SETUP INSTRUCTIONS 2018



RC 125

Art. no. 3213840en





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.

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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.

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KTM Sportmotorcycle GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models: RC 125 EU (F5003R1, F5003R2)



3213840en

01/2018

1 MEANS OF REPRESENTATION

1.1	Symbols used				
The mean	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.				

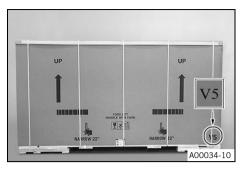
1.2 Formats used

The typographical	formats us	sed in this	document are	explained below.
The typeBruphical	ionnuto us	sea m tins	abcument are	complained 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.

SETUP 2

2.1 Unpacking and setting up the vehicle

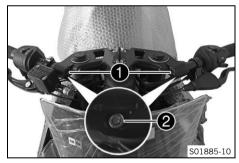


Remove the straps and box.



Remove the adhesive tape in the upper area of the motorcycle. _





Roll down the film at the sides. _

Info

To avoid damaging the motorcycle during unpacking, leave the other films on the vehicle until you have finished work on the vehicle.

- Remove the separate enclosure and unpack it. Check the sepa-_ rate enclosure for completeness.
- Check the vehicle for transport damage. _

Condition

Left and right handlebar stub not mounted.

- Remove protective film on the left and right handlebar _ stub.
- Mount left and right handlebar stub on the upper triple _ clamp.



Make sure the cables and wiring are positioned correctly.

Mount and tighten screws 1.

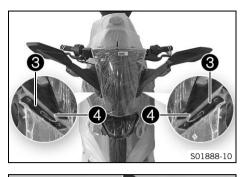
Guideline

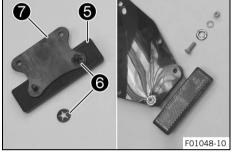
Screw, handle-	M6	8 Nm (5.9 lbf ft)
bar stub		Loctite [®] 243™

Mount and tighten screws **2**.

Guideline

Screw, anti-rotation	M5	4 Nm (3 lbf ft)
lock, handlebar		
stub		





- Check the clutch lever play. (
 p. 6)
- Check the play in the throttle cable. (
 p. 7)
- Position damping rubber 3 on both sides.
- Join plug-in connector **4** of the mirror on both sides.
- Position the rear mirror on both sides. Mount and tighten the screws.
- Position all controls in their exact positions on the handlebar.Tighten all screws.
- Mount reflector (5) with spring washers (6) on holding plate (7).
- Mount the retaining plate on the license plate holder.
- Mount the license plate holder.
- Carefully loosen and remove the tension belt over the swingarm.

Info

An assistant prevents the motorcycle from falling over.

- Carefully loosen and remove the tension belts around the lower triple clamp.
 - ✓ The vehicle is released at the front.
 - Take the vehicle off the palette together with an assistant.



Warning

Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.
- Fill the battery.



Info

Read the notes in the battery package.

- Recharge the battery. (🕮 p. 10)
- Remove the front rider's seat. (🕮 p. 8)
- Store the tool set below the seat.
- Remove the battery cover. (
 p. 9)



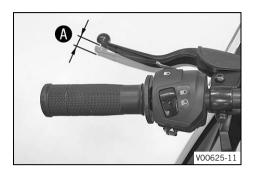
- Remove spare key and **KEYCODECARD** and keep in a safe place for the handover.
- Install the battery. (🕮 p. 11)
- Remove the remaining films.
- Refuel. (🕮 p. 14)
- Prepare the vehicle according to the specifications in the KTM Dealer.net for handover to the customer.

3.1 Checking the clutch lever play

Note

Clutch damage If there is no free travel by the clutch lever, the clutch will begin to slip.

- Check the free travel of the clutch lever each time before using the motorcycle.
- Adjust the free travel of the clutch lever when necessary in accordance with the specification.



- Check the clutch lever for smooth operation.
- Move the handlebar to the straight-ahead position.
- Pull the clutch lever until resistance is perceptible, and determine the play in the clutch lever **A**.

