OWNER'S MANUAL 2010

990 Super Duke EU 990 Super Duke AUS/UK 990 Super Duke FR 990 Super Duke R EU 990 Super Duke R AUS/UK 990 Super Duke R FR

Art. no. 3211522en



DEAR KTM CUSTOMER

Congratulations on your decision to purchase a KTM motorcycle. You are now the owner of a state-of-the-art sports motorcycle that will give you enormous pleasure if you service and maintain it accordingly.

We wish you a lot of enjoyment in riding this vehicle.

Please enter the serial numbers of your vehicle below.

Chassis number/type label (p. 16)	Dealer's stamp
Engine number (* p. 17)	
Key number (🕶 p. 17)	

The owner's manual contained the latest information for this model at the time of going to print. However, it is never possible to exclude small deviations arising from further development in design and construction.

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DEAR KTM CUSTOMER

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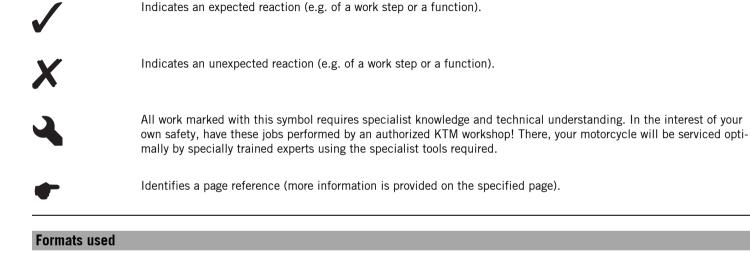
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MEANS OF REPRESENTATION

Symbols used

The meaning of specific symbols is described below.



The typographical formats used in this document are explained below.

Specific name	Identifies a proprietary name.
Name®	Identifies a protected name.
Brand™	Identifies a brand available on the open market.

7

Use definition

(Super Duke)

KTM sport motorcycles are designed and constructed to meet the normal demands of regular road operation but not for use on race courses or offroad.



Info

The motorcycle is authorized for public road traffic in the homologous version only.

(Super Duke R)

KTM sport motorcycles are designed and constructed to meet the normal demands of regular road and race track operation, but not for use on dirt roads.



Info

The motorcycle is authorized for public road traffic in the homologous version only.

Maintenance

A prerequisite for fault-free operation and avoiding premature wear is compliance with the instructions for maintenance, care and adjustments of the engine and suspension provided in the owner's manual. Poor adjustment and tuning of the engine and suspension can lead to damage and breakage of components.

Using the motorcycle in extreme conditions such as very muddy or wet roads can lead to above-average wear of components such as the transmission train or the brakes. For this reason, it may be necessary to service or replace worn parts before the limit specified in the service schedule is reached.

Pay careful attention to the prescribed running-in period and inspection and maintenance intervals. Close adherence to these periods will significantly lengthen the service life of your motorcycle.

Warranty

The work prescribed in the service schedule must be carried out by an authorized KTM workshop only and confirmed in the customer's service record; otherwise, all warranty claims will be void. No warranty claim can be honored for damage resulting from manipulation and/or other changes to the vehicle.

Fuels, oils, etc.

The fuels and lubricants named in the owner's manual must be used according to specifications.

Spare parts, accessories

For your own safety, only use spare parts and accessory products that have been approved and/or recommended by KTM and have them installed by an authorized KTM workshop. KTM accepts no liability for other products and any resulting damage. Some of the spare parts and accessory products are specified in parentheses under the respective descriptions. Your KTM dealer will be glad to advise you.

You will find the current **KTM PowerParts** for your vehicle on the KTM website. International KTM Website: http://www.ktm.com

Work rules

Special tools are necessary for some of the work. These are not included with the vehicle and can be ordered under the number in parentheses. Ex: valve spring mounter (59029019000)

During assembly, non-reusable parts (e.g. self-locking screws and nuts, seals and seal rings, O-rings, pins, lock washers) must be replaced by new parts.

If a thread lock (e.g. **Loctite**[®]) is used for screw connections, be sure to comply with the manufacturer's specific instructions on its usage. Parts that you want to reuse following repairs and servicing should be cleaned and checked for damage and wear. Change damaged or worn parts.

Following repairs or servicing, the vehicle must be checked for roadworthiness.

Transport

Note

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

Always place the vehicle on a firm and even surface.

Note

Fire hazard Some vehicle components become very hot when the vehicle is operated.

- Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.
- Switch off the engine and remove the ignition key.
- Secure the motorcycle against falling over or rolling away using straps or other suitable devices.

Environment

Motorcycling is a wonderful sport and we naturally hope that you can enjoy it to the full. However, it can also lead to problems with the environment and conflict with other persons. Responsible behavior in handling the motorcycle can help to avoid such problems and conflicts. To protect the future of motorcycle sport, make sure that you use your motorcycle legally, display environmental consciousness, and respect the rights of others.

Notes/warnings

Pay close attention to the notes/warnings.

Info

Various information and warning labels are affixed to the vehicle. Do not remove information/warning labels. If they are missing, you or others may not recognize potential hazards and may therefore be injured.

10

Grades of risks



Danger

Identifies a danger that will immediately and invariably lead to fatal or serious permanent injury if the appropriate measures are not taken.

11



Warning

Identifies a danger that is likely to lead to fatal or serious injury if the appropriate measures are not taken.



Caution

Identifies a danger that may lead to minor injuries if the appropriate measures are not taken.

Note

Identifies a danger that will lead to considerable machine and material damage if the appropriate measures are not taken.



Warning

Identifies a danger that will lead to environmental damage if the appropriate measures are not taken.

Owner's manual

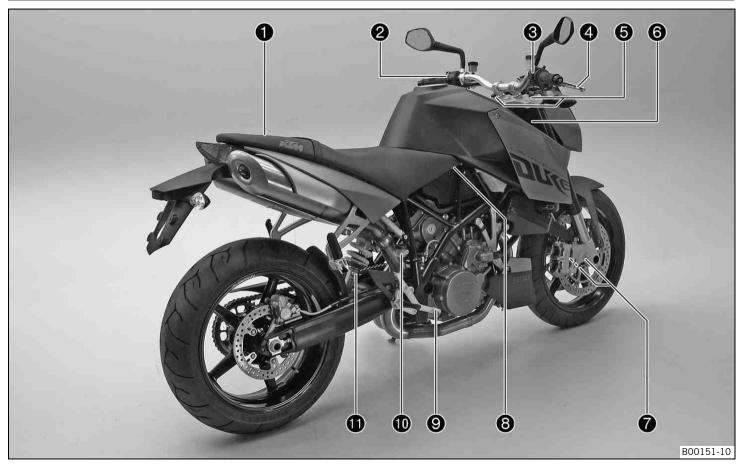
- Be sure to read this owner's manual carefully and completely before taking your first ride. It contains useful information and tips to help you operate and handle your motorcycle. Only then will you find out how to best customize the motorcycle for your own use and how you can protect yourself from injury. The owner's manual also contains important information on servicing the motorcycle.
- The owner's manual is an important component of the motorcycle and should be handed over to the new owner if the vehicle is sold.

View of vehicle, front left side (vehicle differs slightly from photo)



1	Combination instrument
2	Rear mirror
3	Clutch lever
4	Filler cap
5	Seat
6	Compression damping of the shock absorber
7	Shock absorber spring preload
8	Shift lever
9	Engine number
10	Oil rising pipe

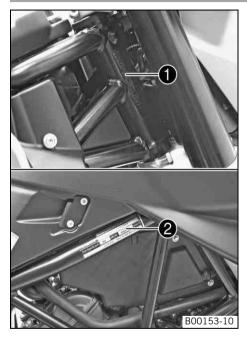
View of vehicle, rear right side (vehicle differs slightly from photo)



1	Seat lock
2	Light switch, headlight flasher switch, turn signal switch, horn button
3	Emergency OFF switch, electric starter button
4	Hand brake lever
5	Fork spring preload, fork rebound damping
6	Chassis number
7	Fork compression damping
8	Type label
9	Foot brake lever
10	Brake fluid reservoir
11	Shock absorber rebound damping

LOCATION OF SERIAL NUMBERS

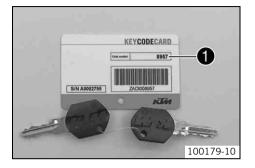
Chassis number/type label



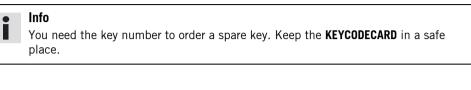
Chassis number ● is embossed in the steering head at the right. Type label ❷ is located on the upper frame tube on the right.

LOCATION OF SERIAL NUMBERS

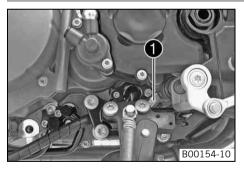
Key number



Key number **1** can be found on the **KEYCODECARD**.



Engine number



The engine number ${\pmb 0}$ is stamped on the left side of the engine under the engine sprocket.

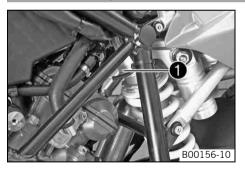
LOCATION OF SERIAL NUMBERS

Fork part number



The fork part number **1** is stamped on the inner side of the fork stub.

Shock absorber part number



The shock absorber part number \bullet is stamped on the top of the shock absorber above the adjusting ring on the engine side.

Clutch lever



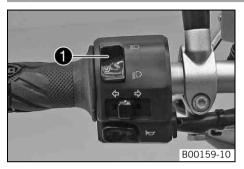
The clutch lever \bullet is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

Hand brake lever



The hand brake lever \bullet is fitted on the right side of the handlebar. The front brake is engaged using the hand brake lever.

Light switch



The light switch **1** is fitted on the left side of the handlebar.

Possible states

≣D	Low beam on – The light switch is turned downwards. In this position, the low beam and tail light are switched on.
≣D	High beam on – The light switch is turned upwards. In this position, the high beam and tail light are switched on.

Headlight flasher switch



The headlight flasher switch **1** is fitted on the left side of the handlebar.

Possible states

- Headlight flasher switch in basic position
- Headlight flasher switch pressed The headlight flasher switch (high beam) is operated in this position.

Turn signal switch



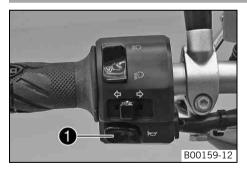
The turn signal switch **1** is fitted on the left side of the handlebar.

Possible states

	Turn signal off
令	Left turn signal on – The turn signal switch is pressed to the left. The turn signal switch automatically returns to the central position after use.
₽	Right turn signal on – The turn signal switch is pressed to the right. The turn signal switch automatically returns to the central position after use.

To switch off the turn signal, press the turn signal switch towards the switch case.

Horn button



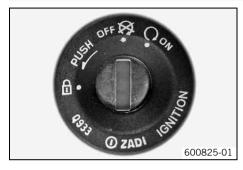
The horn button **1** is fitted on the left side of the handlebar.

Possible states

- Horn button Horn basic position
- Horn button *►* pressed The horn is operated in this position.

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Ignition/steering lock



The ignition/steering lock is in front of the upper triple clamp.

Possible states

\bigotimes	Ignition OFF – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start. The ignition key can be removed.
\bigcirc	Ignition \mathbf{ON} – In this position, the ignition circuit is closed and the engine can be started.
Ţ	Steering locked – In this position, the ignition circuit is interrupted and the steering locked. The ignition key can be removed.

Emergency OFF switch



The emergency OFF switch $\ensuremath{f 0}$ is fitted on the right side of the handlebar.

Possible states

\bigcirc	Emergency OFF switch on – This position is necessary for operation as it closes the ignition circuit.
\bigotimes	Emergency OFF switch off – In this position, the ignition circuit is inter- rupted, a running engine stops, and the engine cannot be started.

Electric starter button



The electric starter button \bullet is fitted on the right side of the handlebar.

Possible states

- Electric starter button (3) in basic position
- Electric starter button (3) pressed The electric starter is actuated in this position.

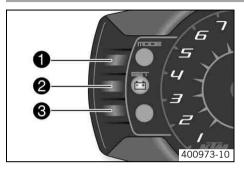
Combination instrument



The combination instrument is installed in front of the handlebar.

- The combination instrument is divided into 4 function areas.
- Function buttons
- 2 Tachometer
- **③** Indicator lights
- Oisplay

Combination instrument - function buttons

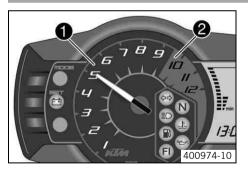


You can change the display mode with the **MODE** button ①. Possible display modes are the distance traveled (**ODO**), trip master 1 (**TRIP 1**), trip master 2 (**TRIP 2**) and the ambient temperature.

Press the SET button O to reset the trip master 1 function (TRIP 1) and trip master 2 function (TRIP 2) to 0.0.

Button ${\ensuremath{\mathfrak{G}}}$ has no function.

Combination instrument - tachometer



The tachometer **1** shows the engine speed in revolutions per minute. The red marking **2** shows the excess speed range of the engine.

Combination instrument - indicator lamps

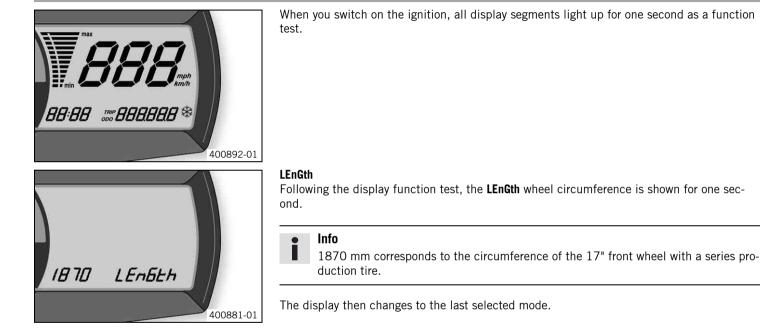


The indicator lamps offer additional information about the operating state of the motorcycle.

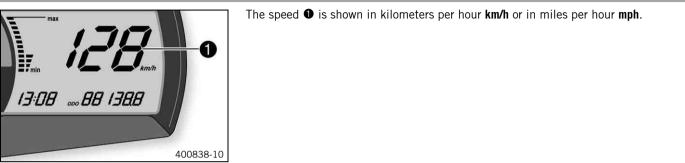
Possible states

	The turn signal indicator lamp flashes green simultaneously with the turn signal – The turn signal is switched on.
N	The idle speed indicator lamp lights up green – The transmission is shifted to idle.
	The high beam indicator lamp lights up blue – The high beam is switched on.
	The temperature warning lamp lights up red – The coolant has reached a critical value.
	The fuel level warning lamp lights up orange – The fuel level has reached the reserve mark. The display switches to TRIP F .
	The oil indicator lamp lights up red – The oil pressure is too low.
FI	Warning lamp FI (MIL) lights up/flashes orange – The OBD has detected an emission- or safety-critical fault.
	The battery warning lamp lights up red – The voltage in the vehicle system is too low.

Combination instrument - display



Combination instrument - speedometer



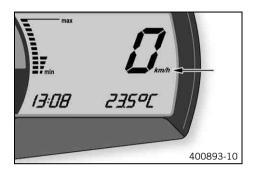
Setting kilometers or miles

• Info

If you change the unit, the value **ODO** is retained and converted accordingly. Making the setting according to the country.

Condition

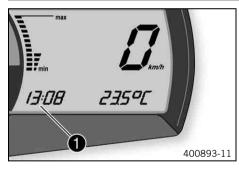
The motorcycle is stationary.



– Switch on the ignition by turning the ignition key to the $\textbf{ON} \ \bigcirc$ position.

- Press the MODE button repeatedly until the ODO mode is active.
- Keep the MODE button pressed until the display mode changes from km/h to mph or from mph to km/h.

Combination instrument - time



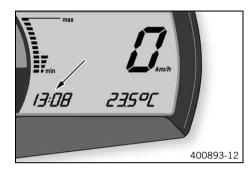
The time is shown in area \bullet of the display.



After reconnecting the battery or changing the fuse, the time must be reset.

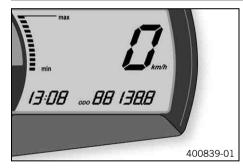
Setting the clock

Condition The motorcycle is stationary.



- Switch on the ignition by turning the ignition key to the \mathbf{ON} \bigcirc position.
- Press the MODE button repeatedly until the ODO mode is active.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time display begins to flash.
- Press the **MODE** button to set the hour.
- Press the SET button to set the minute.
- Keep the **MODE** button and the **SET** button pressed simultaneously.
 - ✓ The time is set.

Combination instrument - ODO display



In the **ODO** display mode, the total distance traveled is shown in kilometers or miles.



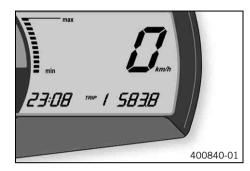
This value is retained, even if the battery is disconnected and/or the fuse blows.

Combination instrument - setting/resetting TRIP 1

Info

The TRIP 1 trip counter is always running and counts up to 999.9.

The trip counter can be used to measure the distance covered during trips or between two refueling stops. After the value **999.9** is reached, the trip counter starts at **0.0** again.



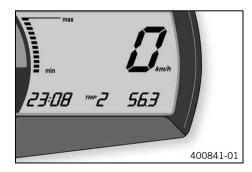
- Switch on the ignition by turning the ignition key to the $\textbf{ON} \bigcirc$ position.
- Press the **MODE** button repeatedly until the **TRIP 1** mode is active.
- Keep the **SET** button pressed.
 - The TRIP 1 display is set to 0.0.

Combination instrument - setting/resetting TRIP 2

lnfo

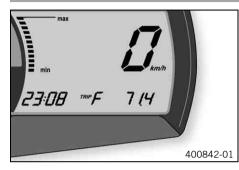
The **TRIP 2** trip counter is always running and counts up to **999.9**.

The trip counter can be used to measure the distance covered during trips or between two refueling stops. After the value **999.9** is reached, the trip counter starts at **0.0** again.



- Switch on the ignition by turning the ignition key to the $\textbf{ON} \bigcirc$ position.
- Press the MODE button repeatedly until the TRIP 2 mode is active.
- Keep the **SET** button pressed.
 - The TRIP 2 display is set to 0.0.

