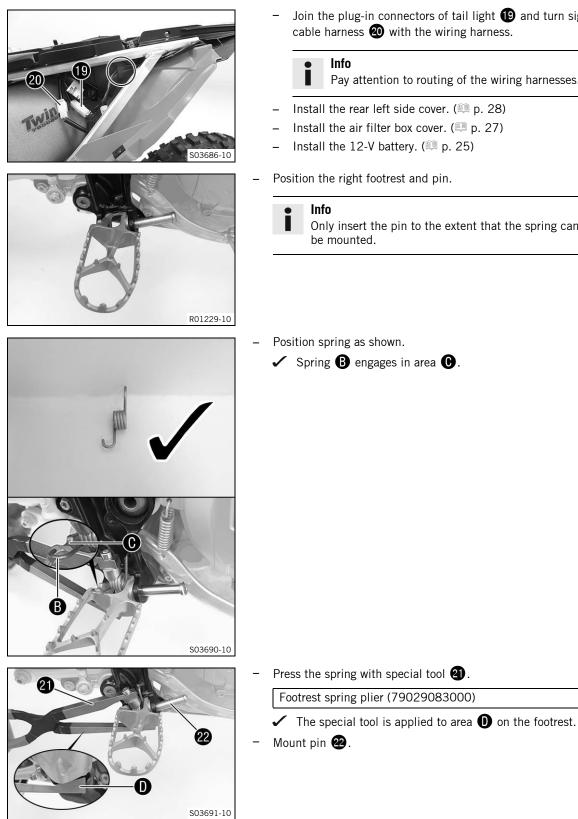
Remaining screws,	EJOT PT®	2 Nm (1.5 lbf ft)
chassis	K60x25-Z	

- Feed the wiring harnesses through the opening.
- Position the license plate holder on the rear.

Mount and tighten screw **(13)** with the collar bushing.

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

Remaining screws,	EJOT PT®	2 Nm (1.5 lbf ft)
chassis	K60x25-Z	



- Join the plug-in connectors of tail light (19) and turn signal cable harness 20 with the wiring harness.
 - Pay attention to routing of the wiring harnesses.
- Install the rear left side cover. (I p. 28)
- Install the air filter box cover. (
 p. 27)
- Install the 12-V battery. (
 p. 25)

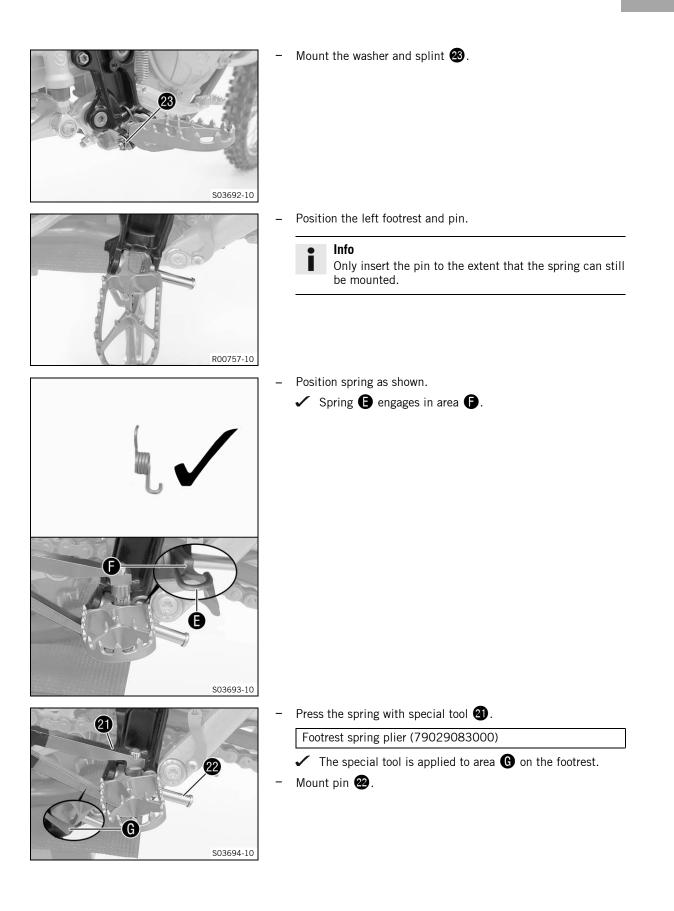
Position the right footrest and pin.

