OWNER'S MANUAL 2021



65 SX

Art. no. 3214205en





Congratulations on your decision to purchase a KTM motorcycle. You are now the owner of a state-of-the-art sports vehicle that will continue to give you and your child pleasure for a long time if you maintain it properly.

We hope your child has many safe and enjoyable rides!

Enter the serial numbers of your vehicle below.

Dealer's stamp

The Owner's Manual contained the latest information for this model series at the time of going to print. However, minor differences due to further developments in design cannot be ruled out completely.

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KTM Sportmotorcycle GmbH Stallhofnerstraße 3 5230 Mattighofen, Austria

This document is valid for the following models: 65 SX (F6001U6)



3214205en

05/2020

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1.1 Symbols used

The meaning of specific symbols is described below. Indicates an expected reaction (e.g., of a work step or a function). \checkmark Indicates an unexpected reaction (e.g., of a work step or a function). Х All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of the safety of your child, have these jobs performed in an authorized KTM workshop. Your motorcycle will be optimally cared for there by specially trained experts using the special tools required. Indicates a page reference (more information is provided on the specified page). Indicates information with more details or tips. Indicates the result of a testing step. **》** Indicates the end of an activity, including potential reworking. Indicates a voltage measurement. V Indicates a current measurement. Α 1.2 **Formats used**

The typographical formats used in this document are explained below.

Proprietary name Indicates a proprietary name.	
Name®	Indicates a protected name.
Brand™	Indicates a brand available on the open market.
Underlined terms	Refer to technical details of the vehicle or indicate technical terms, which are explained in the glossary.

2.1 Use definition – intended use

This vehicle has been designed and built to withstand the normal stresses and strains of racing. This vehicle complies with the currently valid regulations and categories of the top international motorsports organizations.

•	Info

Only operate this vehicle in closed-off areas remote from public road traffic.

2.2 Misuse

The vehicle must only be used as intended.

Dangers can arise for people, property and the environment through use not as intended.

Any use of the vehicle beyond the intended and defined use constitutes misuse.

Misuse also includes the use of operating and auxiliary fluids which do not meet the required specification for the respective use.

2.3 Safety advice

A number of safety instructions need to be followed to operate the product described safely. Therefore read this instruction and all further instructions included carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.

• Info

Various information and warning labels are attached in prominent locations on the product described. Do not remove any information or warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.4 Degrees of risk and symbols

Danger

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



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.



Note

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

2.5 Tampering warning

Tampering with the noise control system is prohibited. Federal law prohibits the following acts or the causing thereof:

- 1 The removal or rendering inoperative by any person other than for purposes of servicing, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use, or
- 2 the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

- 1 Removal or puncturing of the main silencers, baffles, header pipes or any other components which conduct exhaust gases.
- 2 Removal or puncturing of parts of the intake system.
- 3 Lack of proper maintenance.
- 4 Replacing moving parts of the vehicle, or parts of the exhaust system or intake system, with parts other than those specified by the manufacturer.

2.6 Safe operation

Danger

Danger of accidents A rider who is not fit to ride poses a danger to him or herself and others.

- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.

Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.

Warning

Danger of burns Some vehicle components become very hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Only operate the vehicle when it is in perfect technical condition, in accordance with its intended use, and in a safe and environmentally compatible manner.

The vehicle should only be used by trained persons.

Have malfunctions that impair safety promptly eliminated by an authorized KTM workshop.

Adhere to the information and warning labels on the vehicle.

2.7 Protective clothing

Warning

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

- Ensure your child wears appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Alway use protective clothing for your child that is in good condition and meets the legal requirements.
- When you ride a motorcycle, set an example for your child and wear suitable protective clothing.

In the interest of your own safety, KTM recommends that you only operate the vehicle while wearing suitable protective clothing.

2.8 Work rules

Unless specified otherwise, the ignition must be turned off during all work (models with ignition lock, models with remote key) or the engine must be at a standstill (models without ignition lock or remote key).

Special tools are necessary for certain tasks. The tools are not a component of the vehicle, but can be ordered using the number in parentheses. Example: bearing puller (15112017000)

During assembly, use new parts to replace parts which cannot be reused (e.g. self-locking screws and nuts, expansion screws, seals, sealing rings, O-rings, pins, and lock washers).

In the case of certain screws, a screw adhesive (e.g. **Loctite**[®]) is required. Observe the manufacturer's instructions.

If thread locker (e.g., **Precote**[®]) has already been applied to a new part, do not apply any additional thread locker. After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts.

After completing a repair or service work, check the operating safety of the vehicle.

2.9 Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the motorcycle sport, make sure that you use your motorcycle legally, display environmental consciousness, and respect the rights of others.

When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

Because motorcycles are not subject to the EU regulations governing the disposal of used vehicles, there are no legal regulations that pertain to the disposal of an end-of-life motorcycle. Your authorized KTM dealer will be glad to advise you.

2.10 Owner's Manual

It is important that you read this Owner's Manual carefully and completely before your child makes his or her first trip. The Owner's Manual contains useful information and many tips for you and your child on how to operate, handle, and service your motorcycle. This is the only way for you to find out how to ideally tune the vehicle and how to protect your child from injury.

Keep the Owner's Manual in an accessible place to enable you to refer to it as needed.

If you would like to know more about the vehicle or have questions on the material you read, please contact an authorized KTM dealer.

The Owner's Manual is an important component of the vehicle and must be handed over to the new owner if the vehicle is sold.

The Owner's Manual is also available for download from your authorized KTM dealer and on the KTM website. International KTM Website: http://www.ktm.com

3.1 Manufacturer warranty, implied warranty

The work prescribed in the service schedule must only be carried out in an authorized KTM workshop and confirmed in the **KTM Dealer.net**, as otherwise all warranty claims will be void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the manufacturer warranty.

3.2 Fuel, auxiliary substances

2 Note

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

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

Use fuels and auxiliary substances in accordance with the Owner's Manual and specification.

3.3 Spare parts, accessories

For your own safety, only use spare parts and accessory products that are 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 or loss.

Certain spare parts and accessory products are specified in parentheses in the descriptions. Your authorized KTM dealer will be glad to advise you.

The current **KTM PowerParts** for your vehicle can be found on the KTM website. International KTM Website: http://www.ktm.com

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the Owner's Manual. An incorrect suspension setting can lead to damage and breakage of chassis components.

Use of the vehicle under difficult conditions, such as on sand or on wet and muddy surfaces, can result in significantly increased wear of components, such as the drive train, brake system, or suspension components. For this reason, it may be necessary to inspect or replace parts before the next scheduled service.

It is imperative that you adhere to the stipulated run-in times and service intervals. If you observe these exactly, you will ensure a much longer service life for your motorcycle.

The relevant mileage or time interval is whichever occurs first.

3.5 Figures

The figures contained in the manual may depict special equipment.

In the interest of clarity, some components may be shown disassembled or may not be shown at all. It is not always necessary to disassemble the component to perform the activity in question. Please follow the instructions in the text.

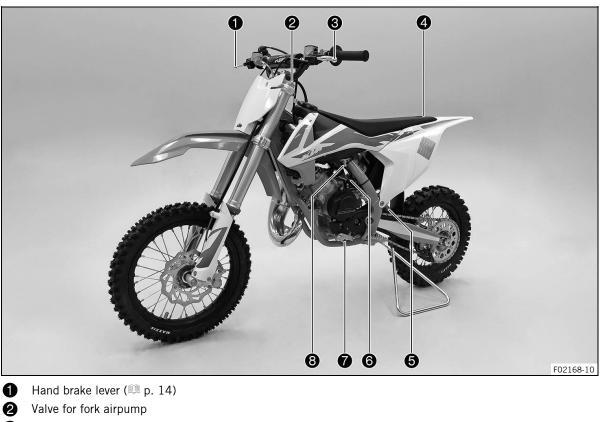
3.6 Customer service

Your authorized KTM dealer will be happy to answer any questions you may have on your vehicle and KTM.

A list of authorized KTM dealers can be found on the KTM website. International KTM Website: http://www.ktm.com

4 VIEW OF VEHICLE

4.1 View of vehicle, front left (example)



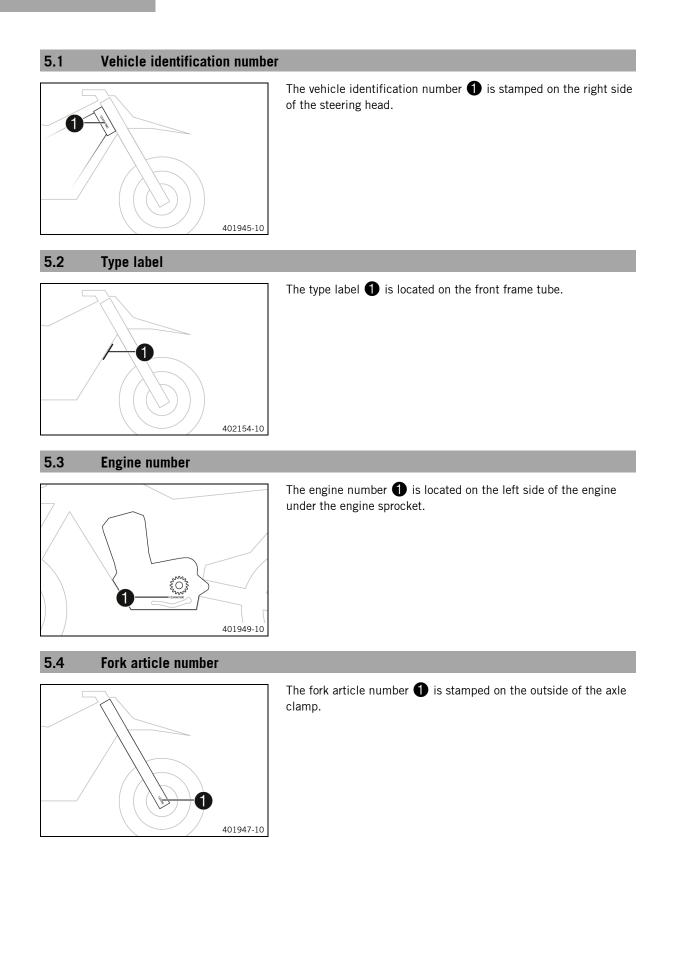
- 3 Clutch lever (p. 14)
- 4 Quick release for seat lock
- **5** Shock absorber rebound adjustment
- 6 Choke (🕮 p. 16)
- **7** Shift lever (III p. 16)
- 8 Fuel tap (🕮 p. 16)

4.2 View of vehicle, rear right (example)

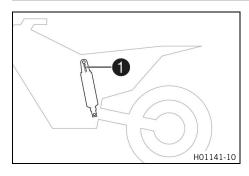


- **1** Fuel tank filler cap
- Switch-off button (p. 14)
- Fork rebound adjustment
- 4 Throttle grip (🕮 p. 14)
- **5** Vehicle identification number () p. 12)
- 6 Kick starter lever (p. 17)
- Foot brake lever (🕮 p. 17)
- 8 Shock absorber compression adjustment
- (9) Level viewer for brake fluid, rear

5 SERIAL NUMBERS



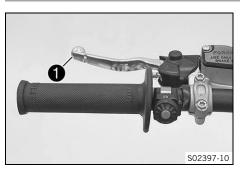
5.5 Shock absorber article number



The shock absorber article number **1** is stamped on the top of the shock absorber above the adjusting ring towards the left-hand side.

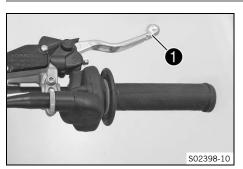
6 CONTROLS

6.1 Clutch lever



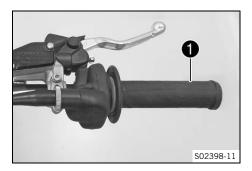
The clutch lever **1** is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

6.2 Hand brake lever



Hand brake lever **①** is fitted on the right side of the handlebar. The hand brake lever is used to activate the front brake.

6.3 Throttle grip



Throttle grip **①** is fitted on the right side of the handlebar.

6.4 Switch-off button



Possible states

• The switch-off button ⊠ is in the basic position – In this position, the ignition circuit is closed and the engine can be started.

Switch-off button 1 is fitted on the left side of the handlebar.

The switch-off button \boxtimes is pressed – In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.

6.5 Opening the fuel tank filler cap

Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Note

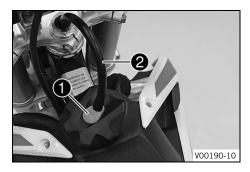
Environmental hazard Improper handling of fuel is a danger to the environment.

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

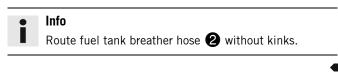


Press release button ①, turn the fuel tank filler cap counterclockwise, and lift it off.

6.6 Closing the fuel tank filler cap



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



6 CONTROLS

6.7 Fuel tap



Fuel tap ① is on the left of the fuel tank.

Possible states

- Fuel tap is closed The knurled screw is turned all the way clockwise. Fuel cannot flow out of the fuel tank.
- Fuel tap is open The knurled screw is turned all the way counterclockwise. Fuel can flow out of the fuel tank.





Choke lever ① is fitted on the left side of the carburetor. Activating the choke function frees a drill hole in the carburetor through which the engine can draw extra fuel. This results in a richer fuel-air mixture, which is needed for a cold start.

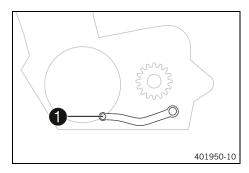


If the engine is warm, the choke function must be deactivated.

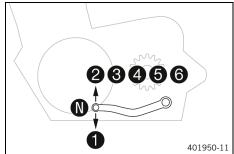
Possible states

- Choke function activated The choke lever is pushed down all the way to the stop.
- Choke function deactivated The choke lever is pushed up all the way to the stop.

6.9 Shift lever

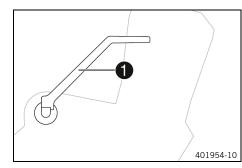


Shift lever **1** is mounted on the left of the engine.



The gear positions can be seen in the figure. The neutral or idle position 0 is between the first and second gear.

6.10 Kick starter lever

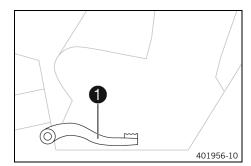


Kick starter lever **1** is fitted on the right side of the engine. The kick starter lever can be swiveled.

Info

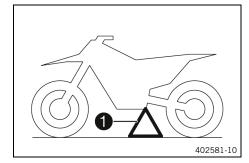
Before riding, swing the kick starter lever inwards towards the engine.

6.11 Foot brake lever



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

6.12 Plug-in stand



The fixture for plug-in stand **1** is located on the frame on the left side of the vehicle.

The plug-in stand is used to park the motorcycle.

• Info

Remove the plug-in stand before riding.

6.13 Service hour counter



The service hour counter (1) is fitted on the right side of the frame.

It shows the total number of service hours of the engine. The service hour counter begins counting when the engine is started and stops when the engine is switched off.

Info

The value indicated by the service hour counter cannot be cleared or adjusted.

7.1 Advice on preparing for first use

Warning

Danger of accidents A lack of physical and mental readiness on the part of the child poses a major risk. Children often underestimate or fail to recognize dangerous situations.

- Your child must already be able to ride a bicycle.
- Your child must be able to put the vehicle upright independently after a fall.
- Your child must understand that regulations and instructions from you or from other guardians must be followed.
- Make it clear to your child that he or she should not, under any circumstances, operate the vehicle without supervision.
- Make it clear to your child that he or she may only drive at speeds commensurate with the child's riding abilities and the road conditions.
- Do not ask too much of your child.
 Do not consider participation in competitive activities until your child's stamina, riding techniques and motivation are at the necessary levels.
- Only let your child ride on the vehicle if he or she is physically and mentally ready.

Warning

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

- Ensure your child wears appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Alway use protective clothing for your child that is in good condition and meets the legal requirements.
- When you ride a motorcycle, set an example for your child and wear suitable protective clothing.

Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic.

Different tire tread patterns can make the vehicle significantly more difficult to control.

Make sure that only tires with a similar tire tread pattern are fitted to the front and rear wheel.



Warning

Danger of accidents An unadapted riding style constitutes a major risk.

- Ensure that your child adapts the riding speed to the road conditions and to his or her riding abilities.



Warning

Danger of accidents The vehicle is not designed to carry passengers.

- Do not ride with a passenger.



Warning

Danger of accidents The brake system fails in the event of overheating.

If the foot brake lever is not released, the brake linings drag continuously.

 Ensure that your child raises his or her foot from the foot brake lever if he or she does not want to brake.



Warning

Danger of accidents The suspension components will become damaged or destroyed if overloaded.

- Do not exceed the maximum permissible weight of the rider.

Warning

Risk of misappropriation People who act without authorization endanger themselves and others.

- Do not leave the vehicle unattended if the engine is running.
- Protect the vehicle against access by unauthorized persons.