Combination instrument - TRIP F display

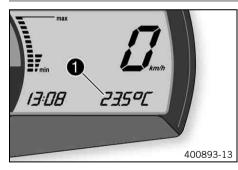


If the fuel level drops to the reserve mark, the display automatically changes to **TRIP F** and starts to count from **0.0**, regardless of the previous display mode.

lnfo

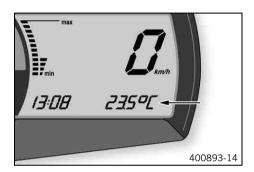
Parallel to the **TRIP F** display, the fuel warning light switches on.

Combination instrument - ambient temperature display



The ambient temperature **①** is displayed in °C or °F.

Setting the temperature units

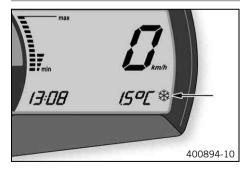


Condition

The motorcycle is stationary.

- Switch on the ignition by turning the ignition key to the $\textbf{ON} \bigcirc$ position.
- Press the **MODE** button repeatedly until the ambient temperature is active.
- Keep the MODE button pressed until the display mode changes from °C to °F or from °F to °C.

Combination instrument - warning of slippery roads



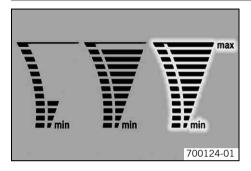
The ice symbol lights up to indicate an increased danger of slippery roads. The ice symbol appears in the display when the ambient temperature drops below the specified value.

Temperature	3 °C (37 °F)

The ice symbol \circledast goes out in the display when the ambient temperature rises above the specified value again.

Temperature	4 °C (39 °F)
-------------	--------------

Combination instrument - coolant temperature indicator

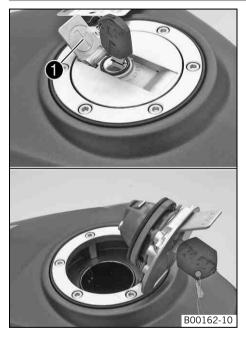


The temperature display consists of 12 bars. The more bars that light up, the hotter the coolant. When the upper bar lights up, all bars in the display begin to flash and the temperature warning lamp lights up.

Possible states

- Engine cold Up to five bars light up.
- The engine is warm Six to eleven bars light up.
- Engine hot All twelve bars flash.

Opening the filler cap



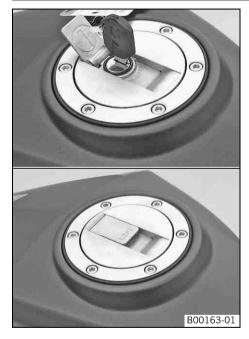
– Lift the cover **1** of the filler cap and insert the ignition key in the lock.

Note

Danger of damage Ignition key breakage.

- To take pressure off of the ignition key, push down on the filler cap. Damaged ignition keys must be replaced.
- Turn the ignition key clockwise.
- Open the filler cap.

Closing the filler cap



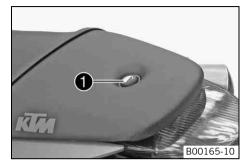


Warning

Fire hazard Fuel is highly flammable, poisonous and harmful to your health.

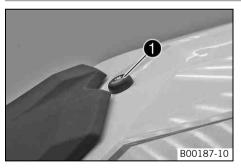
- When closing the filler cap, ensure that it is closed correctly. Change clothing that came into contact with fuel. Immediately clean skin that came into contact with fuel using soap and water.
- Close the filler cap. Push down the filler cap until the lock engages.
- Remove the ignition key and close the cover.

Seat lock (Super Duke)



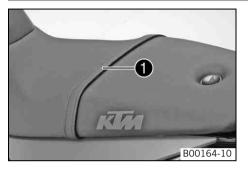
Seat lock **①** is located at the rear of the seat. It can be locked with the ignition key.

Seat lock (Super Duke R)



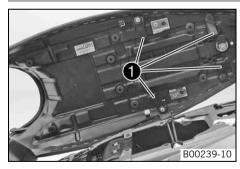
The seat lock **①** is behind the seat. It can be locked with the ignition key.

Supporting strap (Super Duke)



Supporting strap **1** is mounted on the seat. The supporting strap is provided for the passenger to hold on to.

Baggage lugs (Super Duke)



Baggage lugs ${\color{black} \bullet}$ are located on the underside of the seat.

Info

When the seat is mounted, the lugs are accessible if they are turned outward.

No more than one small piece of luggage with the specified weight may be attached to the turned-out baggage lugs.

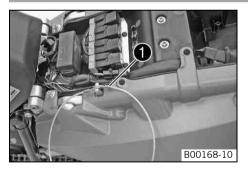
Maximum luggage weight 5 kg (11 lb.)

Tool set



The tool set **1** is located in the storage compartment under the seat.

Helmet lock



Warning

Danger of accidents Impairment of ride behavior and vehicle operation if a helmet or helmet lock is attached to the vehicle.

Do not use the helmet lock for holding a helmet or other objects during the journey. Always remove the helmet lock before starting out.

The steel cable ${\bf 0}$ in the tool set can be used to lock a helmet to the vehicle to prevent it from being stolen.

Passenger footrests (Super Duke)

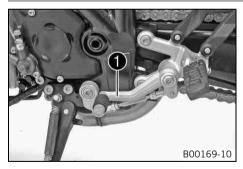


The passenger footrests can be folded up and down.

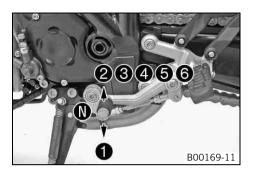
Possible states

- Passenger footrests folded up For operation without a passenger.
- Passenger footrests folded down For operation with a passenger.

Shift lever

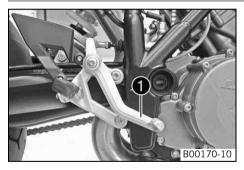


Shift lever \bullet is mounted on the left side of the engine.



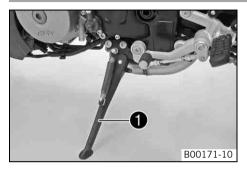
The gear positions can be seen in the photograph. The neutral or idle position ${\bf 0}$ is between the first and second gear.

Foot brake lever



Foot brake lever **1** is located in front of the right footrest. The rear brake is activated using the foot brake lever.

Side stand



Side stand **1** is coupled with the safety start system; see the riding instructions.

Possible states

- Side stand folded out The vehicle can be leaned on the side stand. The safety start system is active.
- Side stand folded in This position is mandatory for all trips. The safety start system is inactive.

Information on first use

Danger

Danger of accidents Danger arising from the rider's judgement being impaired.

 Do not operate the vehicle while under the influence of alcohol, drugs and certain medications or physically or mentally impaired.



Warning

Risk of injury Missing or poor protective clothing present an increased safety risk.

Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. Always wear
protective clothing, which must be undamaged and meet legal requirements.



Warning

Danger of crashing Poor vehicle handling due to different tire tread patterns on front and rear wheels.

- The front and rear wheels must be fitted with tires with similar tread patterns to prevent loss of control over the vehicle.



Warning

Danger of accidents Uncontrollable handling characteristic due to non-approved and/or non-recommended tires/wheels.

- Only tires/wheels approved by KTM and with the corresponding speed index should be used.



Warning

Danger of accidents Reduced road grip with new tires.

- New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.

Info

When using your vehicle, remember that others may feel disturbed by excessive noise.

- Make sure that the pre-delivery inspection work has been carried out by an authorized KTM workshop.

✓ You receive a delivery certificate and the service record at vehicle handover.

- Before your first trip, read the entire operating instructions carefully.
- Get to know the controls.

- Get used to handling the vehicle on empty suitable terrain before making a longer trip. Try also to ride as slowly as possible to get a better feeling for the motorcycle.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Run the engine in. (* p. 43)

Running in the engine

- Do not exceed the specified engine speed and load during the running-in period.

Guideline

Maximum engine speed	
During the first: 1,000 km (621.4 mi) 6,500 rpm	
After the first: 1,000 km (621.4 mi)	9,500 rpm

- Avoid full-throttle operation!

Loading the vehicle



Warning

Danger of accidents Unstable handling characteristics.

 Do not exceed the maximum permitted weight and axle loads. The overall weight consists of: motorcycle operational and with a full tank, driver and passenger with protective clothing and helmet, baggage.



Warning

Danger of accidents Unstable handling characteristics due to incorrect mounting of suitcase and/or tank rucksack.

- Mount and secure suitcase and tank rucksack according to the manufacturer's instructions.



Warning

Danger of accidents Unstable handling characteristics at high speed.

Adapt your speed according to your payload. If the motorcycle is loaded with luggage, ride more slowly.
 Maximum speed with luggage 130 km/h (80.8 mph)



Warning

Danger of accidents Destruction of luggage carrier system.

- If the motorcycle is fitted with luggage cases, note the manufacturer's specifications concerning the maximum payload.



Warning

Danger of accidents Poor visibility for other road users due to slipped baggage.

 If the tail light is covered, you are less visible to traffic behind you, especially in the dark. Check that your baggage is fixed properly at regular intervals.



Warning

Danger of accidents Changed handling characteristics and longer stopping distance with excessive payload.

Adapt your speed according to your payload.



Warning

Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.



Warning

Danger of burns A hot exhaust system can burn baggage.

- Fasten your baggage in such a way that it cannot be burned or singed by the hot exhaust system.

- If you are carrying baggage, make sure it is fixed firmly as close as possible to the center of the vehicle and ensure even weight distribution between the front and rear wheels.
- Do not exceed the maximum permissible total weight and the axle loads.

Guideline

Maximum permissible total weight	387 kg (853 lb.)
Maximum permissible front axle load	180 kg (397 lb.)
Maximum permissible rear axle load	250 kg (551 lb.)

Checks before putting into operation

lnfo

Make sure that the motorcycle is in perfect technical condition before use. In the interests of riding safety, make a habit of making a general check before you ride.

- Check the engine for loss of oil.
- Check the fuel level.
- Clean the chain. (* p. 76)
- Check the tire condition. (* p. 98)
- Check the tire air pressure. (* p. 100)

- Check the front brake linings. (* p. 87)
- Check that the brake system is functioning properly.
- Check that all controls are correctly adjusted and free to move.
- Check that the electrical equipment is functioning properly.
- Check that baggage is correctly secured.
- Sit on the motorcycle and check the rear mirror setting.

Starting

Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

 When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.



Caution

Danger of accidents If the vehicle is operated with a discharged battery or without a battery, electronic components and safety equipment may be damaged.

- Never operate the vehicle with a discharged battery or without a battery.

Note

Engine failure High engine speeds in cold engines have a negative effect on the service life of the engine.

- Always warm up the engine at low engine speeds.



- Press the emergency OFF switch into the position \bigcirc .
- Switch on the ignition by turning the ignition key to the ${\rm ON}$ \bigcirc position.
 - ✓ After you switch on the ignition, you can hear the fuel pump working for about two seconds. The function test of the combination instrument is run at the same time.
- Shift the transmission to neutral.
 - ✓ The green idling speed indicator lamp **N** lights up.
- Press the electric starter button (3).

Info

Do not press the electric starter button until the function test of the combination instrument is finished.

When starting, **DO NOT** open the throttle. If you open the throttle during the starting procedure, fuel is not injected by the engine management system and the engine cannot start.

Press the starter for a maximum of 5 seconds. Wait for a least 5 seconds before trying again.

This motorcycle is equipped with a safety start system. You can only start the engine if the transmission is in neutral or if the clutch is pulled when a gear is engaged. If the side stand is folded out and you shift into gear and release the clutch, the engine stops.

 Take the weight off the side stand and swing it upwards with your foot as far as it will go.

Starting up

- Pull the clutch lever, engage 1st gear, release the clutch lever slowly and simultaneously open the throttle carefully.

Shifting, riding



Warning

Danger of accidents Abrupt load alterations can cause the vehicle to get out of control.

- Avoid abrupt load alterations and sudden braking actions, and adapt your speed to the road conditions.



Warning

Danger of accidents If you change down at high engine speed, the rear wheel can lock up.

- Do not change into a low gear at high engine speed. The engine races and the rear wheel can lock up.



Warning

Danger of accidents Malfunctions caused by incorrect ignition key position.

- Do not change the ignition key position during a journey.



Warning

Danger of accidents Distraction from traffic activity by adjustments to the vehicle.

- Make all adjustments when the vehicle is at a standstill.



Warning

Risk of injury The passenger must be able to sit securely on the passenger seat.

The passenger must hold on to the rider or supporting strap firmly and place his/her feet on the passenger footrests. Observe
the regulations concerning the minimum age for passengers in your country.



Warning

Danger of accidents Danger of accidents caused by dangerous driving.

- Comply with traffic regulations and ride defensively and foresightedly to detect sources of danger early on.



Warning

Danger of accidents Reduced road grip with cold tires.

- On every journey, take the first miles carefully at moderate speed until the tires reach operating temperature and optimal road grip is ensured.



Warning

Danger of accidents Reduced road grip with new tires.

- New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.



Warning

Danger of accidents Unstable handling characteristics.

 Do not exceed the maximum permitted weight and axle loads. The overall weight consists of: motorcycle operational and with a full tank, driver and passenger with protective clothing and helmet, baggage.



Warning

Danger of accidents Unstable handling characteristics due to slipped baggage.

- Check the way your baggage is fixed regularly.



Warning

Danger of accidents Lack of roadworthiness.

- After a fall, check the vehicle as usual before putting it into operation.

Note

Engine failure Unfiltered intake air has a negative effect on the service life of the engine.

- Never ride the vehicle without an air filter since dust and dirt can get into the engine and result in increased wear.

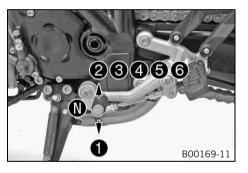
Note

Engine damage Engine overheating.

If the coolant temperature warning lamp lights up, stop the vehicle and switch off the engine. Let the engine cool down, and then check the coolant level in the radiator and top up if necessary. If you continue your journey with the coolant temperature warning lamp on, this may cause engine failure.

Info

If you hear unusual noises while riding, stop immediately, switch off the engine and contact an authorized KTM workshop.



- When conditions allow (incline, road situation, etc.), you can shift into a higher gear.
- Release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch and open the throttle.

Info

- You can see the positions of the six forward gears in the figure. The neutral or idle position is between the first and second gears. First gear is used for starting off or for steep inclines.
- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is ³/₄ open. This will barely reduce the speed but fuel consumption will be considerably lower.
- Accelerate only up to a speed suitable for the road surface and weather conditions.
 When traveling in bends, do not shift, and accelerate very carefully.
- To shift down, brake if necessary and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly and open the throttle or shift again.
- If the engine stalls (e.g. at a crossroads), pull the clutch lever only and press the starter button. You do not have to shift into neutral.

- Switch off the engine if you expect to be standing for a long time.
- If the FI warning lamp (MIL) lights up during a trip, stop immediately. When you shift to neutral, the FI warning lamp (MIL) starts to flash.

Info

From the flashing rhythm, you can derive a two-digit number, the so-called flashing code. The flashing code tells you which component has a fault.

- If the ice symbol * appears in the combination instrument, the roads may be icy. Adapt your speed to the changed road conditions.

Braking



Warning

Danger of accidents If you brake too hard, the wheels can lock.

- Adapt your braking to the traffic situation and the road conditions.



Warning

Danger of accidents Reduced braking efficiency due to wet or dirty brakes.

- Clean or dry dirty or wet brakes by riding and braking gently.



Warning

Danger of accidents Reduced braking efficiency caused by spongy pressure point of front or rear brake.

- Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Failure of brake system.

If the foot brake lever is not released, the brake linings drag continuously. The rear brake may fail due to overheating. Take your
foot off the foot brake lever when you are not braking.



Warning

Danger of accidents Longer stopping distance due to higher overall weight.

- Take the longer stopping distance into account when carrying a passenger and baggage.



Warning

Danger of accidents Delayed brake action on salted roads.

- There may be salt deposits on the brake discs. In order to restore the normal braking efficiency, you will need to remove the deposits from the discs by carefully applying the brakes.
- When braking, first throttle back and then apply the front and rear brakes at the same time.
- On wet or slippery surfaces, mainly use the rear brake.
- Braking should always be completed before you enter a bend. Shift down to a lower gear that is appropriate to your speed.
- On long downhill stretches, use the braking effect of the engine. Do this by changing down two gears, but do not race the engine. You
 will require less braking force and the brakes will not overheat.

Stopping, parking



Warning

Risk of misappropriation Usage by unauthorized persons.

- Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons. If you leave the vehicle, lock the steering and remove the ignition key.



Warning

Danger of burns Some vehicle components get very hot when the vehicle is in use.

- Do not touch hot components such as exhaust system, radiator, engine, shock absorber and brakes. Allow these components to cool down before starting work on them.

Note

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

- Always place the vehicle on a firm and even surface.

Note

Fire hazard Some vehicle components become very hot when the vehicle is operated.

– Do not park the vehicle near flammable or explosive substances. Do not place objects on the vehicle while it is still warm from being run. Always let the vehicle cool first.

Note

Material damage Damage and destruction of components by excessive load.

- The side stand is designed for the weight of the motorcycle only. Do not sit on the motorcycle when it is supported by the side stand only. The side stand and/or the frame could be damaged and the motorcycle could fall over.
- Apply the brakes.
- Shift the transmission to neutral.
- Switch off the ignition by turning the ignition key to the ${f OFF}\otimes{f position}.$

• Info

If you switch off the engine with the emergency OFF switch but the ignition remains switched on at the ignition lock, power continues to flow to most power consumers and the battery is soon discharged. Therefore, always switch off the engine with the ignition key; the emergency OFF switch is provided for emergency situations only.

- Park the motorcycle on a firm surface.
- Swing the side stand to the front with your foot as far as it will go, and lean the vehicle onto it.
- Lock the steering by turning the handlebar fully to the left, pressing down the ignition key to the OFF position ⊗ and turning it to the position ⊕. To engage the steering lock more easily, move the handlebar gently back and forth. Remove the ignition key.