Only insert the pin to the extent that the spring can still

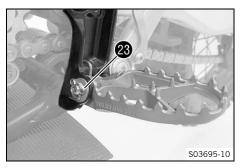
✓ Spring **B** engages in area **C**.

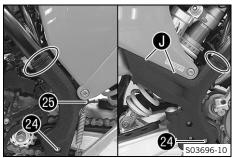
14

SETUP 2



2 SETUP





- Mount the washer and splint 23.

- Position the frame protectors on both sides.
- Hook in the frame protector in area 🕕.
- Mount and tighten screws 2.
 Guideline

Screw, frame protec- tor	M5	3 Nm (2.2 lbf ft)
101		

Mount and tighten screws 😰 with the washers.

Guideline

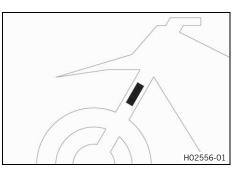
Screw, frame protec-	M5	3 Nm (2.2 lbf ft)
tor		

- Mount the cable ties.
 - Install the engine guard. (🕮 p. 31)
- Unpack and mount the **KTM PowerParts** included in the delivery (optional).

Info

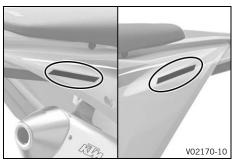
Read the accompanying **KTM PowerParts** fitting instructions.

- Make sure that the reflectors are glued on to the left and right fork leg.



Info

The reflectors must not be covered by trim parts.



- Stick displacement sticker on the left and right of the side cover.
- Attach the stickers included in the scope of supply (optional).
- Set kilometers or miles. (ER p. 34)
- Adjust combination instrument function. (IP p. 35)
- Set the clock. (💷 p. 36)
- Add 2-stroke oil. (🕮 p. 32)
- Refuel. (🕮 p. 33)
- Position all controls in their exact positions on the handlebar. Tighten all screws.

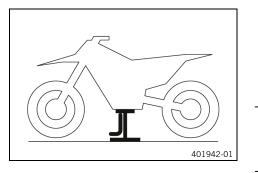
- Remove the remaining film, padding, the corrugated cardboard, and the other packaging material.
- Prepare the vehicle according to the specifications in KTM Dealer.net for handover to the customer.



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

3.1 Raising the motorcycle with a lift stand



Note

Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Raise the motorcycle at the frame underneath the engine.

Lift stand (78129955100)

Neither wheel is in contact with the ground.

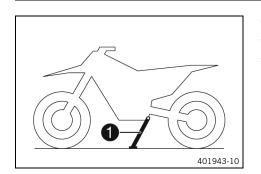
- Secure the motorcycle against falling over.

3.2 Removing the motorcycle from the lift stand

Note

Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

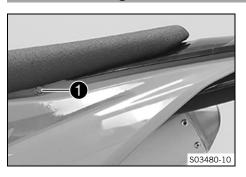


- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, press side stand **1** to the ground with your foot and lean the motorcycle on it.



When you are riding, the side stand must be folded up and secured with the rubber strap.

3.3 Removing the seat

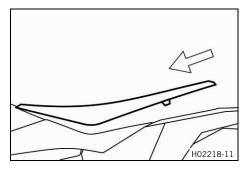


- Remove screws 1 on the left side.

- Н02218-10
- Raise the rear of the seat, pull the seat back, and lift it off.



3.4 Mounting the seat



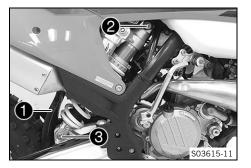
Mount the front of the seat on the two collar bushings of the fuel tank, lower the seat at the rear, and push the seat forward.
Make sure the seat is latched in place correctly.



Mount and tighten screw 1 on the left side.
 Guideline

Screw, seat fixing	M6	10 Nm (7.4 lbf ft)

3.5 Installing the shock absorber



Main work

Push splash protector 1 to the side and position the shock absorber. Mount and tighten screw 2.

Guideline

Screw, top	M12	80 Nm (59 lbf ft)
shock absorber		Loctite [®] 2701™

Mount and tighten screw 3.

Guideline

Screw, bottom	M12	80 Nm (59 lbf ft)
shock absorber		Loctite [®] 2701™

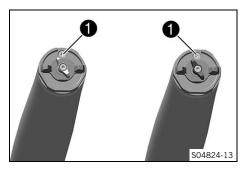
• Info

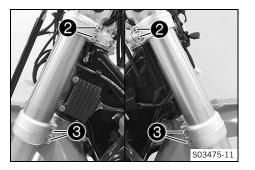
The heim joint for the shock absorber on the link fork is Teflon coated. It must not be lubricated with grease, nor with any other lubricants. Lubricants dissolve the Teflon coating, thereby drastically reducing the service life.

