50 SX 50 SX Mini

Art. no. 3211854en





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

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

Enter the serial numbers of your vehicle below.

Chassis number (* p. 10)	Dealer's stamp
F : 10)	
Engine number (* p. 10)	

The Owner's Manual corresponded to the latest state of this series at the time of printing. Slight deviations resulting from continuing development and design can, however, not be completely excluded.

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ISO 9001(12 100 6061)

According to the international quality management standard ISO 9001, KTM uses quality assurance processes that lead to the maximum possible quality of the products.

Issued by: TÜV Management Service

KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

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1.1 Symbols used

The symbols used are explained in the following.



Indicates an expected reaction (e.g., to a work step or a function).



Indicates an unexpected reaction (e.g., to a work step or a function).



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. There, your motorcycle will be serviced optimally by specially trained experts using the specialist tools required.



Identifies a page reference (more information is provided on the specified page).

1.2 Formats used

The typographical and other formats used are explained in the following.

Proper name Identifies a proper name.

Name® Identifies a protected name.

Brand™ Identifies a brand in merchandise traffic.

2 SAFETY ADVICE 5

2.1 Use definition - intended use

KTM sport motorcycles are designed and built to withstand the normal stresses and strains of competitive use. The motorcycles comply with currently valid regulations and categories of the top international motorsport organizations.



Info

The motorcycle may only be used in closed off areas remote from public road traffic.

2.2 Safety advice

A number of safety instructions need to be followed to operate the vehicle safely. Therefore, read this manual carefully. The safety instructions are highlighted in the text and are referred to at the relevant passages.



Info

The vehicle has various information and warning labels at prominent locations. Do not remove information/warning labels. If they are missing, you or others may not recognize dangers and may therefore be injured.

2.3 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.



Warning

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

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

2.5 Safe operation



Danger

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

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



Dangei

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

 When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system. 2 SAFETY ADVICE



Warning

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

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

6

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.

2.6 Protective clothing



Warning

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

Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. Always
wear protective clothing that is in good condition and meets the legal requirements.

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

2.7 Work rules

Special tools are necessary for certain tasks. The tools are not contained in the vehicle but can be ordered under the number in parentheses. E.g.: bearing puller (15112017000)

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

In some instances, a thread locker (e.g. Loctite®) is required. The manufacturer instructions for use must be followed.

After disassembly, clean the parts that are to be reused and check them for damage and wear. Change damaged or worn parts. After you complete the repair or service work, check the operating safety of the vehicle.

2.8 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.

2.9 Owner's Manual

It is important that you read this Owner's Manual carefully and completely before making your first trip. The Owner's Manual contains useful information and many tips on how to operate, handle, and maintain your motorcycle. Only then will you find out how to customize the vehicle ideally for your own use and how you can protect yourself 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 should be handed over to the new owner if the vehicle is sold.

3.1 Guarantee, warranty

The work prescribed in the service schedule must be carried out by an authorized KTM workshop only and confirmed in the customer's service record and in the **KTM dealer.net**; otherwise, all warranty claims will be void. No warranty claims can be considered for damage resulting from manipulations and/or alterations to the vehicle.

Additional information on the guarantee or warranty and the procedures involved can be found in the service record.

3.2 Operating and auxiliary substances



Warning

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

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

Use operating and auxiliary substances (such as fuel and lubricants) as specified in the Owner's Manual.

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 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. Incorrect adjustment and tuning of the engine and chassis can lead to damage and breakage of components.

Use of the vehicle under difficult conditions, such as on sand or on wet and muddy surfaces, can lead to considerably more rapid 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.

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

4.1 View of the vehicle from the left front (example)



1	Filler cap
2	Quick release of seat
3	Fuel tap (* p. 13)
4	Choke (♥ p. 14)
5	Plug-in stand (* p. 14)
6	Chain guide

4.2 View of the vehicle from the right rear (example)



1	Kill switch (♥ p. 12)
2	Throttle grip (* p. 12)
3	Hand brake lever (♥ p. 12)
4	Chassis number (♥ p. 10)
5	Shock absorber rebound adjustment
6	Level viewer for brake fluid, rear
7	Foot brake lever (♥ p. 14)
8	Kickstarter (♥ p. 14)

5.1 Chassis number



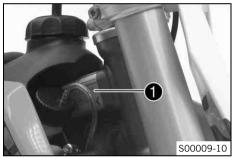
The chassis number **1** is stamped on right of the steering head.

5.2 Type label



(50 SX)

The type label **1** is located on the front frame tube.



(50 SX Mini)

The type label lacktriangle is located on the frame at the front right.

5.3 Engine number



The engine number **1** is stamped on the left side of the engine under the engine sprocket.

5.4 Fork part number



The fork part number lacktriangle is stamped on the outside of the axle clamp.

5.5 Shock absorber part number



The shock absorber part number $oldsymbol{0}$ is stamped on the top of the shock absorber above the adjusting ring towards the rear.

6 CONTROLS 12

6.1 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.

6.2 Throttle grip



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

6.3 Kill switch



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

Possible states

- Kill switch ⋈ in basic position In this position, the ignition circuit is closed, and the engine can be started.
- Kill switch ⋈ pressed In this position, the ignition circuit is interrupted, a running engine stops, and a non-running engine will not start.

6.4 Opening filler cap



Danger

Fire hazard Fuel is highly flammable.

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel. Store fuel in a suitable canister according to regulations and keep it out of the reach of children.

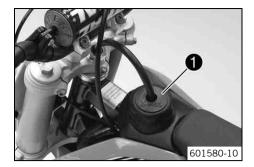


Warning

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

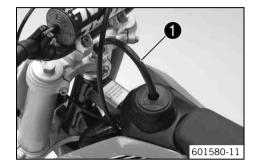
Do not allow fuel to get into the ground water, the ground, or the sewage system.

6 CONTROLS



Turn the tank cap • counterclockwise and pull it up.

6.5 Closing filler cap



Put the tank cap on and turn it clockwise.



Info

Run the fuel tank breather hose **1** without kinks.

6.6 Opening oil tank cap (50 SX Mini)



- Turn the oil tank cap **1** counterclockwise and pull it up.

6.7 Closing oil tank cap (50 SX Mini)



Put the oil tank cap on and turn it clockwise.



Info

Run the oil tank breather hose **1** without kinks.

6.8 Fuel tap



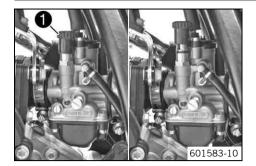
Fuel tap 1 is on the left of the fuel tank.

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.

6 CONTROLS 14

6.9 Choke (50 SX)



The choke knob • is fitted on the left of the carburetor.

Activating the choke function frees an opening through which the engine can draw extra fuel. This results in a richer fuel-air mixture, which is needed for a cold start.



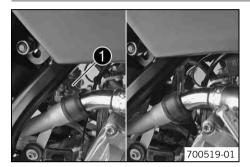
Info

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

Possible states

- Choke function activated Choke knob is in upper position. The O-ring is visible.
- Choke function deactivated Choke knob is in lower position. No O-ring is visible.

6.10 Choke (50 SX Mini)



The choke lever **1** is fitted on the right of the carburetor.

Activating the choke function frees an opening through which the engine can draw extra fuel. This results in a richer fuel-air mixture, which is needed for a cold start.



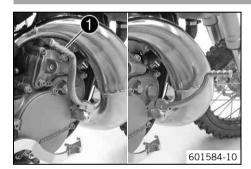
Info

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

Possible states

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

6.11 Kickstarter



The kickstarter **1** is fitted on the right of the engine.