Refueling

Danger



Fire hazard Fuel is highly flammable.

- Never refuel the vehicle near open flames or burning cigarettes, and always switch off the engine first. Be careful that no fuel is spilt, especially on hot vehicle components. Clean up spilt fuel immediately.
- Fuel in the fuel tank expands when warm and can escape if the tank is overfilled. See the notes on refueling.



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



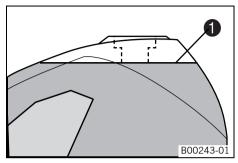
Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.

Info

This motorcycle is equipped with a regulated catalytic converter. Leaded fuel will destroy the catalytic converter. You should therefore use unleaded fuel only.



- Switch off the engine.
- Open the filler cap. (* p. 34)
- Fill the fuel tank with fuel up to the lower edge \bullet of the fuel filler.

Total fuel tank capacity, approx.		Super unleaded (ROZ 95 / RON 95 / PON 91) (* p. 187)
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Close the filler cap. (* p. 35)



- Press the SET button ② for two seconds.
 - ✓ The fuel level warning lamp switches off. TRIP F is set to 0.0 and appears in the previous display mode.

• Info

If you do not press the **SET** button $\ensuremath{\mathfrak{O}}$, the reset takes place automatically after about three minutes.

SERVICE SCHEDULE

Service schedule

	K10N	K75A	K150A	K300A
Check that the electrical equipment is functioning properly.	•	•	•	•
Read out the trouble code memory using the KTM diagnostics tool. 🔧	•	•	•	•
Change the engine oil and filter, clean the oil screens. 🔧 (🕶 p. 142)	•	•	•	•
Check the oil jet for the clutch lubrication. 🔧	•		•	•
Check the front brake linings. (* p. 87)	•	•	•	•
Check the front brake discs. (* p. 82)	•	•	•	•
Check the rear brake linings. (* p. 90)	•	•	•	•
Check the rear brake disc. (p. 83)	•	•	•	•
Check that brake lines are undamaged and free of leaks.	•	•	•	•
Check the rear brake fluid level. (* p. 88)	•	•	•	•
Check the shock absorber and fork for leaks. Perform a fork and shock absorber service if needed and depending on vehicle use.	•	•	•	•
Check the swingarm bearings. 🔧		•	•	•
Check the wheel bearing for play. 🔌		•	•	•
Check the tire condition. (* p. 98)	•	•	•	•
Check the tire air pressure. (* p. 100)	•	•	•	•
Check the chain, rear sprocket and engine sprocket. (* p. 80)		•	•	•
Check the chain tension. (•	•	•	•
Lubricate all moving parts (e.g. side stand, hand lever, chain,) and check for smooth operation. \checkmark	•	•	•	•
Clean the dust boots of the fork legs.		•	•	•
Check the front brake fluid level. (* p. 84)	•	•	•	•

SERVICE SCHEDULE

	K10N	K75A	K150A	K300A
Bleed the fork legs. (* p. 66)		•	•	•
Check the steering head bearing play.	•	•	•	•
Change the spark plugs. 🔧			•	•
Check the valve clearance. \star (Super Duke)	•		•	•
Check the valve clearance. 🔌 (Super Duke R)			•	•
Check all hoses on the vehicle (e.g. fuel, cooling, bleeder, drainage, etc.) and the bellows for cracking, leaks and correct routing.			•	•
Check the antifreeze and coolant level. (* p. 131)	•	•	•	•
Check the wiring harness of the throttle valve body for damage and correct routing. \blacktriangleleft	•		•	•
Check cables for damage and kink-free routing. 🔧			•	•
Check the control cables for damage, kink-free routing and adjustment.	•	•	•	•
Change the air filter. Clean the air filter box. 🔌			•	•
Check/rectify the fluid level of the hydraulic clutch. (p. 139)		•	•	•
Check the fasteners for tightness.	•	•	•	•
Change the coolant. 🔧				•
Change the front brake fluid. 🔧			•	•
Change the rear brake fluid. 🔺			•	•
Check the clutch. 🔧			•	•
Check the headlight setting. (* p. 129)	•	•	•	•
Check the radiator fan operation. 🔺	•	•	•	•
Final inspection: Check the vehicle of roadworthiness and take a test ride.	•	•	•	•
Read out the fault memory after a test ride using the KTM diagnostics tool. $lacksquare$	•	•	•	•
Make the service entries in the KTM DEALER.NET and service record.	•	•	•	•

SERVICE SCHEDULE

K10N: Once after 1,000 km (621.4 mi) **K75A:** Every 7,500 km (4,660 mi) or annually **K150A:** Every 15,000 km (12,428 mi), every 2 years or after every sporting use **K300A:** Every 30,000 km (18,641 mi) or every 4 years

Jacking up motorcycle at the front

Note

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

- Always place the vehicle on a firm and even surface.



- Jack up the motorcycle at the rear. (* p. 61)
- Move the handlebar to the straight-ahead position. Align the work stand at the front with the adapters to the fork legs.

Front work stand (61029055300)

Info

- Always jack up the rear of the motorcycle first.
- Jack up the motorcycle at the front.

Taking the front from the work stand

Note

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

- Always place the vehicle on a firm and even surface.
- Secure the motorcycle against falling over.
- Remove the work stand at the front.

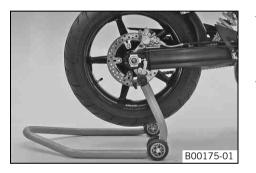
60

Jacking up motorcycle at the rear

Note

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

- Always place the vehicle on a firm and even surface.



- Insert the work stand adapter in the rear of the work stand.

Work stand adapter (61029055120)

Work stand rear (61029055100)

- Stand the motorcycle upright, align the work stand to the link fork and the adapters, and jack up the motorcycle.

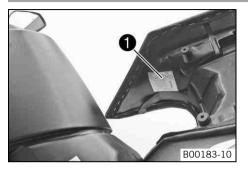
Taking the rear from the workstand

Note

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

- Always place the vehicle on a firm and even surface.
- Secure the motorcycle against falling over.
- Remove the work stand from the rear and lean the vehicle on the side stand.

Fork/shock absorber



The fork and the shock absorber offer many options of adapting the suspension to your riding style and the payload.

Info

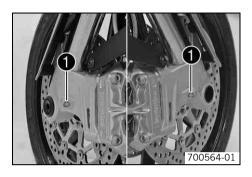
To help you adapt the vehicle, we have summarized our findings in Table **①**. You will find the table on the inside of the seat. In all settings except for the spring preload of the shock absorber, the value is adjusted by first turning the screw all the way in and then setting the value. Do not tighten the adjusting screw up against the stop with force; set the last discernible click as the last position.

These adjustments should be understood as a guideline and should always be the basis of your own personal suspension adaptation. Do not change the adjustments at random or by more than \pm 40%, since otherwise the riding characteristics could deteriorate, particularly at high speeds.

Adjusting the compression damping of the fork

Info

The hydraulic compression damping determines the fork suspension behavior. An optimally adjusted compression damping ensures that the fork does not compress too far and fast when you brake hard or when the load shifts very fast. It gives the rider good feedback about the road conditions.



- Turn adjusting screws ● clockwise all the way.

Info

- The adjusting screws are located at the bottom end of the fork legs. Make the same adjustment on both fork legs.
- Turn back counterclockwise by the number of clicks corresponding to the fork type. Guideline

(Super Duke)

Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks

(Super Duke R)

Compression damping	
Comfort	23 clicks
Standard	18 clicks
Sport	13 clicks

Info

Turn clockwise to increase damping, turn counterclockwise to reduce damping.

Adjusting the rebound damping of the fork

e Info

The hydraulic rebound damping determines the fork rebound behavior. An optimally adjusted rebound damping brakes the springing energy and enables a fast, vibration-free resetting of the fork to the zero position.



- Turn adjusting screws ① clockwise all the way.

Info

Ĩ

The adjusting screws are located at the top end of the fork legs. Make the same adjustment on both fork legs.

 Turn back counterclockwise by the number of clicks corresponding to the fork type. Guideline

(Super Duke)

Rebound damping		
Comfort	20 clicks	
Standard	15 clicks	
Sport	10 clicks	
Full payload	10 clicks	

(Super Duke R)

Rebound damping	
Comfort	12 clicks
Standard	10 clicks
Sport	8 clicks

Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the spring preload of the fork

Info

Spring preload determines the initial fork position.

The best spring preload setting is achieved when it is set for the weight of the rider and that of any baggage and a passenger, thus ensuring an ideal compromise between maneuverability and stability.



- Turn adjusting screws ① clockwise all the way.

• Info

- The adjusting screws are located at the top end of the fork legs. Make the same adjustment on both fork legs.
- Turn back counterclockwise by the number of turns according to the fork type.
 Guideline

(Super Duke)

Spring preload - Preload Adjuster	
Comfort	5 turns
Standard	5 turns
Sport	5 turns
Full payload	5 turns

(Super Duke R)

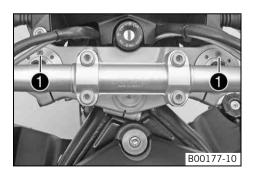
Spring preload - Preload Adjuster	
Comfort	5 turns
Standard	5 turns
Sport	5 turns

• Info

Turn clockwise to increase preload, turn counterclockwise to reduce spring preload.

Changing the spring preload has no influence on the rebound damping although the adjusting screws turn during the adjustment work. However, you should also adjust the rebound damping when you alter the spring preload.

Bleeding the fork legs



- Lean the motorcycle on the side stand.
- Remove bleeder screws ① briefly.
 - \checkmark Any excess pressure escapes from the interior of the fork.
- Mount and tighten the bleeder screws.

Info

Carry out this operation on both fork legs.

Compression damping of the shock absorber



The shock absorber can regulate compression damping separately in the low-speed and high-speed ranges (Dual Compression Control).

The terms low-speed and high-speed refer to the movement of the shock absorber during compression and not the riding speed of the motorcycle.

Changes in the low-speed range settings have an impact on the high-speed range and vice versa.

Adjusting the low-speed compression damping of the shock absorber

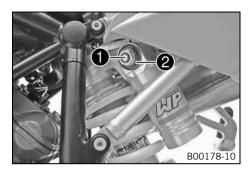
Danger

Danger of accidents Disassembly of pressurized parts can lead to injury.

 The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)

Info

The low-speed setting can be seen during the slow to normal compression of the shock absorber.



– Turn adjusting screw **1** clockwise with a screwdriver up to the last perceptible click.

Info

Do not loosen nut **2**!

- Turn back counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

(Super Duke)

Compression damping, low-speed	
Comfort	25 clicks
Standard	20 clicks
Sport	10 clicks
Full payload	10 clicks

(Super Duke R)

Compression damping, low-speed	
Comfort	25 clicks
Standard	20 clicks
Sport	15 clicks

Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

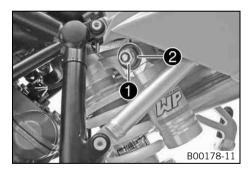
Danger

Danger of accidents Disassembly of pressurized parts can lead to injury.

- The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)

Info

The high-speed setting can be seen during the fast compression of the shock absorber.



- Turn adjusting screw **1** clockwise all the way using a socket wrench.

lnfo

- Do not loosen nut 2
- Turn back counterclockwise the number of turns corresponding to the shock absorber type.

Guideline

(Super Duke)

Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Full payload	1 turn

(Super Duke R)

Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn

Info

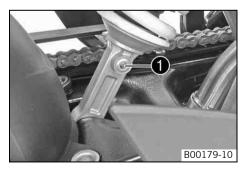
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the rebound damping of the shock absorber



Danger Danger of accidents Disassembly of pressurized parts can lead to injury.

 The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)



- Turn adjusting screw **1** clockwise up to the last perceptible click.
- Turn back counterclockwise by the number of clicks corresponding to the shock absorber type.

Guideline

(Super Duke)

Rebound damping	
Comfort	20 clicks
Standard	12 clicks
Sport	8 clicks
Full payload	8 clicks

70

(Super Duke R)

Rebound damping		
Comfort	12 clicks	
Standard	10 clicks	
Sport	8 clicks	

71

Info

Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the spring preload of the shock absorber \boldsymbol{A}



Warning

Danger of accidents Modifications to the suspension settings can seriously alter the vehicle's ride behavior.

- Following modifications, ride slowly at first to get the feel of the new ride behavior.

Info

The spring preload defines the initial situation of the spring process on the shock absorber.

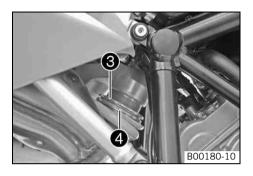
The best spring preload setting is achieved when it is set for the weight of the rider and that of any baggage and a passenger, thus ensuring an ideal compromise between maneuverability and stability.

Before changing the spring preload, make a note of the present setting, e.g., by measuring the length of the spring.

- Take the weight off the rear wheel and swingarm.

Info

The spring preload can be adjusted correctly only if the rear wheel and the swingarm are fully relieved of weight.



- Loosen locking ring 6.
- Turn adjusting ring ④ until the spring is no longer under tension.

Hook wrench (T106S)

- Measure the overall spring length without a load.
- Tension the spring by turning adjusting ring ^(a) to the prescribed value. Guideline

(Super Duke)

Spring preload	
Comfort	6 mm (0.24 in)
Standard	6 mm (0.24 in)
Sport	6 mm (0.24 in)
Full payload	6 mm (0.24 in)

(Super Duke R)

Spring preload	
Comfort	6 mm (0.24 in)
Standard	6 mm (0.24 in)
Sport	6 mm (0.24 in)

– Tighten locking ring **③**.

Steering damper (Super Duke R)



The steering damper suppresses shocks to the steering arising from acceleration on uneven ground at high speed or when the load is temporarily taken from the front wheel. The steering damper is adjusted to suit the riding style and the road conditions. For high speeds, an adjustment with high damping can be chosen in order to use the steering damping function optimally. In slow, tight bends, intensive damping can negatively affect handling and steering precision, so the damping should be set to low.

Adjusting the steering damper (Super Duke R)

Info

The hydraulic steering damper stabilizes the steering if the front wheel is raised off the ground or carries no load. In contrast to other damping elements, the steering damper is adjusted with the damping element open.



- Turn the adjusting screw O counterclockwise towards "-" as far as the last perceptible click.
- Adjust the steering damper according to your riding style and the road conditions by turning the adjust screw clockwise towards "+".

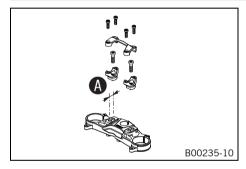
Guideline

Steering damper adjustment range	1 30 clicks
Recommended range for use	1 20 clicks
Standard	15 clicks

Info

Do not change the adjustment of the steering damper during the journey! After adjusting the steering damper, check the steering for smooth operation, making sure that the handlebar can be moved from extreme left to extreme right without a tendency to lock.

Handlebar position (Super Duke R)



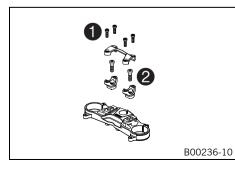
On the upper triple clamp are two holes a distance of () apart.

Hole distance Ø

15 mm (0.59 in)

The handlebar can be mounted in two different positions. In this way, the handlebar can be installed in the position most comfortable for the rider.

Adjusting the handlebar position 🔌 (Super Duke R)



- Remove the four screws **1**. Remove the handlebar clamp. Take off the handlebar and set it aside.

Info

Protect the motorcycle and attachments against damage by covering them. Do not kink the cables and lines.

- Remove the two screws **2**. Remove the handlebar support.

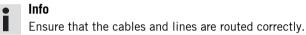
- Move the handlebar support to the desired position. Mount and tighten the two screws **2**.

Guideline

Screw, handlebar support	M10	45 Nm (33.2 lbf ft)
Info Position the handlebar supp	orts evenly on the left	and right.

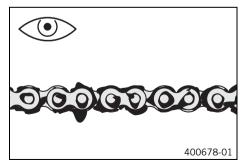
Position the handlebar supports evenly on the left and right.

- Position the handlebar.



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

Checking the chain for dirt



- Check the chain for coarse dirt accumulation.
 - » If the chain is very dirty:
 - Clean the chain. (* p. 76)

Cleaning the chain



Warning

Danger of accidents Oil or grease on the tires reduces their grip.

- Remove oil and grease with a suitable cleaning material.



Warning

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

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



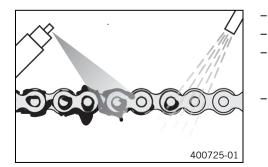
Warning

Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

Info

The service life of the chain depends largely on its maintenance.



- Clean the chain regularly.
- Rinse off loose dirt with a soft jet of water.
- Remove old grease remains with chain cleaner.

Chain cleaner (* p. 188)

After drying, apply chain spray.

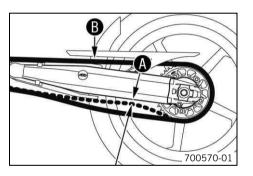
Chain lube for road use (* p. 188)

Checking the chain tension

Warning

Danger of accidents Danger caused by incorrect chain tension.

If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break. On the other hand, if the chain is loose, it can fall off the engine sprocket or the rear sprocket and block the rear wheel or damage the engine. Check the chain tension and correct if necessary.



- Lean the motorcycle on the side stand.
- Shift the transmission to neutral.
- In the area after the chain sliding guard, press the chain upward toward the link fork and measure chain tension **(a)**.

• Info

The upper chain section [®] must be taut.

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension	7 mm (0.28 in)
---------------	----------------

- » If the chain tension does not meet specifications:
 - Adjust the chain tension. (* p. 78)

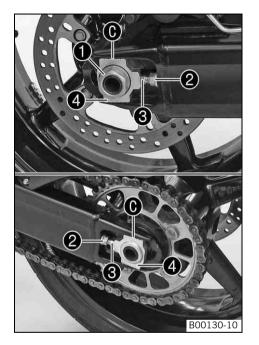
Adjusting the chain tension



Warning

Danger of accidents Danger caused by incorrect chain tension.