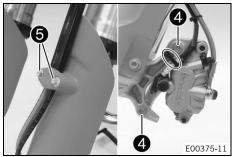
Finishing work

- Remove the motorcycle from the lift stand. (IP p. 18)

3.6 Installing the fork legs







Main work

Position the fork legs.

✓ Bleeder screws ① are positioned toward the front.

• Info

The rebound damping is located in right fork leg **REB** (red adjuster). The compression damping is located in left fork leg **COMP** (white adjuster). 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 upper edge of the upper triple clamp.

Tighten screws 2.

Guideline

Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)
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Tighten screws 🕄.

Guideline		
Screw, bottom triple	M8	15 Nm (11.1 lbf ft)
clamp		

Position the brake caliper, and mount and tighten screws 4. Guideline

Screw, front	M8	25 Nm (18.4 lbf ft)
brake caliper		Loctite [®] 243™

- Mount the cable ties.
- Position the brake line, the wiring harness, and the clamp.
 Mount and tighten screws **5**.

Finishing work

- Install the headlight mask with the headlight. (I p. 30)
- Check the headlight setting. (🕮 p. 30)

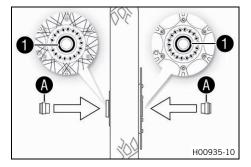


Installing the front wheel

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.



- Check the wheel bearing for damage and wear.
 - If the wheel bearing is damaged or worn: - Change front wheel bearing.
- Clean and grease shaft seal rings 1 and contact surfaces A of the spacers.

Long-life grease (📖 p. 41)

Insert the spacers.

»

- Clean and lightly grease the wheel spindle.

Long-life grease (🕮 p. 41)

- Position the front wheel and insert the wheel spindle.
 The brake linings are correctly positioned.
- Mount and tighten screw 2.

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Guideline		
Screw, front wheel	M20x1.5	35 Nm (25.8 lbf ft)

spindle			
Operate the hand brake	lever several ti	imes until	the brake lin-

- ings are seated correctly against the brake disc.
- Remove the motorcycle from the lift stand. (${\ensuremath{\textcircled{}}}$ p. 18)
- 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)			
,	Screw, fork stub	M8	15 Nm (11.1 lbf ft)

3.8 Removing the 12-V battery

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Ag Note

- **Environmental hazard** 12 V batteries contain environmentally hazardous materials.
- Do not dispose of 12 V batteries as household waste.

V00364-11

- Dispose of 12 V batteries at a collection point for used batteries.

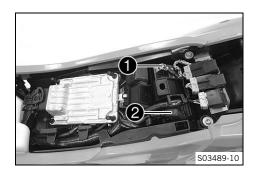
Note

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.

Preparatory work

Remove the seat. (
 P. 18)



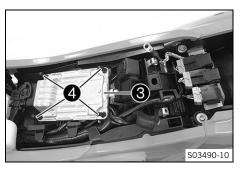
Main work



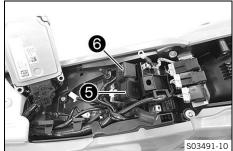
Warning

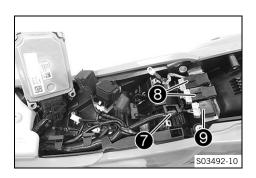
 $\ensuremath{\textbf{Risk}}$ of injury 12 V batteries contain harmful substances.

- Keep 12 V batteries out of the reach of children.
- Keep sparks and open flames away from 12 V batteries.
- Only charge 12 V batteries in well-ventilated rooms.
- Maintain a minimum clearance from inflammable materials when charging 12 V batteries.
 Minimum clearance 1 m (3 ft)
- Do not charge deeply discharged 12 V batteries if the charge is already below the minimum voltage.
 Minimum voltage before 9 V the start of the charge
- Dispose of 12 V batteries with less than the minimum voltage correctly.
- Disconnect negative cable 1 from the 12-V battery.
- Pull back positive terminal cover **2** and disconnect the positive cable from the 12-V battery.
- Pull EFI control unit **3** upward off rubber lugs **4** and hang to the side.



Pull off starter relay **(5)** and fuse box **(6)** from the battery compartment and hang to the side.





Detach wiring harness (7), disconnect relays (8) and plug (9), and hang to the side.