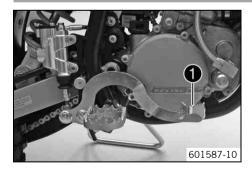
The kickstarter can be swiveled.



Info

Before riding, swing the kickstarter inwards towards the engine.

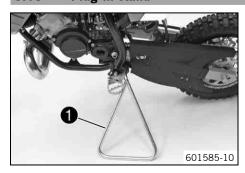
6.12 Foot brake lever



Foot brake lever **1** is located in front of the right footrest.

The foot brake lever is used to activate the rear brake.

6.13 Plug-in stand



The fixture for the plug-in stand • 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.

7.1 Advice on first use



Warning

Danger of accidents Physical and mental readiness of a child.

- Your child must be able to ride a bicycle and must be able to erect the vehicle independently after a fall. In addition, your child must understand the regulations and instructions from you or from other guardians. Do not ask too much of your child; participation in competitive activities should not be considered until your child's stamina, riding techniques and motivation are at the necessary levels. Children often underestimate or fail to recognize dangerous situations; make it clear to your child that it should not, under any circumstances, operate the vehicle without supervision and that your child may only drive at speeds that are commensurate with the child's riding abilities and the road conditions.
- Only let your child ride on the vehicle if it is physically and mentally ready to operate the vehicle.



Warning

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

Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the vehicle. You and your child should always used protective clothing 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 Poor vehicle handling due to different tire tread patterns on front and rear wheels.

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



Warning

Danger of accidents Critical riding behavior due to inappropriate riding.

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



Warning

Danger of accidents Accident risk caused by presence of a passenger.

Your vehicle is not designed to carry passengers. Do not ride with a passenger.



Warning

Danger of accidents Brake system failure.

If the foot brake lever is not released, the brake linings drag continuously. The rear brake may fail due to overheating.
 Ensure that your child raises his or her foot from the foot brake lever when the child does not want to brake.



Warning

Danger of accidents Destruction of chassis components.

Do not exceed the maximum allowable rider weight.



Warning

Risk of misappropriation Usage by unauthorized persons.

Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons.



Info

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

- Make sure that the pre-delivery inspection work has been carried out by an authorized KTM workshop.
 - ✓ You receive a delivery certificate and the service record at vehicle handover.
- Carefully read the entire owner's manual together with your child before going for the first ride.



Info

Pay special attention to the safety warnings and injury risks.

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 hand brake lever. (* p. 45)
- Adjust the basic position of the foot brake lever. ⁴ (p. 50)
- Before using the vehicle for the first time, ensure that the basic settings of the chassis are suitable for the weight of your child.
- Accustom your child to the handling of the motorcycle on suitable terrain, preferably on a large open meadow.



Info

To give your child a feel 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 drive 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 vehicle.
- Do not let your child ride on terrain that exceed 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.
- Do not exceed the maximum allowable rider weight.

Guideline

Maximum rider weight	< 35 kg (< 77 lb.)
Maximum rider size	< 130 cm (< 51.2 in)

Check the spoke tension. (* p. 57)



nfo

The spoke tension must be checked after riding the motorcycle for half an hour.

Run the engine in. (♥ p. 16)

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 each use, check the condition of the vehicle and its operating safety. The vehicle must be in perfect technical condition when it is being operated.

Check the gear oil level. (* p. 69)

(50 SX Mini)

- Check the oil level. (♥ p. 68)
- Check the front brake fluid level. (* p. 46)
- Check the rear brake fluid level. (* p. 51)
- Check the front brake linings. (* p. 48)
- Check the rear brake linings. (* p. 52)
- Check that the brake system is functioning properly.
- Check the coolant level. (* p. 60)
- Check the chain dirt accumulation. (* p. 38)
- Check the chain, rear sprocket, engine sprocket, and chain guide. (* p. 40)
- Check the chain tension. (* p. 39)
- Check the tire condition. (** p. 56)
- Check the tire air pressure. (* p. 57)
- Check the spoke tension. (♥ p. 57)
- Clean the dust boots of the fork legs. (* p. 27)
- 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 supply.

8.2 Starting



Danger

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

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

Note

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

- Always warm up the engine at low engine speeds.



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.

Engine has been out of use for more than 1 week

- Empty the carburetor float chamber. ⁴ (p. 65)
- Turn the knurled screw on the fuel tap all the way counterclockwise.
 - Fuel can flow from the fuel tank to the carburetor.

The engine is cold

Raise the motorcycle with a lift stand. (* p. 27)



Info

The rear wheel must not be in contact with the ground.

(50 SX)

Pull the choke knob fully out and turn it by max. ¼ turn.

(50 SX Mini)

- Push the choke lever up all the way.
- Forcefully step on the kick starter, pushing it all the way forward.



Info

Do not open the throttle.

8.3 Starting up



Info

The plug-in stand must be removed before beginning to ride.

Open the throttle carefully.

8.4 Riding



Info

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

- If the choke function was activated, deactivate it after the engine has warmed up.
- When you reach maximum speed after fully opening the throttle, turn back the throttle to about ¾ of its range. The speed hardly drops, but the fuel consumption falls considerably.
- Your child should always open the throttle only as much as the engine can handle abruptly opening the throttle increases fuel consumption.
- Your child should switch off the engine if he or she expects to be standing for a long time.

Guideline

≥ 2 min

8.5 Braking



Warning

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

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



Warning

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

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



Warning

Danger of accidents Reduced braking efficiency due to a wet or dirty brake system.

- Clean or dry a dirty or wet brake system by riding and braking gently.
- On sandy, wet or slippery surfaces, use the rear brake.
- Braking should always be completed before you go into a bend.

8.6 Stopping, parking



Warning

Risk of misappropriation Usage by unauthorized persons.

- Never leave the vehicle while the engine is running. Secure the vehicle against use by unauthorized persons.



Warning

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

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

Note

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

Always place the vehicle on a firm and even surface.

Note

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

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

Note

Material damage Damage and destruction of components due to excessive load.

- The plug-in stand is designed for the weight of the motorcycle only. You or your child should not sit on the motorcycle when it is standing on the plug-in stand. The plug-in stand and/or the frame could be damaged and the motorcycle could fall over.
- Brake the motorcycle.
- Press and hold the kill switch ⊗ 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 Transport

Note

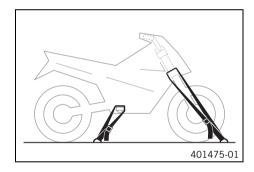
Danger of damage The parked vehicle may roll away or fall over.

Always place the vehicle on a firm and even surface.

Note

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

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



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

8.8 Refueling



Danger

Fire hazard Fuel is highly flammable.

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

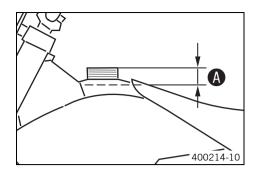
Avoid contact of the fuel with skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



Warning

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

- Do not allow fuel to get into the ground water, the ground, or the sewage system.
 - Switch off the engine.
 - Open the filler cap. (* p. 12)



Fill the fuel tank with fuel up to measurement ①.

Measurement of 4		35 mm (1.38 in)			
Fuel tank capacity, approx. (50 SX Mini)	2.0 l (2.1 qt.)	Super unleaded (ROZ 95/RON 95/PON 91) (p. 82)			
Fuel tank capacity, approx. (50 SX)	2.3 l (2.4 qt.)	Super unleaded gasoline, mixed with 2-stroke engine oil (1:60) (* p. 82)			

Close the filler cap. (♥ p. 13)

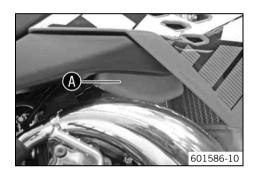
8.9 Filling up with oil (50 SX Mini)



Warning

Engine failure If the vehicle is run without 2-stroke oil in the tank, the result is engine failure.