If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break. On the other hand, if the chain is loose, it can fall off the engine sprocket or the rear sprocket and block the rear wheel or damage the engine. Check the chain tension and correct if necessary.



- Loosen nut **1**.
- Loosen nuts 🛛.

Chain tension	7 mm (0.28 in)
Turn adjusting screws ③ on the left and rig right chain adjuster ④ are in the same pos rear wheel is then correctly aligned.	-

Info

The upper chain section must be taut.

Chain wear is not always even, so you should check the setting at different chain positions.

- Tighten nuts 2.
- Make sure that chain adjusters 4 are resting against adjusting screws 6.
- Tighten nut 🛈.

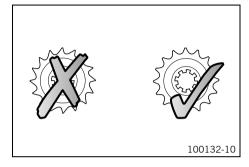
Guideline

Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	Thread greased
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Info

The wide adjustment range of the chain adjusters (32 mm (1.18 in)) enables different secondary transmissions with the same chain length. Chain adjusters ④ can be turned through 180°.

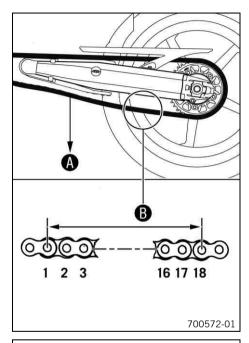
Checking the chain, rear sprocket and engine sprocket



- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket or engine sprocket is worn:
 - Replace the rear sprocket or engine sprocket.

Info

The rear sprocket, engine sprocket and chain should always be changed together.



B00241-01

Shift into neutral, and pull the lower chain section with the specified weight (a).
 Guideline

Weight, chain wear measurement	15 kg (33 lb.)
--------------------------------	----------------

– Measure the distance **()** of 18 chain links in the lower chain section.

Info

Chain wear is not always even, so you should repeat this measurement at different chain positions.

Maximum distance ⁽³⁾ at the longest	272 mm (10.71 in)
chain section	

- » If distance **()** is greater than the specified measurement:
 - Replace the chain. 🔌

Info

When the chain is replaced, the rear sprocket and engine sprocket should also be changed.

New chains wear out faster on old, worn sprockets.

For safety reasons, the chain has no chain joint.

- Check the chain sliding guard for wear.
 - » If the chain sliding guard is worn:
 - Change the chain sliding guard. 🔌
- Check the chain sliding guard for tightness.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.

Guideline

Remaining chassis screws	M6	10 Nm
		(7.4 lbf ft)

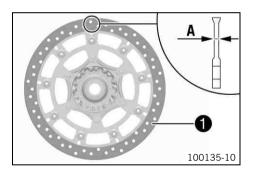
Checking the front brake discs



Warning

Danger of accidents Reduced braking efficiency due to worn brake disc(s).

- Change the worn brake disc(s) without delay. (Your authorized KTM workshop will be glad to help.)



Check the thickness of the brake disc in several places to see if it conforms to measurement

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Info

Wear reduces the thickness of the brake discs in area **1** of the brake discs.

Brake discs - wear limit	
Front	4 mm (0.16 in)

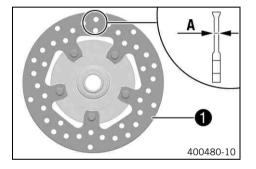
- » If the brake disc thickness is less than the specified value:
 - Change the brake discs. 崤
- Check the brake discs for damage, cracking and deformation.
 - » If the brake discs exhibit damage, cracking or deformation:
 - Change the brake discs. 🔌

Checking the rear brake disc

Warning

Danger of accidents Reduced braking efficiency due to worn brake disc(s).

- Change the worn brake disc(s) without delay. (Your authorized KTM workshop will be glad to help.)



- Check the thickness of the brake disc in several places to see if it conforms to measurement **@**.

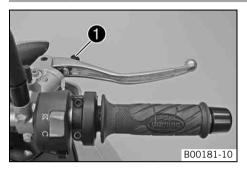
lnfo

Wear reduces the thickness of the brake disc in area \bullet of the brake disc.

Brake disc - wear limit	
Rear	4.5 mm (0.177 in)

- » If the brake disc thickness is less than the specified value:
 - Change the brake disc. 🔌
- Check the brake disc for damage, cracking and deformation.
 - » If damage, cracks or deformation are visible on the brake disc:
 - Change the brake discs. 🔌

Adjusting the basic position of the hand brake lever



- Pull the brake lever forwards.
- Adjust the basic setting of the hand brake lever to your hand size by turning adjusting wheel ①.



Do not make any adjustments while riding!

Checking the front brake fluid level



Warning

Danger of accidents Failure of the brake system.

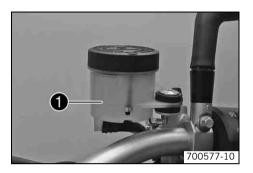
- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brakes according to the service schedule. (Your authorized KTM workshop will be glad to help.)



Adding front brake fluid 🔧



Warning

Danger of accidents Failure of the brake system.

- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brakes according to the service schedule. (Your authorized KTM workshop will be glad to help.)

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Check the brake fluid level in the brake fluid reservoir •.
 - » If the brake fluid is below the MIN marking:
 - Add front brake fluid. 🔌 (🕶 p. 85)



Warning

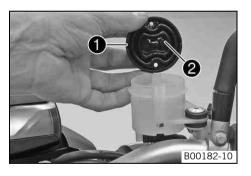
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

Info

Never use DOT 5 brake fluid! It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid is corrosive and will damage painted surfaces. Use only clean brake fluid from a sealed container.



- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws.
- Remove cover **1** with membrane **2**.
- Add brake fluid to the MAX level.

Brake fluid DOT 4 / DOT 5.1 (* p. 184)

- Position the cover with the membrane. Mount and tighten the screws.

Info

Clean up overflowed or spilt brake fluid immediately with water.

Brake linings

The brake linings fitted by KTM have been tested over long periods and guarantee optimal braking characteristics. The type names of the brake linings are entered in the homologation documents.

Info

Brake linings available in accessories shops are often untested and unapproved for use on KTM vehicles. The structure and friction coefficient of the brake linings, and therefore the brake power, can vary considerably from the original KTM brake linings. If brake linings other than those supplied as originals are used, there is no guarantee that they correspond to the original homologation. The vehicle then no longer corresponds to the condition at delivery and the guarantee is no longer valid.

Checking the front brake linings



Warning

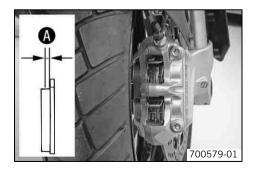
Danger of accidents Reduced braking efficiency caused by worn brake linings.

- Change worn brake linings immediately. (Your authorized KTM workshop will be glad to help.)

Note

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

If the brake linings are not changed in time, the steel brake lining carriers grind on the brake disc. The braking effect is greatly reduced and the brake discs are rendered unserviceable. Check the brake linings regularly.



Minimum thickness	≥ 1 mm (≥ 0.04 in)
-------------------	--------------------

- » If the minimum thickness is less than specified:
 - Change the front brake linings. 🔌
- Check all brake linings on both brake calipers for damage and cracking.
 - » If damage or wear is encountered:
 - Change the front brake linings. 🔌

Checking the rear brake fluid level



Warning

Danger of accidents Failure of the brake system.

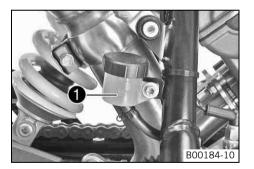
- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brakes according to the service schedule. (Your authorized KTM workshop will be glad to help.)



Adding rear brake fluid 🔧



Danger of accidents Failure of the brake system.

- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)

- Stand the vehicle upright.
- Check the brake fluid level of the brake fluid reservoir.
 - » If the fluid level reaches the MIN mark ${\color{blacklength}\bullet}:$
 - Add rear brake fluid. 🔌 (🕶 p. 88)



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid gets into your eyes, rinse thoroughly with water and contact a doctor immediately.



Warning

Danger of accidents Reduced braking effect caused by old brake fluid.

 Change the brake fluid of the front and rear brakes according to the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

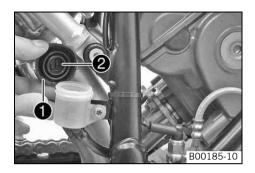
Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

Info

Never use DOT 5 brake fluid! It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid is corrosive and will damage painted surfaces. Use only clean brake fluid from a sealed container.



- Stand the vehicle upright.
- Remove screw cap **1** with the washer and membrane **2**.
- Add brake fluid to the MAX level.

Brake fluid DOT 4 / DOT 5.1 (* p. 184)

- Mount the screw cap with the washer and membrane.

Info

Clean up overflowed or spilt brake fluid immediately with water.

Checking the rear brake linings



Warning

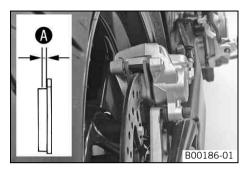
Danger of accidents Reduced braking efficiency caused by worn brake linings.

- Change worn brake linings immediately. (Your authorized KTM workshop will be glad to help.)

Note

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

- If the brake linings are not changed in time, the steel brake lining carriers grind on the brake disc. The braking effect is greatly reduced and the brake discs are rendered unserviceable. Check the brake linings regularly.



Removing the front wheel 🔧



- Check the brake linings for minimum thickness ().

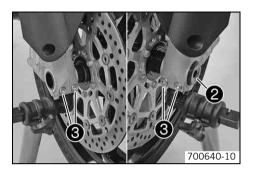
Minimum thickness 🚯	≥ 1 mm (≥ 0.04 in)
---------------------	--------------------

- » If the minimum thickness is less than specified:
 - Change the rear brake linings. 🔌
- Check the brake linings for damage and cracking.
 - » If damage or wear is encountered:
 - Change the rear brake linings. 🔌

- Jack up the motorcycle at the rear. (* p. 61)
- Jack up the motorcycle at the front. (* p. 60)
- Remove the screws **1** from both brake calipers.
- Press back the brake linings with a light lateral tilting of the brake calipers on the brake disc. Pull the brake calipers carefully back from the brake discs and hang them to one side.

Info

Do not pull the hand brake lever when the brake calipers are removed.



- Loosen screws 2 and 3.
- Unscrew screw ② about six turns and press your hand on the screw to push the wheel spindle out of the fork stub. Remove screw ②.



Warning

Danger of accidents Reduced braking efficiency caused by damaged brake discs.

- Always lay the wheel down in such a way that the brake discs are not damaged.
- Holding the front wheel, withdraw the wheel spindle. Take the front wheel out of the fork.

Installing the front wheel 🔧

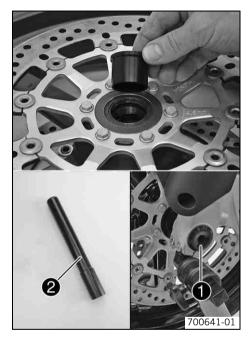


Warning

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

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

B00244-11



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is broken or worn:
 - Replace the wheel bearing. 🛁
- Grease and mount the left and right spacers and the shaft seal rings.

Long-life grease (🕶 p. 189)

- Clean screw **1** and wheel spindle **2**.
- Lift the front wheel into the fork, position it, and insert the wheel spindle.
- Mount and tighten screw ①.

Guideline

Bolt, front axle	M25x1.5	45 Nm (33.2 lbf ft)	
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- Position the brake calipers and check that the brake linings are seated correctly.
- Mount screws **3** on both brake calipers but do not tighten yet.
- Operate the hand brake lever repeatedly until the brake lining presses up against the brake disc and there is a pressure point. Fix the hand brake lever in its engaged position.
 - ✓ The brake calipers straighten.
- Tighten screws **③** on both brake calipers.

93

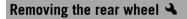
Guideline

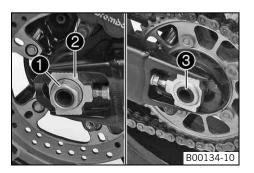
Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft)	Loctite [®] 243™
----------------------------	----------	------------------------	---------------------------

- Remove the fixation of the hand brake lever.
- Take the front from the work stand. (• p. 60)
- Take the rear from the work stand. (Tp. 61)
- Pull the front brake and compress the fork powerfully a few times.
 - ✓ The fork legs straighten.
- Fully tighten screws 4.

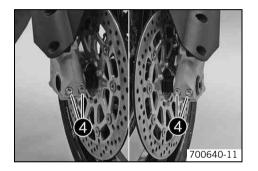
Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
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- Jack up the motorcycle at the rear. (* p. 61)
- Remove nut 1. Remove chain adjuster 2.
- Pull out wheel spindle ③ to the point where the chain adjuster is no longer in contact with the adjusting screw.





- Push the rear wheel forward as far as possible and take the chain off the rear sprocket. _
- Withdraw the wheel spindle.
- Pull the rear wheel backward until the brake caliper support hangs free between the brake disc and the wheel rim



Warning

Danger of accidents Reduced braking efficiency caused by damaged brake discs

- Always lay the wheel down in such a way that the brake discs are not damaged.
- Take the rear wheel carefully out of the swingarm without damaging the rim and/or brake disc.



Info

Do not operate the foot brake when the rear wheel is removed.

Installing the rear wheel 🔧



Warning

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

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

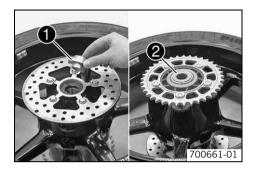


Warning

Danger of accidents No braking effect when operating the rear brake.

After installing the rear wheel, always operate the foot brake until the pressure point is reached.

Check the rear hub shock absorbers. \checkmark (\checkmark p. 97)



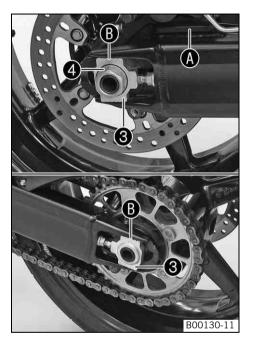
- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is broken or worn:
 - Replace the wheel bearing. 🔺
- Remove bushing ① and bushing ②. Clean and grease the roll surfaces of the bushing and the shaft seal rings.

Long-life grease (🕶 p. 189)

- Fit the bushings.
- Clean and grease the thread of the wheel spindle and nut.

Long-life grease (🕶 p. 189)

- Clean the fixing locations on the brake caliper support and swingarm.



- Engage the counter bearing of the brake caliper support
 and swingarm. Lay the chain
 on the rear sprocket and mount the wheel spindle.
- Mount chain adjuster ③ and nut ④.



Mount the left and right chain adjusters in the same position.

 Push the rear wheel forward so that the chain adjusters are in contact with the adjusting screws, and tighten the nut.

Guideline

In order for the rear wheel to be correctly aligned, the markings on the left and right chain adjusters must be in the same position relative to the reference marks **(B**).

Nut, rear wheel spindle	M25x1.5	90 Nm	Thread greased
		(66.4 lbf ft)	C

- Operate the foot brake lever repeatedly until the brake linings lie on the brake disc and there is a pressure point.
- Check the chain tension. (* p. 77)

Checking rear hub shock absorbers 🔌

Info

The engine power is transmitted by the rear sprocket to the rear wheel through five shock absorbers. They eventually wear out during operation. If the shock absorbers are not changed in time, the rear sprocket carrier and the rear hub are damaged.

– Remove the rear wheel. 🔌 (🕶 p. 94)



- Remove the rear sprocket carrier.
- Check the rear hub for damage and wear.
 - » If the rear hub shock absorbers are damaged or worn:
 - Change the rear hub shock absorber. 🔌
- Position the rear sprocket carrier.

Info

- A set of bolts and shock absorbers should have as little free travel as possible to increase the service life of the shock absorbers.
- 🛛 Install the rear wheel. 🔌 (🕶 p. 95)

Checking the tire condition

Warning

Danger of accidents Uncontrollable handling characteristic caused by a flat tire.

- For your own safety, have damaged tires changed immediately.



Warning

Danger of crashing Poor vehicle handling due to different tire tread patterns on front and rear wheels.

- The front and rear wheels must be fitted with tires with similar tread patterns to prevent loss of control over the vehicle.



Warning

Danger of accidents Uncontrollable handling characteristic due to non-approved and/or non-recommended tires/wheels.

- Only tires/wheels approved by KTM and with the corresponding speed index should be used.



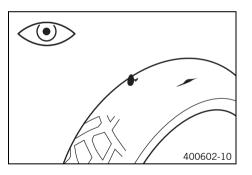
Warning

Danger of accidents Reduced road grip with new tires.

- New tires have a smooth rolling surface and therefore cannot provide full road grip. The entire rolling surface must be roughened in the first 200 kilometers (124.3 miles) by moderate riding at alternating angles. The full grip levels are not achieved until the tires have been run in.

Info

The type, condition and air pressure of the tires all have a major impact on the handling of the motorcycle. Worn tires have a negative effect on vehicle handling, especially on wet surfaces.



- Check the front and rear tires for cuts, run-in objects and other damage.
 - » If the tires exhibit cuts, run-in objects or other damage:
 - Change the tires.
- Check the depth of the tread.

Info

Note local national regulations concerning the minimum tread depth.

Minimum tread depth	≥ 2 mm (≥ 0.08 in)
---------------------	--------------------

- » If the tread depth is less than the minimum permissible depth:
 - Change the tires.
- Check the age of the tires.

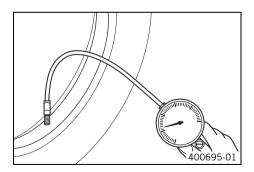
Info

- The tire's date of manufacture is usually part of the tire markings and is indicated by the last four digits of the **DOT** marking. The first two digits refer to the week of manufacture and last two digits refer to the year of manufacture. KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.
- If a tire is more than five years old:
 - Change the tires.

Checking the tire air pressure

Info

Low tire air pressure leads to abnormal wear and overheating of the tire. Correct tire air pressure ensures optimal riding comfort and maximum tire service life.



- Remove the dust cap.
- Check the tire air pressure when the tires are cold.

Tire air pressure, solo	
Front	2.4 bar (35 psi)
Rear	2.4 bar (35 psi)
Tire air pressure with passenger/full payload	
Front	2.4 bar (35 psi)
Rear	2.6 bar (38 psi)

If the tire pressure does not meet specifications: »

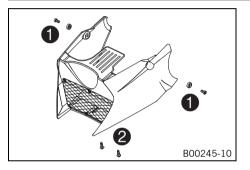
Correct the tire pressure.