- Remove screw **(1)** and detach the battery compartment.
- Lift out the 12-V battery.

3.9 Charging the 12-V battery

Warning

 $\label{eq:rescaled} \textbf{Risk of injury} \quad 12 \ V \ batteries \ contain \ harmful \ substances.$

S03493-10

- Keep 12 V batteries out of the reach of children.
- Keep sparks and open flames away from 12 V batteries.
- Only charge 12 V batteries in well-ventilated rooms.
- Maintain a minimum clearance from inflammable materials when charging 12 V batteries.
 Minimum clearance
 1 m (3 ft)
- Do not charge deeply discharged 12 V batteries if the charge is already below the minimum voltage.
 Minimum voltage before the start of the charge
 9 V
- Dispose of 12 V batteries with less than the minimum voltage correctly.

Note

Danger of damage An incorrectly selected charging mode will damage the 12-V battery.

- Always select a charging mode that is compatible with the type of battery.



Note

Environmental hazard 12 V batteries contain environmentally hazardous materials.

- Do not dispose of 12 V batteries as household waste.
- Dispose of 12 V batteries at a collection point for used batteries.



Note

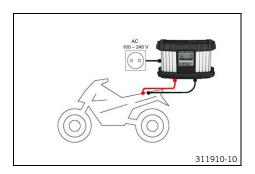
Environmental hazard Hazardous substances cause environmental damage.

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

lnfo

Even when there is no load on the 12-V battery, it discharges steadily each day. The charging level and the method of charging are very important for the service life of the 12-V battery. Rapid recharging with a high charging current shortens the service life of the battery. If the charging current, charging voltage, or charging time is exceeded, the 12-V battery will be destroyed. If the 12-V battery is depleted by repeated starting, the 12-V battery must be charged immediately. If the 12-V battery is left in a discharged state for an extended period, it will become deeply discharged and suffer a loss of capacity, destroying the battery.

The 12-V battery is maintenance-free.



Preparatory work

- Remove the seat. (🕮 p. 18)
- Disconnect the negative cable of the 12-V battery. (I p. 26)

Main work

Connect a battery charger to the 12-V battery. Adjust the battery charger.

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

Alternative 1

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

Alternative 2

UK battery charger **XCharge-professional** (00029095052)

lnfo

- Disconnect the battery charger after charging the 12-V battery. Guideline

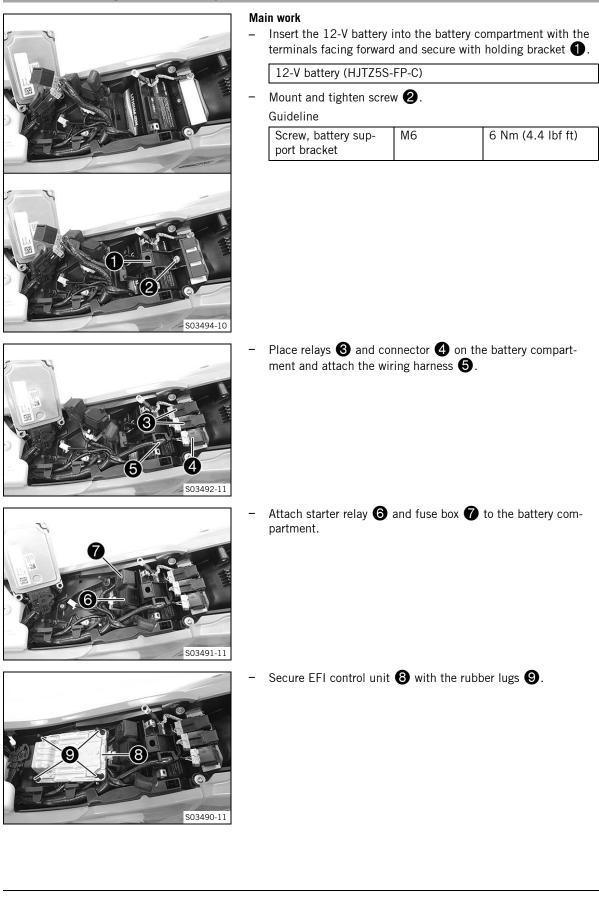
The charging current, charging voltage, and charging time must not be exceeded. Recharge the 12-V battery regularly when the motorcycle is not being used

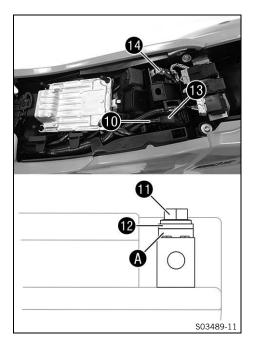
Finishing work

- Connect the negative cable of the 12-V battery. (IP p. 26)
- Mount the seat. (📖 p. 19)

Follow the instructions of the charger and the manual.