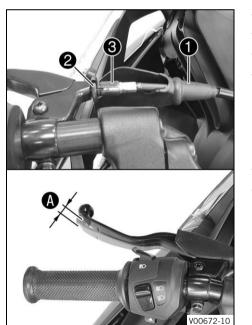
Clutch lever play	1 3 mm (0.04
	0.12 in)

- » If the clutch lever play does not meet the specified value:
 Adjust play in the clutch lever. (
 p. 6)
- Move the handlebar to and fro over the entire steering range.

The clutch lever play must not change.

- » If the clutch lever play changes:
 - Check the routing of the clutch cable.

3.2 Adjusting play in the clutch lever



- Move the handlebar to the straight-ahead position.
- Push back sleeve 1.
- Loosen lock nut 2.
- Adjust the play in the clutch level by turning adjusting screw 3.

Guideline

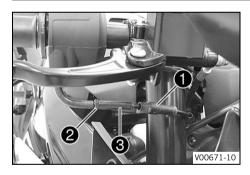
	1 3 mm (0.04 0.12 in)
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- Tighten lock nut 2.
- Position bellows 🚺.

3.3 Checking the play in the throttle cable

	 Check the throttle grip for smooth operation. Move the handlebar to the straight-ahead position. Turn the throttle grip back and forth slightly and determine the play in throttle cable A.
	Throttle cable play (A) 3 5 mm (0.12 0.2 in)
400192-11	 If the throttle cable play does not meet the specified value: Adjust the play in the throttle cable. (
	 Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range. The idle speed must not change. » If the idle speed changes: Check throttle cable routing.

3.4 Adjusting the play in the throttle cable



- Move the handlebar to the straight-ahead position.
 - Push back sleeve 🚺.
- Loosen lock nut 2.
- Adjust the play in the throttle cable by turning adjusting screw ③.

Guideline

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Throttle cable play	3 5 mm (0.12 0.2 in)
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- Tighten lock nut **2**.
- Slide on sleeve 1.

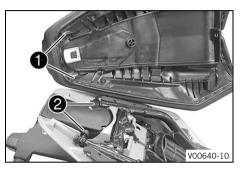
3.5 Removing the passenger seat

Preparatory work

- Remove the front rider's seat. (
P. 8)



3.6 Mounting the passenger seat





Main work

- Remove screw **1** with washer.
- Lift and take off the passenger seat.

Main work

– Position passenger seat.

 \checkmark Both hooks **1** engage in the holders **2**.

- Lower the front of the passenger seat and push back.
- Mount and tighten screw **3** with the washer.
- Guideline

Screw, passenger seat	M6	7 Nm (5.2 lbf ft)
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Warning

- **Danger of accidents** The seat can come loose from the anchoring if it is not mounted correctly.
- After assembly, check whether the seat is correctly locked and cannot be pulled up.
- Check that the passenger seat is mounted correctly.

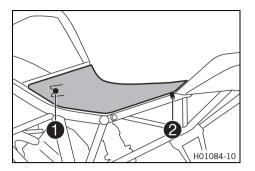
Finishing work

- Mount the front rider's seat. (🕮 p. 9)
- 3.7 Removing the front rider's seat



- Insert the ignition key in seat lock ① and turn it clockwise.
- Raise the rear of the front rider's seat, pull it toward the rear, and remove it upward.
- Remove the ignition key from the seat lock.

3.8 Mounting the front rider's seat



- Attach recesses ① on the front rider's seat to the fuel tank, push the front rider's seat forward, and lower at the rear.
 ✓ The pin ② locks audibly in place.
- Check that the front rider's seat is mounted correctly.

3.9 Removing the battery cover

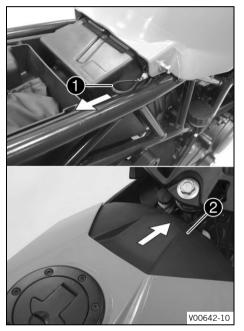
Preparatory work

- Remove the front rider's seat. (🕮 p. 8)

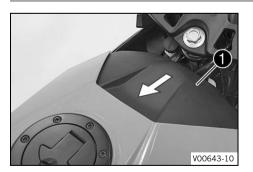
Main work

- Pull loop **1** toward the rear.
- Pull battery cover **2** forward and take off toward the top.