- The oil tank must always be filled up to the **MIN** mark.



- Switch off the engine.
- Open the oil tank cap. (* p. 13)
- Fill the oil tank at least up to the MIN mark 4.
 Guideline

MIN mark		Sufficient for a single tank filling		
Oil tank contents ca.	0.2 l (0.2 qt.)	2-stroke engine oil (p. 81)		

Close the oil tank cap. (* p. 13)

9.1 Service schedule

Check the front brake linings. (** p. 48) Check the rear brake linings. (** p. 52) Check the brake discs. (** p. 46) Check the brake linings. (** p. 52) Check the brake linings. (** p. 52) Check the rear brake lining. Seleves of the foot brake cylinder. Change the sear brake fluid. Check the rear brake fluid level. (** p. 51) Check the rear brake lining seleves of the foot brake cylinder. Check the rear brake lining levels of the foot brake cylinder. Check the rear brake fluid level. (** p. 50) Check the frame and swingarm. Check the start and swingarm. Check the start and swingarm. Check the start in joints on the upper and lower shock absorbers. Service the fork. Service the fork. Check the tree condition. (** p. 56) Check the tree condition. (** p. 57) Check the tree tree condition. (** p. 57) Check the brain, rear spocket, engine sprocket, and chain guide. (** p. 40) Check the chain tresion. (** p. 57) Check the chain tension. (** p. 39) Lubricate all moving parts (e. g. hand levers, chain,) and check for smooth operation. Check the play of the handbrake lever. (** p. 46) Check the play of the handbrake lever. (** p. 45) Grease the steering head bearing. (** p. 32) Check the play of the handbrake lever. (** p. 45) Grease the steering head bearing. (** p. 32) Check the play of the handbrake lever. (** p. 52) Check the gaar oil level. (** p. 69) Check the spark plug connector. Change the paston. Change the paston. Check the transmission. Check the transmission. Check the intake membrane. Check the cables for damage, routing without sharp bends. Check the cables for damage, routing without sharp bends. Check the cables for damage, routing without sharp bends. C		S10N	\$20A	\$40A	\$80A	J1A
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SERVICE SCHEDULE 9

	\$10N	S20A	S40A	\$80A	J1A
Check/set the carburetor components.					•
Check idle.	•	•	•	•	
Check the clutch setting. ⁴ (▼ p. 65)		•	•	•	
Final inspection: check the vehicle for operating safety and take a test ride.	•	•	•	•	
Create a service entry in the KTM DEALER.NET and in the service record.	•	•	•	•	

S10N: Once after 10 operating hours S20A: Every 20 operating hours S40A: Every 40 operating hours S80A: Every 80 operating hours J1A: Annually

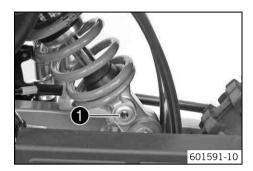
10.1 Adjusting the rebound damping of the shock absorber



Caution

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

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



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

Guideline

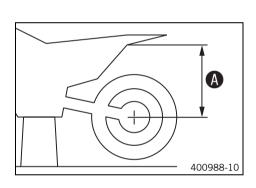
Rebound damping (50 SX)		
Standard	10 clicks	
Rebound damping (50 SX Mini)		
Standard	12 clicks	



Info

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

10.2 Measuring rear wheel sag unloaded



Preparatory work

Raise the motorcycle with a lift stand. (♥ p. 27)

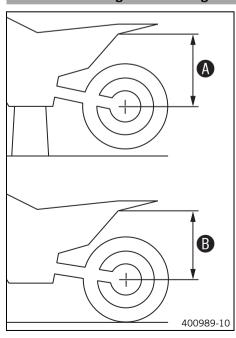
Main work

- Measure the distance as vertical as possible between the rear axle and a fixed point, for example, a mark on the side cover.
- Make a note of the value as measurement ...

Finishing work

Remove the motorcycle from the lift stand. (♥ p. 27)

10.3 Checking the static sag of the shock absorber



- Measure distance
 of rear wheel unloaded. (* p. 23)
- Hold the motorcycle in a vertical position with the assistance of another person.
- Measure the distance between the rear axle and the fixed point again.
- Make a note of the value as measurement **3**.



Info

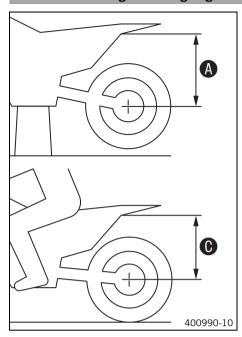
The static sag is the difference between measurements **3** and **3**.

Check the static sag.

Static sag (50 SX)	20 mm (0.79 in)
Static sag (50 SX Mini)	15 mm (0.59 in)

- If the static sag is less or more than the specified value:

10.4 Checking the riding sag of the shock absorber



- Measure distance of rear wheel unloaded. (* p. 23)
- With another person holding the motorcycle, the rider sits down on the saddle in full protective clothing in a normal sitting position (feet on footrests) and bounces up and down a few times.
 - ✓ The rear wheel suspension levels out.
- Another person now measures the distance between the rear axle and a fixed point.
- Make a note of the value as measurement •.

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Info

The riding sag is the difference between measurements $oldsymbol{\Theta}$ and $oldsymbol{\Theta}$.

Check the riding sag.

Riding sag (50 SX)	45 55 mm (1.77 2.17 in)
Riding sag (50 SX Mini)	40 50 mm (1.57 1.97 in)

- » If the riding sag differs from the specified measurement:
 - Adjust the riding sag. 4 (* p. 25)

10.5 Adjusting the spring preload of the shock absorber 🔌



Caution

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

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

Preparatory work

- Raise the motorcycle with a lift stand. (♥ p. 27)
- Remove shock absorber. 4 (* p. 34)
- After removing the shock absorber, clean it thoroughly.

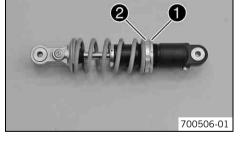
Main work

- 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.



- Measure the overall spring length when not under tension.
- Tighten the spring by turning adjusting ring 2 to the specified measurement.
 Guideline

Spring preload (50 SX)			
Standard 3 mm (0.12 in)			
Spring preload (50 SX Mini)			
Standard	5 mm (0.2 in)		



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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.

Tighten retaining ring ①.

Finishing work

- Install shock absorber. 4 (* p. 34)
- Remove the motorcycle from the lift stand. (* p. 27)

10.6 Adjusting the riding sag 🔌

Preparatory work

- Raise the motorcycle with a lift stand. (♥ p. 27)
- Remove shock absorber. 🔌 (* p. 34)
- After removing the shock absorber, clean it thoroughly.

Main work

B00292-10

Choose and mount a suitable spring.

Guideline

Spring rate (50 SX)	
Weight of rider: 15 25 kg (33 55 lb.)	30 N/mm (171 lb/in)
Weight of rider (standard): 25 35 kg (55 77 lb.)	35 N/mm (200 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	40 N/mm (228 lb/in)
Spring rate (50 SX Mini)	
Weight of rider: 15 25 kg (33 55 lb.)	65 N/mm (371 lb/in)
Weight of rider (standard): 25 35 kg (55 77 lb.)	75 N/mm (428 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	85 N/mm (485 lb/in)



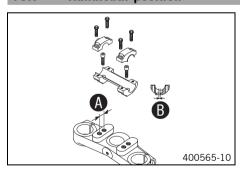
Info

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 shock absorber. 🔌 (🕶 p. 34)
- Remove the motorcycle from the lift stand. (* p. 27)
- Check the static sag of the shock absorber. (* p. 23)
- Check the riding sag of the shock absorber. (* p. 24)
- Adjust the rebound damping of the shock absorber. (** p. 23)

10.7 Handlebar position



On the upper triple clamp, there are 2 holes at a distance of **1** to each other.