Info

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

- Make sure that the pre-sales inspection work has been carried out by an authorized KTM workshop.
 - ✓ You will receive a delivery certificate when the vehicle is handed over.
- Carefully read the entire Owner's Manual together with your child before going for the first ride.



- Pay particular attention to the safety instructions and risks of injury. Explain to your child the techniques of riding and falling, e.g. how shifting weight can influence handling characteristics.
- Familiarize your child with the controls.
- Adjust the basic position of the clutch lever. (
 p. 61)
- Adjust the basic position of the hand brake lever. (IP p. 65)
- Adjust the basic position of the foot brake lever. 🔌 (💷 p. 72)
- Before using the vehicle for the first time, ensure that the basic settings of the chassis are suitable for the weight of your child.
- Allow your child to become accustomed to the handling of the motorcycle on suitable terrain, preferably on a large, open meadow.

Info

To give your child a feeling for the brake system, you should push your child at first. Do not start the engine until your child is able to apply the necessary front brake pressure.

- Initially, let your child ride to another person who can help your child stop and turn.
- Erect obstacles for your child to navigate around to accustom your child to handling the vehicle.
- Your child should also try to ride as slowly as possible and in a standing position to get a better feeling for the motorcycle.
- Do not let your child ride on terrain that exceeds your child's capabilities and experience.
- Your child should hold the handlebar firmly with both hands and keep his or her feet on the footrests when riding.
- Make sure the maximum permissible weight of the rider is not exceeded.

Guideline

Maximum rider weight	50 kg (110 lb.)

Check the spoke tension. (
 p. 84)



The spoke tension must be checked after half an hour of operation.

– Run the engine in. (🕮 p. 20)

7.2 Running in the engine

- During the running-in phase, do not exceed the specified engine performance.

Guideline

Maximum engine performance	
During the first 3 operating hours	< 70 %
During the first 5 operating hours	< 100 %

•

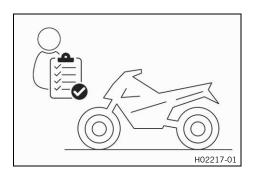
- Avoid fully opening the throttle!

8.1 Checks and maintenance measures when preparing for use

• Info

Before every trip, check the condition of the vehicle and ensure that it is safe to operate. The vehicle must be in perfect technical condition when it is being operated.

_



- Check the gear oil level. (📖 p. 94)
- Check the front brake fluid level. (🕮 p. 66)

- Check the rear brake linings. (I p. 75)
- Check that the brake system is functioning properly.
- Check the coolant level. (E p. 86)
- Check the chain for dirt. (
 p. 55)
- Check the chain, rear sprocket, engine sprocket, and chain guide. (
 p. 57)
- Check the chain tension. (📖 p. 56)
- Check the tire condition. (
 p. 82)
- Check tire pressure. (🕮 p. 83)
- Check the spoke tension. (💷 p. 84)

Info

The spoke tension must be checked regularly as incorrect spoke tension will strongly impair riding safety.

- Clean the dust boots of the fork legs. (I p. 39)
- Bleed the fork legs. (I p. 38)
- Check the air filter.
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check all screws, nuts, and hose clamps regularly for tightness.
- Check the fuel level.

8.2 Starting the vehicle

1 Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death. - Always make sure there is sufficient ventilation when running the engine.

Use effective exhaust extraction when starting or running the engine in an enclosed space.

Note

Engine damage High revving speed with a cold engine negatively impacts the lifespan of the engine.

- Always run the engine warm at a low speed.

e Info

If the motorcycle is unwilling to start, the cause can be old fuel in the float chamber. The flammable elements of the fuel evaporate after a long time of standing.

If the float chamber is filled with fresh fuel, the engine starts immediately.

The motorcycle has been out of use for more than 1 week

- Empty the carburetor float chamber. 🔌 (📖 p. 92)
- Turn the knurled screw on the fuel tap all the way counterclockwise.
 - ✓ Fuel can flow from the fuel tank to the carburetor.
- Remove the motorcycle from the stand.
- Shift the transmission into neutral.

The engine is cold

- Push down the choke lever all the way to the stop.
- Press the kick starter lever robustly through its full range.

• Info Dor

Do not open the throttle.

8.3 Starting off

• Info

The plug-in stand must be removed prior to riding.

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

8.4 Shifting, riding



Warning

Danger of accidents If you change down at high engine speed, the rear wheel blocks and the engine races.

Make it clear to your child that he or she must not change into a low gear at high engine speed.

• Info

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

First-gear is used for starting off and for steep inclines.

- When conditions allow (incline, road situation, etc.), your child can shift into a higher gear. To do so, release
 the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch lever and
 open the throttle.
- If the choke function was activated, deactivate it after the engine has warmed up.
- 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.
- Your child should always open the throttle only as much as the engine can handle abruptly opening the throttle increases fuel consumption.
- To shift down, apply the brakes and close the throttle at the same time.

- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and either open the throttle or shift again.
- Your child should switch off the engine if prolonged operation at idle speed or while stationary is imminent.
 Guideline

≥ 2 min

- Your child should avoid frequent or extended slipping of the clutch. This heats the engine oil, the engine, and the cooling system.
- Insist that your child ride with a low rpm instead of with a high rpm and a slipping clutch.

8.5	Applying the brakes
-----	---------------------



Warning

Danger of accidents Excessively forceful application of the brakes blocks the wheels.

 Explain to your child that he or she must adapt the braking to the traffic situation and the road conditions.



Warning

Danger of accidents A spongy pressure point on the front or rear brake reduces braking efficiency.

 Check the brake system and do not allow your child to continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Explain to your child that he or she must brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- On sandy, wet, or slippery surfaces, use the rear brake.
- Always finish braking before you go into a bend. Your child should change down to a lower gear appropriate to the road speed.
- Insist that your child take advantage of the braking action of the engine when riding on long downhills. To do
 so, shift back one or two gears, but do not overrev the engine. Your child will need to apply the brakes far less
 often and the brake system will not overheat.

8.6 Stopping, parking



Warning

Risk of misappropriation People who act without authorization endanger themselves and others.

- Do not leave the vehicle unattended if the engine is running.
- Protect the vehicle against access by unauthorized persons.



Warning

Danger of burns Some vehicle components become very hot when the vehicle is operated.

- Do not touch any parts such as the exhaust system, radiator, engine, shock absorber, or brake system before the vehicle parts have cooled down.
- Let the vehicle parts cool down before you perform any work on the vehicle.

Note

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

8 **RIDING INSTRUCTIONS**

Significant damage may be caused if the vehicle rolls away or falls over. The components for parking the vehicle are designed only for the weight of the vehicle.

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

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.
- Apply the brakes on the motorcycle.
- Shift the transmission into neutral.
- − Press and hold the switch-off button ⊗ while the engine is idling until the engine stops.
- Turn the knurled screw on the fuel tap all the way clockwise.
- Park the motorcycle on firm ground.

8.7 Transporting

Note

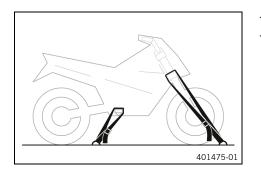
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Note

Fire hazard Hot vehicle components pose a fire hazard and explosion risk.

- Do not park the vehicle near to materials which are highly flammable or explosive.
- Allow the vehicle to cool down before covering it.



- Switch off the engine.
- Use tension belts or other suitable devices to secure the motorcycle against falling over or rolling away.

8.8 Refueling

1 Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

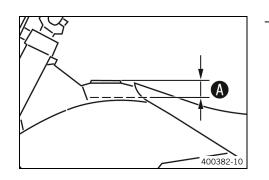
Danger of poisoning Fuel is poisonous and a health hazard.

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

Kote

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

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



_	Switch	off the	engine.
	0		e

- Open the fuel tank filler cap. (📖 p. 15)
 - Fill the fuel tank with fuel up to measurement **(A)**. Guideline

Measurement of A		35 mm (1.38 in)		
Fuel tank capacity, approx.	3.5 (3.7 qt.)	Super unleaded (95 octane) mixed with 2-stroke engine oil (1:60) (© p. 111)	

Engine oil, 2-stroke (🕮 p. 110)

- Close the fuel tank filler cap. (I p. 15)

9.1 Additional information

Any further work that results from the compulsory work or from the recommended work must be ordered separately and invoiced separately.

Different service intervals may apply in your country, depending on the local operating conditions. Individual service intervals and scopes may change in the course of technical developments. The most up-to-date service schedule can always be found on KTM Dealer.net. Your authorized KTM dealer will be happy to advise you.

9.2 Required work

Every Every 40 op	-		-	ours
Every 20 operat		-		
After 10 operating h	-			
Check the front brake linings. (I p. 68)	0	•	•	•
Check the rear brake linings. (🕮 p. 75)	0	٠	•	٠
Check the brake discs. (🕮 p. 65)	0	٠	•	•
Check the brake lines for damage and leakage.	0	٠	•	•
Change the foot brake cylinder sealing cup. 🔧		٠	•	•
Check the rear brake fluid level. (📖 p. 73)	0	•	•	•
Check the free travel of the foot brake lever. (0	٠	•	•
Check the frame. 🔌 📖 p. 60)		٠	•	٠
Check the link fork. 🔌 (🕮 p. 60)		٠	•	٠
Check the fork bearing for play. 🔌		٠	•	•
Checking the shock absorber heim joint for play. 🔌		٠	•	٠
Check the tire condition. (🕮 p. 82)	0	٠	•	•
Check tire pressure. (📖 p. 83)	0	٠	•	٠
Check the wheel bearing for play. 🔦		٠	•	٠
Check the wheel hubs. 🔦		٠	•	٠
Check the rim run-out. 🔦	0	٠	•	٠
Check the spoke tension. (🕮 p. 84)	0	٠	•	٠
Check the chain, rear sprocket, engine sprocket, and chain guide. (🕮 p. 57)	0	٠	•	٠
Check the chain tension. (🕮 p. 56)	0	٠	•	•
Grease all moving parts (e.g., hand lever, chain,) and check for smooth operation. 🔌	0	٠	•	•
Check the fluid level of the hydraulic clutch. (🕮 p. 61)	0	٠	•	٠
Check the front brake fluid level. (🕮 p. 66)	0	٠	•	٠
Check the free travel of the hand brake lever. (💷 p. 65)	0	•	•	٠
Check the steering head bearing play. (🕮 p. 45)	0	٠	•	٠
Change the spark plug and spark plug connector. 🔌		٠	•	•
Change the gear oil. 🔌 📖 p. 94)	0		•	٠
Check the gear oil level. (🕮 p. 94)		٠		
Check the clutch. 🔦		٠	•	•
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing. \blacktriangleleft	0	•	•	•
Check the antifreeze and coolant level. (🕮 p. 85)	0	٠	•	•
Check the cables for damage and routing without sharp bends. \blacktriangleleft	0	•	•	•
Check that the throttle cables are undamaged, routed without sharp bends, and set correctly.	0	٠	•	٠

Every 80 operating hours				
Every 40 operating hours			ours	
Every 20 operati	Every 20 operating hours			I
After 10 operating h	ours			1
Clean the air filter and air filter box. \land 📖 p. 50)	0	٠	•	٠
Change the glass fiber yarn filling of the main silencer. 🔌 (🕮 p. 52)		٠	•	٠
Service the fork. 🔌			•	٠
Perform the shock absorber service. 🔌				٠
Check the tightness of the easily accessible, safety-relevant screws and nuts. $lacksquare$	0	٠	•	٠
Check the idle speed. 🔧	0	٠	•	٠
Final check: Check the vehicle for safe operation and take a test ride. 🔧	0	٠	•	٠
Make a service entry in the KTM Dealer.net. 🔌	0	•	•	٠

 $\circ \quad \text{One-time interval} \\$

• Periodic interval

9.3 Recommended work

	Ev	ery 8	30 op	erati	ng ho	urs
Every 40 operating hours						
After 20 operating hours / Every 2	20 op	erati	ng ho	ours		
After 10 op	oerati	ng h	ours			
every 4	8 moi	nths				
every 12 mo	nths					
Change the front brake fluid. 🔌	•	•				
Change the rear brake fluid. 🔧	•	٠				
Change the hydraulic clutch fluid. 🔌 📖 p. 63)	•	٠				
Lubricate the steering head bearing. 🔧 📖 p. 46)	٠	٠				
Service the fork. 🔺			0			
Perform the shock absorber service. 🔌				0		
Check/adjust the carburetor components. 🔦	•	٠			•	٠
Change the coolant. 🔌 (📖 p. 88)		٠				
Perform minor engine service. Check the cylinder and piston. Check the inlet mem- brane. Check the exhaust control for functioning and smooth operation.)				•	•	٠
Perform major engine service including removing and installing the engine. (Change the spring of the exhaust control. Change the piston. Change the connecting rod, conrod bearing and crank pin. Change the crankshaft bearing. Check the transmission and shift mechanism. Change all engine bearings.)						•

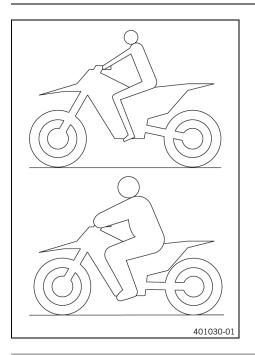
• One-time interval

• Periodic interval

10.1 Checking the basic chassis setting with rider's weight

• Info

When adjusting the basic chassis setting, first adjust the shock absorber and then the fork.



For optimal motorcycle riding characteristics and to avoid
damage to forks, shock absorbers, link fork and frame, the
basic settings of the suspension components must match the
rider's weight.

 In the delivered condition, this vehicle is adjusted for an average rider's weight (with full protective clothing).

Guideline	
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Standard rider weight	35 45 kg (77 99 lb.)

- If the rider's weight is above or below this range, the basic setting of the suspension components must be adjusted accordingly.
- Small weight differences can be compensated by adjusting the spring preload, but in the case of large weight differences, the springs must be replaced.

10.2 Air suspension XACT 5235

Air suspension **WP XACT 5235** is used in the fork.

In this system, suspension is located in the left fork leg and damping in the right fork leg.

As fork springs are no longer required, a significant weight advantage is achieved when compared to conventional forks. The response on slightly uneven surfaces is significantly improved.

In normal driving mode, suspension is provided exclusively by an air cushion. A steel spring is located in the left fork leg as an end stop.

Info

If the fork is frequently overloaded, then the air pressure in the fork must be increased to avoid damage to the fork and frame.

The air pressure in the fork can be quickly adjusted to the rider's weight, surface conditions and the rider's preference using a fork airpump. The fork does not have to be dismantled. The time consuming mounting of harder or softer fork springs is not required.

If the air chamber loses air due to a damaged seal, the fork will still not sag. In this case the air is retained in the fork. The suspension travel is maintained as far as possible. The damping becomes harder and the riding comfort reduces.

The rebound damping can be adjusted.

The rebound adjustment is located at the upper end of the right fork leg.

10.3 Compression damping of the shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed. High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle

speed. The high-speed compression adjuster has an effect, for example, when landing after a jump: the rear wheel sus-

pension compresses quickly.

The low-speed compression adjuster has an effect, for example, when riding over long ground swells: the rear wheel suspension compresses slowly.

These two ranges can be adjusted separately, although the transition between high-speed and low-speed is gradual. Thus, modifications in the high-speed range affect the compression damping in the low-speed range and vice versa.

10.4 Adjusting the low-speed compression damping of the shock absorber

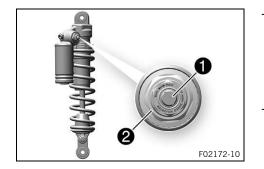
Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized KTM workshop will be glad to help.)

Info

The effect of the low-speed compression adjuster can be seen in slow to normal compression of the shock absorber.



Turn adjusting screw ① clockwise with a screwdriver as far as the last perceptible click.

Info Do not loosen fitting **2**!

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

Guideline

Low-speed compression dampi	ing
Comfort	18 clicks
Standard	15 clicks
Sport	12 clicks

Info

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

10.5 Adjusting the high-speed compression damping of the shock absorber

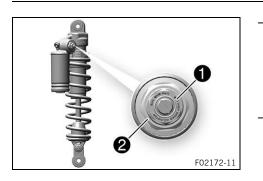
Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized KTM workshop will be glad to help.)

Info

The effect of the high-speed compression adjuster can be seen in fast compression of the shock absorber.



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



- Do not loosen fitting **2**!
- Turn counterclockwise by the number of turns corresponding to the shock absorber type.

Guideline

High-speed compression damp	bing
Comfort	2.5 turns
Standard	2 turns
Sport	1.5 turns

Info

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

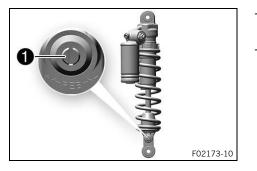
10.6 Adjusting the rebound damping of the shock absorber



Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

Please follow the description provided. (Your authorized KTM workshop will be glad to help.)



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

Guideline

Rebound damping	
Comfort	18 clicks
Standard	15 clicks
Sport	12 clicks

Info

i

Turn clockwise to increase the damping; turn counterclockwise to reduce damping when the shock absorber rebounds.