- Mount the dust cap.

Info

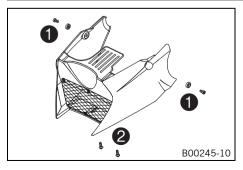
The rubber seal in the dust cap prevents air from leaking out of the tire if the valve is faulty.

Removing the front spoiler



- Remove screws **1** with the washer.
- Loosen screws 2 and remove the front spoiler from the front.

Installing the front spoiler



- Position the front spoiler.
- Mount and tighten screws **1** with the washer.

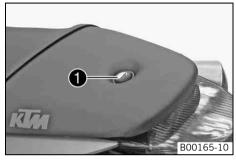
Guideline

Screw, front spoiler	M6	10 Nm	Loctite [®] 243™
		(7.4 lbf ft)	

- Fully tighten screws 2.

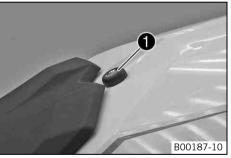
101

Removing the seat



(Super Duke)

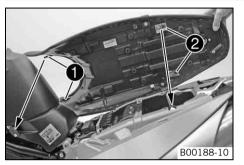
- Insert the ignition key in the seat lock **1** and turn it clockwise.
- Raise the rear of the seat, push it towards the rear, and remove it upwards.



(Super Duke R)

- Insert the ignition key in the seat lock **1** and turn it clockwise.
- Raise the rear of the seat, push it towards the rear, and remove it upwards.

Mounting the seat



(Super Duke)

- Hook the tabs ① of the seat onto the fuel tank, lower the rear and push forward. The two hooks ② must engage in the subframe.
- Turn the ignition key counterclockwise in the seat lock and withdraw it.
- Finally, check that the seat is correctly mounted.



(Super Duke R)

- Position the seat on the motorcycle and push it forward.
- Turn the ignition key counterclockwise in the seat lock and withdraw it.
- Finally, check that the seat is correctly mounted.

Seat height (Super Duke R)



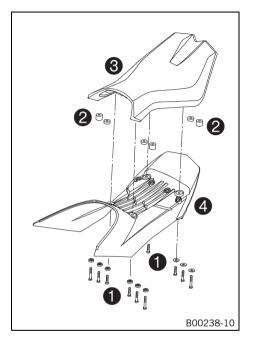
The seat height of the mono seat can be adjusted.

Seat height, unloaded	860 875 mm (33.86 34.45 in)
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The seat can be set to three different positions. In this way, the seat can be installed in the position most comfortable for the rider.

Adjusting the seat height (Super Duke R)

- Remove the seat. (* p. 102)



- Remove the four screws **1**.

Info

- The required parts are included.
- If needed, position spacers 2 of the same length between seat 3 and seat support 3.
- Mount and tighten screws **1** of a suitable length.

Guideline

Remaining chassis screws	M6	10 Nm (7.4 lbf ft)
Condition Without spacer		
Use an M6x16 screw		
Condition Spacer: 7 mm (0.28 in)		
Use an M6x20 screw		
Condition Spacer: 15 mm (0.59 in)		
Use an M6x30 screw		

Mounting the helmet lock on the vehicle

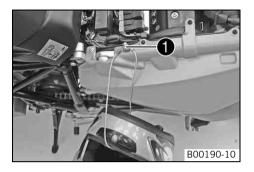


Warning

Danger of accidents Impairment of ride behavior and vehicle operation if a helmet or helmet lock is attached to the vehicle.

 Do not use the helmet lock for holding a helmet or other objects during the journey. Always remove the helmet lock before starting out.

105



- Remove the seat. (* p. 102)
- Position the steel cable from the tool set with one loop on the lug lacksquare.

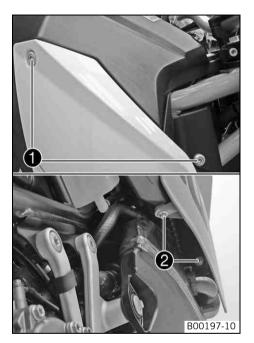
Steel cable (60012015000)

- Guide the steel cable through the helmet opening.
- Then position the free loop of the steel cable on the lug.
- Position the helmet carefully on the side of the vehicle.

Removing the spoiler

Info

The operations are the same on the left and right sides.

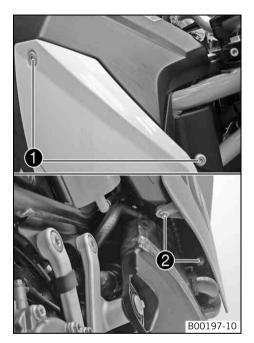


- Remove screws **1** and **2**.
- Take off the spoiler.

Installing the spoiler

Info

The operations are the same on the left and right sides.



- Position the spoiler.
- Mount and tighten screws **1** and **2**.

Guideline

Screw, spoiler	M6	6 Nm (4.4 lbf ft)
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Removing the battery 🔌



Warning

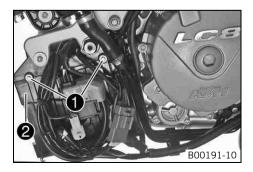
Risk of injury Battery acid and battery gases cause serious cauterization.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open fire. Charge only in well ventilated rooms.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a doctor.

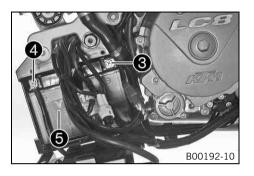
Caution

Danger of accidents If the vehicle is operated with a discharged battery or without a battery, electronic components and safety equipment may be damaged.

- Never operate the vehicle with a discharged battery or without a battery.



- Switch off all power consumers and switch off the engine.
- Remove the front spoiler. (* p. 101)
- Remove the cable binder.
- Detach the connector from the start relay.
- Push the wiring harness to the side.
- Remove screws **1**.
- Fold cover 2 down.



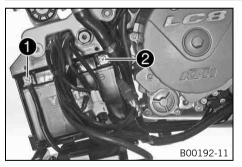
- Disconnect negative cable ⁽³⁾ of the battery.
- Disconnect the positive (plus) cable 4 of the battery.
- Take the battery **③** out of the battery compartment.



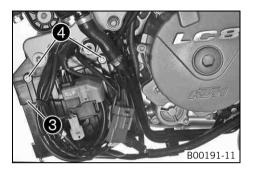
Never operate the motorcycle with a discharged battery or without a battery. In both cases, electrical components and safety equipment can be damaged. The vehicle is then no longer safe to ride.

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Installing the battery 🔧



- Position the battery in the battery compartment.
- Connect positive cable ①.
- Connect negative cable 2.



- Fold cover 3 up.
- Mount and tighten screws 4.
- Attach the connector to the start relay.
- Position the wiring harness and fasten it with cable binders.
- Install the front spoiler. (* p. 101)
- Set the clock. (🕶 p. 28)

Recharging the battery 🔧



Warning

Risk of injury Battery acid and battery gases cause serious cauterization.

- Keep batteries out of the reach of children.
- Wear suitable protective clothing and goggles.
- Avoid contact with battery acid and battery gases.
- Keep the battery away from sparks or open fire. Charge only in well ventilated rooms.
- In the event of skin contact, rinse with large amounts of water. If battery acid gets in the eyes, rinse with water for at least 15 minutes and contact a doctor.



Warning

Environmental hazard Battery parts and acid are harmful to the environment.

Do not discard batteries with the household trash. Dispose of a defective battery in an environmentally compatible manner.
 Give the battery to your KTM dealer or to a recycling center that accepts used batteries.

111



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

Info

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

The charge state and the type of charge are very important for the service life of the battery.

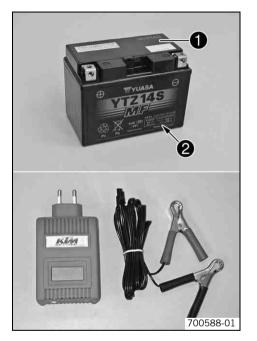
Rapid recharging with a high charging current shortens the battery's service life.

If the charging current, charging voltage and charging time are exceeded, electrolyte escapes through the safety valves. This reduces the battery capacity.

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

If the battery is left in a discharged state for an extended period, it will become over-discharged and sulfate, destroying the battery. The battery is maintenance-free, i.e., the acid level does not have to be checked.

- Switch off all power consumers and switch off the engine.
- Remove the battery. 🔌 (🕶 p. 109)



Connect the battery charger to the battery. Switch on the battery charger.

Battery charger (58429074000)

You can also use the battery charger to test the rest potential and start potential of the battery, and to test the alternator. With this device, you cannot overcharge the battery.

Info

Never remove lid **①**.

Charge the battery at no more than 10% of the capacity specified on battery housing $\boldsymbol{2}$.

Switch off the charger after charging.

Guideline

The charge current, charge voltage and charge time must not be exceeded.		
Charge the battery regularly when the motorcycle is not in use	3 months	

– Install the battery. 🔌 (🕶 p. 110)

Changing the main fuse



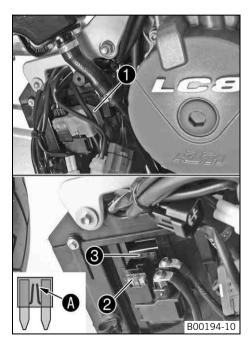
Warning

Fire hazard The electrical system can be overloaded by the use of incorrect fuses.

- Use only fuses with the prescribed amperage. Never by-pass or repair fuses.

Info

The main fuse protects all power consumers of the vehicle. The main fuse is located next to the battery under the front spoiler.



- Switch off all power consumers and switch off the engine.
- Remove the front spoiler. (p. 101)
- Detach the connector and protection cap ①.
- Remove the faulty main fuse **2**.

Info

A defective fuse can be identified by the burned-out fuse wire **(a)**. A reserve fuse **③** is located in the starter relay.

Install a new main fuse.

Fuse (58011109130) (, 172)



Tip

Place the spare fuse in the starter relay so that it is available if needed.

- Mount protection cap **1** and the connector. _
- Install the front spoiler. (p. 101)
- Set the clock. (p. 28) _

Changing the fuses of individual power consumers

Warning

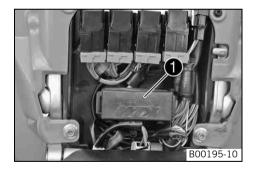
Fire hazard The electrical system can be overloaded by the use of incorrect fuses.

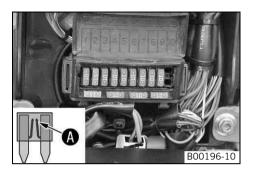
- Use only fuses with the prescribed amperage. Never by-pass or repair fuses.

Info

The fuse box containing the fuses of individual power consumers is located under the seat.

- Switch off all power consumers and switch off the engine.
 - Remove the seat. (* p. 102)
 - Open fuse box cover ①.





- Check the fuses.

Info

A defective fuse can be identified by the burned-out fuse wire **()**.

- Remove the faulty fuse.

Guideline

Fuse 1 - 10A - ignition
Fuse 2 - 15A - high beam, low beam, parking light, tail light, license plate lamp
Fuse 3 - 10A - horn, brake light, turn signal
Fuse 4 - 10A - radiator fan
Fuse 5 - 10A - fuel pump
Fuse 6 - 10A - power relay, combination instrument
Fuse 7 - 10A - clock
Fuse 8 - 10A - for supplementary equipment (standard accessories)
Fuse 9 - 10A - for auxiliary equipment (accessories connected to the ignition switch)
Fuse 10 - not used
Fuse SPARE - 10A/15A - spare fuses

- Use spare fuses with the correct rating only.

Fuse (75011088010) (🕈 p. 172)

Fuse (75011088015) (* p. 172)

• Tip

Insert the spare fuse so that it is available if needed.

- Close the fuse box cover.

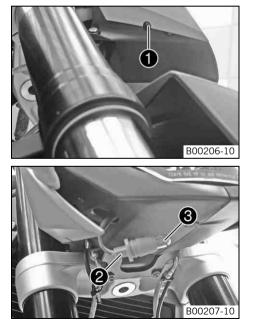
116

Changing the parking light bulb

Note

Damage to reflector Reduced luminance.

 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.



Remove screw 1.

- Push the headlight mask spoiler slightly to the side.

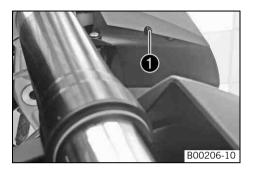
Switch off all power consumers and switch off the engine.

- Pull out lamp socket 2.
- Remove bulb 8.
- Position a new light bulb in the holder.

Parking light (W5W/socket W2.1x9.5d) (* p. 173)

- Carefully position the holder with the bulb into the holder in the headlight.

_



Changing the low beam bulb

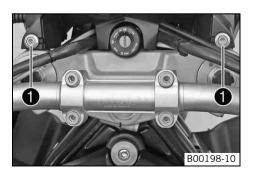
Note

Damage to reflector Reduced luminance.

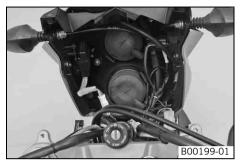
 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.

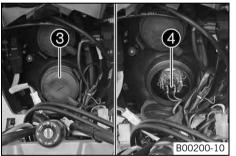
Mount and tighten screw **①**.

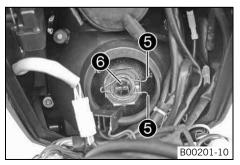
Check that the lighting is functioning properly.



- Switch off all power consumers and switch off the engine.
- Remove screws ①.







- Cover the fender with a cloth.
- Swing the headlight mask forward.

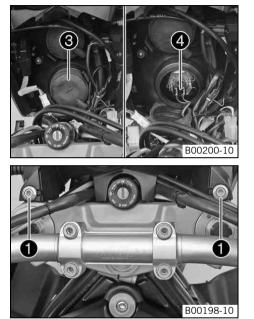
- Remove rubber cap 6.
- Disconnect plug-in connector ④.

- Detach spring bar 6.
- Remove headlight bulb 6.
- Position the new headlight bulb in the headlight housing.

Low beam (H7/socket PX26d) (P. 173)

Info

Insert the headlight bulb so that the bayonet lugs latch into the slots.



Changing the high beam bulb

Note

Damage to reflector Reduced luminance.

 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.

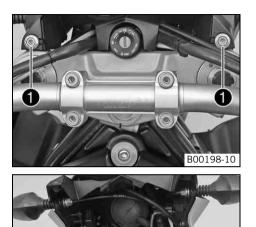
- Position the spring bar.
- Connect plug-in connector **4**.
- Mount rubber cap **③**.

Position the headlight mask. Mount and tighten screws ①.
 Guideline

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

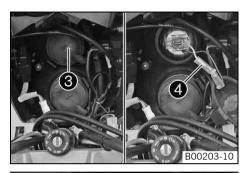
- Check that the lighting is functioning properly.

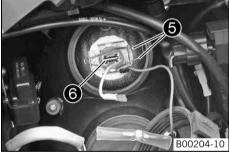
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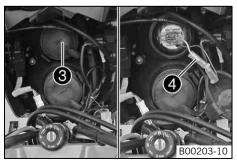


- Switch off all power consumers and switch off the engine.
- Remove screws ①.

- Cover the fender with a cloth.
- Swing the headlight mask forward.







- Remove rubber cap **③**.
- Disconnect plug-in connector ④.

- Detach spring bar **G**.
- Remove headlight bulb 6.
- Position the new headlight bulb in the headlight housing.

High beam (H3/socket PX22s) (* p. 173)

lnfo

Insert the headlight bulb so that the bayonet lugs latch into the slots.

- Position the spring bar.
- Connect plug-in connector **④**.
- Mount rubber cap 3.



Position the headlight mask. Mount and tighten screws ①.

Guideline

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

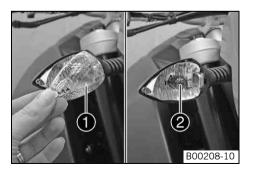
- Check that the lighting is functioning properly.

Changing the turn signal bulb

Note

Damage to reflector Reduced luminance.

 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.



- Remove the screw on the rear of the turn signal housing.
- Carefully remove diffuser ①.
- Press bulb ② carefully into the socket, turn it counterclockwise by about 30°, and pull it out of the socket.
- Press the new bulb carefully into the socket and turn it clockwise until it stops.

Turn signal (RY10W/socket BAU15s) (* p. 173)

- Check the turn signal to make sure it is functioning properly.
- Position the diffuser.
- Insert the screw and first turn it counterclockwise until it engages in the thread. Tighten the screw slightly.

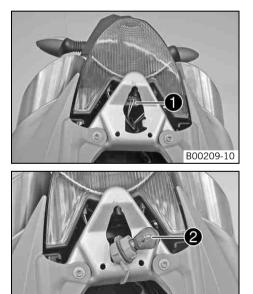
123

Changing the brake light bulb (Super Duke)

Note

Damage to reflector Reduced luminance.

 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.



B00211-10

- Remove the seat. (***** p. 102)
- Turn bulb socket ① counterclockwise all the way and take it out of the tail light.

- Push bulb ② carefully into the socket, turn it counterclockwise and pull it out of the socket.
- Press the new bulb carefully into the socket and turn it clockwise until it stops.

Brake light (PR21W/socket BAW15s) (* p. 173)

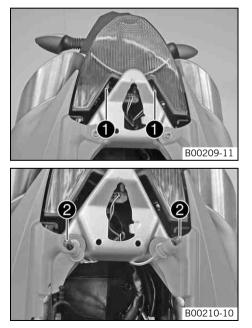
- Insert the bulb socket into the tail light and turn clockwise until it stops.
- Check that the brake light system is functioning properly.

Changing the tail light bulbs (Super Duke)

Note

Damage to reflector Reduced luminance.

 Grease on the lamp will evaporate due to the heat and be deposited on the reflector. Clean the lamp and keep it free of grease before mounting.



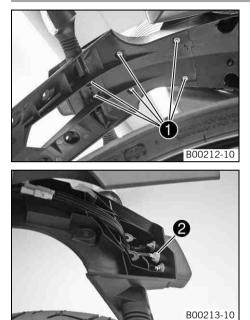
- Pull bulb holders carefully out of the bracket.