Distance **4** between holes 15 mm (0.59 in)

The holes on the handlebar support are placed at a distance of **9** from the center.

Distance **3** between holes 3.5 mm (0.138 in)

The handlebar supports can be mounted in 4 different positions.

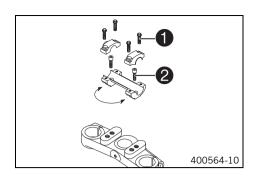
10.8 Adjusting handlebar position 🔌



Warning

Danger of accidents Handlebar breakage.

 If the handlebar is bent or straightened it will cause material fatigue, and the handlebar can break. Always replace handlebar.



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



Info

Protect the motorcycle and its attachments from damage by covering them. Do not bend the cables and lines.

- Remove the two screws 2. Remove the handlebar support.
- Place the handlebar support in the required position. Mount and tighten the two screws ②.

Guideline

Screw, handlebar support	M10	40 Nm	Loctite® 243™
		(29.5 lbf ft)	

Position the handlebar.



Info

Make sure cables and wiring are positioned correctly.

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

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



Info

Make sure the gap width is even.

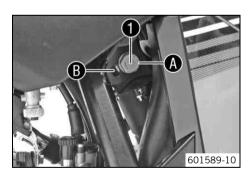
10.9 Adjusting seat height 🔌



Warning

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

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



Preparatory work

Raise the motorcycle with a lift stand. (* p. 27)

Main work

- Hold the rear wheel with the swingarm and remove screw ①.
- Position the shock absorber according to the required seat height.

Guideline

Low seat position (standard)	A
High seat position	3

Mount and tighten screw ①.

Guideline

Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)
---------------------------	-----	------------------------

Finishing work

Remove the motorcycle from the lift stand. (* p. 27)

11.1 Raising the motorcycle with a lift stand

Note

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

Always place the vehicle on a firm and even surface.



- Raise the motorcycle at the frame underneath the engine.

Lift stand (59229055000)

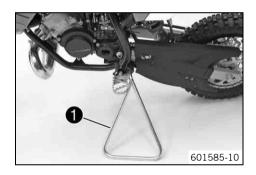
- ✓ The tires should no longer be in contact with the ground.
- Secure the motorcycle against falling over.

11.2 Removing the motorcycle from the lift stand

Note

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

Always place the vehicle on a firm and even surface.



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



Info

Remove the plug-in stand before riding.

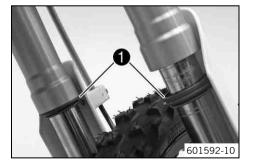
11.3 Cleaning the dust boots of the fork legs

Preparatory work

Raise the motorcycle with a lift stand. (♥ p. 27)



Push dust boots • of both fork legs downwards.





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



Warning

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

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

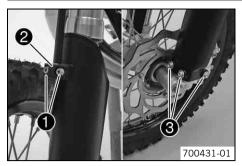
Universal oil spray (* p. 84)

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

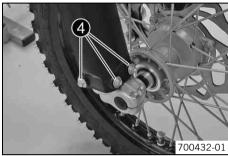
Finishing work

Remove the motorcycle from the lift stand. (* p. 27)

11.4 Removing the fork protector 🔦

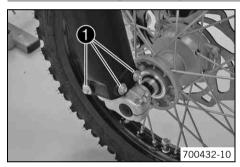


- Remove screws ①. Take off clamp ②.
- Remove screws 3 on the left fork leg. Take off the fork protector.



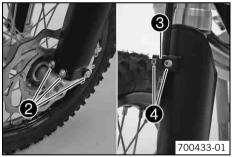
Remove screws 4 on the right fork leg. Take off the fork protector.

11.5 Installing the fork protector 🔏



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

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



- Position the fork protection on the left fork leg. Mount and tighten screws ②. Guideline

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

- Position the brake line. Mount clamp 3.
- Mount the screws 4.

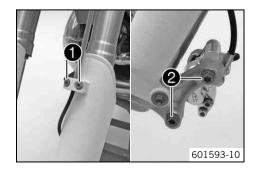
11.6 Removing the fork legs 🔦

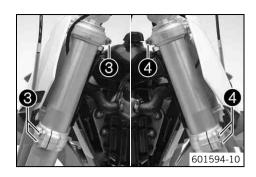


- Raise the motorcycle with a lift stand. (♥ p. 27)
- Remove the front wheel. ⁴ (p. 55)

Main work

- Remove screws and take off the clamp.
- Remove screws 2 and take off the brake caliper.
- Hang the brake caliper and the brake line loosely to the side.





- Loosen screws 3. Remove the left fork leg.
- Loosen screws 4. Remove the right fork leg.

11.7 Installing the fork legs 🔏



Main work

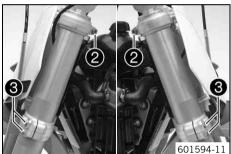
Position the fork legs.



Info

The upper milled groove in the fork leg must be flush with the top edge of the upper triple clamp.

Position bleeder screws **1** to the front.



Tighten screws 2.

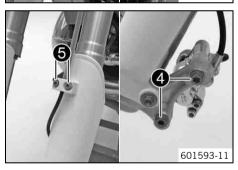
Guideline

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

Tighten screws 3.

Guideline

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



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

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

Position the brake line. Put the clamp on, and mount and tighten screws 6.

Finishing work

- Install the front wheel. ♣ (p. 55)

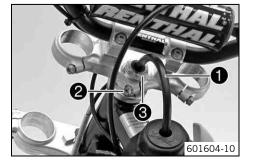
11.8 Removing the lower triple clamp 🔌

Preparatory work

- Raise the motorcycle with a lift stand. (♥ p. 27)
- Remove the front wheel. ⁴ (* p. 55)
- Remove the fork legs. ⁴ (▼ p. 28)
- Dismount the start number plate. (* p. 33)
- Dismount the front fender. (* p. 33)

Main work

- Remove fuel tank breather ①.
- Loosen screw ②. Remove nut ③, take off the top triple clamp with the handlebar, and place it on one side.





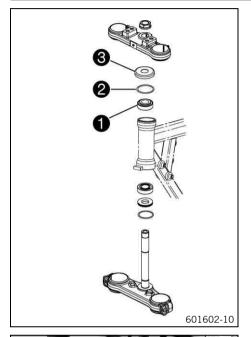
Info

Protect the motorcycle and its attachments from damage by covering them. Do not bend the cables and lines.



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

11.9 Installing the lower triple clamp 🔏



Main work

- Clean the bearing and sealing elements, check for damage, and grease.

High viscosity grease (♥ p. 83)

- Insert the lower triple clamp with the steering stem. Mount the upper steering head bearing •.
- Check whether the top steering head seal 2 is correctly positioned.
- Slide on protective ring 3.



- Position the upper triple clamp with the steering.
- Mount nut 4, but do not tighten it yet.



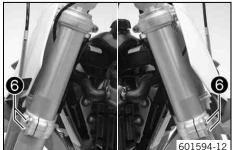
- Position the fork legs.



Info

The upper milled groove in the fork leg must be flush with the top edge of the upper triple clamp.

Position bleeder screws **6** to the front.



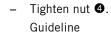
- Tighten screws **6**.