10.7 Measuring the dimension of the unloaded rear wheel

Preparatory work

- Raise the motorcycle with a lift stand. (I p. 38)

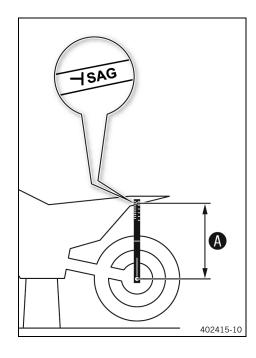
Main work

Position the sag gage in the rear axle and measure the distance to marking SAG on the rear fender.

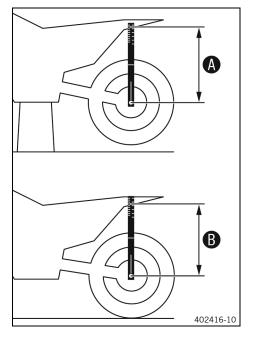
Sag gauge (00029090000) Sag gage pin (00029990010)

- Note the value as dimension **A**.





10.8 Checking the static sag of the shock absorber



- Measure dimension 🚯 of rear wheel unloaded. (🕮 p. 31)
- Hold the motorcycle upright with aid of an assistant.
- Measure the distance again between the rear axle and marking **SAG** on the rear fender using the sag gage.
 - Note the value as dimension $oldsymbol{B}$.

• Info

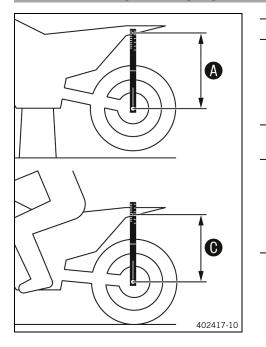
The static sag is the difference between measurements (A) and (B).

- Check the static sag.

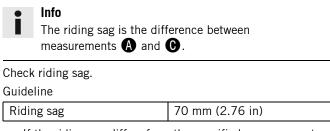
Static sag	30 mm (1.18 in)

- » If the static sag is less or more than the specified value:
 - Adjust the spring preload of the shock absorber.
 (Image p. 33)

10.9 Checking the riding sag of the shock absorber



- Measure dimension 🚯 of rear wheel unloaded. (🕮 p. 31)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal sitting position (feet on footrests) and bounces up and down a few times.
 - ✓ The rear wheel suspension levels out.
- Another person again measures the distance between the rear axle and marking **SAG** on the rear fender using the sag gage.
- Note the value as dimension **O**.



If the riding sag differs from the specified measurement:
 Adjust the riding sag. (19) p. 33)

10.10 Adjusting the spring preload of the shock absorber -

Caution

Risk of injury Parts of the shock absorber will move around if the shock absorber is detached incorrectly. The shock absorber is filled with highly compressed nitrogen.

- Please follow the description provided. (Your authorized KTM workshop will be glad to help.)

Preparatory work

- Raise the motorcycle with a lift stand. (IP p. 38)
- Remove the shock absorber. 🔌 (💷 p. 48)
- After removing the shock absorber, clean it thoroughly.

Main work

- Measure the full spring length while it is under tension and note down the value.
- Loosen retaining ring ①.
- Turn adjusting ring 2 until the spring is no longer under tension.

Combination wrench (50329080000) Hook wrench (T106S)

- Measure the total spring length while the spring is not under tension.
- Tighten the spring by turning adjusting ring 2 to the specified dimension A.

Guideline

Spring preload

Info

The spring preload is the difference between the relaxed spring length and the tensioned spring length. Depending on the static sag and/or the riding sag, it may be necessary to increase or decrease the spring preload.

5 mm (0.2 in)

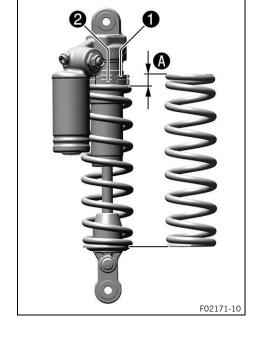
Tighten retaining ring 1.

Finishing work

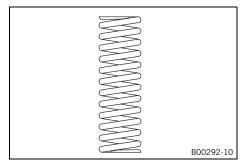
10.11 Adjusting the riding sag 🔧

Preparatory work

- Raise the motorcycle with a lift stand. (E p. 38)
- Remove the shock absorber. A (🕮 p. 48)
- After removing the shock absorber, clean it thoroughly.



10 TUNING THE CHASSIS



Main work

- Choose and mount a suitable spring.

Guideline	

Spring rate	
Weight of rider: 35 kg (77 lb.)	35 N/mm (200 lb/in)
Weight of rider: 40 kg (88 lb.)	40 N/mm (228 lb/in)
Weight of rider: 45 kg (99 lb.)	45 N/mm (257 lb/in)

lnfo

The spring rate is shown on the outside of the spring. Smaller weight differences can be compensated by changing the spring preload.

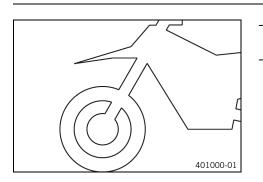
Finishing work

- Install the shock absorber. ◄ (≅ p. 48)
- Check the static sag of the shock absorber. (E) p. 32)
- Check the riding sag of the shock absorber. (E p. 32)
- Adjust the rebound damping of the shock absorber. (I p. 30)

10.12 Checking the basic setting of the fork

• Info

For various reasons, no exact riding sag can be determined for the fork.



- Smaller differences in the rider's weight can be compensated for by the fork air pressure.
- However, if the fork frequently bottoms out (hard end stop on compression), the fork air pressure must be increased, within the specified values, to avoid damage to the fork and frame.

10.13 Adjusting the fork air pressure

Warning

Danger of accidents Modifications to the suspension setting may seriously alter the handling characteristic.

Extreme modifications to the suspension setting may cause a serious deterioration in the handling characteristic and overload components.

- Only make adjustments within the recommended range.
- Make sure your child rides slowly to start with after making adjustments in order that he or she can
 assess the new handling characteristic.

Info

Check or adjust the air pressure under the same conditions at the earliest 5 minutes after switching off the engine.

The air suspension is located in the left fork leg. The rebound damping is located in the right fork leg.

Preparatory work

- Raise the motorcycle with a lift stand. (E p. 38)

Main work

- Remove protection cap ①.
 - Push together fork airpump **2** fully.

Fork airpump (79412966100)

Info

- The fork airpump is included as part of the motorcycle's accessory pack.
- Connect the fork airpump to the left fork leg.
 - ✓ The fork airpump switches on automatically.
 - ✓ A little air escapes from the fork leg when connecting.

Info

- This is due to the volume of the hose and not due to a defect in the fork airpump or the fork. Read the accompanying **KTM PowerParts** instructions.
- Adjust the air pressure as specified.

Guideline

Air pressure	3 bar (44 psi)
Gradual changing of the air pressure in steps of	0.2 bar (3 psi)
Minimum air pressure	1.4 bar (20 psi)
Maximum air pressure	4 bar (58 psi)

Info

Never adjust the air pressure to a value outside the stated range.

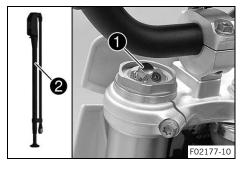
- Disconnect the fork airpump from the left fork leg.
 - ✓ When disconnecting, excess pressure will escape from the hose the fork leg does not lose any air.
 - The fork pump airpump switches off automatically after 80 seconds.
- Mount the protection cap.

Info

Only mount the protection cap by hand.

Finishing work

Remove the motorcycle from the lift stand. (I p. 38)



10.14 Adjusting the rebound damping of the fork

• Info

The hydraulic rebound damping determines the fork suspension behavior.



• Turn adjuster 🚺 clockwise all the way.

lnfo

Adjuster **1** is located at the upper end of the right fork leg.

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

Guideline

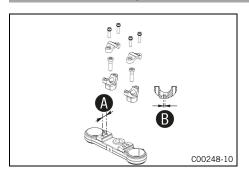
Dobound	domning
Rebound	uaniunie

-	
Comfort	15 clicks
Standard	12 clicks
Sport	10 clicks



Turn clockwise to increase the damping; turn counterclockwise to reduce damping when the shock absorber rebounds.

10.15 Handlebar position



On the upper triple clamp, there are 2 holes at a distance of (\mathbf{A}) to each other.

Hole distance A	15 mm (0.59 in)
-----------------	-----------------

The holes on the handlebar supports are placed at a distance of $\ensuremath{\mathfrak{B}}$ from the center.

Hole distance **B** 3.5 mm (0.138 in)

The handlebar supports can be mounted in four different positions. This allows the handlebar to be mounted in the most comfortable position for the rider.

10.16 Adjusting the handlebar position 🔦

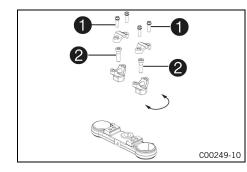


Warning

Danger of accidents A repaired handlebar poses a safety risk.

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

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



 Remove screws ①. Take off the handlebar clamps. Remove the handlebar and lay it to one side.

Info

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

- Remove screws 2. Take off handlebar supports.
- Place handlebar supports in required position. Mount and tighten screws 2.

Guideline

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

- Position the handlebar.



Position the handlebar clamps. Mount screws ① and tighten evenly.

Guideline

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

i

Info

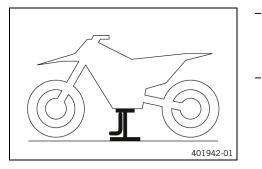
Make sure the installed gaps are even.

11.1 Raising the motorcycle with a lift stand

Note

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

– Park the vehicle on a firm and level surface.



- Raise the motorcycle at the frame underneath the engine.

Lift stand (78929955100)

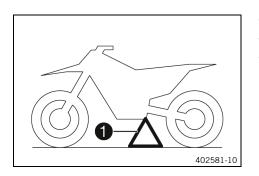
Neither wheel is in contact with the ground.
 Secure the motorcycle against falling over.

11.2 Removing the motorcycle from the lift stand

Note

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

- Park the vehicle on a firm and level surface.



- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand 1 into the plugin stand bracket on the left side of the vehicle.

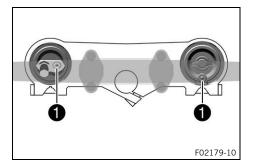


Remove the plug-in stand before riding.

11.3 Bleeding the fork legs

Preparatory work

Raise the motorcycle with a lift stand. (IP p. 38)



Main work

- Release bleeder screws **①**.
- ✓ Any excess pressure escapes from the interior of the fork.
- Tighten the bleeder screws.

Finishing work

- Remove the motorcycle from the lift stand. (I p. 38)

11.4 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (IP p. 38)
- Remove the fork protector. (IP p. 39)

Main work

- Push dust boots 1 of both fork legs downward.

Info

The dust boots remove dust and coarse dirt particles from the inside fork tubes. Over time, dirt can accumulate behind the dust boots. If this dirt is not removed, the oil seals behind can start to leak.



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

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.
- Clean and oil the dust boots and inner fork tubes of both fork legs.

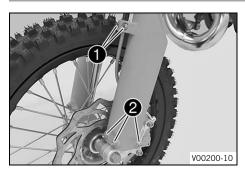
Universal oil spray (🕮 p. 113)

- Press the dust boots back into their installation position.
- Remove excess oil.

Finishing work

- Install the fork protector. (🕮 p. 40)
- Remove the motorcycle from the lift stand. (IP p. 38)

11.5 Removing the fork protector

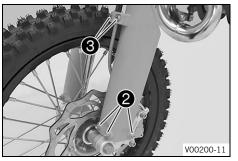


- Remove screws **1** and take off the clamp.
- Remove screws ② on the left fork leg. Take off the fork protector.



11.6 Installing the fork protector





Remove screws 3 on the right fork leg. Take off the fork protector.

Position fork protector on the right fork leg. Mount and tighten screws ①.

Guideline

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

Position fork protector on left fork leg. Mount and tighten screws **2**.

Guideline

chassis	

Position the brake line and the clamp. Mount and tighten screws \Im .

Guideline

Screw, brake line EJOT bracket	1.7 Nm (1.25 lbf ft)
---------------------------------------	-------------------------

11.7 Removing the fork legs 🔌

Preparatory work

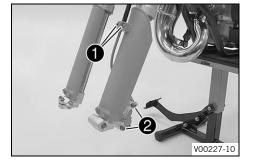
- Raise the motorcycle with a lift stand. (IP p. 38)
- Remove the front wheel. 🔌 (📖 p. 79)

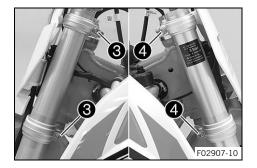
Main work

- Remove screws **1** and take off the clamp.
- Remove screws 2 and take off the brake caliper.
- Allow the brake caliper and brake line to hang loosely to the side.

• Info

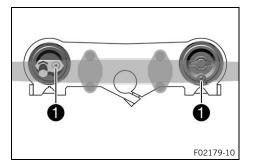
Do not kink the brake line.

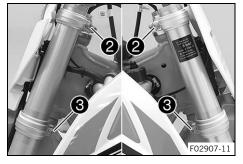




- Loosen screws ${f 3}$. Remove the left fork leg.
- Loosen screws 4. Remove the right fork leg.

11.8 Installing the fork legs 🔌







Main work

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- Position the fork legs.
 - ✓ Bleeder screws ① are positioned toward the rear.

Info

- The second milled groove (from the top) must be flush with the upper edge of the upper triple clamp.
- Tighten screws **2**. Guideline

Screw, top triple	M8	20 Nm (14.8 lbf ft)
clamp		

Tighten screws 3.

Guideline

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

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

Screw, front	M8	20 Nm (14.8 lbf ft)
brake caliper		Loctite [®] 243™

Position the brake line and the clamp. Mount and tighten screws 5.
 Guideline

Screw, brake line	EJOT	1.7 Nm		
bracket		(1.25 lbf ft)		

Finishing work

Install the front wheel. ◄ (≅ p. 79)

11.9 Removing the lower triple clamp 🔌



Preparatory work

- Raise the motorcycle with a lift stand. (IP p. 38)
- Remove the front wheel.

 (I) p. 79)
- Remove the fork legs. 🔌 (📖 p. 40)
- Remove front fender. (🕮 p. 47)

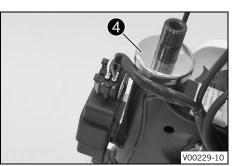
Main work

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- Remove fuel tank breather **1**.
- Remove nut 2.
- Remove screw 3, take off the upper triple clamp with the handlebar and set it aside.

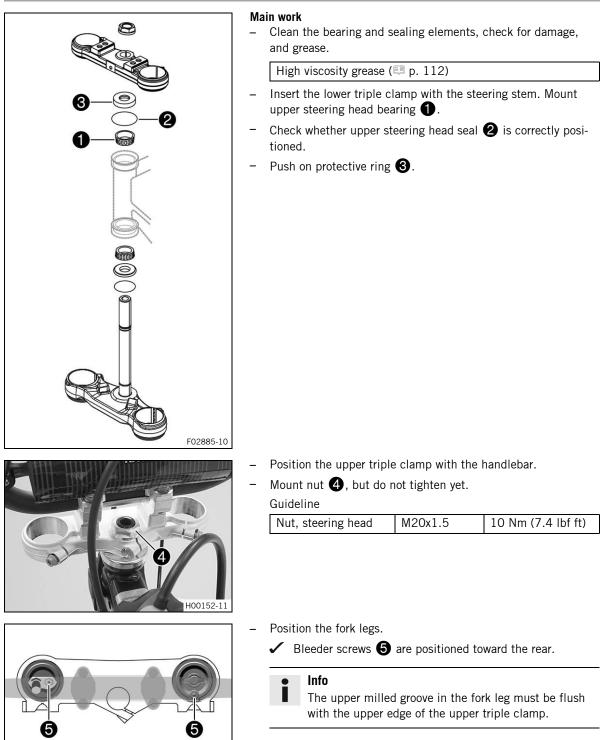
Info

- Remove protective ring 4.
- Remove the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.



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

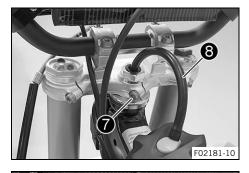
11.10 Installing the lower triple clamp 🔺



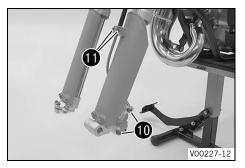
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Tighten screws 🙆.

Guideline

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

Tighten nut 4.

Nut, steering head	M20x1.5	10 Nm (7.4 lbf ft)

Mount and tighten screw 7.

Guideline

Screw, steering stem	M8	20 Nm (14.8 lbf ft)

- Position the fuel tank breather (8) in the steering stem.
- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.

Tighten screws 😉.

Guideline

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Screw, top triple	M8	20 Nm (14.8 lbf ft)
clamp		

Position the brake caliper, and mount and tighten screws 10.
 Guideline

Screw, front	M8	20 Nm (14.8 lbf ft)
brake caliper		Loctite [®] 243™

Position the brake line and the clamp. Mount and tighten screws lacksquare.