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3.10 Mounting the battery cover



Main work

- Position battery cover ① and pull toward the rear.
 ✓ The battery cover engages with an audible click.
- Check the battery cover is seated correctly.

Finishing work

- Mount the front rider's seat. (🕮 p. 9)

3.11 Recharging the battery



Risk of injury Battery acid and battery gases cause serious chemical burns.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Avoid contact with battery acid and battery gases.
- Keep sparks or open flames away from the battery.
- Only charge batteries in well-ventilated rooms.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes with water for at least 15 minutes and consult a doctor immediately if battery acid and battery gases get into the eyes.

Environmental hazard Batteries contain environmentally-hazardous materials.

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



Note

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.

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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, and charging time are exceeded, the battery will be destroyed.

If the battery is depleted from starting the vehicle repeatedly, the battery must be charged immediately.

If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfated, destroying the battery.

The battery is maintenance-free, i.e., the acid level does not have to be checked.

Preparatory work

- Remove the battery cover. (🕮 p. 9)
- Disconnect the negative cable of the battery. (IP p. 11)

Main work

Connect the battery charger to the battery. Adjust the battery charger.

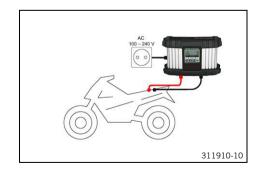
EU battery charger XCharge-professional (00029095050)

Alternative 1

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

Alternative 2

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



Alternative 3

CH battery charger **XCharge-professional** (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 3 months when the motorcycle is not in use		

Finishing work

- Mount the front rider's seat. (
 p. 9)
- Set the clock. (🕮 p. 12)

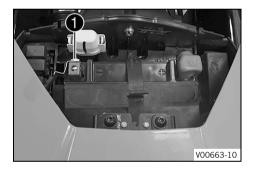
3.12 Disconnecting the negative cable of the battery

Preparatory work

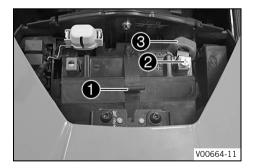
- Remove the front rider's seat. (🕮 p. 8)
- Remove the battery cover. (
 p. 9)

Main work

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



3.13 Installing the battery



Main work

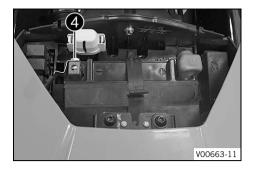
Mount rubber band ① on the battery compartment.
Position the battery in the battery holder.

Guideline

The terminals of the battery must face upwards.

Battery (ETZ-9-BS)

- Reconnect rubber band ①.
- Position positive cable **2** and mount and tighten the screw.
- Position positive terminal cover 3.



Position negative cable ${f Q}$; mount and tighten the screw.

Finishing work

- Mount the battery cover. (
 p. 9)
- Mount the front rider's seat. (
 p. 9)
- Set the clock. (🕮 p. 12)

3.14 Setting the clock

• Info

The clock is displayed in 24-hour format. The time must be reset if the battery was disconnected from the vehicle or the fuse was removed.



Condition

The motorcycle is stationary.

- Press the MODE button briefly and repeatedly until ODO appears on the display.
- Press the MODE button and SET button simultaneously for 5 seconds.
 - The time display begins to flash.

• Info

The clock can be set in the **ODO** display for each menu by keeping the **MODE** button and **SET** button pressed simultaneously.

- Set the hours display using the **MODE** button.
- Set the minutes display using the SET button.
- Press the MODE button and SET button simultaneously.
 - The set time is adopted and saved.

3.15 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.

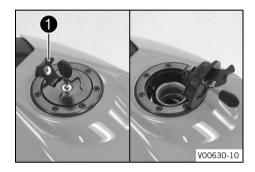
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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

2 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.

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Lift the cover ${\ensuremath{\bigodot}}$ of the filler cap and insert the ignition key in the lock.

Note

Danger of damage The ignition key may break if overloaded. Damaged ignition keys must be replaced.