3.10 Installing the 12-V battery





Connect positive cable **(1)** to the 12-V battery. Guideline

Screw, battery termi-M52.5 Nmnal(1.84 lbf ft)

• Info

- Contact disk A must be mounted under screw 1 and cable lug 2 with the claws toward the battery terminal.
- Slide positive terminal cover 🚯 over the positive terminal.
- Connect negative cable
 If to the 12 V battery.
 Guideline

Guideline

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

Finishing work

– Mount the seat. (🕮 p. 19)

3.11 Disconnecting the negative cable of the 12-V battery

Preparatory work

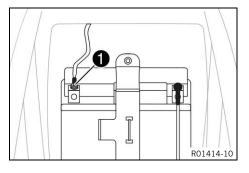
- Remove the seat. (p. 18)

Main work

- Disconnect negative cable **1** of the 12-V battery.

3.12 Connecting the negative cable of the 12-V battery

R01414-10



Main work

Connect negative cable 1 of the 12-V battery.
 Guideline

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

– Mount the seat. (🕮 p. 19)

3.13 Removing the air filter box cover



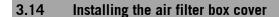


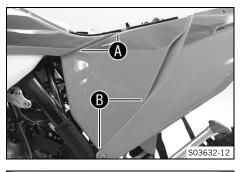
- Remove the seat. (🕮 p. 18)

Condition

- The air filter box cover is secured.
- Remove screw 1.

- Pull off the air filter box cover in area (A) laterally and take it off at the front.





Main work

\$03632-11

Insert the air filter box cover in area A and clip it into area B.



Condition

The air filter box cover is secured.

Mount and tighten screw ①.
 Guideline

Screw, air filter box	EJOT PT®	3 Nm (2.2 lbf ft)
cover	K60x20-Z	

Finishing work

– Mount the seat. (📖 p. 19)

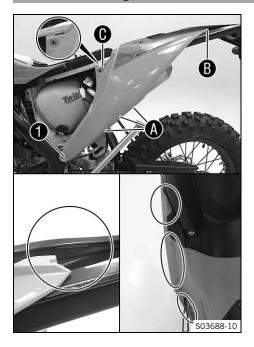
•

3.15 Removing the rear left side cover

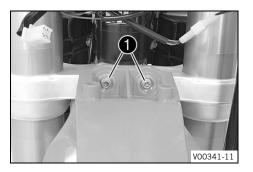


Remove screw ① and take off the fairing part to the front.

3.16 Installing the rear left side cover



3.17 Installing front fender



Position side cover and hook it in in areas f A, f B and f O.

Mount and tighten screw **1**.

Guideline

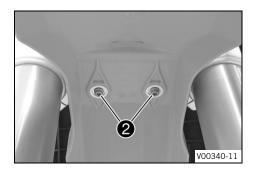
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Screw, sub-	M8	30 Nm (22.1 lbf ft)
frame bottom		Loctite [®] 2701™

Main work

Position front fender. Mount and tighten screws ①.
 Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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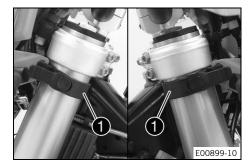
Mount and tighten screws 2.
 Guideline

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

Finishing work

- Install the headlight mask with the headlight. (IP p. 30)
- Check the headlight setting. (I p. 30)

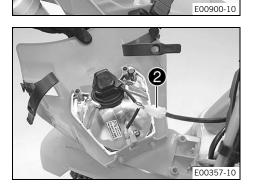
3.18 Removing the headlight mask with the headlight



- Detach the brake line and wiring harness from the headlight mask.
- Loosen rubber strap **1**. Slide the headlight mask up and swing it forward.

(150 EXC EU)

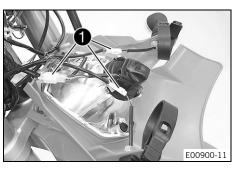
- Detach plug-in connectors **2** and take off the headlight mask with the headlight.



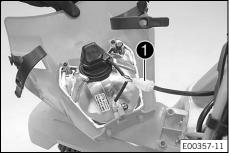
(150 XC-W US)

- Disconnect plug-in connector **2** and take off the head-light mask together with the headlight.