Guideline

Screw, brake line EJOT	1.7 Nm
bracket	(1.25 lbf ft)

Finishing work

- Check that the wiring harness, throttle cable, and brake and clutch lines can move freely and are routed correctly.
- Install front fender. (📖 p. 47)

- Install the start number plate. (I p. 47)
- Install the front wheel. 🔌 (🕮 p. 79)
- Remove the motorcycle from the lift stand. (I p. 38)

11.11 Checking the steering head bearing play

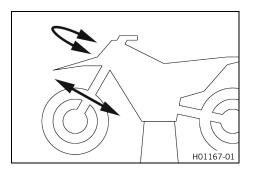
Warning

Danger of accidents Incorrect steering head bearing play impairs the handling characteristic and damages components.

 Correct incorrect steering head bearing play immediately. (Your authorized KTM workshop will be glad to help.)

Info

If the vehicle is operated for a lengthy period with play in the steering head bearing, the bearings and the bearing seats in the frame can become damaged over time.



Preparatory work

Raise the motorcycle with a lift stand. (I p. 38)

Main work

 Move the handlebar to the straight-ahead position. Move the fork legs to and fro in the direction of travel.

Play should not be detectable on the steering head bearing.

- » If there is detectable play:
- Adjust the steering head bearing play. 🔌 💷 p. 45)
- Move the handlebar to and fro over the entire steering range.

It must be possible to move the handlebar easily over the entire steering range. There should be no detectable detent positions.

- » If detent positions are detected:
 - Adjust the steering head bearing play. ◄ (ﷺ p. 45)
 - Check the steering head bearing and replace if required.

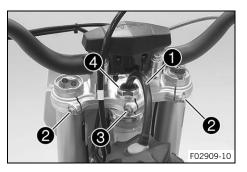
Finishing work

- Remove the motorcycle from the lift stand. (I p. 38)

11.12 Adjusting the steering head bearing play 🔌

Preparatory work

- Raise the motorcycle with a lift stand. (I p. 38)



Main work

- Remove fuel tank breather 1.
- Loosen screws **2**.
- Loosen screw 3.
- Loosen and retighten nut **4**.

Guideline

Nut, steering head M20x1.	5 10 Nm (7.4 lbf ft)
---------------------------	----------------------

Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.

Tighten screw **3**.

Gu	ida	line
Gu	Ide	line

Screw, steering stem	M8	20 Nm (14.8 lbf ft)

Tighten screws **2**.

Guideline

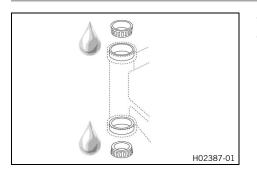
Screw, top triple	M8	20 Nm (14.8 lbf ft)
clamp		

Position fuel tank breather 1.

Finishing work

- Check the steering head bearing play. (I p. 45)
- Remove the motorcycle from the lift stand. (IP p. 38)

11.13 Lubricating the steering head bearing 🔦



- Remove the lower triple clamp. 🔌 (📖 p. 42)
- Install the lower triple clamp. 🔌 (🕮 p. 43)



The steering head bearing is cleaned and lubricated in the course of removal and installation of the lower triple clamp.

Removing the start number plate 11.14

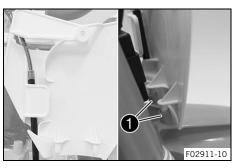


Remove screw 1.

Unhook the start number plate from the brake line and remove it.

4 Nm (3 lbf ft)

11.15 Installing the start number plate

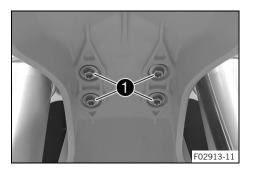


- Attach the start number plate to the brake line. _ _
 - Position the start number plate.
 - ✓ Holding lugs **1** engage in the fender.



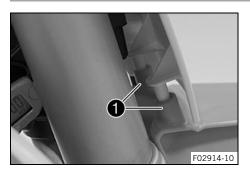
Mount and tighten screw **2**. Guideline Start number plate Μ6 screw

11.16 **Removing front fender**



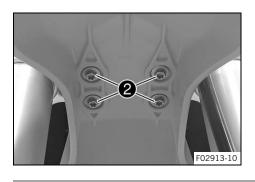
Remove screws 1. Take off the front fender. _

11.17 **Installing front fender**

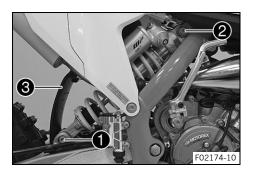


Position start number plate on the fender. _

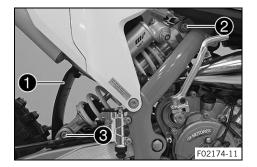
✓ The holding lugs of the start number plate engage in drill holes **1** of the fender.



11.18 Removing the shock absorber 🔌



11.19 Installing the shock absorber 🔧



Position fender on the lower triple clamp, mount and tighten screws **2**.

Guideline

Screw, fender M6 6 Nm (4.4 lbf ft)

Preparatory work

- Raise the motorcycle with a lift stand. (IP p. 38)

Main work

- Remove screw **1** and lower the rear wheel with the link fork as far as possible without blocking the rear wheel. Secure the rear wheel in this position.
- Remove screw **2**, push splash protector **3** to the side, and remove the shock absorber.

Main work

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

Guideline

Screw, top	M10	45 Nm (33.2 lbf ft)
shock absorber		Loctite [®] 243™

Mount and tighten screw 3.

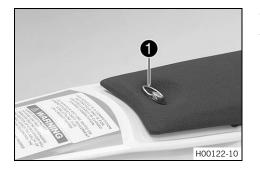
Guideline

Screw, bottom	M10	45 Nm (33.2 lbf ft)
shock absorber		Loctite [®] 243™

Finishing work

- Remove the motorcycle from the lift stand. (IP p. 38)

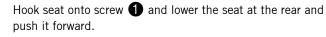
11.20 Removing the seat



- Open quick release 1 and raise the rear of the seat.
- Pull back the seat and remove it.

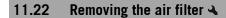
11.21 Mounting the seat





✓ Holding lug **2** hooks into the fuel tank.

Close quick release 3.



Note

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

H00122-11

Dust and dirt will enter the engine without an air filter.

Never start to use the vehicle without an air filter. _



- **Environmental hazard** Hazardous substances cause environmental damage.
- Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.



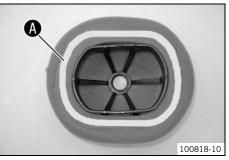
Preparatory work

Remove the seat. (E p. 48) _

Main work

- Detach air filter holding bracket **1** at the bottom and swing it _ to one side. Remove the air filter with the air filter support. _
 - Remove the air filter from the air filter support.

11.23 Installing the air filter 🔧





Main work

- Mount the clean air filter on the air filter support.
- Grease the air filter in area A.
 - Long-life grease (🕮 p. 112)
- Insert both parts together, position them, and secure them using air filter holding bracket **1**.



If the air filter is not mounted correctly, dust and dirt may enter the engine and result in damage.

Finishing work

- Mount the seat. (🕮 p. 49)

11.24 Cleaning the air filter and air filter box 🔌



Note

Environmental hazard Hazardous substances cause environmental damage.

M01456-01

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

Info

Do not clean the air filter with fuel or petroleum since these substances attack the foam.

Preparatory work

- Remove the seat. (I p. 48)
- Remove the air filter. 🔌 (📖 p. 49)

Main work

 Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Air filter cleaner (📖 p. 112)

• Info

Only press the air filter to dry it, never wring it out.

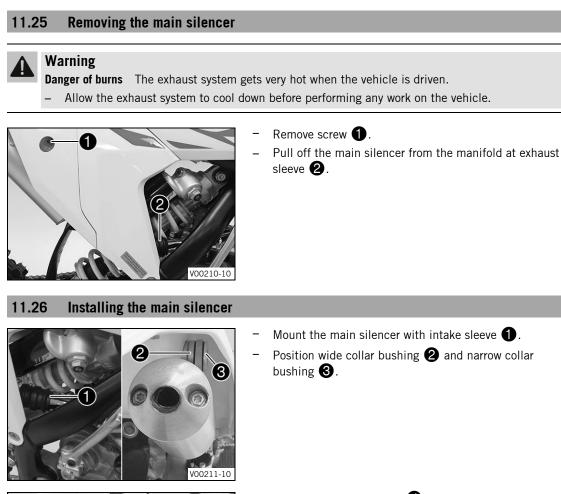
Oil the dry air filter with a high-grade air filter oil.

Oil for foam air filter (💷 p. 112)

- Clean the air filter box.
- Check intake flange for damage and looseness.

Finishing work

- Install the air filter. 🔌 (💷 p. 50)
- Mount the seat. (🕮 p. 49)



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- Mount and tighten screw 4. Guideline Remaining screws, M6 chassis

ne		
ning screws,	M6	10 Nm (7.4 lbf ft)
S		



27 Changing the glass fiber yarn filling of the main silencer A

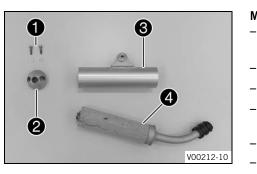
Warning

Danger of burns The exhaust system gets very hot when the vehicle is driven.

- Allow the exhaust system to cool down before performing any work on the vehicle.

• Info

Over time, the fibers of the glass fiber yarn escape and the damper "burns" out. Not only is the noise level higher, the performance characteristic changes.



Preparatory work

- Remove main silencer. (🕮 p. 51)

Main work

- Remove screws with toothed washers 1 from the silencer cap 2.
- Remove end cap and outer tube 3.
- Remove glass fiber yarn filling **4** from the inner tube.
- Clean the parts that need to be reinstalled and check for damage.
- Mount the new glass fiber yarn filling on the inner tube.
- Slide the outer tube over the glass fiber yarn filling.
- Insert the end cap into the outer tube.
- Mount and tighten the screws with the toothed washers.
 Guideline

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

Finishing work

Install the main silencer. (🕮 p. 51)

11.28 Removing the fuel tank 🔌



Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Preparatory work

- Remove the seat. (🕮 p. 48)
- _ Turn the knurled screw on the fuel tap all the way clockwise.

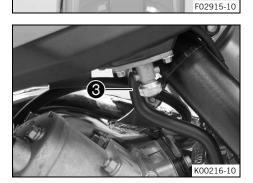
Main work Remove screw 1.

_



70

Remove screws **2**.



Pull off fuel hose **3**.



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_

Remaining fuel may flow out of the fuel hose.

- Pull fuel tank breather out of the steering stem.
- Pull both spoilers off laterally from the radiator bracket and lift off the fuel tank.

11.29 Installing the fuel tank A

Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Main work

- Check the throttle cable routing. (\mathbbm{B} p. 60)
- Position the fuel tank and fit the two spoilers to the sides of the radiator mount.
- Make sure that no cables or throttle cables are trapped or damaged.
- Mount fuel hose 1.

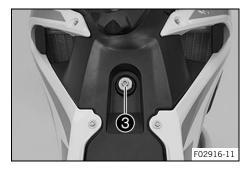


Mount and tighten screws **2**.

Guideline

1	Screw, fuel tank	M6	6 Nm (4.4 lbf ft)
	spoiler on radiator		





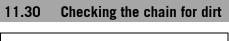
Mount and tighten screw ③.
 Guideline

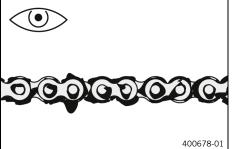
auldeline			
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	

- Position the fuel tank breather in the steering stem.

Finishing work

- Mount the seat. (📖 p. 49)





- Check the chain for coarse dirt accumulation.
 » If the chain is very dirty:
 - Clean the chain. (
 ^[2] p. 55)

11.31 Cleaning the chain



Warning

- Danger of accidents Lubricants on the tires reduces the road grip.
- Remove lubricants from the tires using a suitable cleaning agent.



Warning

- **Danger of accidents** Oil or grease on the brake discs reduces the braking effect.
- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.



Note

Environmental hazard Hazardous substances cause environmental damage.

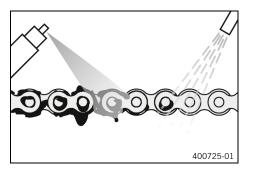
 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

• Info

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

Preparatory work

Raise the motorcycle with a lift stand. (
 p. 38)



Main work

- Rinse off loose dirt with a soft jet of water.
- Remove old grease residue with chain cleaner.

Chain cleaner (🕮 p. 112)

• After drying, apply chain spray.

Off-road chain spray (📖 p. 112)

Finishing work

11.32 Checking the chain tension



Warning

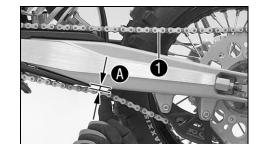
Danger of accidents Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded. If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

Preparatory work

- Raise the motorcycle with a lift stand. (🕮 p. 38)



Main work

Press the chain upward at the end of the chain sliding piece and determine chain tension (A).

Info

Top chain section **①** must be taut. Chain wear is not always even, so you should repeat this measurement at different chain positions.

Chain tension	5 8 mm (0.2 0.31 in)

» If the chain tension does not meet the specification:
 – Adjust the chain tension. (
 p. 57)

Finishing work

◀

11.33 Adjusting the chain tension

Warning

Danger of accidents Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded. If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

- Check the chain tension regularly.
- Set the chain tension in accordance with the specification.

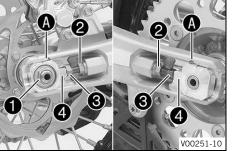
Preparatory work

- Raise the motorcycle with a lift stand. (p. 38)
- Check the chain tension. (
 p. 56)

Main work

- Loosen nut 🚺.
- 🗉 Loosen nuts 2.
- Adjust the chain tension by turning adjusting screws ③ left and right.

Guideline



Chain tension5 ... 8 mm (0.2 ... 0.31 in)Turn the adjusting screws ③ on the left and right so that
the markings on the left and right chain adjusters ④ are in
the same position relative to the reference marks ④. The
rear wheel is then correctly aligned.

- Tighten nuts **2**.
 - Make sure that chain adjusters **4** are fitted correctly on adjusting screws **3**.
- Tighten nut **1**.

Guideline			
Nut, rear wheel spin- dle	M14x1.5	40 Nm (29.5 lbf ft)	

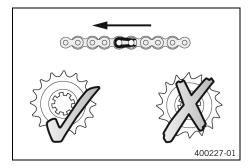
Finishing work

- Remove the motorcycle from the lift stand. (IP p. 38)

11.34 Checking the chain, rear sprocket, engine sprocket, and chain guide

Preparatory work

- Raise the motorcycle with a lift stand. (I p. 38)



Main work

- Shift the transmission into neutral.
- Check the chain, rear sprocket, and engine sprocket for wear.
 - » If the chain, rear sprocket or motor sprocket is worn:
 - Change the drivetrain kit. 🔌

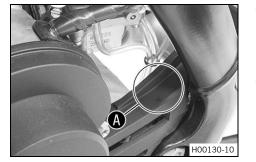
• Info

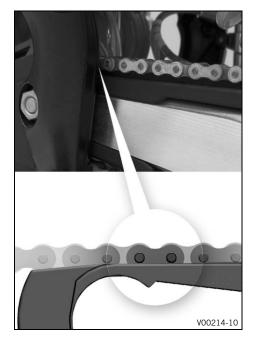
The engine sprocket, the rear sprocket, and the chain should always be replaced together. When fitting the chain joint, always make sure that the closed side of the joint faces forward (riding direction).

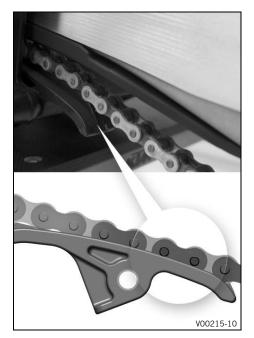
- Check the engine sprocket cover for wear.
 - » If the engine sprocket cover is worn through in the marked area (\mathbf{A}) :
 - Change the engine sprocket cover. 🔌
- Check the engine sprocket cover for tightness.
 - » If the engine sprocket cover is loose:
 - Tighten the engine sprocket cover.

Guideline		
Screw, engine	M6	10 Nm
sprocket cover		(7.4 lbf ft)

- Check the chain sliding guard for wear.
 - » If the lower edge of the chain pins is in line with, or below, the chain sliding guard:
 - Change the chain sliding guard. 🔌
- Check that the chain sliding guard is firmly seated.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.