- Remove bulb 2.
- Position a new light bulb in the holder.

Tail light (WR5W/socket W2.1x9.5d) (* p. 173)

- Carefully position the holders with the bulbs into the holder in the tail light.
- Check that the tail light bulbs are functioning properly.

Changing the license plate lamp



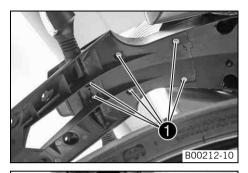
(Super Duke)

- Remove screws 1.

- Pull holder **2** carefully out of the bracket.
- Remove the bulb.
- Position a new light bulb in the holder.

License plate lamp (W5W/socket W2.1x9.5d) (* p. 173)

- Carefully position the holder with the bulb into the bracket.

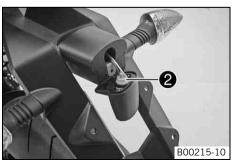


- Position the license plate holder.
- Mount and tighten screws **①**.

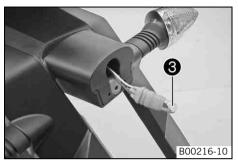
Remove screw **①**.

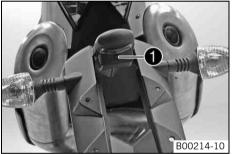
(Super Duke R)





- Carefully pull holder 2 out of the license plate lamp.





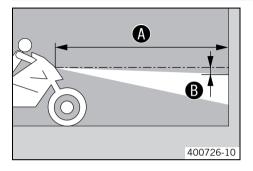
- Remove bulb ³.
- Position a new light bulb in the holder.

License plate lamp (W5W/socket W2.1x9.5d) (p. 173)

- Carefully position the holder with the bulb in the license plate lamp.

- Mount and tighten screw **①**.
- Check that the license plate lamp is functioning properly.

Checking the headlight setting



- Park the vehicle on a horizontal surface in front of a light-colored wall and make a mark at the level of the center of the headlight.
- Make another mark at a distance of **B** under the first mark.

Guideline

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

 Park the vehicle at a distance of vertically in front of the wall and switch on the low beam headlight.

Guideline

Distance **(A**)

5 m (16 ft)

- The rider, with luggage and passenger if applicable, now mounts the motorcycle.
- Check the headlight setting.

The light-dark boundary must lie exactly on the lower mark when the motorcycle is ready to operate with the rider mounted along with any luggage and a passenger if applicable.

- » If the boundary between light and dark does not meet specifications:

Adjusting headlight range



- Turn screw **1** to adjust the headlight range.

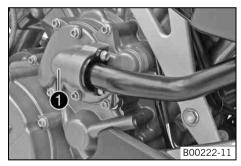
Guideline

For a motorcycle with rider, and with luggage and a passenger if applicable, the light/dark boundary must be exactly on the lower mark (applied in: Checking headlight adjustment).

Info

Turn clockwise to increase the light range, turn counterclockwise to reduce the light range.

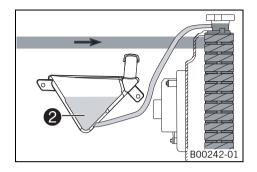
Cooling system



The water pump \bullet in the engine forces the coolant to flow. The pressure in the cooling system resulting from heat is regulated by a value

The pressure in the cooling system resulting from heat is regulated by a valve in the radiator cap. This permits the specified coolant temperature without causing any malfunctions.

125 °C (257 °F)



Cooling takes place by means of the air stream and a radiator fan, which is controlled by a thermoswitch.

The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect.

The heat expansion causes the surplus coolant to flow into the compensating tank ②. When the temperature falls, this surplus coolant is sucked back into the cooling system.

Checking the antifreeze and coolant level



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

– Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

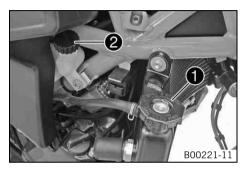
Danger of poisoning Coolant is poisonous and a health hazard.

 Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.

Condition

The engine is cold.

- Stand the motorcycle upright on a horizontal surface.



Info

- Remove the right side only.
- Remove radiator cap **1** and plug **2** from the compensating tank.
- Check the coolant antifreeze.

-25... -45 °C (-13... -49 °F)

- » If the coolant antifreeze does not meet specifications:
 - Correct the coolant antifreeze.
- Check the coolant level in the compensating tank.

The coolant level must be between min and max.

- » If the coolant level in the compensating tank does not meet specifications, but the tank is not empty:
 - Add coolant to the upper marking.

Alternative 1

Coolant (* p. 184)

Alternative 2

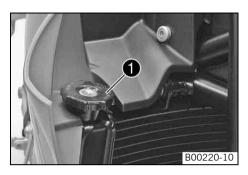
Coolant (mixed ready to use) (p. 184)

- » If there is no coolant in the compensating tank:
 - Check the cooling system for leaks.

Info

Do not start up the motorcycle!

- − Fill/bleed the cooling system. ◄ (♥ p. 136)
- Mount cap **2** of the compensating tank.



- Check the coolant level in the radiator.

The radiator must be completely filled.

- » If the coolant level does not meet specifications:
 - Correct the coolant level and determine the reason for the coolant loss.

Alternative 1

Coolant (* p. 184)

Alternative 2

Coolant (mixed ready to use) (* p. 184)

- » If more coolant needed to be added than the specified value:
 - > 0.50 l (> 0.53 qt.)
 - Fill/bleed the cooling system. ◀ (☞ p. 136)
- Mount radiator cap 1.
- Install the spoiler. (* p. 107)

Checking the coolant level in the compensating tank

Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

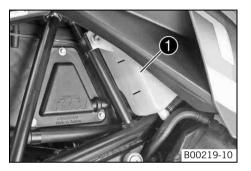
 Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact
a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately.
Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



Condition

The engine is cold. The radiator is completely full.

- Stand the motorcycle on a horizontal surface.
- Check the coolant level in the compensating tank **①**. _

The coolant level must be between **min** and **max**.

- If the coolant level in the compensating tank does not meet specifications, but the » tank is not empty:
 - Remove the spoiler. (p. 106)



Info

Remove the right side only.

- Remove the compensating tank cap.
- Add coolant to the max marking.

Alternative 1

Coolant (, 184)

Alternative 2

Coolant (mixed ready to use) (p. 184)

- Mount the cap of the compensating tank.
- Install the spoiler. (p. 107)
- If there is no coolant in the compensating tank: »
 - Check the cooling system for leaks. 🔌

Info

Do not start up the motorcycle!

- Fill/bleed the cooling system. ◀ (♥ p. 136)

Draining the coolant 🔧



Warning

Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

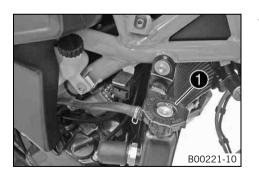
Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine
and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



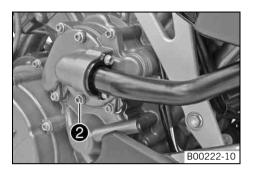
Warning

Danger of poisoning Coolant is poisonous and a health hazard.

 Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



Remove radiator cap ①.



- Place a suitable container under the engine.
- Remove screw 2.
- Tilt the vehicle slightly to the right.
- Completely drain the coolant.
- Mount screw **2** with a new seal ring and tighten it.

Guideline

Screw, water pump cover	M6	10 Nm (7.4 lbf ft)
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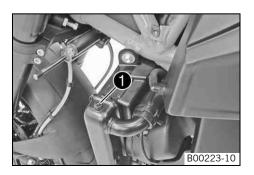
Filling/bleeding the cooling system 🔌



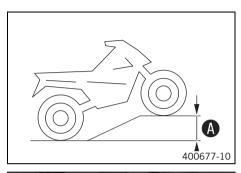
Warning

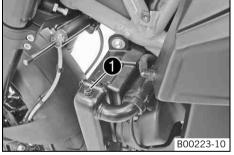
Danger of poisoning Coolant is poisonous and a health hazard.

 Avoid contact between coolant and skin, eyes and clothing. If it gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If coolant is swallowed, contact a doctor immediately. Change clothes that have come into contact with coolants. Keep coolant out of the reach of children.



- Ensure that the drain plug on the water pump cover is tightened.
- Remove bleeder screw ①.





Position the vehicle as shown and secure it against rolling. Height difference
 must be reached.

Guideline

Height difference 🚯	50 cm (19.7 in)
---------------------	-----------------

Info

To make sure that all of the air can escape from the cooling system, raise the front of the vehicle. A poorly bled cooling system is less effective at cooling and the engine can overheat.

- Remove the radiator cap and pour in coolant until it emerges without bubbles at the vent hole, and then immediately mount and tighten the bleeder screw **①**.

Guideline

Remaining chassis screws	M6	10 Nm (7.4 lbf ft)
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Alternative 1

Coolant (* p. 184)

Alternative 2

Coolant (mixed ready to use) (* p. 184)

- Fill the radiator completely with coolant. Mount the radiator cap.
- Lean the vehicle on the side stand.
- Check the coolant level in the compensating tank. (* p. 133)



Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and run it until it reaches operating temperature.
 - ✓ Six bars of the temperature display light up.
- Stop the engine and allow it to cool down.
- When the engine is cool, check the coolant level in the radiator and add coolant if necessary.
- Check the coolant level in the compensating tank. (* p. 133)
- Install the spoiler. (* p. 107)

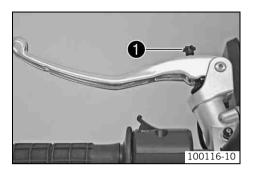
Adjusting the basic position of the clutch lever

Info

Turn the adjusting screw clockwise to increase the distance between the clutch lever and the handlebar. Turn the adjusting screw counterclockwise to decrease the distance between the clutch lever and the handlebar. The range of adjustment is limited.

Turn the adjusting screw by hand only, and do not apply any force.

Do not make any adjustments while riding!



Adjust the basic setting of the clutch lever to your hand size by turning adjusting screw 1.

Checking/correcting the fluid level of the hydraulic clutch

Info

The fluid level rises with increasing wear of the clutch lining disc. Do not use brake fluid.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Check the fluid level.

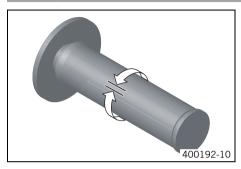
The fluid level must be between the MIN and MAX markings.

- » If the coolant level does not meet specifications:
 - Remove the screw cap with the membrane.
 - Correct the fluid level of the hydraulic clutch.

Hydraulic fluid (15) (* p. 186)

- Mount the screw with the membrane.

Checking the play in the throttle cable



- Move the handlebar to the straight-ahead position. Move the throttle grip backwards and forwards to ascertain the play in the throttle cable.

Play in throttle cable 3 5 mm (0.12 0.2 in)

- » If the throttle cable play does not meet specifications:
 - Adjust the play in the throttle cable.

 (* p. 141)

Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

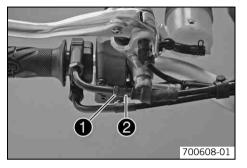
- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

- If the idle speed changes:
 - Adjust the play in the throttle cable.

 (* p. 141)

Adjusting the play in the throttle cable 🔺



- Move the handlebar to the straight-ahead position.
- Use the KTM diagnostics tool to set the throttle stepper motor to the basic position.
- Loosen counter nut **1**.
- Set the play in the throttle cable by turning adjusting screw 2.
 Guideline

Play in throttle cable	3 5 mm (0.12 0.2 in)
------------------------	----------------------

− Tighten counter nut ●.

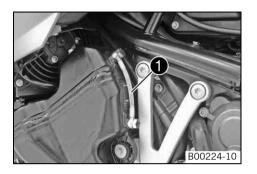
Checking the engine oil level



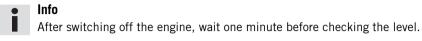
Danger

Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and run it until it reaches operating temperature.
 - ✓ Six bars of the temperature display light up.



- Switch off the engine.
- Park the motorcycle on a horizontal surface in a vertical position (not on the side stand).

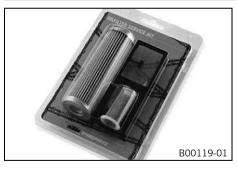


- Check the engine oil level at oil rising pipe **①**.

The engine oil level must be between the **min** and **max** markings.

- » If the engine oil level is not at the specified level:
 - Add engine oil. (* p. 149)

Changing the engine oil and filter, cleaning the oil screens \boldsymbol{k}



- Drain the engine oil and filter, clean the oil screens. ◄ (♥ p. 143)
- − Fill up with engine oil. ◀ (♥ p. 147)

Draining the engine oil and filter, cleaning the oil screens \boldsymbol{A}

Warning

Danger of scalding Engine oil and gear oil get very hot when the motorcycle is ridden.

- Wear appropriate protective clothing and safety gloves. In case of burns, rinse immediately with lukewarm water.



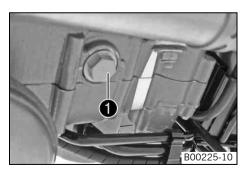
Warning

Environmental hazard Hazardous substances cause environmental damage.

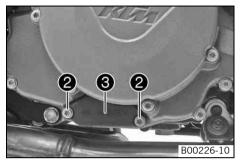
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

Info

Drain the engine oil only when the engine is warm.



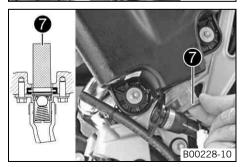
- Remove the front spoiler. (* p. 101)
- Place a suitable container under the engine.
- Remove the oil drain plug **1** with the magnet and seal ring.
- Fully drain the engine oil out of the engine.



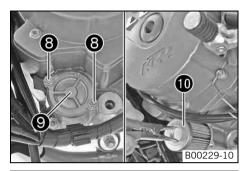
6 6 800227-10

- Remove screws 2 and cover 3.
- Pull oil screen out of the engine case with pliers.

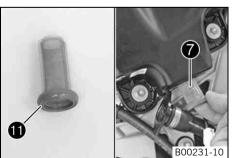
- Place a suitable container under the engine.
- Remove oil drain plug 4.
- Fully drain the engine oil out of the oil tank.
- Remove screws **③** and move oil line **③** to one side.



Pull oil sieve **o** out of the oil tank.







- Remove screws **3**. Take off oil filter cover **9** with the O-ring.

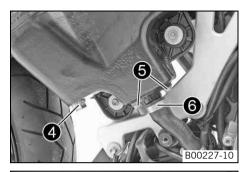
Circlip pliers reverse (51012011000)

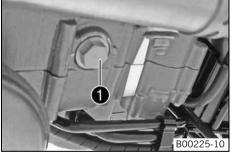
- Completely drain the engine oil.
- Clean all oil screens and oil drain plugs with a magnet.
- Clean all sealing surfaces.
- Insert the new oil filter.
- Lubricate the O-ring of the oil filter cover.
- Mount oil filter cover

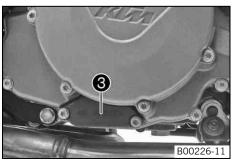
 Mount and tighten the screws.
 Guideline

Remaining engine screws	M5	6 Nm (4.4 lbf ft)
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- Insert oil sieve I into the oil tank.







- Position oil line **③**. Mount and tighten screws **⑤**.

Guideline

	Remaining engine screws	M6	10 Nm (7.4 lbf ft)
-	Mount oil drain plug ④ with the magnet and new seal and tighten.		
	Guideline		

aaaaa		
Oil drain plug with magnet	M12x1.5	25 Nm (18.4 lbf ft)
		(10.4 101 10)

Mount oil drain plug • with the magnet and new seal ring and tighten.
 Guideline

Oil drain plug with magnet	M22x1.5	35 Nm (25.8 lbf ft)	
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- Slide oil sieve into the engine case with the **TOP** marking facing up.
- Check the form ring in cover ⁽³⁾ for damage and correct seating.
- Position the cover. Mount and tighten the screws. Guideline

Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
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– Install the front spoiler. (* p. 101)

146

Filling up with engine oil 🔌

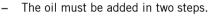
lnfo

Too little engine oil or poor-quality engine oil results in premature wear to the engine.

– Remove the spoiler. (• p. 106)

• Info Remove the right side only.

The cil must be added in two ster



Engine oil 3.0 I (3.2 qt.)	External temperature: ≥ 0 °C (≥ 32 °F)	Engine oil (SAE 10W/50) (• p. 185)
	External temperature: < 0 °C (< 32 °F)	Engine oil (SAE 5W/40) (& p. 185)

– Remove screw plug ${\color{black} \bullet}$ and add engine oil.

Engine oil (1st quantity), approx.	2.50 I (2.64 qt.)	External temperature: ≥ 0 °C (≥ 32 °F)	Engine oil (SAE 10W/50) (• p. 185)
		External temperature: < 0 °C (< 32 °F)	Engine oil (SAE 5W/40) (• p. 185)

- Mount the plug.





Danger

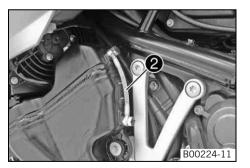
Danger of poisoning Exhaust gases are poisonous and inhaling them may result in unconsciousness and/or death.

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and run it until it reaches operating temperature.
 - ✓ Six bars of the temperature display light up.
- Check the lubrication system for leaks.
- Switch off the engine.
- Park the motorcycle on a horizontal surface in a vertical position (not on the side stand).
- Remove the plug.
- Add engine oil to the **max** marking of oil rising pipe **2**.

Engine oil (2nd 0.50 l (0.53 quantity), approx.	0.50 l (0.53 qt.)	External temperature: ≥ 0 °C (≥ 32 °F)	Engine oil (SAE 10W/50) (• p. 185)
		External temperature: < 0 °C (< 32 °F)	Engine oil (SAE 5W/40) (& p. 185)

Mount the plug.

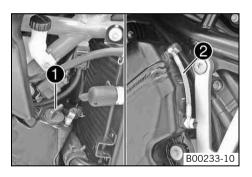
– Install the spoiler. (* p. 107)



Adding engine oil

lnfo

Too little engine oil or poor-quality engine oil results in premature wear to the engine. The engine oil level must be corrected when the engine is warm.