3.19



Installing the headlight mask with the headlight



E00899-11

Main work (150 EXC EU)

- Join plug-in connectors **1**.

(150 XC-W US)

– Join plug-in connector **1**.

Position the headlight mask and secure it with rubber straps **2**.

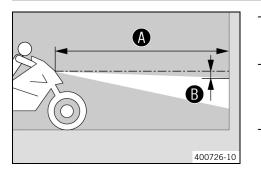
The holding lugs engage in the fender.

Position the brake line and wiring harness in the brake line guide.

Finishing work

- Check the headlight setting. (I p. 30)

3.20 Checking the headlight setting



- Park the vehicle on a horizontal surface in front of a lightcolored wall and make a mark at the height of the center of the low beam headlight.
- Make another mark at a distance **B** under the first marking. Guideline

Distance B	5 cm (2 in)
-------------------	-------------

Position the vehicle vertically at a distance **(A)** away from the wall.

5 m (16 ft)

Guideline

Distance A

- The rider now sits down on the motorcycle.
- Switch on the low beam.
- Check the headlight setting.

The boundary between light and dark must be exactly on the lower mark for a motorcycle with rider.

- » If the boundary between light and dark does not meet specifications:
 - Adjust the headlight range. (
 p. 31)

3.21 Adjusting the headlight range

Preparatory work

- Check the headlight setting. (I p. 30)

Main work

V00369-10

- Loosen screw 1.
- Adjust the headlight range by pivoting the headlight.
 Guideline

The boundary between light and dark must be exactly on the lower mark for a motorcycle with rider (instructions on how to apply the mark: Checking the headlight setting).

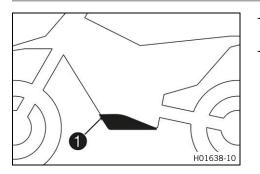
Info

i

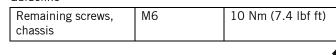
If you have a payload, you may have to correct the headlight range.

Tighten screw 1.

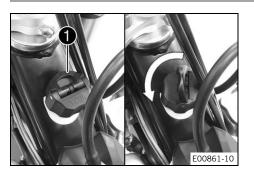
3.22 Installing the engine guard



- Attach the engine guard on the frame at the rear and swing up at the front.
 - Mount and tighten screws ①. Guideline



3.23 Opening 2-stroke oil tank cap



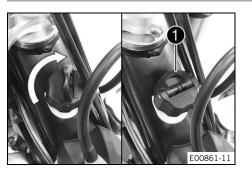
- Fold loop **1** upward.

_

Turn the 2-stroke oil tank cap counterclockwise and pull it up.

◀

3.24 Closing 2-stroke oil tank cap



- Put the 2-stroke oil tank cap on and turn it clockwise.
- Fold loop ① down.
 ✓ The 2-stroke oil tank cap engages.

3.25 Adding 2-stroke oil



Warning

Engine failure The engine will not be lubricated unless there is 2-stroke oil in the oil tank.

If the oil level warning light lights up, the 2-stroke oil is sufficient for the remaining tank of fuel.

- As soon as the oil level warning light lights up, ride for no longer than until the remaining fuel in the tank is depleted.
- At the next opportunity add 2-stroke oil before you refuel.
- Time the oil pump if the 2-stroke oil hose has been removed or the 2-stroke oil tank has been fully depleted in error.



- Open 2-stroke oil tank cap. (
 p. 31)
- Fill the 2-stroke oil tank up to the lower edge A of the filler neck.

Guideline

Only use 2-stroke oil which is appropriate for separate lubrication.

2-stroke oil tank con- tent approx.	0.6 I (0.6 qt.)	Engine oil, 2-stroke (🛤 p. 40)
--	-----------------	-----------------------------------

Close 2-stroke oil tank cap. (🕮 p. 32)

3.26 Opening the fuel tank 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 fuel 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

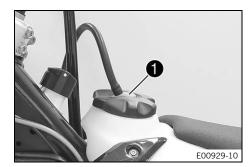
Danger of poisoning Fuel is harmful to health.

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

A Note

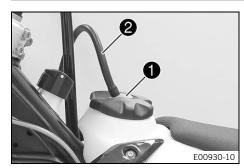
Environmental hazard Improper handling of fuel is a danger to the environment.

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

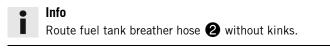


Press release button **1**, turn the fuel tank filler cap counterclockwise, and lift it off.