- Check the chain sliding piece for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding piece:
 - Change the chain sliding piece. 🔌
- Check that the chain sliding piece is firmly seated. _
 - If the chain sliding piece is loose: »
 - Tighten the chain sliding piece. _

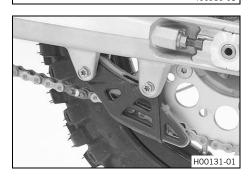
Guideline			
Remaining screws,	M8	25 Nm	
chassis		(18.4 lbf ft)	

400985-01

Check the chain guide for wear. _

•	Inf
	We

- O Wear can be seen on the front of the chain guide.
- If the light part of the chain guide is worn: »
 - Change the chain guide. 🔌 _



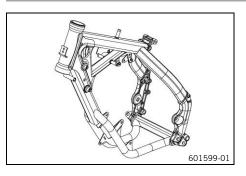
- Check that the chain guide is firmly seated. _
 - » If the chain guide is loose:
 - Tighten the chain guide. _

Gι	lideline		
R	emaining screws,	M6	10 Nm
с	hassis		(7.4 lbf ft)

Finishing work

Remove the motorcycle from the lift stand. (IP p. 38) _

11.35 Checking the frame 🔦

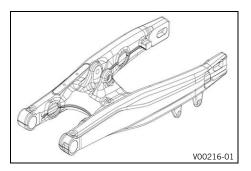


- Check the frame for cracks and deformation.
- » If the frame exhibits cracks or deformation due to a mechanical impact:
 - Change the frame. 🔌

• Info

Always replace a frame that has been damaged due to a mechanical impact. Repair of the frame is not authorized by KTM.

11.36 Checking the link fork 🔦



- Check the link fork for damage, cracking, and deformation.
 - » If the link fork shows signs of damage, cracking, or deformation:
 - Change the link fork. 🔌



Always replace a damaged link fork. Repairing the link fork is not authorized by KTM.

11.37 Checking the throttle cable routing

Warning

Danger of accidents The throttle cable may slip out of the guide if routed incorrectly. The throttle slide will then no longer be closed and the speed can no longer be controlled.

 Make sure that the throttle cable routing and the play in the throttle cable comply with the specification.

Preparatory work

- Remove the seat. (🕮 p. 48)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. 🔌 (🕮 p. 52)

Main work

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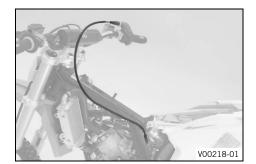
Check the throttle cable routing.

The throttle cable must be routed behind the handlebar, behind the coolant hose and on the left of the frame.

- » If the throttle cable routing is not as specified:
 - Correct the throttle cable routing.

Finishing work

- 🛛 Install the fuel tank. 🔌 (🕮 p. 54)
- Mount the seat. (📖 p. 49)



Check the rubber grips on the handlebar for damage, wear, and looseness. If a rubber grip is damaged, worn, or loose: Change the rubber grip. Rubber grip adhesive (00062030051) (Implies p. 113) Additionally secure the rubber grip. (Implies p. 61) 11.39 Additionally securing the rubber grip

Preparatory work

Main work

- Check the rubber grip. (💷 p. 61)

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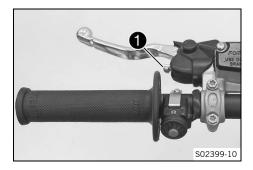
Checking the rubber grip

- Secure the rubber grip at two locations with the retaining wire.

Securing wire (54812016000)	
Wire twister forceps (U6907854)	

The twisted wire ends face away from the palms and are bent in toward the rubber grip.

11.40 Adjusting the basic position of the clutch lever



Adjust the basic position of the clutch lever to the size of the rider's hand using adjusting screw **1**.

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.

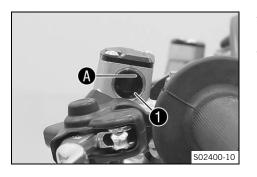
Do not make any adjustments while riding.

11.41 Checking the fluid level of the hydraulic clutch

e Info

11.38

The fluid level rises with increasing wear of the clutch facing discs.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- lacksim Check the fluid level in viewer lacksim lacksim .
 - If the fluid has dropped below marking A in the level viewer:
 - Correct the fluid level of the hydraulic clutch.
 (I) p. 62)

11.42 Correcting the fluid level of the hydraulic clutch

Warning

Skin irritation Brake fluid causes skin irritation.

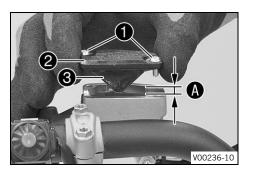
- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.

• Info

The fluid level rises with increasing wear of the clutch facing discs.

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.



- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover 2 with membrane 3.
- Correct the fluid up to level A.
 Guideline

Level (fluid level below container rim)	4 mm (0.16 in)

Brake fluid DOT 4 / DOT 5.1 (🕮 p. 110)

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

lnfo

Clean up overflowed or spilled brake fluid immediately with water.

11.43 Changing the hydraulic clutch fluid 🔧



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.

A Note

Environmental hazard Hazardous substances cause environmental damage.

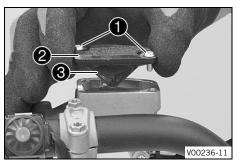
 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

Info

The fluid level rises with increasing wear of the clutch facing discs.

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.



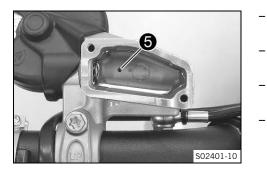
- Move the clutch fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover **2** with membrane **3**.



- Fill bleeding syringe 4 with the appropriate hydraulic fluid.

Syringe (50329050000)
Brake fluid DOT 4 / DOT 5.1 (🕮 p. 110)

On the slave cylinder, remove the bleeder screw and mount bleeding syringe



- Inject the liquid into the system only until it emerges from drill hole of the master cylinder without bubbles.
- Now and then, extract fluid from the master cylinder reservoir to prevent overflow.
- Remove the bleeding syringe. Mount and tighten screws bleeder screw.
- Correct the fluid level of the hydraulic clutch.

Guideline

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Fluid level below container	4 mm (0.16 in)
rim	

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

• Info

Clean up overflowed or spilled brake fluid immediately with water.

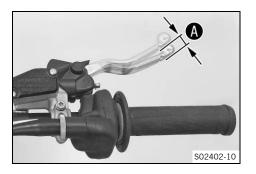
12.1 Checking the free travel of the hand brake lever



Warning

Danger of accidents The brake system fails in the event of overheating.

- If there is no free travel on the hand brake lever, pressure builds up on the front brake circuit.
- Set the free travel on the hand brake lever in accordance with the specification.



- Push the hand brake lever forward and check free travel ▲.

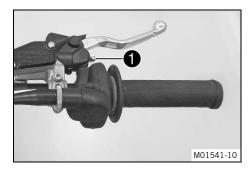
 Free travel of hand brake lever

 lever

 >

 If the free travel does not match the specification:

 Adjust the basic position of the hand brake lever.
- 12.2 Adjusting the basic position of the hand brake lever



Check the free travel of the hand brake lever. (IP p. 65)
 Adjust the basic position of the hand brake lever using adjusting screw 1.

lnfo

(🕮 p. 65)

Turn the adjusting screw clockwise to increase the distance between the hand brake lever and the handlebar.

Turn the adjusting screw counterclockwise to decrease the distance between the hand brake 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.

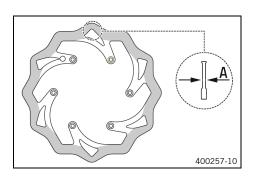
12.3 Checking the brake discs



Warning

Danger of accidents Worn-out brake discs reduce the braking effect.

 Make sure that worn-out brake discs are replaced immediately. (Your authorized KTM workshop will be glad to help.)



Check the front and rear brake disc thickness at multiple points for the dimension (\mathbf{A}) .

• Info

Wear reduces the thickness of the brake disc around the contact surface of the brake linings.

Brake discs - wear limits	
front	2.5 mm (0.098 in)
rear	2.5 mm (0.098 in)

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

12.4 Checking the front brake fluid level

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

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

Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Danger of accidents Old brake fluid reduces the braking effect.

- Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)

g Note

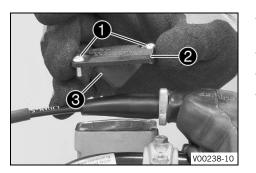
Environmental hazard Hazardous substances cause environmental damage.

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

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 attacks paint. Only use clean brake fluid from a sealed container.



- Move the brake fluid reservoir mounted on the handlebar into a horizontal position.
- Remove screws ①.
- Take off cover 2 with membrane 3.
- Check the brake fluid level.

Brake fluid level under top	5 mm (0.2 in)
level of container	

- » If the brake fluid level does not meet specifications:
- Position the cover with the membrane. Mount and tighten the screws.

Info

Clean up the overflowed or spilled brake fluid immediately with water.

12.5 Adding the front brake fluid 🔧



Warning

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

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

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.

Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Note

Environmental hazard Hazardous substances cause environmental damage.

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

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.

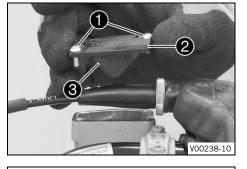
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.

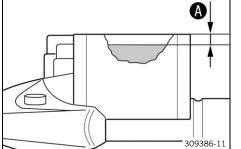
Preparatory work

Check the front brake linings. (IP p. 68) _

Main work

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Take off cover 2 with membrane 3.





Add brake fluid up to level 🚯	
Guideline	

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	_					

Brake fluid level under top	5 mm (0.2 in)
level of container	

Brake fluid DOT 4 / DOT 5.1 (🕮 p. 110)

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



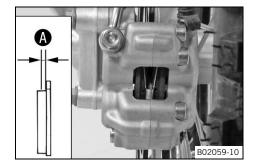
Immediately clean up any brake fluid that has overflowed or spilled with water.

12.6 **Checking the front brake linings**

Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)



- Check the brake linings for minimum thickness (A).
 - Minimum thickness (A) $\geq 1 \text{ mm} (\geq 0.04 \text{ in})$
 - » If the minimum thickness is less than specified:
 - Check the brake linings for damage and cracking.
 - » If damage or wear is encountered:

12.7 Changing the brake linings of the front brake A

Warning

Danger of accidents Incorrect servicing will cause the brake system to fail.

 Ensure that service work and repairs are performed professionally. (Your authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.

Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Brake linings which have not been approved alter the braking efficiency.

Not all brake linings are tested and approved for KTM motorcycles. The structure and friction coefficient of the brake linings, and thus their brake power, may vary greatly from that of original brake linings. If brake linings are used that differ from the original equipment, compliance with the original homologation is not guaranteed. In this case, the vehicle no longer corresponds to its condition at delivery and the manufacturer warranty shall be void.

- Only use brake linings approved and recommended by KTM.



Note

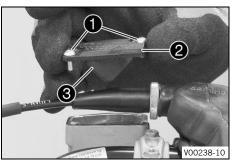
Environmental hazard Hazardous substances cause environmental damage.

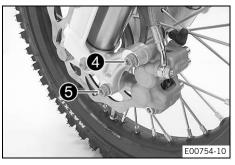
 Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

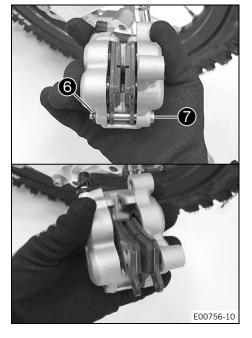


Never use DOT 5 brake fluid. It is silicone-based and purple in color. Oil seals and brake lines are not designed for DOT 5 brake fluid.

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.







- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Take off cover 2 with membrane 3.
- Remove screw 4 and 5.
- Press back the brake linings by slightly tilting the brake caliper laterally on the brake disc. Carefully pull the brake caliper backward from the brake disc.
- Press the brake piston back into the basic position and ensure that brake fluid does not flow out of the brake fluid reservoir; extract some if necessary.
- Remove lock ring 6.
- Remove screw 7.
- Remove the brake linings.
- Clean the brake caliper.
- Position new brake linings.

Info

Always change the brake linings in pairs. Ensure that the brake linings are correctly positioned in the holding spring.

- Mount and tighten screw 7.

Guideline

Screw, front brake linings	M6	10 Nm (7.4 lbf ft)
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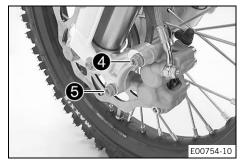
Mount lock ring 6

Warning

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

- Always keep the brake discs free of oil and grease.
- Clean the brake discs with brake cleaner when necessary.
- Check the brake discs. (🕮 p. 65)

e Info



- Position the brake caliper.
- Mount screw **4** and **5** but do not tighten yet.
- Operate the hand brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point. Secure the hand brake lever in the activated position.
 The brake caliper straightens.

Tighten screw **4** and **5**.

Guideline

Screw, front	M8	20 Nm (14.8 lbf ft)
brake caliper		Loctite [®] 243™

- Remove the locking piece of the hand brake lever.
- Correct the brake fluid level.

Guideline

Brake fluid level under top level of container	5 mm (0.2 in)
	~~ 110)

Brake fluid DOT 4 / DOT 5.1 (📖 p. 110)

- Position cover **2** with membrane **3**.
- Mount and tighten screws **①**.
 - Info Imm
 - Immediately clean up any brake fluid that has overflowed or spilled with water.

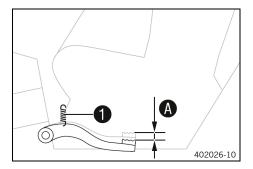
12.8 Checking the free travel of the foot brake lever

Warning

Danger of accidents The brake system fails in the event of overheating.

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

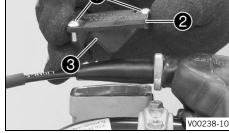
- Set the free travel on the foot brake lever in accordance with the specification.



- Detach spring 🚺.
- Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel **A**.

Guideline

- » If the free travel does not match the specification:
- Attach spring 🚺.



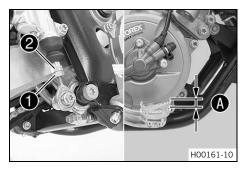
12.9 Adjusting the free travel of the foot brake lever 🔌

Warning

Danger of accidents The brake system fails in the event of overheating.

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.



- Detach the foot brake lever spring.
- Loosen nut 1.
- Turn push rod (2) accordingly until you have free travel (1).
 Guideline

Free travel of foot brake lever 3 ... 5 mm (0.12 ... 0.2 in)

- Hold push rod 2 and tighten nut 1.
- Attach the foot brake lever spring.
- Check whether the basic position of the foot brake lever is suitable for the rider.
 - When the basic position of the foot brake lever needs to be adjusted:

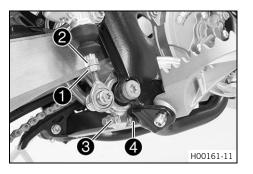
12.10 Adjusting the basic position of the foot brake lever A

Warning

Danger of accidents The brake system fails in the event of overheating.

If there is no free travel on the foot brake lever, pressure builds up in the brake system on the rear brake.

- Set the free travel on the foot brake lever in accordance with the specification.



- Detach the foot brake lever spring.
- Loosen nut **1**.
- Turn back push rod 2.
- Loosen nut 3.
 - To adjust the basic position of the foot brake lever, turn screw 4 accordingly.

Info

- The range of adjustment is limited.
- Hold screw **4** and tighten nut **3**.

Guideline

Remaining nuts,	M8	25 Nm (18.4 lbf ft)
chassis		

- Check the free travel of the foot brake lever. (I p. 71)

Guideline

Free travel of foot brake lever	3 5 mm (0.12 0.2 in)
---------------------------------	----------------------

» If the free travel at the foot brake lever does not meet specifications:

- Attach the foot brake lever spring.

12.11 Checking the rear brake fluid level

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

 Check the brake system and ensure that nobody drives the vehicle before the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



- Stand the vehicle upright.
- Check the brake fluid level in level viewer 1.
 - If an air bubble is visible in viewer ①:
 - Add rear brake fluid. 🔌 💷 p. 73)

12.12 Adding rear brake fluid 🔧



Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail. If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

- Check the brake system and ensure that nobody drives the vehicle before the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.



Warning

Note

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Environmental hazard Hazardous substances cause environmental damage.

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

Info

3

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.

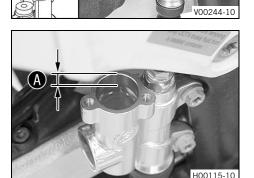
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.

Preparatory work

- Raise the motorcycle with a lift stand. (IP p. 38)



- Remove screws 1.
- Take off cover **2** with washer **3** and membrane **4**.



Add brake fluid up to level **A**.

Guideline

Level 🚯 (brake fluid level below reservoir rim)	10 mm (0.39 in)	
Brake fluid DOT 4 / DOT 5.1 (🕮 p. 110)		

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

Info

Clean up overflowed or spilled brake fluid immediately with water.

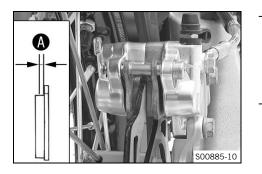
Finishing work

12.13 Checking the rear brake linings

Warning

Danger of accidents Worn-out brake linings reduce the braking effect.

- Ensure that worn-out brake linings are replaced immediately. (Your authorized KTM workshop will be glad to help.)



• Check the brake linings for minimum thickness 🚯.