Guideline

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







Nut, steering head	M20x1.5	No play ≤ 9 Nm (≤ 6.6 lbf ft)	Only applies when using: Key for steer- ing head bearing
			(45229050000)

- Position the fuel tank breather **3**.
- Tighten screw 8.

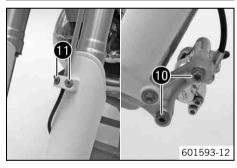
Guideline

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



Tighten screws 9. Guideline

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



Position brake caliper, and mount and tighten screws **1**0. Guideline

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

- Position the brake line and clamp. Mount and tighten screws **1**.
- Install the front fender. (* p. 33)
- Install the start number plate. (* p. 33)

Finishing work

- Check that the wiring harness, cables, and brake and clutch lines can move freely and are routed correctly.
- Install the front wheel. 4 (* p. 55)
- Check play of steering head bearing. (** p. 31)
- Remove the motorcycle from the lift stand. (* p. 27)

11.10 Checking play of steering head bearing



Warning

Danger of accidents Unstable vehicle handling from incorrect steering head bearing play.

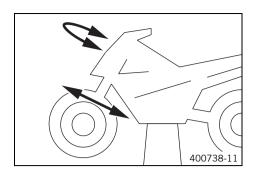
Adjust the steering head bearing play without delay. (Your authorized KTM workshop will be glad to help.)



If the bike is ridden with play in the steering head bearing, the bearing and the bearing seats in the frame can become damaged over time.

Preparatory work

Raise the motorcycle with a lift stand. (* p. 27)



Main work

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

No play should be noticeable in the steering head bearing.

- » If there is noticeable play present:
 - Adjust the play of the steering head bearing. ⁴ (♥ p. 32)
- Move the handlebar to and fro over the entire steering range.

The handlebar must be able to move easily over the entire steering range. No resting locations should be noticeable.

- » If click positions are noticeable:
 - Adjust the play of the steering head bearing. ⁴ (p. 32)
 - Check the steering head bearing and replace if required.

Finishing work

- Remove the motorcycle from the lift stand. (♥ p. 27)

11.11 Adjusting the play of the steering head bearing 4

C00056-10

Preparatory work

Raise the motorcycle with a lift stand. (♥ p. 27)

Main work

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

Guideline

Nut, steering head	M20x1.5	≤ 9 Nm	Only applies when using: Key for steer- ing head bearing (45229050000)
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- Using a plastic hammer, tap lightly on the upper triple clamp to avoid strains.
- Tighten screw 3.

Guideline

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

Tighten screws ②.

Guideline

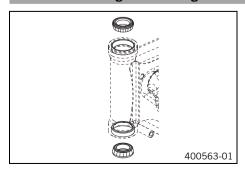
Screw, top triple clamp	M8	20 Nm
		(14.8 lbf ft)

Position the fuel tank breather ①.

Finishing work

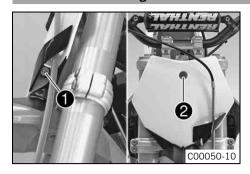
- Check play of steering head bearing. (* p. 31)
- Remove the motorcycle from the lift stand. (* p. 27)

11.12 Greasing the steering head bearing 🔌



- Remove the lower triple clamp. 🔌 (* p. 29)
- Install the lower triple clamp. ⁴ (p. 30)

11.13 Dismounting the start number plate

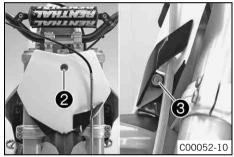


- Remove screw and take off clamp.
- Remove screw 2. Remove the start number plate.

11.14 Installing the start number plate



Position the start number plate with the drill holes onto the holding lugs • of the fender.

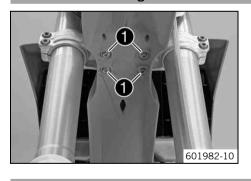


Mount and tighten screw ②.
 Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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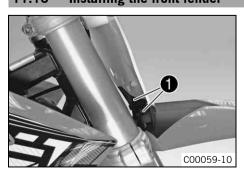
Position the brake line. Put the clamp on, mount and tighten screw 8.

11.15 Dismounting the front fender

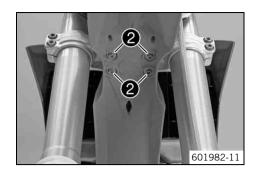


Remove screws 1. Remove the front fender.

11.16 Installing the front fender



 Position the fender with holding lugs • into the drill holes on the start number plate.



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

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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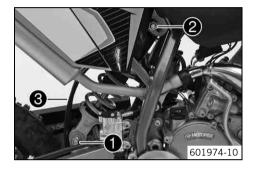
11.17 Removing the shock absorber 🔏

Preparatory work

Raise the motorcycle with a lift stand. (* p. 27)

Main work

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



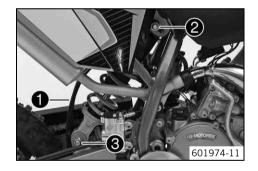
11.18 Installing shock absorber 🔦



Warning

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

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



Main work

Push the splash protector • to the side and position the shock absorber according
to the desired seat height. Mount and tighten screw •.

Guideline

Screw, top shock absorber	M10	45 Nm
·		(33.2 lbf ft)

Mount and tighten screw 3.

Guideline

Screw, bottom shock absorber	M10	45 Nm
		(33.2 lbf ft)

Finishing work

Remove the motorcycle from the lift stand. (* p. 27)

11.19 Removing the seat



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

11.20 Mounting the seat



Hook the seat onto screw • and lower the seat at the rear while pushing it forward.
 Projection • hooks into the fuel tank.



- Close quick release 3.

11.21 Removing the air filter 🔌

Note

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

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Preparatory work

- Remove the seat. (♥ p. 34)

Main work

- Press the rear holding lugs together slightly and swing the air filer cover upward.
 Pull out the front holding lug and take off the air filter cover.
- Take off the air filter.

11.22 Installing the air filter 4



Main work

- Position the clean air filter.
- Position the rear holding lug. Lower the air filter cover and allow the front holding lug • to snap in.



Info

If the air filter is not correctly mounted, dust and dirt can enter the engine and cause damage.

Finishing work

Mount the seat. (* p. 35)

11.23 Cleaning the air filter and air filter box 🔌



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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

Preparatory work

- Remove the seat. (* p. 34)
- Remove the air filter. ⁴ (▼ p. 35)

Main work

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

Air filter cleaner (p. 83)



Info

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

Oil the dry air filter with a high quality filter oil.

Oil for foam air filter (p. 84)

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

Finishing work

- Install the air filter. 4 (* p. 35)
- Mount the seat. (* p. 35)

11.24 Removing main silencer



Warning

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

- Allow the exhaust system to cool down. Do not touch hot components.

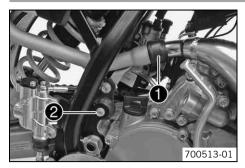


- Remove screw ①.
- Remove screw 2.



- Pull the main silencer off of the manifold at the rubber sleeve **3**.

11.25 Installing the main silencer



- Position the main silencer.
- Mount the main silencer with the rubber sleeve ①.
- Mount the silentblock with the screw 2.
 Guideline

Remaining sciews, chassis MO 10 Mil (7.4 lbl it)		Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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- Position the collar sleeves.
- Mount and tighten screw 3.
 Guideline

11.26 Changing the glass fiber yarn filling of the main silencer 🔌

700514-01



Warning

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

- Allow the exhaust system to cool down. Do not touch hot components.



Info

Over a period, the fibers of the insulating material vanish into the air, and the silencer "burns out". Not only is the noise level higher, the performance characteristic changes.