- Info Remove the right side only.
- Remove screw plug ①.
- Add engine oil to the max marking of oil rising pipe ②.

Condition

External temperature: \geq 0 °C (\geq 32 °F)

Engine oil (SAE 10W/50) (* p. 185)

Condition

External temperature: < 0 °C (< 32 °F)

Engine oil (SAE 5W/40) (* p. 185)

Info

For optimal performance of the engine oil, do not mix different types of engine oil.

We recommend changing the engine oil, if necessary.

- Mount the plug.
- Install the spoiler. (* p. 107)

Blink code FI of warning lamp (MIL)	FI
	02 Warning lamp FI (MIL) flashes 2x short
Error level condition	Circuit ignition pulse generator - circuit fault
Blink code FI of warning lamp (MIL)	F
	06 Warning lamp FI (MIL) flashes 6x short
Error level condition	Throttle valve sensor circuit A - input signal too low
	Throttle valve sensor circuit A - input signal too high
Blink code FI of warning lamp (MIL)	F
	07 Warning lamp FI (MIL) flashes 7x short
Error level condition	Throttle position sensor circuit B - input signal too low
	Throttle position sensor circuit B - input signal too high
Blink code FI of warning lamp (MIL)	F
	09 Warning lamp FI (MIL) flashes 9x short
Error level condition	Manifold absolute pressure sensor cylinder 1 - input signal too low
	Manifold absolute pressure sensor cylinder 1 - input signal too high
Blink code FI of warning lamp (MIL)	F
	11 Warning lamp FI (MIL) flashes 1x long, 1x short
Error level condition	Manifold absolute pressure sensor cylinder 2 - input signal too low
	Manifold absolute pressure sensor cylinder 2 - input signal too high

Blink code FI of warning lamp (MIL)	(FI)
	12 Warning lamp FI (MIL) flashes 1x long, 2x short
Error level condition	Coolant temperature sensor - input signal too low
	Coolant temperature sensor - input signal too high
Blink code FI of warning lamp (MIL)	F
	13 Warning lamp FI (MIL) flashes 1x long, 3x short
Error level condition	Intake air temperature sensor - input signal too low
	Intake air temperature sensor - input signal too high
Blink code FI of warning lamp (MIL)	F
	14 Warning lamp FI (MIL) flashes 1x long, 4x short
Error level condition	Ambient air pressure sensor - input signal too low
	Ambient air pressure sensor - input signal too high
Blink code FI of warning lamp (MIL)	F
	15 Warning lamp FI (MIL) flashes 1x long, 5x short
Error level condition	Rollover sensor (A/D type) - input signal too low
	Rollover sensor (A/D type) - input signal too high
Blink code FI of warning lamp (MIL)	F
	17 Warning lamp FI (MIL) flashes 1x long, 7x short
Error level condition	Lambda sensor cylinder 1, sensor 1 - circuit fault

Blink code FI of warning lamp (MIL)	FI
	18 Warning lamp FI (MIL) flashes 1x long, 8x short
Error level condition	Lambda sensor cylinder 2, sensor 1 - circuit fault
Blink code FI of warning lamp (MIL)	FI
	24 Warning lamp FI (MIL) flashes 2x long, 4x short
Error level condition	Power supply - circuit fault
Blink code FI of warning lamp (MIL)	F
	25 Warning lamp FI (MIL) flashes 2x long, 5x short
Error level condition	Side stand (A/D type) - malfunction in circuit
Blink code FI of warning lamp (MIL)	F
	33 Warning lamp FI (MIL) flashes 3x long, 3x short
Error level condition	Injector cylinder 1 - circuit fault
Blink code FI of warning lamp (MIL)	F
	34 Warning lamp FI (MIL) flashes 3x long, 4x short
Error level condition	Injector cylinder 2 - circuit fault

Blink code FI of warning lamp (MIL)	FI
b ()	37 Warning lamp FI (MIL) flashes 3x long, 7x short
Error level condition	Ignition coil cylinder 1 - circuit fault
Blink code FI of warning lamp (MIL)	F
	38 Warning lamp FI (MIL) flashes 3x long, 8x short
Error level condition	Ignition coil cylinder 2 - circuit fault
Blink code FI of warning lamp (MIL)	F
	41 Warning lamp FI (MIL) flashes 4x long, 1x short
Error level condition	Fuel pump control - interruption/short circuit to ground
	Fuel pump control - input signal too high
Blink code FI of warning lamp (MIL)	F
	45 FI Warning lamp (MIL) flashes 4x long, 5x short
Error level condition	Heating lambda sensor cylinder 1, sensor 1 - interruption/short circuit to ground
	Heating lambda sensor cylinder 1, sensor 1 - input signal too high
Blink code FI of warning lamp (MIL)	F
	46 Warning lamp FI (MIL) flashes 4x long, 6x short
Error level condition	Heating lambda sensor cylinder 2, sensor 1 - interruption/short circuit to ground
	Heating lambda sensor cylinder 2, sensor 1 - input signal too high

Blink code FI of warning lamp (MIL)	(FI)
	49 Warning lamp FI (MIL) flashes 4x long, 9x short
Error level condition	Motor drive circuit A - circuit fault
Blink code FI of warning lamp (MIL)	F
	50 Warning lamp FI (MIL) flashes 5x long
Error level condition	Motor drive circuit B - circuit fault
Blink code FI of warning lamp (MIL)	FI
	54 Warning lamp FI (MIL) flashes 5x long, 4x short
Error level condition	Secondary air valve - interruption/short circuit to ground
	Secondary air valve - input signal too high
Blink code FI of warning lamp (MIL)	F
	68 Warning lamp FI (MIL) flashes 6x long, 8x short
Error level condition	Manifold absolute pressure sensor cylinder 1 - connection leaks
Blink code FI of warning lamp (MIL)	F
	69 Warning lamp FI (MIL) flashes 6x long, 9x short
Error level condition	Manifold absolute pressure sensor cylinder 2 - connection leaks

Blink code FI of warning lamp (MIL)	E) 81 Warning lamp FI (MIL) flashes 8x long, 1x short
Error level condition	Immobilizer control unit - circuit fault
Blink code FI of warning lamp (MIL)	91 Warning lamp FI (MIL) flashes 9x long, 1x short
Error level condition	Malfunction in CAN bus communication

TROUBLESHOOTING

Faults	Possible cause	Action
The engine does not turn when the	Operating error	 Carry out the start procedure. (
electric starter button is pressed	Battery discharged	– Recharge the battery. 🔌 (🕶 p. 111)
		 Check the closed current.
	Fuse 1, 5 blown	 Change the fuses of individual power consumers. (* p. 115)
	Main fuse burned out	– Change the main fuse. (* p. 113)
	Ignition/steering lock or emergency	 Check the emergency OFF switch.
	OFF switch defective	 Check the ignition/steering lock.
	Defect in safety start system	 Check the safety start system.
	Malfunction in CAN bus communica- tion	 Check the CAN bus communication.
	Combination instrument defective	 Check the combination instrument.
	Control unit for electric start lock defective	 Check the control unit of the electric start lock.
Engine turns only if the clutch lever is	The vehicle is in gear	 Shift the transmission to neutral.
drawn	Defect in safety start system	 Check the safety start system.
Engine turns although a gear is engaged	Defect in safety start system	 Check the safety start system.
Engine turns but does not start	Coupling of fuel hose connection not connected	 Reconnect coupling of fuel hose connection.
	Socket connector of cable harness oxi- dized	 Clean the socket connector and treat it with con- tact spray.
	Defect in fuel injection system	 Read out the fault memory using the KTM diag- nostics tool.
Engine has too little power	Air filter very dirty	– Change the air filter. 🔌

TROUBLESHOOTING

Faults	Possible cause	Action	
Engine has too little power	Defect in fuel injection system	 Read out the fault memory using the KTM diag- nostics tool. 	
Engine overheats	Too little coolant in cooling system	– Check the cooling system for leaks. 🔌	
		 Check the antifreeze and coolant level. (* p. 131) 	
	Radiator fins very dirty	– Clean radiator fins.	
	Foam formation in cooling system	– Drain the coolant. 🔌 (🕶 p. 135)	
		– Fill/bleed the cooling system. 🔌 (🕶 p. 136)	
	Buckled or damaged radiator hose	– Change the radiator hose. 🔌	
	Fuse 4 blown	 Change the fuses of individual power consumers. (* p. 115) 	
	Thermostat defective	- Check the thermostat. 🔧	
	Defect in radiator fan system	– Check the radiator fan system. 🔧	
	Air in cooling system	– Fill/bleed the cooling system. 🔌 (🕶 p. 136)	
Warning lamp FI (MIL) lights up/flashes	Defect in fuel injection system	 Read out the fault memory using the KTM diag- nostics tool. 	
Engine dies during a trip	Lack of fuel	– Fill up with fuel. (* p. 55)	
	Fuse 1, 5 blown	 Change the fuses of individual power consumers. (* p. 115) 	
High oil consumption	Engine oil level too high	- Check the engine oil level. (* p. 141)	
	Engine oil too thin (low viscosity)	 Change the engine oil and filter, clean the oil screens. ▲ (♥ p. 142) 	
Headlight and parking light are not functioning	Fuse 2 blown	 Change the fuses of individual power consumers. (* p. 115) 	

TROUBLESHOOTING

Faults	Possible cause	Action
Turn signal, brake light and horn are not functional	Fuse 3 blown	 Change the fuses of individual power consumers. (p. 115)
Battery discharged	Ignition not switched off when vehicle was parked	- Recharge the battery. 🛁 (🕶 p. 111)
	Battery is not charged by the alternator	 Check the charging voltage.
Combination instrument shows nothing in the display	Fuse 6 blown	 Change the fuses of individual power consumers. (* p. 115)
Speedometer in combination instru- ment not functioning	Wiring harness of wheel revolution counter damaged or plug-in connec- tor oxidized	 Check the wheel speed sensor.

CLEANING

Cleaning motorcycle

Note

Material damage Damage and destruction of components by high-pressure cleaning equipment.

Never clean the vehicle with high-pressure cleaning equipment or a strong water-jet. The excessive pressure can penetrate electrical
components, socket connects, throttle cables, and bearings, etc., and can damage or destroy these parts.



Warning

Environmental hazard Hazardous substances cause environmental damage.

- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.

lnfo

If you clean the motorcycle regularly, its value and appearance will be maintained over a long period. Avoid direct sunshine on the motorcycle during cleaning.

- Close off the exhaust system to keep water from entering.
- Remove coarse dirt particles with a gentle spray of water.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a paintbrush.

Motorcycle cleaner (* p. 189)

• Info

Clean the vehicle using warm water containing normal motorcycle cleaner and a soft sponge. If the vehicle was operated in road salt, clean it with cold water. Warm water would enhance the corrosive effects of salt.

- After the motorcycle has been thoroughly cleaned with a gentle jet of water, it should be dried with compressed air and a cloth.

CLEANING



Warning

Danger of accidents Reduced braking efficiency due to wet or dirty brakes.

- Clean or dry dirty or wet brakes by riding and braking gently.
- After cleaning, ride the vehicle a short distance until the engine warms up, applying the brakes occasionally.



Info

The heat produced causes water at inaccessible positions in the engine and on the brakes to evaporate.

- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (🕶 p. 76)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Cleaning and preserving materials for metal, rubber and plastic (p. 188)

- Treat all painted parts with a mild paint polish.

High-luster polish for paint (* p. 188)

– Oil the ignition/steering lock, tank lock, and seat lock.

Universal oil spray (* p. 189)

PROTECTIVE TREATMENT FOR WINTER OPERATION

Conserving for winter operation

Info

If you use the motorcycle in winter, you must expect salt on the roads. You should therefore take precautions against aggressive road salt.

If the vehicle was operated in road salt, clean it with cold water. Warm water would enhance the corrosive effects of salt.

- Clean the motorcycle. (* p. 159)
- Treat the engine, the swingarm, and all other bare or galvanized parts (except brake discs) with a wax-based anti-corrosion substance.

• Info

To prevent serious reduction of the braking efficiency, make sure no anti-corrosion substance gets on to the brake discs. After use on salted roads, clean the motorcycle thoroughly with cold water and dry it properly.

– Clean the chain. (* p. 76)

STORAGE

Storage

Info

If you want to garage the motorcycle for a longer period, take the following actions. Before storing the motorcycle, check all parts for function and wear. If service, repairs or replacements are necessary, you should do this during the storage period (less workshop overload). In this way, you can avoid long workshop waiting times at the start of the new season.

- Make sure the fuel tanks are as empty as possible so that you can fill up with fresh fuel when you put the motorcycle back into operation.
- Clean the motorcycle. (* p. 159)
- Change the engine oil and filter, clean the oil screens.

 (* p. 142)
- Check the antifreeze and coolant level. (* p. 131)
- Remove the battery.

 (* p. 109)
- Recharge the battery. 🔧 (🕶 p. 111)

Guideline

Storage temperature of battery without direct sunshine	0 35 °C (32 95 °F)
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- The storage place should be dry and not subject to large temperature differences.

Info

KTM recommends jacking up the motorcycle.

- Cover the motorcycle with a tarp or cover that is permeable to air.

STORAGE

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Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion. Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and exhaust system to rust.

Putting into operation after storage

- Take the front from the work stand. (
 p. 60)
- − Recharge the battery. ◀ (♥ p. 111)
- − Install the battery. ◄ (◄ p. 110)
- Fill up with fuel. (* p. 55)
- Carry out checks before putting into operation. (* p. 46)
- Take a test ride.

TECHNICAL DATA - ENGINE

Design	2-cylinder 4-stroke Otto motor, 75° V arrangement, water-cooled
Displacement	999 cm³ (60.96 cu in)
Stroke	62.4 mm (2.457 in)
Bore	101 mm (3.98 in)
Compression ratio (Super Duke)	11.5:1
Compression ratio (Super Duke R)	12.2:1
Control	DOHC, 4 valves per cylinder, chain-driven
Valve - diameter (Super Duke)	
Exhaust	33 mm (1.3 in)
Intake	38 mm (1.5 in)
Valve - diameter (Super Duke R)	
Exhaust	33 mm (1.3 in)
Intake	41 mm (1.61 in)
Valve clearance	
Exhaust at: 20 °C (68 °F)	0.25 0.30 mm (0.0098 0.0118 in)
Intake at: 20 °C (68 °F)	0.10 0.15 mm (0.0039 0.0059 in)
Crankshaft bearing	Sleeve bearing
Conrod bearing	Sleeve bearing
Piston	Forged light alloy
Piston ring	1 L-ring, 1 tapered compression piston ring, 1 oil scraper ring
Engine lubrication	Dry sump lubrication system with two rotor pumps
Primary transmission	35:67
Clutch	Multidisc clutch in oil bath/hydraulically activated
Transmission	6-gears, claw-shifted
Transmission ratio	

TECHNICAL DATA - ENGINE

1st gear	14:36	
2nd gear	16:30	
3rd gear	20:30	
4th gear	21:27	
5th gear	23:26	
6th gear	25:26	
Mixture preparation	Electronic fuel injection	
Ignition system	Contactless controlled fully electronic ignition with digital ignition adjustment	
Alternator	12 V, 450 W	
Spark plug (Super Duke)	NGK KR8DI	
Spark plug (Super Duke R)	NGK LKAR8AI-9	
Spark plug electrode gap	0.8 mm (0.031 in)	
Cooling	Water cooling, permanent circulation of coolant by water pump	
Idle speed	1,400 1,500 rpm	
Cold start device	Electric starter	

Capacity- engine oil

Engine oil	3.0 I (3.2 qt.)	External temperature: ≥ 0 °C (≥ 32 °F)	Engine oil (SAE 10W/50) (• p. 185)
		External temperature: < 0 °C (< 32 °F)	Engine oil (SAE 5W/40) (🕈 p. 185)

TECHNICAL DATA - ENGINE

Capacity - coolant

Coolant	2.10 I (2.22 qt.)	Coolant (* p. 184)	
		Coolant (mixed ready to use) (* p. 184)	

Hose clip, intake flange	M4	1.5 Nm (1.11 lbf ft)	-
Oil jet	M4	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Remaining engine screws	M5	6 Nm (4.4 lbf ft)	-
Screw, bearing retainer	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, connecting angle on valve cover	M5	3 Nm (2.2 lbf ft)	Loctite [®] 243™
Screw, gear sensor	M5	3 Nm (2.2 lbf ft)	Loctite [®] 243™
Screw, locking lever	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Nut, cylinder head	M6	8 Nm (5.9 lbf ft)	-
Plug, vacuum connection	M6	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Remaining engine screws	M6	10 Nm (7.4 lbf ft)	-
Screw in alternator cover	M6	10 Nm (7.4 lbf ft)	-
Screw, bearing bolt in alternator cover	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, camshaft bearing support	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch cover	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch spring	M6	10 Nm (7.4 lbf ft)	-
Screw, engine case	M6	10 Nm (7.4 lbf ft)	-
Screw, freewheel holder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, freewheel ring	M6	13 Nm (9.6 lbf ft)	Loctite [®] 648™
Screw, oil pump housing	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, pulse generator	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, starter motor	M6	10 Nm (7.4 lbf ft)	-
Screw, stator	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™

Screw, valve cover	M6	10 Nm (7.4 lbf ft)	-
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)	-
Screw, water pump wheel	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Stud, cylinder head in cylinder	M6		Loctite [®] 243™
Stud, cylinder head in engine case	M6	10 Nm (7.4 lbf ft)	-
Vacuum connection	M6	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Oil jet	M6x0.75	4 Nm (3 lbf ft)	Loctite [®] 243™
Bearing bolt, timing chain guide rail	M8	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Bearing bolt, timing chain tensioning rail	M8	20 Nm (14.8 lbf ft)	Loctite [®] 243™
Screw, camshaft bearing support	M8	Step 1 10 Nm (7.4 lbf ft) Step 2 18 Nm (13.3 lbf ft)	_
Screw, clutch cover	M8	15 Nm (11.1 lbf ft)	-
Screw, cylinder head	M8	Step 1 18 Nm (13.3 lbf ft) Step 2 23 Nm (17 lbf ft)	Loctite [®] 243™
Stud, exhaust flange	M8	15 Nm (11.1 lbf ft)	-
Bearing bolt, timing gears	M10	30 Nm (22.1 lbf ft)	-
Nut, cylinder head (exterior)	M10	Step 1 23 Nm (17 lbf ft) Step 2	Only applies when using: Box wrench attachment 13mm (60029081000)
		34 Nm (25.1 lbf ft)	Lubricated with engine oil