Minimum thickness $(A) \ge 1 \text{ mm} (\ge 0.04 \text{ in})$

- » If the minimum thickness is less than specified:
 - Change the rear brake linings. 🔌 (🕮 p. 75)
- Check the brake linings for damage and cracking.
 - If damage or wear is encountered:
 - Change the rear brake linings. 🔌 (🕮 p. 75)

12.14 Changing the rear brake linings 🔦

Warning

Skin irritation Brake fluid causes skin irritation.

- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.

»

- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water immediately and consult a doctor if brake fluid comes into contact with the eyes.
- If brake fluid spills on to your clothing, change the clothing.

Danger of accidents Old brake fluid reduces the braking effect.

 Make sure that brake fluid for the front and rear brake is changed in accordance with the service schedule. (Your authorized KTM workshop will be glad to help.)



Warning

Warning

Danger of accidents Incorrect servicing will cause the brake system to fail.

 Ensure that service work and repairs are performed professionally. (Your authorized KTM workshop will be glad to help.)



z Note

Environmental hazard Hazardous substances cause environmental damage.

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

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.

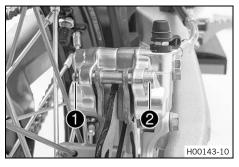
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint. Only use clean brake fluid from a sealed container.

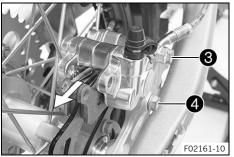
Preparatory work

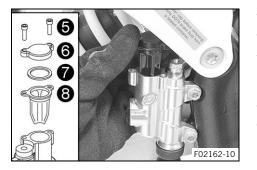
- Raise the motorcycle with a lift stand. (IP p. 38)

Main work

- Remove lock ring **1**.
- Remove screw **2**.







Remove screw 4 and take off the brake caliper.

Remove screw **3**.

Remove the brake linings.

• Info

Cover the components to protect them against damage. Do not kink the brake line.

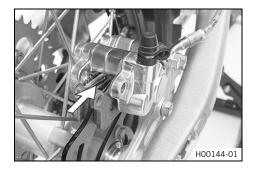
- Clean the brake caliper and the brake caliper bracket.
- · Remove screws 6.
- Take off cover 6 with washer 7 and membrane 8.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir, extract brake fluid if necessary.
 - Position the brake caliper.
- Mount and tighten screw 4.
 Guideline

Screw, rear brake caliper	M8x20	18 Nm (13.3 lbf ft) Loctite[®]243™
blake caliper		Locine 245

- Mount and tighten screw 3.

Guideline

Screw, rear	M8x40	18 Nm (13.3 lbf ft)
brake caliper		Loctite [®] 243™



Warning

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

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



Warning

Danger of accidents Brake linings which have not been approved alter the braking efficiency.

Not all brake linings are tested and approved for KTM motorcycles. The structure and friction coefficient of the brake linings, and thus their brake power, may vary greatly from that of original brake linings. If brake linings are used that differ from the original equipment, compliance with the original homologation is not guaranteed. In this case, the vehicle no longer corresponds to its condition at delivery and the manufacturer warranty shall be void.

- Only use brake linings approved and recommended by KTM.
- Position the new brake linings.

Info

Always change the brake linings in pairs. Ensure that the brake linings are correctly positioned in the holding spring.

Mount and tighten screw **2**.

Guideline

Screw, rear brake	M6	10 Nm (7.4 lbf ft)
lining		

- Mount lock ring 1.
- Check the brake discs. (🕮 p. 65)
- Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.
- Add brake fluid up to level A.

Guideline

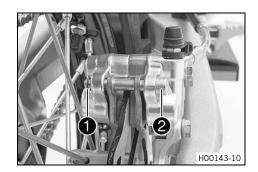
Level A (brake fluid level below reservoir rim)	10 mm (0.39 in)
---	-----------------

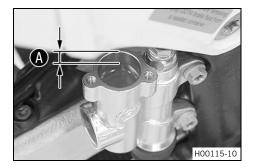
Brake fluid DOT 4 / DOT 5.1 (🕮 p. 110)

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

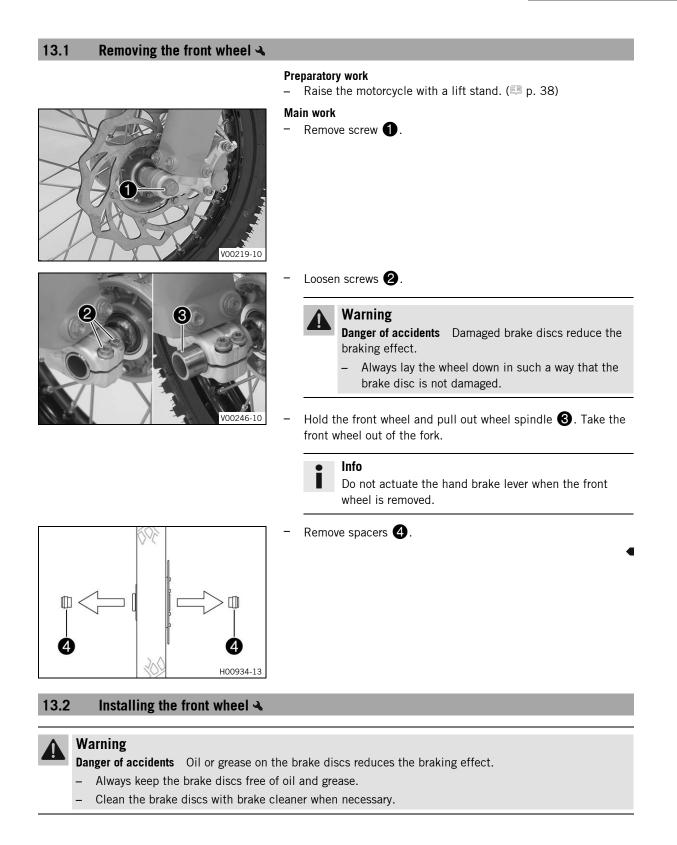
Info

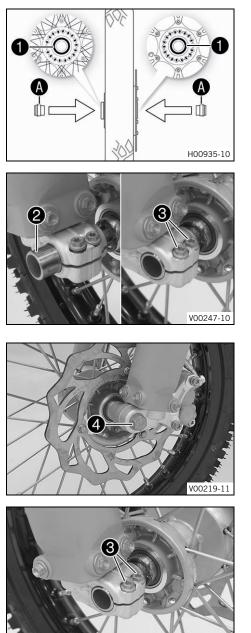
Immediately clean up any brake fluid that has overflowed or spilled with water.





Finishing work
Remove the motorcycle from the lift stand. (
p. 38)





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

Long-life grease (🕮 p. 112)

Insert the spacers.

»

Clean and grease wheel spindle 2.

Long-life grease (📖 p. 112

- Position the front wheel.
- ✓ The brake linings are correctly positioned.
- Insert the wheel spindle.
- Tighten screws 🕄 .
- Guideline

Screw, fork stub	M6	10 Nm (7.4 lbf ft)
------------------	----	--------------------

• Mount and tighten screw **4**.

Guideline

Screw, front	M10	40 Nm (29.5 lbf ft)
wheel spindle		Loctite [®] 243™

- Remove the motorcycle from the lift stand. (I p. 38)
- Operate the hand brake lever several times until the brake linings are seated correctly against the brake disc.
- Loosen screws 3.
- Operate the front brake and compress the fork a few times firmly.

Μ6

- ✓ The fork legs straighten.
- Tighten screws **3**. Guideline

Screw, fork stub

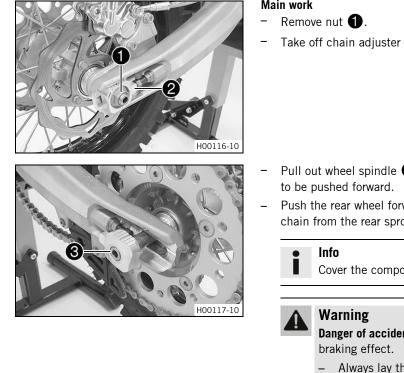
10 Nm (7.4 lbf ft)

13.3 Removing the rear wheel 🔦

Preparatory work

V00248-10

- Raise the motorcycle with a lift stand. (E p. 38)



Main work

- Take off chain adjuster **2**.
- Pull out wheel spindle ③ far enough to allow the rear wheel
 - Push the rear wheel forward as far as possible. Remove the chain from the rear sprocket.

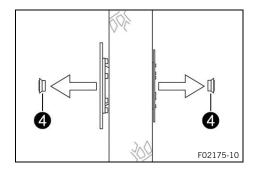
Cover the components to protect them against damage.

Danger of accidents Damaged brake discs reduce the

- Always lay the wheel down in such a way that the brake disc is not damaged.
- Hold the rear wheel and remove the wheel spindle. Take the rear wheel out of the link fork.



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



Remove spacers **4**.

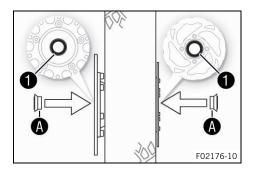
13.4 Installing the rear wheel 🔌

Warning

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

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

13 WHEELS, TIRES





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

Long-life grease (💷 p. 112)

Insert the spacers.

• Info

- Insert the wide spacer on the left in the direction of travel.
- Clean and grease wheel spindle **2**.

Long-life grease (🕮 p. 112)

- Position the rear wheel and insert wheel spindle.
- The brake linings are correctly positioned.
- Mount the chain.
- Position chain adjuster **3** on both sides and push the wheel spindle in all the way.
- Mount nut 4, but do not tighten yet.
- Make sure that the chain adjusters are fitted correctly on the adjusting screws.
- Check the chain tension. (
 p. 56)
- Tighten nut 4.

Guideline

Nut, rear wheel spin-	M14x1.5	40 Nm (29.5 lbf ft)
dle		

Operate the foot brake lever repeatedly until the brake linings are in contact with the brake disc and there is a pressure point.

Finishing work

- Remove the motorcycle from the lift stand. (IP p. 38)

13.5 Checking the tire condition

• Info

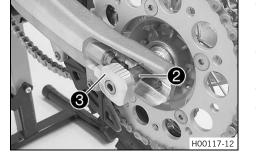
Only mount tires approved and/or recommended by KTM.

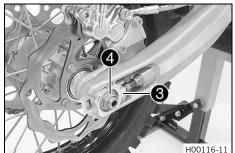
Other tires could have a negative effect on handling characteristics.

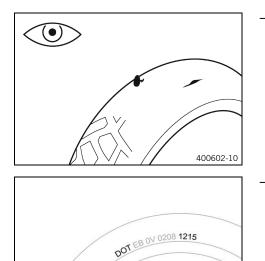
The type, condition, and pressure of the tires all have a major impact on the handling characteristic of the motorcycle.

The tires mounted on the front and rear wheels must have a similar profile.

Worn tires have a negative effect on handling characteristics, especially on wet surfaces.







- Check the front and rear tires for cuts, embedded objects, and other damage.
 - » If the tires have cuts, run-in objects, or other damage:
 - Change the tires.

Check the tire age.

Info

The tire date of manufacture is usually contained in the tire label and is indicated by the last four digits of the **DOT** number. The first two digits indicate the week of manufacture and the last two digits the year of manufacture.

KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

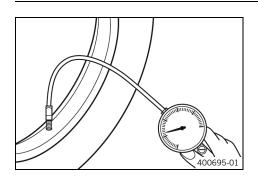
- If the tires are more than five years old:
 - Change the tires. 🔌

13.6 Checking tire pressure

Info

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

H01144-10



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

Offroad tire pressure	
front	1.0 bar (15 psi)
rear	1.0 bar (15 psi)

» If the tire pressure does not meet specifications:

Correct tire pressure.

Mount the protection cap.

13.7 Checking spoke tension

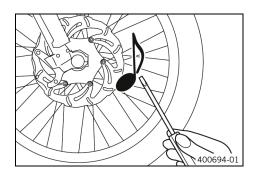


Warning

Danger of accidents Incorrectly tensioned spokes impair the handling characteristic and result in secondary damage.

The spokes break due to being overloaded if they are too tightly tensioned. If the tension in the spokes is too low, then lateral and radial run-out will form in the wheel. Other spokes will become looser as a result.

 Check spoke tension regularly, and in particular on a new vehicle. (Your authorized KTM workshop will be glad to help.)



Strike each spoke briefly using a screwdriver blade.

Info

The frequency of the sound depends on the spoke length and spoke diameter. If you hear different tone frequencies from different

spokes of equal length and diameter, this is an indication of different spoke tensions.

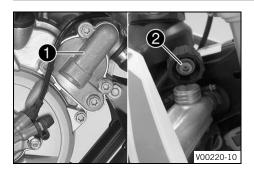
You should hear a high note.

- » If the spoke tension differs:
 - Correct the spoke tension. 🔌
- Check the spoke torque.

Guideline

Spoke nipple	M3.5	3 Nm (2.2 lbf ft)
Torque wrench kit (58	429094000)	

14.1 Cooling system



The water pump ① in the engine forces the coolant to flow. The pressure resulting from the warming of the cooling system is regulated by a valve in the radiator cap ②. This ensures that operating the vehicle at the specified coolant temperature will not result in a risk of malfunctions.

120 °C (248 °F)

Cooling is effected by the air stream. The lower the speed, the less the cooling effect. Dirty cooling fins also reduce the cooling effect.

14.2 Checking the antifreeze and coolant level



Warning

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

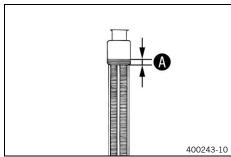
- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses
 or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.





- Stand the motorcycle upright on a horizontal surface.
- Take off radiator cap 1.
- Check the antifreeze in the coolant.

−25 −45 °C (−13 −49 °F)	

- » If the antifreeze in the coolant does not match the specified value:
 - Correct the antifreeze in the coolant.
- Check the coolant level in the radiator.

Coolant level A above the radiator fins	10 mm (0.39 in)
--	-----------------

- » If the coolant level does not match the specified value:
 - Correct the coolant level.

Coolant (🕮 p. 110)

Mount the radiator cap.

14.3 Checking the coolant level

Warning

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

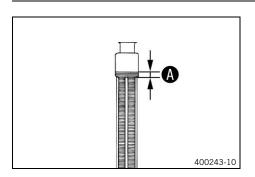
- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses
 or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

A W

Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.



- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- Check the coolant level in the radiator.

Coolant level \Lambda above the radiator fins	10 mm (0.39 in)
---	-----------------

- » If the coolant level does not match the specified value:
 - Correct the coolant level.

Coolant (💷 p. 110)

- Mount the radiator cap.

14.4 Draining the coolant 🔦



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses
 or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

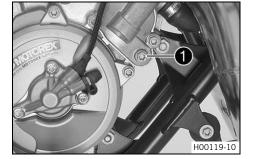
Warning

Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

The engine is cold.



- Position the motorcycle upright.

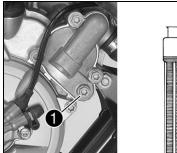
- Place an appropriate container under the water pump cover.
- Remove screw **①**. Take off the radiator cap.
- Completely drain the coolant.
- Mount and tighten screw
 with a new seal ring.
 Guideline

Drain plug, water pump cover	M6	6 Nm (4.4 lbf ft)

14.5 Refilling with coolant 🔦

Warning Danger of poisoning Coolant is toxic and a health hazard.

- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.





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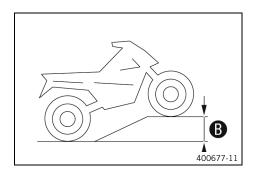
Main work

- Make sure that screw 🕦 is tightened.
- Position the motorcycle upright.
- Add coolant to level (A).

Guideline

Distance A above the ator fins	e radi-	10 mm	(0.39 in)
Coolant	0.55 l (0.58	qt.)	Coolant (🕮 p. 110)

14 COOLING SYSTEM



Move the vehicle into the position shown and prevent it from rolling away. Height difference B must be reached. Guideline

Height difference **B**

50 cm (19.7 in)

Info

- For all of the air to be able to escape from the cooling system, the vehicle must be raised at the front. If the cooling system is poorly de-aerated, its cooling power will be reduced and the engine may overheat.
- Return the vehicle to the horizontal position.
- Add coolant to level A.
- Mount the radiator cap.

Finishing work

- Go for a short test ride.
 - Check the cooling system for leaks.
- Check the coolant level. (E p. 86)

14.6 Changing the coolant 🔦



Warning

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

- Do not open the radiator, the radiator hoses or other cooling system components if the engine or the cooling system are at operating temperature.
- Allow the cooling system and the engine to cool down before you open the radiator, the radiator hoses
 or other components of the cooling system.
- In the event of scalding, rinse the area affected immediately with lukewarm water.

Warning

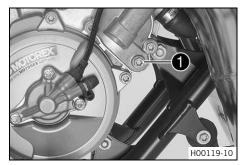
Danger of poisoning Coolant is toxic and a health hazard.