Preparatory work

Remove the main silencer. (* p. 36)

Main work

- Remove screws **1** of locking cap **2**. Remove locking cap and outer tube **3**.
- Pull the glass fiber yarn filling 4 from the inner tube.
- Clean the parts that are to be reinstalled.
- Mount the new glass fiber yarn filling on the inner tube.
- Slide the outer tube over the glass fiber yarn filling.
- Insert the locking cap into the outer tube.
- Mount and tighten the screws with the toothed washers.

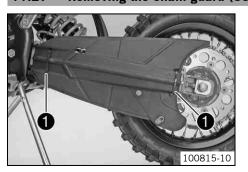
 Guideline

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

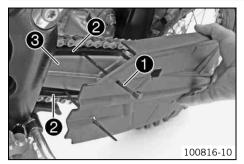
Install the main silencer. (* p. 37)

11.27 Removing the chain guard (50 SX)



- Remove cable binder ①.
- Take off the chain guard.

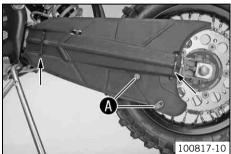
11.28 Installing the chain guard (50 SX)



Position the chain guard. Mount cable binder **1**.



The cable binder must be run between chain sliding guard 2 and swingarm **3**.



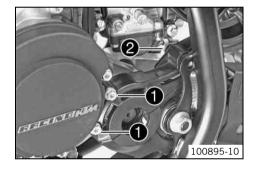
- Mount the cable binder at the rear.
- Align the chain guard so that screws **1** of the chain guide are visible.
- Tighten the cable binder and cut off the ends.

11.29 Removing the engine sprocket cover 🔏

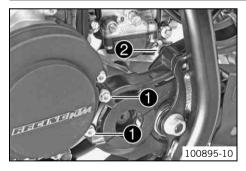
Preparatory work

Raise the motorcycle with a lift stand. (** p. 27)

- Remove screws 1.
- Remove screw 2.
- Take off the engine sprocket cover.



Installing the engine sprocket cover 🔌 11.30



- Position the engine sprocket cover. Mount screws 1 but do not tighten yet.
- Mount and tighten screw 2.

Guideline

Screw, engine sprocket cover	M8	12 Nm (8.9 lbf ft)
Tighten screws ① .		

Guideline

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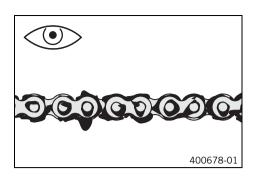
Finishing work

Remove the motorcycle from the lift stand. (* p. 27)

11.31 Checking the chain for dirt

Preparatory work (50 SX)

Remove the chain guard. (* p. 37)



- Check the chain for coarse dirt accumulation.
 - If the chain is very dirty:
 - Clean the chain. (* p. 39)

Finishing work (50 SX)

Install the chain guard. (* p. 38)

11.32 Cleaning the chain



Warning

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

Remove oil and grease with a suitable cleaning material.



Warning

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

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



Warning

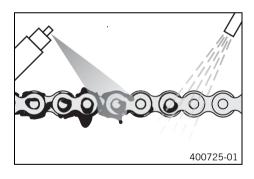
Environmental hazard Hazardous substances cause environmental damage.

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



Info

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



Clean the chain regularly and then treat with chain spray.

Chain cleaner (p. 83)
Off-road chain spray (p. 83)

11.33 Checking the chain tension



Warning

Danger of accidents Danger caused by incorrect chain tension.

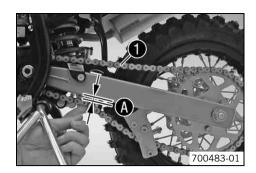
— If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break.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

Preparatory work

Raise the motorcycle with a lift stand. (▼ p. 27)

(50 SX)

Remove the chain guard. (* p. 37)



Push the chain at the end of the chain sliding component upward to measure the chain tension (A).



Info

The upper chain section **1** must be taut.

Because chain wear is not always even, repeat this measurement at different chain positions.

Chain tension	5 8 mm (0.2 0.31 in)
---------------	----------------------

- If the chain tension does not meet specifications:
 - Adjust the chain tension. (* p. 40)

Finishing work (50 SX)

- Install the chain guard. (* p. 38)
- Remove the motorcycle from the lift stand. (* p. 27)

11.34 **Adjusting chain tension**



Warning

Danger of accidents Danger caused by incorrect chain tension.

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

Preparatory work

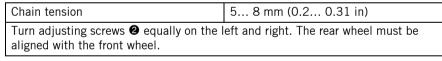
Raise the motorcycle with a lift stand. (* p. 27)

- Remove the chain guard. (* p. 37)
- Check the chain tension. (* p. 39)

Main work

- Loosen nut 1.
- Adjust the chain tension by turning adjusting screws 2 left and right.

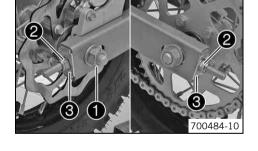
Guideline



- Make sure that the chain adjuster support plates 3 are in contact with adjusting screws 2.
- Tighten nut **1**.

Guideline

Nut, rear wheel spindle	M12x1	40 Nm
·		(29.5 lbf ft)



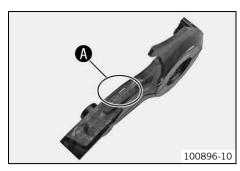
11.35 Checking the chain, rear sprocket, engine sprocket and chain guide

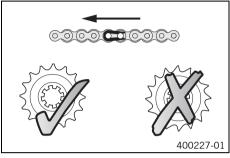
Preparatory work

Raise the motorcycle with a lift stand. (* p. 27)

(50 SX)

- Remove the chain guard. (p. 37)
- Remove the engine sprocket cover. 4 (* p. 38)





- Check the engine sprocket cover for wear.
 - » If the engine sprocket cover is worn through in the marked area **①**:
 - Change the engine sprocket cover.
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Change the rear sprocket or engine sprocket.



Info

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

When fitting the chain joint, always make sure that the closed side of the joint faces forward (riding direction).

- Check the chain for wear.
 - » If the chain is worn:
 - Change the chain.



Info

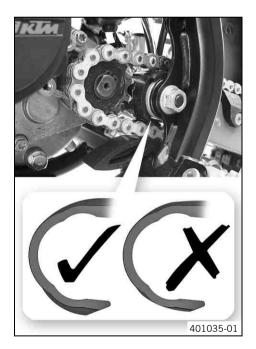
When you replace the chain, you should also change the rear sprocket and engine sprocket.

New chains wear out faster on old, worn sprockets.

- Check the chain sliding guard for wear.
 - » If the ridge is worn down to the level of the main corpus:
 - Change the chain sliding guard. 🔌
- Check the chain sliding guard for tightness.
 - » If the chain sliding guard is loose:
 - Tighten the chain sliding guard.

Guideline

Screw, chain sliding piece	M6	3 Nm
		(2.2 lbf ft)

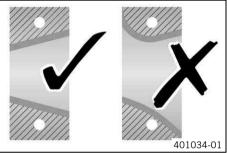




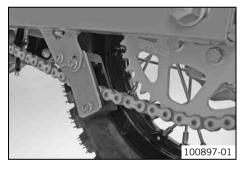
- Check the chain sliding piece for wear.
 - » If the lower edge of the chain pins is in line with or below the chain sliding piece:
 - Change the chain sliding piece. 🔌
- Check the chain sliding piece for tightness.
 - » If the chain sliding piece is loose:
 - Tighten the chain sliding piece.

Guideline

Screw, chain sliding piece	M8	15 Nm
		(11.1 lbf ft)



- Check the chain guide for wear.
 - » If the chain guide is worn down to the top or bottom edge:
 - Change the chain guide.