3.27 Closing the fuel tank filler cap



Mount the fuel tank filler cap and turn it clockwise until release button ① engages.



3.28 Refueling

Danger

Fire hazard Fuel is highly flammable.

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

- Do not fuel 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 harmful to health.

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

Note

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

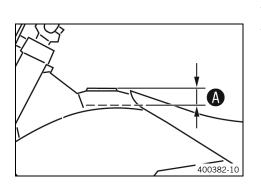
In some countries and regions, the available fuel quality and cleanliness may not be sufficient. This will result in problems with the fuel system.

- Refuel only with clean fuel that meets the specified standards.

Register Note

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.



- Open the fuel tank filler cap. (🕮 p. 32)
- Fill the fuel tank with fuel up to level (A).

Guideline

Level 🚯	35 mm	(1.38 in)
Total fuel tank capacity, approx.	9.6 l (2.54 US gal)	Super unleaded (ROZ 95) (I p. 40)

• Info

- Do not refuel using pre-mixed fuel.
- Close the fuel tank filler cap. (📖 p. 33)

3.29 Setting kilometers or miles

• Info

If you change the unit, the value **ODO** is retained and converted accordingly.

The values TR1, TR2, A1, A2 and S1 are cleared when the unit of measure is changed.

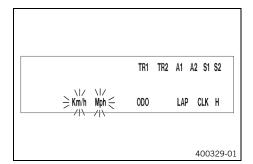
Condition

The motorcycle is stationary.

- Press the button \pm for 2–3 seconds.
 - The Setup menu is displayed and the active functions are shown.
- Repeatedly press the button + briefly until Km/h/Mph flashes.

Adjusting the Km/h

Press the button +.



Adjusting the Mph

- Press the button —.
- Wait 3 5 seconds.
- \checkmark The settings are stored.

Info

If no button is pressed for 10–12 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

3.30 Adjusting combination instrument function

lnfo

When the vehicle is delivered, only the SPEED/H and SPEED/ODO display modes are activated.

		A1 A2 S1 S2
Km/h Mph	ODO	LAP CLK H
		400318-01

Condition

The motorcycle is stationary.

- Press the button \pm for 2–3 seconds.
 - The Setup menu is displayed and the active functions are shown.

Info

If no button is pressed for 10–12 seconds, the settings are automatically saved.

If no button is pressed for 20 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

- Repeatedly press the button + briefly until the desired function flashes.
 - ✓ The selected function flashes.

Activating the function

- Press the button +.
 - The symbol continues to appear in the display and the next function appears.

Deactivating a function

- Press the button –.
 - The symbol disappears in the display and the next function appears.

.

3.31 Setting the clock

С-24 1. 200330-01

Condition

The motorcycle is stationary.

- Press the button \pm for 2–3 seconds.
 - ✓ The hour display flashes.
- Adjust hour display with the button + and/or button -.
 Wait 3 5 seconds.
 - ✓ The next segment of the display flashes and can be set.

• Info

The seconds can only be set to zero. If no button is pressed for 15–20 seconds, or if an impulse comes from the wheel speed sensor, the settings are automatically saved and the setup menu is closed.

4.1 chassis tightening torques

Remaining screws, chassis	EJOT PT® K60x25-Z	2 Nm (1.5 lbf ft)
Screw, activated carbon filter (150 EXC TPI EU)	-	5 Nm (3.7 lbf ft)
Screw, fuel pump on fuel tank	EJOT PT® K60x25-Z	2.5 Nm (1.84 lbf ft)
Screw, hose clip, inlet sleeve		2.8 Nm (2.07 lbf ft)
Screw, intake air temperature sen- sor	EJOT DELTA PT® 50x18 T20	0.7 Nm (0.52 lbf ft)
Screw, oil fill level sensor	G 3/4 "	7 Nm (5.2 lbf ft)
Screw, oil pump holder on oil tank	EJOTDELTA PT® 45x12-Z	0.7 Nm (0.52 lbf ft)
Screw, pressure regulator	EJOT PT® K60x25-Z	2.3 Nm (1.7 lbf ft)
Screw, radiator hoses clip		2.4 Nm (1.77 lbf ft)
Nut, throttle cable wire on throttle valve body	M4	3 Nm (2.2 lbf ft)
Screw, emergency OFF switch (150 EXC EU)	M4	0.4 Nm (0.3 lbf ft)
Screw, fixed grip	M4	5 Nm (3.7 lbf ft) Loctite®243™
Screw, throttle valve body cover	M4	2.6 Nm (1.92 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)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, battery terminal	M5	2.5 Nm (1.84 lbf ft)
Screw, brake line guide for link fork	M5	5 Nm (3.7 lbf ft)
Screw, ground wire in tail section	M5	5 Nm (3.7 lbf ft)
Screw, light switch (150 EXC EU)	M5	1 Nm (0.7 lbf ft)
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)
Screw, turn signal switch (150 EXC EU)	M5	1 Nm (0.7 lbf ft)
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) Loctite[®]243™
Screw, battery support bracket	M6	6 Nm (4.4 lbf ft)
Screw, brake lever	M6	5 Nm (3.7 lbf ft)
Screw, cable on starter relay	M6	6 Nm (4.4 lbf ft)
Screw, chain guide on link fork at the front	M6x45	10 Nm (7.4 lbf ft)
Screw, chain guide on link fork at the rear	M6x19	10 Nm (7.4 lbf ft)
Screw, chain sliding guard	M6	10 Nm (7.4 lbf ft) Loctite[®]243™
Screw, clutch lever	M6	5 Nm (3.7 lbf ft)