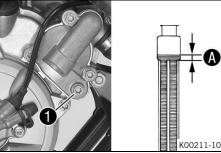
- Keep coolant out of the reach of children.
- Do not allow coolant to come into contact with the skin, the eyes and clothing.
- Consult a doctor immediately if coolant is swallowed.
- Rinse the affected area immediately with plenty of water in the event of contact with the skin.
- Rinse eyes thoroughly with water and consult a doctor immediately if coolant gets into the eyes.
- Change clothing if coolant spills onto your clothing.

Condition

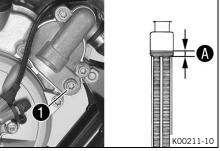
The engine is cold.

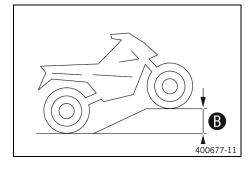
- Position the motorcycle upright.
- Place an appropriate container under the water pump cover.











- Remove screw 1. Take off the radiator cap.
- Completely drain the coolant.
- Mount and tighten screw **①** with a new seal ring. Guideline

Drain plug, water	M6	6 Nm (4.4 lbf ft)
pump cover		

- Make sure that screw **1** is tightened.
- Add coolant to level A. _

Guideline

Guideime			
Distance A above the ator fins	e radi-	10 mm	(0.39 in)
Coolant	0.55 l (0.58	qt.)	Coolant (🕮 p. 110)

Move the vehicle into the position shown and secure it against _ rolling away. Height difference **B** must be reached. Guideline

Height difference **B**

50 cm (19.7 in)

Info

- For all of the air to be able to escape from the cooling system, the vehicle must be raised at the front. If the cooling system is poorly de-aerated, its cooling power will be reduced and the engine may overheat.
- Return the vehicle to the horizontal position. _
- Add coolant to level A.
- Mount the radiator cap. _

Finishing work

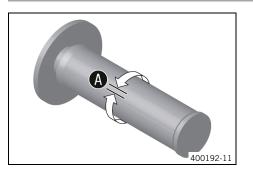
_

- Go for a short test ride. _
- Check the cooling system for leaks. _

Check the coolant level. (
p. 86)

TUNING THE ENGINE 15

15.1 Checking throttle cable play



- Check the throttle grip for smooth operation.
- Move the handlebar to the straight-ahead position. Turn the throttle grip back and forth slightly and determine the play in throttle cable A.

Throttle cable play 3 ... 5 mm (0.12 ... 0.2 in)

- If the throttle cable play does not meet specifications: _
 - Adjust the throttle cable play. 🔌 (📖 p. 90)

Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.

Start the engine and let it run at idle speed. Move the handlebar to and fro over the entire steering range.

The idle speed must not change.

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

 (Image: Play and the play and the

15.2 Adjusting the throttle cable play 🔧

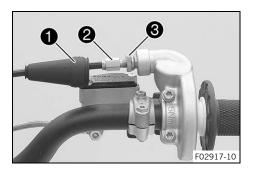
Preparatory work

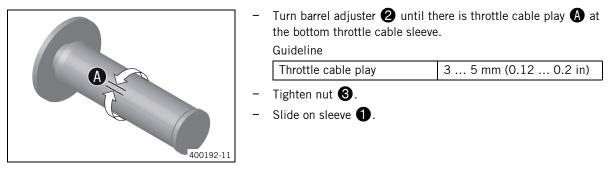
- Remove the seat. (I p. 48) _
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. 🔌 (💷 p. 52)
- Check the throttle cable routing. (
 p. 60)

Main work

_

- Move the handlebar to the straight-ahead position.
- Push back sleeve 1.
- Ensure that the throttle cable sleeve is pushed all the way into barrel adjuster **2**.
- Loosen nut **3**.

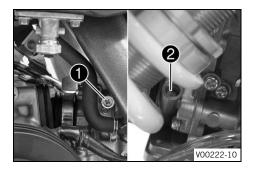




Finishing work

- Install the fuel tank. 🔌 (🕮 p. 54)
- Mount the seat. (🕮 p. 49)
- Check the throttle cable play. (I p. 90)

15.3 Carburettor – idle speed



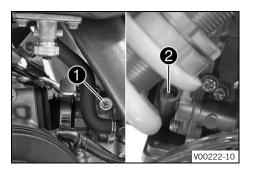
The idle setting of the carburetor has a major influence on the starting behavior, stable idle speed, and the response to throttle opening. This means that an engine with a correctly set idle speed will be easier to start than one with an incorrectly set idle speed.

Info

The carburetor and its components are subject to increased wear caused by engine vibration. Wear can result in malfunctioning.

The idle speed is adjusted with adjusting screw **1**. The idle mixture is adjusted using the idle air adjusting screw **2**.

15.4 Carburetor – adjusting the idle speed 🔧



Screw in idle air adjusting screw ② all the way and turn it to the specified basic setting.

Guideline			
Idle air adjusting screw			
Open	3.5 turns		

Run the engine until warm.

Guideline

Warming-up phase $\geq 5 \text{ min}$

- Connect the special tool.

Tachometer (45129075000)



Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.

Adjust the idle speed with adjusting screw ①.
 Guideline

ſ	Choke function deactivated – The choke lever is pushed up			
	all the way to the stop. (🕮 p. 16)			
Ī	Idle speed	1,400 1,500 rpm		

- Turn idle air adjusting screw 2 slowly in a clockwise direction until the idle speed begins to fall.
- Note the position and turn the idle air adjusting screw slowly counterclockwise until the idle speed again begins to fall.
- Adjust to the point between these two positions with the highest idle speed.

Info

If there is a big engine speed rise, reduce the idle speed to a normal level and repeat the above steps. If the procedure described here does not lead to satisfactory results, the cause may be a wrongly dimensioned idling jet.

If you can turn the idle air adjusting screw to the end without any change of engine speed, mount a smaller idling jet.

After changing the idling jet, start from the beginning with the adjusting steps.

Following extreme air temperature or altitude changes, adjust the idle speed again.

15.5 Emptying the carburetor float chamber 🔌

Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Note

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

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

_

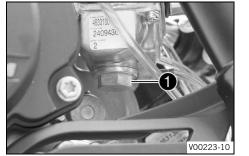
Info

Carry out work with a cold engine.

Water in the float chamber results in malfunctioning.

Preparatory work

- Turn the knurled screw on the fuel tap all the way clockwise. \checkmark No more fuel flows from the tank to the carburetor.



Main work Place a cloth under the carburetor to capture the draining fuel.

- _ Remove screw plug 1.
- Fully drain the fuel. -
- Mount and tighten the screw plug. _

16.1 Checking the gear oil level



Condition

The engine is cold.

Preparatory work

- Stand the motorcycle upright on a horizontal surface.

Main work

- Remove screw 1.
- Check the gear oil level.

A small quantity of gear oil must run out of the drilled hole.

» If no gear oil runs out:

– Add the gear oil. 🔌 (📖 p. 95)

Mount and tighten screw **1**.

Guideline

Screw, gear oil level monitoring	M6	6 Nm (4.4 lbf ft)
----------------------------------	----	-------------------

16.2 Changing the gear oil 🔌



Warning

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

- Wear suitable protective clothing and safety gloves.
- In the event of scalding, rinse the area affected immediately with lukewarm water.



Note

Environmental hazard Hazardous substances cause environmental damage.

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

• Info

Drain gear oil with engine at operating temperature.

Preparatory work

 Stand the motorcycle on the plug-in stand on a horizontal surface.

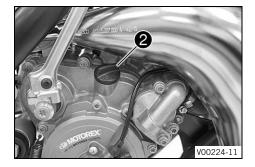


Main work

- Position an appropriate container under the engine.
- Remove oil drain plug ① with the magnet.
- Let the gear oil drain fully.
- Thoroughly clean the oil drain plug with magnet.
- Clean the sealing surface on the engine.
- Mount and tighten the oil drain plug with the magnet and new seal ring.

Guideline

Oil drain plug with	M12x1.5	20 Nm (14.8 lbf ft)
magnet		



Remove filler plug 2 with the O-ring, and fill up with gear oil.

mature wear to the transmission.

Too little gear oil or poor-quality gear oil results in pre-

Gear oil	0.50 I	Engine oil
	(0.53 qt.)	(15W/50)
		(🕮 p. 110)

Mount and tighten the filler plug together with the O-ring.



Info

i

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.
- Start the engine and check for leaks.

Finishing work

- Check the gear oil level. (
p. 94)

16.3 Adding the gear oil 🔌

Info

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

_

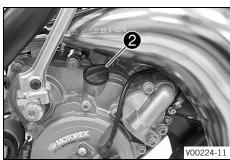


Preparatory work

Stand the motorcycle upright on a horizontal surface.

Main work

Remove screw 1.



- Remove filler plug 2 with the O-ring.
- Add gear oil until it flows out of the hole of the gear oil level plug.

Mount and tighten screw **1**. Guideline

Screw, gear oil level	M6	6 Nm (4.4 lbf ft)
monitoring		

Mount and tighten filler plug 2 with the O-ring.

16 SERVICE WORK ON THE ENGINE



Danger

Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use effective exhaust extraction when starting or running the engine in an enclosed space.

- Start the engine and check for leaks.

17.1 Cleaning the motorcycle

Note

Material damage Components become damaged or destroyed if a pressure cleaner is used incorrectly. The high pressure forces water into the electrical components, connectors, throttle cables, and bearings, etc. Pressure which is too high causes malfunctions and destroys components.

- Do not direct the water jet directly on to electrical components, connectors, throttle cables or bearings.
- Maintain a minimum distance between the nozzle of the pressure cleaner and the component.
 Minimum clearance
 60 cm (23.6 in)

Note

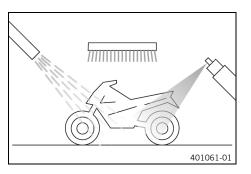
Environmental hazard Hazardous substances cause environmental damage.

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

Info

Clean the motorcycle regularly to maintain its value and appearance over a long period. Avoid direct sunshine when cleaning the motorcycle.

_



- Close off exhaust system to keep water from entering.
- Remove loose dirt first with a soft jet of water.
- Spray the heavily soiled parts with a normal commercial motorcycle cleaner and clean using a brush.

Motorcycle cleaner (🕮 p. 112)

Info

Use warm water containing normal motorcycle cleaner and a soft sponge.

Never apply motorcycle cleaner to a dry vehicle; always rinse the vehicle with water first.

- After rinsing the motorcycle with a gentle spray of water, allow it to dry thoroughly.
- Remove the closure of the exhaust system.
- Empty the carburetor float chamber. 🔌 (🕮 p. 92)



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Explain to your child that he or she must brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- After cleaning, your child should ride the vehicle a short distance until the engine warms up and until the brakes system has dried through careful application of the brakes.

17 CLEANING, CARE

• Info The

The heat produced causes water at inaccessible locations in the engine and on the brake system to evaporate.

- Push back the protection caps on the handlebar controls to allow water to evaporate.
- After the motorcycle has cooled down, lubricate all moving parts and pivot points.
- Clean the chain. (🕮 p. 55)
- Treat bare metal (except for brake discs and the exhaust system) with a corrosion inhibitor.

Preserving materials for paints, metal and rubber (${\color{black}(\textcircled{\mbox{\mathbb{R}}})}$ p. 112)

- Treat all plastic parts and powder-coated parts with a mild cleaning and care product.

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (IIII) p. 113)

18.1 Storage

Warning

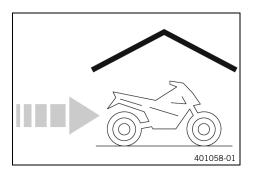
Danger of poisoning Fuel is poisonous and a health hazard.

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

Info

If you plan to garage the motorcycle for a longer period, perform the following steps or have them performed.

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.



 When refueling for the last time before taking the motorcycle out of service, add fuel additive.

Fuel additive (🕮 p. 112)

- Fill up with fuel. (🕮 p. 24)
- Clean the motorcycle. (IP p. 97)
- Change the gear oil. 🔌 (💷 p. 94)
- Check the antifreeze and coolant level. (
 p. 85)
- Empty the carburetor float chamber. A (
 p. 92)
- Check tire pressure. (
 p. 83)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

Info

i

KTM recommends jacking up the motorcycle.

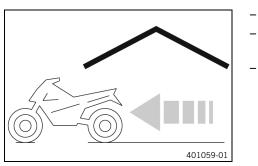
- Raise the motorcycle with a lift stand. (I p. 38)
- Cover the vehicle with a tarp or similar cover that is permeable to air.

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. Because the engine will not warm up sufficiently, the water vapor produced during combustion will condense, causing engine parts and the exhaust system to rust.

18 STORAGE

18.2 Preparing for use after storage



- Remove the motorcycle from the lift stand. (IP p. 38)

◀

Take a test ride.

Faults	Possible cause	Action
Engine turns but does not start	Operating error	 Carry out the start procedure. (I) p. 21)
	Motorcycle was out of use for a long time and there is old fuel in the float chamber	 Empty the carburetor float chamber. ◄ (
	Fuel feed interrupted	 Check the fuel tank breather.
		 Clean the fuel tap.
		 Check/set the carburetor components.
	Spark plug oily or wet	 Clean and dry the spark plug, or change it if necessary.
	Plug gap of spark plug too wide	 Adjust plug gap. Guideline Spark plug electrode gap 0.60 mm (0.0236 in)
	Fault in ignition system	 Check the ignition system. Adjust the ignition.
	Short-circuit cable in wiring harness frayed, switch-off but- ton faulty	– Check the switch-off button.
	The connector or ignition coil is loose or oxidized	 Clean the plug-in connection and treat it with contact spray.
	Water in carburetor or jets blocked	 Check/set the carburetor components.
Engine has no idle speed	Idling jet blocked	 Check/set the carburetor components.
	Adjusting screws on carburetor distorted	 Carburetor – adjust the idle speed. ((
	Spark plug defective	 Change spark plug.
	Ignition system defective	– Check the ignition coil. 🔌
		 Check the spark plug connector.
Engine does not speed up	Carburetor running over because float needle dirty or worn	 Check/set the carburetor components.
	Loose carburetor jets	 Check/set the carburetor components.
	Fault in ignition system	 Check the ignition system. Adjust the ignition.
Engine has too little power	Fuel feed interrupted	 Check the fuel tank breather.
		 Clean the fuel tap.
		 Check/set the carburetor components.
	Air filter very dirty	 Clean the air filter and air filter box. (p. 50)
	Exhaust system leaky, deformed or too little glass	 Check exhaust system for damage. Change the glass fiber yarn filling of
	fiber yarn filling in main silencer	the main silencer. 🔌 (🕮 p. 52)

Faults	Possible cause	Action
Engine has too little power	Fault in ignition system	– Check the ignition system. 🔧
		– Adjust the ignition. 🔧
	Diaphragm or reed valve hous-	- Check the diaphragm and reed valve
	ing damaged	housing.
	Noticeable wear	 Overhaul the engine.
Engine stalls or is popping into	Lack of fuel	- Turn the knurled screw on the fuel tap
the carburetor		all the way counterclockwise.
		- Fill up with fuel. (💷 p. 24)
	Engine takes in bad air	 Check the intake flange and carburetor for tightness.
	The connector or ignition coil is loose or oxidized	 Clean the plug-in connection and treat it with contact spray.
Engine overheats	Too little coolant in cooling sys-	- Check the cooling system for leakage.
	tem	 Check the coolant level. (
	Too little air stream	- Switch off engine when standing.
	Radiator fins very dirty	- Clean radiator fins.
	Foam formation in cooling sys-	– Drain the coolant. 🔌 (💷 p. 86)
	tem	 Refill with coolant. 🔌 (🕮 p. 87)
	Damaged cylinder head or cylinder head gasket	 Check the cylinder head or cylinder head gasket.
	Bent radiator hose	– Change the radiator hose. 🔌
	Incorrect ignition point due to loose stator	– Adjust the ignition. 🔌
White smoke emission (steam in exhaust gas)	Damaged cylinder head or cylinder head gasket	 Check the cylinder head or cylinder head gasket.
Gear oil exits at the vent hose	Too much gear oil added	- Check the gear oil level. (🕮 p. 94)
Water in the gear oil	Damaged radial shaft seal ring or water pump	 Check the radial shaft seal ring and the water pump.