- Check the chain guide for tightness.
 - » If the chain guide is loose:
 - Tighten the chain guide.
 Guideline

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

Finishing work

Install the engine sprocket cover. ⁴ (▼ p. 38)

(50 SX

- Install the chain guard. (♥ p. 38)
- Remove the motorcycle from the lift stand. (♥ p. 27)

11.36 Adjusting the chain guide 🔌

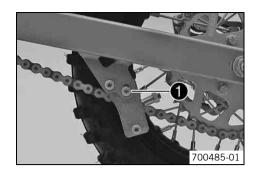


Info

The size of the chain wheel varies with the number of teeth. The chain guide can be adjusted on small sprockets.

Preparatory work (50 SX)

- Remove the chain guard. (* p. 37)



- Loosen screw ①.
- Position the chain guide.
- Tighten screw.
 Guideline

Remaining screws, chassis

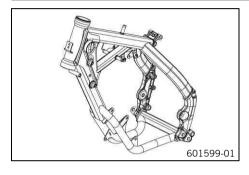
M6

10 Nm (7.4 lbf ft)

Finishing work (50 SX)

Install the chain guard. (* p. 38)

11.37 Checking the frame 🔏



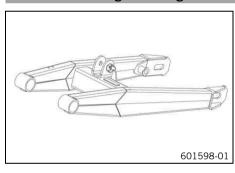
- Check the frame for cracking and deformation.
 - » If the frame exhibits cracking or deformation due to a mechanical impact:
 - Change the frame. 🔌



Info

A frame that has been damaged due to a mechanical impact must always be changed. Repair of the frame is not authorized by KTM.

11.38 Checking the swingarm 🔦



- Check the swingarm for damage, cracking, and deformation.
 - » If the swingarm exhibits damage, cracking, or deformation:
 - Change the swingarm. 🔌



Info

Always replace a damaged swingarm. Repair of the swingarm is not authorized by KTM.

11.39 Checking the throttle cable routing

Preparatory work

- Remove the seat. (* p. 34)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove the fuel tank. 🔌

Main work

- Check the throttle cable routing.

The throttle cable must be routed to the carburetor behind the handlebars above the fuel tank bearing.

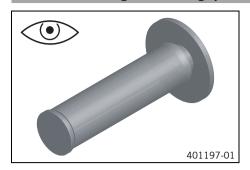
- » If the throttle cable is not routed as specified:
 - Correct the throttle cable routing.



Finishing work

- 🛮 Install the fuel tank. 🔌
- Mount the seat. (* p. 35)

11.40 Checking the rubber grip



- Check the rubber grips on the handlebar for damage, wear, and looseness.
 - » If a rubber grip is damaged, worn, or loose:
 - Change and secure the rubber grip.

Rubber grip adhesive (00062030051) (* p. 84)

11.41 Additionally securing the rubber grip

Preparatory work

- Check the rubber grip. (♥ p. 44)

Main work

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

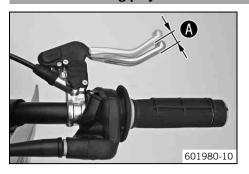
Securing wire (54812016000)

Wire twister forceps (U6907854)

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



12.1 Checking play of handbrake lever

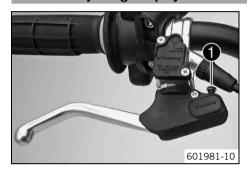


Push the handbrake lever forwards and check the play **a**.

Play of hand brake lever 3... 5 mm (0.12... 0.2 in)

- » If the play does not meet specifications:
 - Adjust the play of the hand brake lever. (* p. 45)

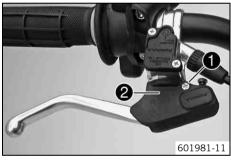
12.2 Adjusting the play of the hand brake lever



- Check the play of the handbrake lever. (* p. 45)
- Adjust the play of the hand brake lever with the adjusting screw ①.
 Guideline

Play of hand brake lever	3 5 mm (0.12 0.2 in)

12.3 Adjusting the basic position of the hand brake lever



Remove screw ①. Take off cover ②.



Adjust the basic position of the hand brake lever with adjusting screw 6 to the rider's hand size.



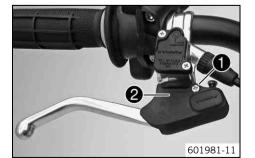
Info

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.

Check the play of the handbrake lever. (p. 45)



Position cover ②. Mount and tighten screw ①.

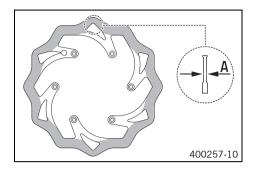
12.4 Checking brake discs



Warning

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

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



 Check the thickness of the front and rear brake discs at several places on the disc to see if it conforms to measurement .



Info

Wear reduces the thickness of the brake disc around the area used by 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 brake disc.
- Check the front and rear brake discs for damage, cracking and deformation.
 - » If the brake disk exhibits damage, cracking or deformation:
 - Change the brake disc.

12.5 Checking front brake fluid level



Warning

Danger of accidents Brake system failure.

If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system
is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your
authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

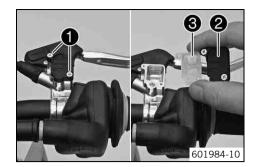
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.



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

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

- » If the brake fluid level does not meet specifications:
 - Add front brake fluid. 4 (* p. 47)
- Position the cover with the membrane. Mount and tighten the screws.



Info

Clean up overflowed or spilt brake fluid immediately with water.

12.6 Adding front brake fluid 🔌



Warning

Danger of accidents Brake system failure.

If the brake fluid level drops below the specified marking or the specified value, this is an indication that the brake system
is leaking or that the brake linings are completely worn down. Check the brake system and do not continue riding. (Your
authorized KTM workshop will be glad to help.)



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

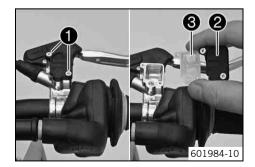
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.



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

Guideline

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

Brake fluid DOT 4 / DOT 5.1 (* p. 81)

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



Info

Clean up overflowed or spilt brake fluid immediately with water.

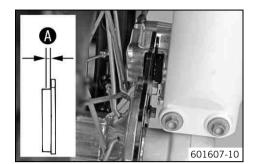
12.7 Checking the front brake linings



Warning

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

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



Check the brake linings for minimum thickness **a**.

Minimum thickness

≥ 1 mm (≥ 0.04 in)

- If the minimum thickness is less than specified:
 - Change the front brake linings. [→] (* p. 49)
- Check the brake linings for damage and cracking.
 - » If damage or wear is encountered:
 - Change the front brake linings. ⁴ (▼ p. 49)

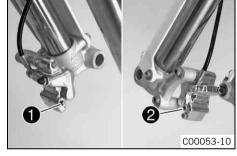
12.8 Removing front brake linings 🔏

Preparatory work

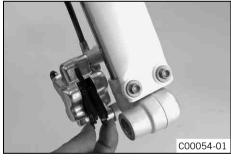
- Raise the motorcycle with a lift stand. (* p. 27)
- Remove the front wheel. (* p. 55)

Main work

- Remove the lock washer ①.
- Remove screw 2.



Remove the brake linings.Clean brake caliper and brake caliper support.



12.9 Installing the front brake linings 🔏



Warning

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

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



Warning

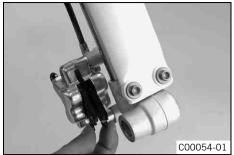
Danger of accidents Reduced braking efficiency due to use of non-approved brake linings.