- Push down on the filler cap to take pressure off the ignition key.
- Turn the ignition key 90° clockwise.
- Open the filler cap.
- Remove the ignition key.

3.16 Closing the filler cap



Warning

Fire hazard Fuel is highly flammable, toxic and a health hazard.

- Check the filler cap is locked correctly after closing.
- Change your clothing in case of fuel spills on them.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Close the filler cap.
- Push down the filler cap until the lock engages.

3.17 Refueling



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.

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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.



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. 12)

Total fuel tank	10	Super unleaded
capacity, approx.	(2.6 US gal)	(ROZ 95/RON
	_	95/PON 91)
		(🕮 p. 18)

Close the filler cap. (🕮 p. 13)

4.1 Chassis tightening torques

Screw, chain guard	EJOT PT® K60x30	4 Nm (3 lbf ft)
Remaining screws, chassis	M4	4 Nm (3 lbf ft)
Screw, engine electronics control	M4	3 Nm (2.2 lbf ft)
unit		
Nut, chain guard	M5	7 Nm (5.2 lbf ft)
Nut, reflector on retaining plate	M5	5 Nm (3.7 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Screw, anti-rotation lock, handle- bar stub	M5	4 Nm (3 lbf ft)
Screw, battery compartment	M5	4 Nm (3 lbf ft)
Screw, cover in front of battery	M5	4 Nm (3 lbf ft)
compartment	MS	
Screw, fuel tank cover	M5	4 Nm (3 lbf ft)
Screw, retaining plate on license plate holder	M5	4 Nm (3 lbf ft)
Screw, side stand switch	M5	5 Nm (3.7 lbf ft)
		Loctite [®] 243™
Screw, tail end lower part	M5	4 Nm (3 lbf ft)
ABS fitting	M6	7 Nm (5.2 lbf ft)
		Loctite [®] 243™
Battery compartment cover lock	M6	6 Nm (4.4 lbf ft)
Nut, license plate holder	M6	7 Nm (5.2 lbf ft)
Nut, radiator	M6	5 Nm (3.7 lbf ft)
Nut, tail light	M6	7 Nm (5.2 lbf ft)
Remaining nuts, chassis	M6	15 Nm (11.1 lbf ft)
Remaining screws, chassis	M6	9 Nm (6.6 lbf ft)
Screw, air filter box cover	M6	6 Nm (4.4 lbf ft)
Screw, air filter box, on frame	M6	6 Nm (4.4 lbf ft)
Screw, battery compartment	M6	6 Nm (4.4 lbf ft)
Screw, brake fluid reservoir, rear brake	M6	8 Nm (5.9 lbf ft)
Screw, brake hose clamp	M6	6 Nm (4.4 lbf ft)
Screw, brake line guide on bottom	M6	7 Nm (5.2 lbf ft)
triple clamp		Loctite [®] 243™
Screw, chain guard	M6	6 Nm (4.4 lbf ft)
Screw, chain sliding guard	M6	7 Nm (5.2 lbf ft)
Screw, compensating tank	M6	8 Nm (5.9 lbf ft)
Screw, engine electronics control unit retaining bracket	M6	6 Nm (4.4 lbf ft)
Screw, engine sprocket cover on frame	M6	8 Nm (5.9 lbf ft)
Screw, footrest bracket	M6	7 Nm (5.2 lbf ft)
Screw, front fairing structure on headlight bracket	M6	7 Nm (5.2 lbf ft)
Screw, front fender on axle clamp	M6	7 Nm (5.2 lbf ft)