Screw, front brake disc	M6	14 Nm (10.3 lbf ft) Loctite[®]243™
Screw, fuel tank spoiler on radiator	M6	6 Nm (4.4 lbf ft)
Screw, manifold on silent block	M6	6 Nm (4.4 lbf ft)
Screw, oil pump	M6	6 Nm (4.4 lbf ft)
Screw, oil tank on frame	M6	5 Nm (3.7 lbf ft)
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)
		Loctite [®] 243™
Screw, seat fixing	M6	10 Nm (7.4 lbf ft)
Screw, silent block on frame	M6	6 Nm (4.4 lbf ft)
Screw, throttle grip	M6	5 Nm (3.7 lbf ft)
Fuel connection on the fuel pump	M8	15 Nm (11.1 lbf ft)
Nut, foot brake lever	M8	15 Nm (11.1 lbf ft)
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)
Nut, pull switch (150 XC-W US)	M8	0.8 Nm (0.59 lbf ft)
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)
		Loctite [®] 2701™
Nut, rim lock	M8	12 Nm (8.9 lbf ft)
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)
Screw, engine brace	M8x15	25 Nm (18.4 lbf ft) Loctite®2701™
Screw, engine brace	M8x20	25 Nm (18.4 lbf ft) Loctite®243™
Screw, engine sprocket cover	M8	15 Nm (11.1 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, manifold	M8	15 Nm (11.1 lbf ft)
Screw, rear sprocket	M8	35 Nm (25.8 lbf ft) Loctite[®]2701™
Screw, side stand attachment	M8	33 Nm (24.3 lbf ft) Loctite [®] 2701™
Screw, subframe bottom	M8	30 Nm (22.1 lbf ft) Loctite®2701™
Screw, subframe top	M8	35 Nm (25.8 lbf ft) Loctite [®] 2701™
Screw, top steering stem	M8	20 Nm (14.8 lbf ft)
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)
Screw, wheel speed sensor	M8	4.5 Nm (3.32 lbf ft)
Engine bracket screw	M10	60 Nm (44.3 lbf ft)
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)
	1 = -	

Screw, handlebar support	M10	40 Nm (29.5 lbf ft)
		Loctite [®] 243™
Nut, fuel pump	M12	15 Nm (11.1 lbf ft)
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, fork pivot	M16x1.5	100 Nm (73.8 lbf ft)
Nut, rear wheel spindle	M20x1.5	80 Nm (59 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 fitting, cooling system	M24x1.5	18 Nm (13.3 lbf ft)
		Loctite [®] 243™

Engine oil, 2-stroke

Standard/classification

– JASO FD (🕮 p. 42)

Guideline

- Only use high-grade 2-stroke engine oil from a reputable brand.

fully synthetic

Recommended supplier

MOTOREX®

Cross Power 2T

Super unleaded (ROZ 95)

Standard/classification

– DIN EN 228 (ROZ 95)

Guideline

- Only use super unleaded fuel that matches or is equivalent to the specified standard.
- Fuel with an ethanol content of up to 10% (E10 fuel) is safe to use.



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

7 STANDARDS

JASO FD

JASO FD is a classification for a 2-stroke engine oil that was specifically developed for the extreme demands of racing. Thanks to first-rate synthetic esters and specially designed additives, superb combustion is achieved even under extreme operating conditions.

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14.06.2022