20.1 Engine

Design	1-cylinder 2-stroke engine, water-cooled, with reed
	intake and exhaust control
Displacement	64.85 cm ³ (3.9574 cu in)
Stroke	40.8 mm (1.606 in)
Bore	45 mm (1.77 in)
Idle speed	1,400 1,500 rpm
Control	Exhaust control PCEV (Pneumatic Controlled Exhaust Valve)
Crankshaft bearing	2 grooved ball bearings
Conrod bearing	Needle bearing
Piston pin bearing	Needle bearing
Pistons	Aluminum cast
Piston rings	1 rectangular ring
Engine lubrication	Mixed lubrication
Primary transmission	23:75 straight cut spur gear wheel drive
Clutch	Multidisc clutch in oil bath/hydraulically activated
Gearbox	6-gear transmission, claw shifted
Transmission ratio	
1st gear	13:37
2nd gear	16:34
3rd gear	18:31
4th gear	21:30
5th gear	23:28
6th gear	24:26
Ignition	Non-contact controlled fully electronic ignition system with digital ignition adjustment
Spark plug	NGK LR 8 B
Spark plug electrode gap	0.60 mm (0.0236 in)
Cooling	Water-cooled
Starting aid	Kick starter lever

20.2 Engine tightening torques

Lower part of control valve	M4	4 Nm (3 lbf ft)	
			Loctite [®] 648™
Nut, exhaust control diaphragm	M5	4 Nm (3 lbf ft)	
Screw, clutch line holder	M5	5 Nm (3.7 lbf ft)	
Screw, diaphragm cover of exhaust control	M5	4 Nm (3 lbf ft)	
Screw, ignition system/stator	M5	5 Nm (3.7 lbf ft)	Loctite® 222™
Screw, main shaft bearing retainer	M5	6 Nm (4.4 lbf ft)	Loctite®243™
Screw, reed valve housing of exhaust control	M5	5 Nm (3.7 lbf ft)	

	1	
Screw, retaining bracket for return spring of shift shaft	M5	6 Nm (4.4 lbf ft) Loctite [®] 243™
Screw, shift drum locating	M5	6 Nm (4.4 lbf ft) Loctite [®] 243™
Screw, water pump impeller	M5	2 Nm (1.5 lbf ft) Loctite®243™
Drain plug, water pump cover	M6	6 Nm (4.4 lbf ft)
Screw, alternator cover	M6	8 Nm (5.9 lbf ft)
Screw, clutch intermediate cover	M6	10 Nm (7.4 lbf ft)
Screw, clutch slave cylinder	M6	8 Nm (5.9 lbf ft) Loctite®243™
Screw, clutch springs	M6	10 Nm (7.4 lbf ft)
Screw, engine case	M6	10 Nm (7.4 lbf ft)
Screw, engine sprocket cover	M6	10 Nm (7.4 lbf ft)
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft) Loctite [®] 243™
Screw, gear oil level monitoring	M6	6 Nm (4.4 lbf ft)
Screw, intake flange	M6	6 Nm (4.4 lbf ft)
Screw, kick starter lever stop piece	M6	10 Nm (7.4 lbf ft) Loctite [®] 243™
Screw, outer clutch cover	M6	10 Nm (7.4 lbf ft)
Screw, reed valve housing of exhaust control	M6	10 Nm (7.4 lbf ft)
Screw, shift drum bearing retainer	M6	5 Nm (3.7 lbf ft) Loctite [®] 243™
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft) Loctite [®] 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft) Loctite [®] 243™
Screw, water pump cover	M6	8 Nm (5.9 lbf ft)
Vacuum connection/vent connec- tion	M6	4 Nm (3 lbf ft) Loctite®243™
Screw, cylinder head	M7	18 Nm (13.3 lbf ft)
Nuts, cylinder base	M8	20 Nm (14.8 lbf ft)
Screw, kick starter lever	M8	20 Nm (14.8 lbf ft) Loctite®243™
Stud, cylinder base (left section of the engine case)	M8	Tightening sequence: screw in until it projects by 27 mm (1.063 in)
		Loctite [®] 243™
Stud, cylinder base (right section of the engine case)	M8	Tightening sequence: screw in until it projects by 29 mm (1.142 in)
		Loctite [®] 243™
Screw, inner clutch hub	M10	60 Nm (44.3 lbf ft) Loctite [®] 243™
Spark plug	M10x1	10 12 Nm (7.4 8.9 lbf ft)
Nut, rotor	M12x1	50 Nm (36.9 lbf ft)
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)

Nut, primary gear wheel	M14x1.25	40 Nm (29.5 lbf ft)	
			Loctite®243™

20.3 Carburetor

Carburetor type	MIKUNI TM 24
Needle position	2nd position from top
Idle air adjusting screw	
Open	3.5 turns
Main jet	210
Jet needle	5IPL43 (5N17)
Idling jet	20
Needle jet	Q-0 (454)
Throttle slide	2.5

20.3.1 Carburetor tuning

MIKUNI TM 24

ASL	TEMP	−20 … −7 °C (−4 … 19 °F)	−6 5 °C (21 41 °F)	6 15 °C (43 59 °F)	16 24 °C (61 75 °F)	25 36 °C (77 97 °F)	37 49 °C (99 120 °F)
2,301 3,000 m (7,549 9,843 ft)	ASO IJ NDL POS MJ	3.5 20 5N17 3 210	3.5 20 5N17 2 210	3.5 15 5N17 2 205	3.5 15 5N17 2 200	2.5 15 5N17 1 200	
1,501 2,300 m (4,925 7,546 ft)	ASO IJ NDL POS MJ	3.5 20 5N17 3 210	3.5 20 5N17 2 210	3.5 20 5N17 2 210	3.5 15 5N17 2 205	3.5 15 5N17 2 200	2.5 15 5N17 1 200
751 1,500 m (2,464 4,921 ft)	ASO IJ NDL POS MJ	3 25 5N17 3 215	3.5 20 5N17 3 210	3.5 20 5N17 2 210	3.5 20 5N17 2 210	3.5 15 5N17 2 205	3.5 15 5N17 2 200
301 750 m (988 2,461 ft)	ASO IJ NDL POS MJ	3 30 5N17 3 220	3 25 5N17 3 215	3.5 20 5N17 3 210	3,5 20 5N17 2 210	3.5 20 5N17 2 210	3.5 15 5N17 2 205
0 300 m (0 984 ft)	ASO IJ NDL POS MJ	3 30 5N17 3 225	3 25 5N17 3 215	3.5 20 5N17 3 210	3.5 20 5N17 2 210	3.5 20 5N17 2 210	3.5 15 5N17 2 205

ASL	Above sea level
TEMP	Temperature
ASO	Open (rotations) idle air adjusting screw
IJ	Idling jet
NDL	Jet needle

20 TECHNICAL DATA

POS	Needle position from top
MJ	Main jet

The carburetor tuning depends on the defined ambient and operating conditions.

20.4 Capacities

20.4.1 Gear oil

Gear oil	0.50 l (0.53 qt.)	Engine oil (15W/50) (🕮 p. 110)

20.4.2 Coolant

Coolant	0.55 l (0.58 qt.)	Coolant (p. 110)

20.4.3 Fuel

Fuel tank capacity, approx.	3.5 I (3.7 qt.)	Super unleaded (95 octane) mixed
		with 2-stroke engine oil (1:60)
		(🕮 p. 111)

20.5 Fork

Fork article number		07.18.6U.03		
Fork		WP XACT 5235		
Rebound damping				
Comfort		15 clicks		
Standard		12 clicks		
Sport		10 clicks		
Air pressure		3 bar (44 psi)		
Fork length		735 mm (28.94 in)		
Spring length with preload spacer(s)	377.5 mm (14.8	'.5 mm (14.862 in)	
Oil capacity external mechanism left	40 ± 15 ml (1.35 ± 0.51 fl. oz.)		Fork oil (SAE 4) (48601166S1) (📖 p. 111)	
Oil capacity, right cartridge	240 ml (8.11 fl. oz.)		Fork oil (SAE 4) (48601166S1) (
Grease capacity, left cartridge	6 g (0.21 oz)		Special grease (00062010053) (, p. 113)	

20.6 Shock absorber

Shock absorber article number	03.18.7T.03	
Shock absorber	WP XACT 5735	
Low-speed compression damping		
Comfort	18 clicks	
Standard	15 clicks	
Sport	12 clicks	
High-speed compression damping		
Comfort	2.5 turns	
Standard	2 turns	

Sport	1.5 turns
Rebound damping	
Comfort	18 clicks
Standard	15 clicks
Sport	12 clicks
Spring preload	5 mm (0.2 in)
Spring rate	
Weight of rider: 35 kg (77 lb.)	35 N/mm (200 lb/in)
Weight of rider: 40 kg (88 lb.)	40 N/mm (228 lb/in)
Weight of rider: 45 kg (99 lb.)	45 N/mm (257 lb/in)
Spring length	210 mm (8.27 in)
Gas pressure	10 bar (145 psi)
Static sag	30 mm (1.18 in)
Riding sag	70 mm (2.76 in)
Fitted length	347 mm (13.66 in)
Shock absorber fluid (🕮 p. 111)	SAE 2.5

20.7 Chassis

Frame	Central tube frame of chrome molybdenum steel tub-
	ing, powder-coated
Fork	WP XACT 5235
Shock absorber	WP XACT 5735
Suspension travel	
front	215 mm (8.46 in)
rear	270 mm (10.63 in)
Fork offset	22 mm (0.87 in)
Brake system	
front	Disc brake with 4-piston brake caliper
rear	Disc brake with 4-piston brake caliper
Brake disc diameters	
front	198 mm (7.8 in)
rear	160 mm (6.3 in)
Brake discs - wear limits	
front	2.5 mm (0.098 in)
rear	2.5 mm (0.098 in)
Offroad tire pressure	
front	1.0 bar (15 psi)
rear	1.0 bar (15 psi)
Secondary drive ratio	14:48
Chain	1/2 x 1/4" O-ring
Rear sprockets available	46, 48, 50
Steering head angle	64.5°
Wheelbase	1,137 mm (44.76 in)
Seat height unloaded	750 mm (29.53 in)

Ground clearance unloaded	280 mm (11.02 in)
Weight without fuel approx.	53 kg (117 lb.)
Maximum rider weight	50 kg (110 lb.)

20.8 Tires

Front tire	Rear tire
60/100 - 14 M/C 30M TT	80/100 - 12 41M TT
MAXXIS MAXX CROSS SI	MAXXIS MAXX CROSS SI

The tires specified represent one of the possible series production tires. Additional information is available in the Service section under:

http://www.ktm.com

20.9 Chassis tightening torques

Hose clip, carburetor	-	2.8 Nm (2.07 lbf ft)
Screw, brake line bracket	EJOT	1.7 Nm (1.25 lbf ft)
Screw, switch-off button	МЗ	0.4 Nm (0.3 lbf ft)
Spoke nipple	M3.5	3 Nm (2.2 lbf ft)
Screw, throttle slide cover	M4	2 Nm (1.5 lbf ft)
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)
Nut, push rod, foot brake lever	M6	6 Nm (4.4 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Screw, ball joint of push rod on	M6	10 Nm (7.4 lbf ft)
foot brake cylinder		Loctite [®] 243™
Screw, chain sliding guard	M6	10 Nm (7.4 lbf ft)
Screw, clutch master cylinder	M6	5 Nm (3.7 lbf ft)
Screw, fender	M6	6 Nm (4.4 lbf ft)
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft)
Screw, fork stub	M6	10 Nm (7.4 lbf ft)
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)
		Loctite [®] 243™
Screw, front brake linings	M6	10 Nm (7.4 lbf ft)
Screw, fuel tank spoiler on radiator	M6	6 Nm (4.4 lbf ft)
Screw, hand brake cylinder	M6	5 Nm (3.7 lbf ft)
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)
		Loctite [®] 243™
Screw, rear brake lining	M6	10 Nm (7.4 lbf ft)
Screw, throttle grip	M6	4.5 Nm (3.32 lbf ft)
Start number plate screw	M6	4 Nm (3 lbf ft)
Fitting, engine mounting bracket	M8	30 Nm (22.1 lbf ft)
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)
Nut, rim lock	M8	10 Nm (7.4 lbf ft)
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)

Screw, engine bracket	M8	30 Nm (22.1 lbf ft)	_
			Loctite [®] 2701™
Screw, engine sprocket cover	M8	15 Nm (11.1 lbf ft)	
Screw, front brake caliper	M8	20 Nm (14.8 lbf ft)	
			Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	
Screw, rear brake caliper	M8x20	18 Nm (13.3 lbf ft)	_
			Loctite [®] 243™
Screw, rear brake caliper	M8x40	18 Nm (13.3 lbf ft)	
			Loctite [®] 243™
Screw, rear sprocket	M8	25 Nm (18.4 lbf ft)	@0.40TM
			Loctite [®] 243™
Screw, steering stem	M8	20 Nm (14.8 lbf ft)	
Screw, subframe	M8	35 Nm (25.8 lbf ft)	
			Loctite [®] 2701™
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)	
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	
Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)	
			Loctite®243™
Screw, foot brake lever	M10	35 Nm (25.8 lbf ft)	
			Loctite [®] 243™
Screw, front wheel spindle	M10	40 Nm (29.5 lbf ft)	
			Loctite [®] 243™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	
			Loctite [®] 243™
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	L
			Loctite [®] 243™
Nut, swingarm pivot	M12x1	40 Nm (29.5 lbf ft)	
Nut, rear wheel spindle	M14x1.5	40 Nm (29.5 lbf ft)	
Nut, steering head	M20x1.5	10 Nm (7.4 lbf ft)	

Brake fluid DOT 4 / DOT 5.1

Standard/classification

- DOT

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Guideline
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 Use only brake fluid that complies with the specified standard (see specifications on the container) and that exhibits the corresponding properties.

Recommended supplier

Castrol

– REACT PERFORMANCE DOT 4

MOTOREX®

Brake Fluid DOT 5.1

Coolant

Guideline

- Only use high-grade, silicate-free coolant with corrosion inhibitor additive for aluminum motors. Low grade and unsuitable antifreeze causes corrosion, deposits and frothing.
- Do not use pure water as only coolant is able to meet the requirements needed in terms of corrosion protection and lubrication properties.
- Only use coolant that complies with the requirements stated (see specifications on the container) and that has the relevant properties.

Antifreeze protection to at least	-25 °C (-13 °F)
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The mixture ratio must be adjusted to the necessary antifreeze protection. Use distilled water if the coolant needs to be diluted.

The use of premixed coolant is recommended.

Observe the coolant manufacturer specifications for antifreeze protection, dilution and miscibility (compatibility) with other coolants.

Recommended supplier MOTOREX® – COOLANT M3.0

OUDEANT MO.O

Engine oil (15W/50)

Standard/classification

- JASO T903 MA2 (🕮 p. 114)
- SAE (p. 114) (15W/50)

Guideline

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

Recommended supplier MOTOREX®

Top Speed 4T

Engine oil, 2-stroke

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Standard/classification
```

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– JASO FD (🕮 p. 114)
```

Guideline

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

Fully synthetic

Recommended supplier MOTOREX®

Cross Power 2T

Fork oil (SAE 4) (48601166S1)

Standard/classification

– SAE (🕮 p. 114) (SAE 4)

Guideline

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

Shock absorber fluid (SAE 2.5) (50180751S1)

Standard/classification

– SAE (📖 p. 114) (SAE 2.5)

Guideline

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

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

Standard/classification

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

Guideline

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



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

Super unleaded (95 octane) mixed with 2-stroke engine oil (1:60)

Standard/classification

- DIN EN 228
- JASO FD (🕮 p. 114) (1:60)

Mixture ratio

1:60	Engine oil, 2-stroke (📖 p. 110)
	Super unleaded (ROZ 95/RON 95/PON 91) (🕮 p. 111)

Recommended supplier MOTOREX®

- Cross Power 2T

22 AUXILIARY SUBSTANCES

Air filter cleaner

Recommended supplier MOTOREX®

Racing Bio Dirt Remover

Chain cleaner

Recommended supplier MOTOREX® – Chain Clean

Fuel additive

Recommended supplier MOTOREX® – Fuel Stabilizer

High viscosity grease

Recommended supplier SKF[®] – LGHB 2

Long-life grease

Recommended supplier MOTOREX® – Bike Grease 2000

Motorcycle cleaner

Recommended supplier MOTOREX® – Moto Clean

Off-road chain spray

Recommended supplier MOTOREX® – Chainlube Offroad

Oil for foam air filter

Recommended supplier MOTOREX® – Racing Bio Liquid Power

Preserving materials for paints, metal and rubber

Recommended supplier MOTOREX®

Moto Protect

Rubber grip adhesive (00062030051)

Recommended supplier KTM AG - GRIP GLUE

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces

Recommended supplier MOTOREX® – Quick Cleaner

Special grease (00062010053)

Recommended supplier Klüber Lubrication® – KLÜBERFOOD NH1 34-401

Universal oil spray

Recommended supplier MOTOREX®

- Joker 440 Synthetic

23 STANDARDS

JASO T903 MA2

Different technical development directions required a separate specification for motorcycles – the **JASO T903 MA2** standard.

Earlier, engine oils from the automobile industry were used for motorcycles because there was no separate motorcycle specification.

Whereas long service intervals are demanded for automobile engines, the focus for motorcycle engines is on high performance at high engine speeds.

In most motorcycle engines, the transmission and clutch are lubricated with the same oil.

The JASO T903 MA2 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.

JASO FD

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

Art. no.	Article number
ca.	circa
cf.	compare
e.g.	for example
etc.	et cetera
i.a.	inter alia
no.	number
poss.	possibly

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