Screw, front mask	M6	7 Nm (5.2 lbf ft)	
Screw, front seat fixing	M6	6 Nm (4.4 lbf ft)	
Screw, front spoiler	M6	7 Nm (5.2 lbf ft)	
Screw, front spoiler bottom front	M6	6 Nm (4.4 lbf ft)	
Screw, front spoiler rear	M6	6 Nm (4.4 lbf ft)	
Screw, fuel tank trim	M6	6 Nm (4.4 lbf ft)	
Screw, ground cable, on frame	M6	7 Nm (5.2 lbf ft)	
Screw, handlebar stub	M6	8 Nm (5.9 lbf ft)	
			Loctite®243™
Screw, license plate holder on license plate bracket	M6	7 Nm (5.2 lbf ft)	
Screw, magnetic holder on side	M6	5 Nm (3.7 lbf ft)	
stand		5 Mill (5.7 Ibi It)	Loctite®243™
Screw, passenger seat	M6	7 Nm (5.2 lbf ft)	
Screw, protective plate	M6	8 Nm (5.9 lbf ft)	
Screw, radiator shield	M6	6 Nm (4.4 lbf ft)	
Screw, rear ABS sensor wheel	M6	8 Nm (5.9 lbf ft)	
			Loctite [®] 204™
Screw, rear fender	M6	7 Nm (5.2 lbf ft)	
Screw, rollover sensor	M6	7 Nm (5.2 lbf ft)	_
			Loctite®243™
Screw, rubber damper for radiator	M6	6 Nm (4.4 lbf ft)	
Screw, side cover	M6	6 Nm (4.4 lbf ft)	
Screw, side cover on front mask	M6	6 Nm (4.4 lbf ft)	
Screw, side cover retaining bracket	M6	7 Nm (5.2 lbf ft)	
Screw, wheel speed sensor holder	M6	8 Nm (5.9 lbf ft)	
Screw, windshield	M6	7 Nm (5.2 lbf ft)	
Exhaust clamp	M8	20 Nm (14.8 lbf ft)	
Remaining nuts, chassis	M8	30 Nm (22.1 lbf ft)	
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)	
Screw, chain guard	M8	11 Nm (8.1 lbf ft)	
Screw, foot brake lever	M8	17 Nm (12.5 lbf ft)	Loctite®243™
Screw, front brake disc	M8	32 Nm (23.6 lbf ft)	
			Loctite®243™
Screw, front wheel spindle	M8	26 Nm (19.2 lbf ft)	
Screw, fuel tank attachment, rear,	M8	17 Nm (12.5 lbf ft)	
on frame			
Screw, horn	M8	9 Nm (6.6 lbf ft)	
Screw, main silencer	M8	18 Nm (13.3 lbf ft)	
Screw, passenger foot pegs bracket	M8	20 Nm (14.8 lbf ft)	Loctite®243™
Screw, presilencer on frame	M8	24 Nm (17.7 lbf ft)	
Screw, rear brake disc	M8	21 Nm (15.5 lbf ft)	Loctite [®] 243™
Screw, retaining bracket on fuel tank	M8	13 Nm (9.6 lbf ft)	

Screw, shift lever	M8	17 Nm (12.5 lbf ft) Loctite[®]243™	
Screw, top triple clamp	M8	15 Nm (11.1 lbf ft)	
Screw, front brake caliper	M8x1	30 Nm (22.1 lbf ft) Loctite [®] 204™	
Nut, rear sprocket screw	M8x1.25	27 Nm (19.9 lbf ft) Loctite [®] 243™	
Fitting side stand	M10	35 Nm (25.8 lbf ft) Loctite [®] 243™	
Remaining nuts, chassis	M10	50 Nm (36.9 lbf ft)	
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	
Screw, side stand pivot	M10	35 Nm (25.8 lbf ft)	
Screw, front footrest bracket / engine bearer	M10x1.25	49 Nm (36.1 lbf ft)	
Nut, rear wheel spindle	M14x1.5	90 Nm (66.4 lbf ft)	
Nut, swingarm pivot	M14x1.5	100 Nm (73.8 lbf ft)	
Screw, top steering head	M16x1.5	52 Nm (38.4 lbf ft) Loctite® 204™	
Lambda sensor	M18x1.5	19 Nm (14 lbf ft)	
Swingarm bearing adjusting ring	M22x1	Tighten and ensure that there is no play	
Nut, steering head	M30x1	1. 55 Nm (40.6 lbf ft) 2. Loosen (counterclockwise) 2 turns 3. 5 Nm (3.7 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.



Do **not** use fuel containing methanol (e. g. M15, M85, M100) or more than 10 % ethanol (e. g. E15, E25, E85, E100).



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