Nut, cylinder head on chain shaft	M10	Step 1 25 Nm (18.4 lbf ft) Step 2 38 Nm (28 lbf ft)	Lubricated with engine oil
Plug, clutch lubrication	M10	15 Nm (11.1 lbf ft)	-
Stud, cylinder head in engine case	M10	20 Nm (14.8 lbf ft)	-
Oil pressure sensor	M10x1	10 Nm (7.4 lbf ft)	-
Screw, conrod bearing	M10x1	Step 1 25 Nm (18.4 lbf ft) Step 2 30 Nm (22.1 lbf ft) Step 3 60°	_
Coolant temperature sensor	M12x1.5	12 Nm (8.9 lbf ft)	-
Plus, cylinder head (2nd cylinder)	M12x1.5	25 Nm (18.4 lbf ft)	-
Spark plug	M12x1.5	12 Nm (8.9 lbf ft)	-
Plug, oil filter housing	M14x1.5	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Bleeder flange, alternator cover	M16x1.5	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Plug, timing-chain tensioner	M16x1.5	20 Nm (14.8 lbf ft)	-
Rotor screw	M16x1.5	150 Nm (110.6 lbf ft)	Loctite [®] 243™
Nut, balancer shaft	M20x1.5	120 Nm (88.5 lbf ft)	Loctite [®] 243™
Nut, engine sprocket	M20x1.5	100 Nm (73.8 lbf ft)	Loctite [®] 243™
Screw-in fitting, cooling system	M20x1.5	10 Nm (7.4 lbf ft)	Loctite [®] 577
Nut, inner clutch hub	M22x1.5	130 Nm (95.9 lbf ft)	Loctite [®] 243™
Oil drain plug with magnet	M22x1.5	35 Nm (25.8 lbf ft)	-
Screw in alternator cover	M24x1.5	8 Nm (5.9 lbf ft)	-

Nut, primary gear	M33LHx1.5	130 Nm (95.9 lbf ft)	Loctite [®] 243™
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Frame	Lattice frame made of chrome molybdenum steel tubing, powder- coated
Fork	WP Suspension Up Side Down 4860 ROMA PA
Shock absorber	WP Suspension 4618 BAVP DCC
Suspension travel (Super Duke)	
Front	135 mm (5.31 in)
Rear	160 mm (6.3 in)
Suspension travel (Super Duke R)	
Front	135 mm (5.31 in)
Rear	150 mm (5.91 in)
Brake system	
Front	Double disc brake with radially screwed four-piston brake calipers, float-mounted brake discs
Rear	Single disc brake with dual-piston brake caliper, rigid-mounted brake disc
Brake discs - diameter	
Front	320 mm (12.6 in)
Rear	240 mm (9.45 in)
Brake discs - wear limit	
Front	4 mm (0.16 in)
Brake disc - wear limit	
Rear	4.5 mm (0.177 in)
Tire air pressure, solo	
Front	2.4 bar (35 psi)
Rear	2.4 bar (35 psi)

Tire air pressure with passenger/full payload		
Front	2.4 bar (35 psi)	
Rear	2.6 bar (38 psi)	
Secondary drive ratio	16:38	
Chain	5/8 x 5/16" X-ring	
Steering head angle (Super Duke)	66.1°	
Steering head angle (Super Duke R)	67.3°	
Wheelbase	1,450 _{±10} mm (57.09 _{±0.39} in)	
Seat height, unloaded (Super Duke)	850 mm (33.46 in)	
Seat height, unloaded (Super Duke R)	860 875 mm (33.86 34.45 in)	
Ground clearance, unloaded (Super Duke)	140 mm (5.51 in)	
Ground clearance, unloaded (Super Duke R)	150 mm (5.91 in)	
Weight without fuel, approx.	186 kg (410 lb.)	
Maximum permissible front axle load	180 kg (397 lb.)	
Maximum permissible rear axle load	250 kg (551 lb.)	
Maximum permissible total weight	387 kg (853 lb.)	

Battery	YTZ14S	Battery voltage: 12 V Nominal capacity: 11.2 Ah maintenance-free
Fuse	75011088010	10 A
Fuse	75011088015	15 A
Fuse	58011109130	30 A

Lighting equipment

Low beam	H7/socket PX26d	12 V
		55 W
High beam	H3/socket PX22s	12 V
		55 W
Parking light	W5W/socket W2.1x9.5d	12 V
		5 W
Instrument lights and indicator lamps	LED	· · ·
Turn signal	RY10W/socket BAU15s	12 V
		10 W
Tail light (Super Duke)	WR5W/socket W2.1x9.5d	12 V
		5 W
Tail light (Super Duke R)	LED	· · ·
Brake light (Super Duke)	PR21W/socket BAW15s	12 V
		21 W
Brake light (Super Duke R)	LED	·
License plate lamp	W5W/socket W2.1x9.5d	12 V
		5 W

Tires

Validity	Front tire	Rear tire
(Super Duke)	120/70 ZR 17 M/C 58W TL Pirelli DIABLO CORSA III	180/55 ZR 17 M/C 73W TL Pirelli DIABLO CORSA III
(Super Duke R)	120/70 ZR 17 M/C 58W TL Pirelli DRAGON SUPERCORSA PRO	180/55 ZR 17 M/C 73W TL Pirelli DRAGON SUPERCORSA PRO
Additional information is available in the Service section under: http://www.ktm.com		

Capacity - fuel

Total fuel tank capacity, approx.	18.5 (4.89 US gal)	Super unleaded (ROZ 95 / RON 95 / PON 91) (* p. 187)
Fuel reserve, approx.		3.5 l (3.7 qt.)

TECHNICAL DATA - FORK

Super Duke

Fork part number	14.18.7E.13
Fork	WP Suspension Up Side Down 4860 ROMA PA
Compression damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Rebound damping	
Comfort	20 clicks
Standard	15 clicks
Sport	10 clicks
Full payload	10 clicks
Spring preload - Preload Adjuster	
Comfort	5 turns
Standard	5 turns
Sport	5 turns
Full payload	5 turns
Spring length with preload spacer(s)	353 mm (13.9 in)
Spring rate	
Soft	9 N/mm (51 lb/in)
Medium (standard)	9.5 N/mm (54.2 lb/in)
Hard	10 N/mm (57 lb/in)
Fork length	757 mm (29.8 in)

TECHNICAL DATA - FORK

Air chamber length		110±10 mm (4.33±0.39 in)
Fork oil per fork leg	567 ml (19.17 fl. oz.)	Fork oil (SAE 5) (🕶 p. 186)

Super Duke R	
Fork part number	14.18.7J.31
Fork	WP Suspension Up Side Down 4860 ROMA PA
Compression damping	
Comfort	23 clicks
Standard	18 clicks
Sport	13 clicks
Rebound damping	
Comfort	12 clicks
Standard	10 clicks
Sport	8 clicks
Spring preload - Preload Adjuster	
Comfort	5 turns
Standard	5 turns
Sport	5 turns
Spring length with preload spacer(s)	352 mm (13.86 in)
Spring rate	
Soft	9 N/mm (51 lb/in)
Medium (standard)	9.5 N/mm (54.2 lb/in)
Hard	10 N/mm (57 lb/in)
Fork length	757 mm (29.8 in)

TECHNICAL DATA - FORK

	Air chamber length		100±20 mm (3.94±0.79 in)
[Fork oil per fork leg	527 ml (17.82 fl. oz.)	Fork oil (SAE 5) (* p. 186)

TECHNICAL DATA - SHOCK ABSORBER

Super Duke

Shock absorber part number	15.18.7E.01
Shock absorber	WP Suspension 4618 BAVP DCC
Compression damping, low-speed	<u>.</u>
Comfort	25 clicks
Standard	20 clicks
Sport	10 clicks
Full payload	10 clicks
Compression damping, high-speed	· · · · · · · · · · · · · · · · · · ·
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Full payload	1 turn
Rebound damping	· · · · · · · · · · · · · · · · · · ·
Comfort	20 clicks
Standard	12 clicks
Sport	8 clicks
Full payload	8 clicks
Spring preload	· · · · · · · · · · · · · · · · · · ·
Comfort	6 mm (0.24 in)
Standard	6 mm (0.24 in)
Sport	6 mm (0.24 in)
Full payload	6 mm (0.24 in)
Spring rate	

TECHNICAL DATA - SHOCK ABSORBER

Soft	160 N/mm (914 lb/in)
Medium (standard)	170 N/mm (971 lb/in)
Hard	180 N/mm (1,028 lb/in)
Spring length	185 mm (7.28 in)
Gas pressure	10 bar (145 psi)
Static sag	20 25 mm (0.79 0.98 in)
Fitted length	387 mm (15.24 in)
Shock absorber fluid	Shock absorber oil (SAE 2,5) (50180342S1) (, 186)

Super Duke R

Shock absorber part number	15.18.7J.05
Shock absorber	WP Suspension 4618 BAVP DCC
Compression damping, low-speed	
Comfort	25 clicks
Standard	20 clicks
Sport	15 clicks
Compression damping, high-speed	
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Rebound damping	
Comfort	12 clicks
Standard	10 clicks
Sport	8 clicks

TECHNICAL DATA - SHOCK ABSORBER

Spring preload	
Comfort	6 mm (0.24 in)
Standard	6 mm (0.24 in)
Sport	6 mm (0.24 in)
Spring rate	
Soft	160 N/mm (914 lb/in)
Medium (standard)	170 N/mm (971 lb/in)
Hard	180 N/mm (1,028 lb/in)
Spring length	185 mm (7.28 in)
Gas pressure	10 bar (145 psi)
Static sag	17 mm (0.67 in)
Fitted length	392 mm (15.43 in)
Shock absorber fluid	Shock absorber oil (SAE 2,5) (50180342S1) (* p. 186)

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, side stand switch	M4	2 Nm (1.5 lbf ft)	Loctite [®] 243™
Remaining chassis screws	M5	5 Nm (3.7 lbf ft)	-
Screw, chain sliding guard	M5	5 Nm (3.7 lbf ft)	-
Screw, fuel level indicator	M5	3 Nm (2.2 lbf ft)	-
Screw, fuel tank cover	M5	5 Nm (3.7 lbf ft)	-
Screw, seat bracket on fuel tank (Super Duke)	M5	4 Nm (3 lbf ft)	-
Nut, tail light (Super Duke)	M6	8 Nm (5.9 lbf ft)	-
Remaining chassis nuts	M6	15 Nm (11.1 lbf ft)	-
Remaining chassis screws	M6	10 Nm (7.4 lbf ft)	-
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, front spoiler	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, fuel pump	M6	6 Nm (4.4 lbf ft)	-
Screw, fuel tank holder	M6	6 Nm (4.4 lbf ft)	-
Screw, heel protector	M6	2 Nm (1.5 lbf ft)	Loctite [®] 243™
Screw, push rod ball joint on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift rod	M6	12 Nm (8.9 lbf ft)	Loctite [®] 243™
Screw, shift shaft deflector on shift shaft	M6	18 Nm (13.3 lbf ft)	Loctite [®] 243™
Screw, splash protector, rear wheel	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, spoiler	M6	6 Nm (4.4 lbf ft)	-
Screw, steering damper pipe clamp (Super Duke R)	M6	4 Nm (3 lbf ft)	Loctite [®] 243™

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Remaining chassis nuts	M8	30 Nm (22.1 lbf ft)	-
Remaining chassis screws	M8	25 Nm (18.4 lbf ft)	-
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	-
Screw, exhaust clamp on main silencer	M8	35 Nm (25.8 lbf ft)	-
Screw, exhaust clamp on manifold	M8	8 Nm (5.9 lbf ft)	-
Screw, foot brake lever	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	-
Screw, front brake disc	M8	30 Nm (22.1 lbf ft)	Loctite [®] 243™
Screw, front footrest bracket	M8	25 Nm (18.4 lbf ft)	-
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	-
Screw, ignition lock (ratchet screw)	M8		Loctite [®] 243™
Screw, lower subframe	M8	25 Nm (18.4 lbf ft)	-
Screw, rear brake disc	M8	30 Nm (22.1 lbf ft)	Loctite [®] 243™
Screw, rear footrest bracket (Super Duke)	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, shift shaft relay lever	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, spring holder on side stand bracket	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, steering damper clamp (Super Duke R)	M8	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, steering damper on clamp (Super Duke R)	M8	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, steering damper pipe clamp (Super Duke R)	M8	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	-

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Screw, top triple clamp	M8	12 Nm (8.9 lbf ft)	-
Screw, upper subframe	M8	25 Nm (18.4 lbf ft)	-
Engine carrying screw	M10	45 Nm (33.2 lbf ft)	-
Remaining chassis nuts	M10	50 Nm (36.9 lbf ft)	-
Remaining frame bolts	M10	45 Nm (33.2 lbf ft)	-
Screw, fuel tank holder	M10	15 Nm (11.1 lbf ft)	-
Screw, handlebar support (Super Duke)	M10	20 Nm (14.8 lbf ft)	-
Screw, handlebar support (Super Duke R)	M10	45 Nm (33.2 lbf ft)	-
Screw, side stand	M10	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Screw, side stand bracket	M10	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Screw, side stand holder	M10	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Rear sprocket bolt	M10x1.25	50 Nm (36.9 lbf ft)	Loctite [®] 243™
Screw, front brake caliper	M10x1.25	45 Nm (33.2 lbf ft)	Loctite [®] 243™
Oil drain plug with magnet	M12x1.5	25 Nm (18.4 lbf ft)	-
Screw, bottom shock absorber	M14x1.5	80 Nm (59 lbf ft)	Thread greased
Screw, top shock absorber	M14x1.5	80 Nm (59 lbf ft)	Thread greased
Lambda sensor	M18x1.5	45 Nm (33.2 lbf ft)	-
Nut, seat lock	M19x1	8 Nm (5.9 lbf ft)	-
Nut, swingarm pivot	M19x1.5	130 Nm (95.9 lbf ft)	Thread greased
Screw, steering head	M20x1.5	12 Nm (8.9 lbf ft)	-
Bolt, front axle	M25x1.5	45 Nm (33.2 lbf ft)	-
Nut, rear wheel spindle	M25x1.5	90 Nm (66.4 lbf ft)	Thread greased

Brake fluid DOT 4 / DOT 5.1

According to

– DOT

Guideline

Use only brake fluid that complies with the specified standard (see specifications on the container) and that possesses the corresponding properties. KTM recommends Castrol and Motorex[®] products.

Supplier

Castrol

- RESPONSE BRAKE FLUID SUPER DOT 4

Motorex®

- Brake Fluid DOT 5.1

Coolant

Guideline

Use only suitable coolant (also in countries with high temperatures). Use of low-quality antifreeze can lead to corrosion and foaming.
 KTM recommends Motorex[®] products.

Mixture ratio

Antifreeze protection: -2545 °C (-13	50 % corrosion inhibitor/antifreeze
-49 °F)	50 % distilled water

Coolant (mixed ready to use)

Antifreeze -40 °C (-40 °F)

Supplier

Motorex[®]

Anti Freeze

Engine oil (SAE 10W/50)

According to

- JASO T903 MA (🕶 p. 190)
- SAE (🕶 p. 190) (SAE 10W/50)

Guideline

Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding
properties. KTM recommends Motorex[®] products.

Fully synthetic engine oil

Supplier

Motorex®

Power Synt 4T

Engine oil (SAE 5W/40)

According to

- JASO T903 MA (* p. 190)
- SAE (* p. 190) (SAE 5W/40)

Guideline

Use only engine oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties. KTM recommends Motorex[®] products.

Synthetic engine oil

Supplier Motorex®

Power Synt 4T

Fork oil (SAE 5)

According to

– SAE (* p. 190) (SAE 5)

Guideline

 Use only oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties. KTM recommends Motorex[®] products.

Supplier

Motorex®

Racing Fork Oil

Hydraulic fluid (15)

According to

ISO VG (15)

Guideline

Use only hydraulic oil that complies with the specified standard (see specifications on the container) and that possesses the corresponding properties. KTM recommends Motorex[®] products.

Supplier

Motorex®

– Hydraulic Fluid 75

Shock absorber oil (SAE 2,5) (50180342S1)

According to

– SAE (🕶 p. 190) (SAE 2,5)

Guideline

 Use only oils that comply with the specified standards (see specifications on the container) and that possess the corresponding properties.

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

According to

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

AUXILIARY SUBSTANCES

Chain cleaner

Guideline

- KTM recommends **Motorex**[®] products.

Supplier

Motorex®

- Chain Clean 611

Chain lube for road use

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex®

- Chain Lube 622 Strong

Cleaning and preserving materials for metal, rubber and plastic

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex®

Protect & Shine 645

High-luster polish for paint

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex®

Moto Polish

AUXILIARY SUBSTANCES

Long-life grease

Guideline

- KTM recommends **Motorex[®]** products.

Supplier

Motorex®

- Fett 2000

Motorcycle cleaner

Guideline

- KTM recommends **Motorex®** products.

Supplier

Motorex®

- Moto Clean 900

Universal oil spray

Guideline

- KTM recommends **Motorex**[®] products.

Supplier

Motorex®

Joker 440 Universal

STANDARDS

JASO T903 MA

Different technical development directions required a new specification for 4-stroke motorcycles – the JASO T903 MA Standard. Earlier, engine oils from the automobile industry were used for 4-stroke motorcycles because there was no separate motorcycle specification. Whereas long service intervals are demanded for automobile engines, high performance at high engine speeds are in the foreground for motorcycle engines. With most motorcycles, the gearbox and the clutch are lubricated with the same oil as the engine. The JASO MA Standard meets these special requirements.

SAE

The SAE viscosity classes were defined by the Society of Automotive Engineers and are used for classifying oils according to their viscosity. The viscosity describes only one property of oil and says nothing about quality.

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