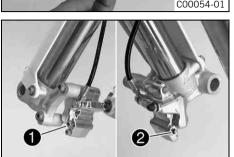
Brake linings available from accessory suppliers are often not tested and approved for use on KTM vehicles. The construction and friction factor of the brake linings and therefore the brake power can differ considerably from the original KTM brake linings. If brake linings are used that differ from the originals, there is no guarantee that they comply with the original license. The vehicle no longer corresponds to the condition at delivery, and the warranty is no longer valid.

Preparatory work

Check the brake discs. (* p. 46)

12 BRAKE SYSTEM





Main work

- Insert the brake linings.



Info

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

49

Mount screw ①.

Guideline

Screw, brake linings	M5	8 Nm (5.9 lbf ft)

Fit the lock washer ②.

Finishing work

Install the front wheel. 4 (* p. 55)

12.10 Changing the front brake linings 🔌



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

C00055-10

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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

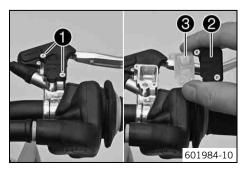
Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.

Preparatory work

- Raise the motorcycle with a lift stand. (* p. 27)
- Remove the front wheel. 🔌 (🕶 p. 55)
- Remove the front brake linings. ⁴ (* p. 48)

Main work

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws ①.
- Remove cover 2 with membrane 3.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir.
- Install the front brake linings. [→] (* p. 48)
- Correct the brake fluid level.



Guideline

Brake fluid level under top level of con-	5 mm (0.2 in)
tainer	

Brake fluid DOT 4 / DOT 5.1 (* p. 81)

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



Info

Clean up overflowed or spilt brake fluid immediately with water.

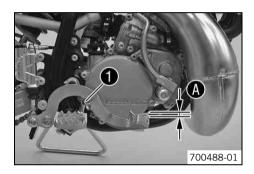
12.11 Checking the free travel of the foot brake lever



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake may fail due to
overheating. Adjust the free travel on foot brake lever according to specifications.



- Disconnect spring ①.
- Move the foot brake lever back and forth between the end stop and the foot brake cylinder piston bracket and check free travel $oldsymbol{\Theta}$.

Guideline

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

- » If the free travel does not meet specifications:
 - Adjust the free travel of the foot brake lever. 4 (* p. 50)
- Attach spring ①.

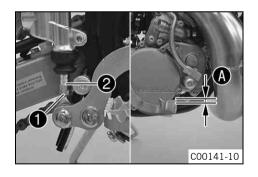
12.12 Adjusting the free travel of the foot brake lever 🔌



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake may fail due to
overheating. Adjust the free travel on foot brake lever according to specifications.



- Detach the spring.
- Loosen nut 1.
- Turn push rod ② until clearance ③ is created.
 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 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:
 - Adjust the basic position of the foot brake lever. ⁴ (♥ p. 50)

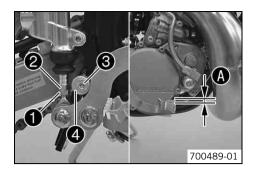
12.13 Adjusting the basic position of the foot brake lever 🔌



Warning

Danger of accidents Brake system failure.

If there is no free travel on the foot brake lever, pressure builds up on the rear brake circuit. The rear brake may fail due to
overheating. Adjust the free travel on foot brake lever according to specifications.



- Detach the spring.
- Loosen nut ①.
- Turn back push rod 2 until free travel is at a maximum.
- For an individual adjustment of the basic position of the foot brake lever, loosen the screw 3 and turn the eccentric brake lever stop 4 accordingly.
- Tighten screw 3.

Guideline

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

Turn push rod ② until clearance ③ is created.

Guideline

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

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

12.14 Checking rear brake fluid level



Warning

Danger of accidents Failure of the brake system.

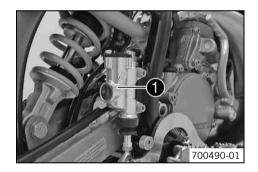
- If the brake fluid level falls below the **MIN** mark, this indicates a leakage in the brake system or worn-out brake linings. Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



- Stand the vehicle upright.
- Check the brake fluid level in the viewer ①.
 - » When an air bubble is visible in the viewer 1:
 - Add rear brake fluid. 4 (* p. 51)

12.15 Adding rear brake fluid 🔌



Warning

Danger of accidents Failure of the brake system.

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



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

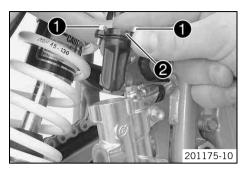
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



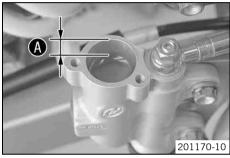
Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.



- Raise the motorcycle with a lift stand. (♥ p. 27)
- Remove screws 1.
- Take off cover **2** with washer **3** and membrane **4**.



Add brake fluid to level **4**.

Guideline

Dimension (a) (brake fluid level below top edge of container)	10 mm (0.39 in)
--	-----------------

Brake fluid DOT 4 / DOT 5.1 (* p. 81)

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



Info

Clean up overflowed or spilt brake fluid immediately with water.

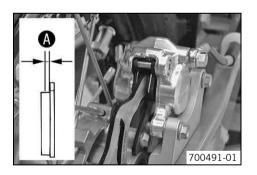
12.16 Checking the rear brake linings



Warning

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

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



Check the brake linings for minimum thickness **a**.

Minimum thickness A

≥ 1 mm (≥ 0.04 in)

- » If the minimum thickness is less than specified:
 - Change the rear brake linings. ⁴ (▼ p. 54)
- Check the brake linings for damage and cracking.
 - » If damage or wear is encountered:
 - Change the rear brake linings. ⁴ (p. 54)

12.17 Removing rear brake linings 🔌

Preparatory work

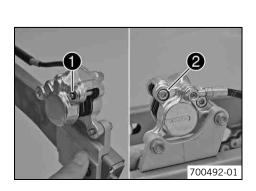
Raise the motorcycle with a lift stand. (* p. 27)

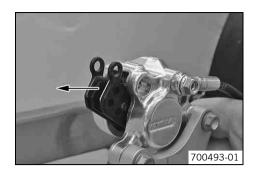
(50 SX)

- Remove the chain guard. (* p. 37)
- Remove the rear wheel. 🔌 (🕶 p. 56)

Main work

- Remove the lock washer ①.
- Remove screw 2.





- Remove the brake linings.
- Clean brake caliper and brake caliper support.

12.18 Installing the rear brake linings 🔏



Warning

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

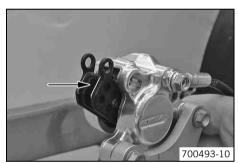
Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



Varning

Danger of accidents Reduced braking efficiency due to use of non-approved brake linings.

Brake linings available from accessory suppliers are often not tested and approved for use on KTM vehicles. The construction and friction factor of the brake linings and therefore the brake power can differ considerably from the original KTM brake linings. If brake linings are used that differ from the originals, there is no guarantee that they comply with the original license. The vehicle no longer corresponds to the condition at delivery, and the warranty is no longer valid.



Preparatory work

- Check the brake discs. (* p. 46)

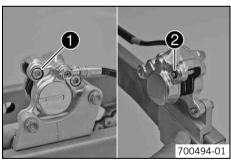
Main work

- Insert the brake linings.



Info

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



Mount screw ①.

Guideline

Screw, brake linings M5 8 Nm (5.9 lbf ft)

Mount lock washer ②.

Finishing work

- Install the rear wheel. ⁴ (p. 56)

(50 SX

- Install the chain guard. (* p. 38)
- Remove the motorcycle from the lift stand. (* p. 27)

12.19 Changing the rear brake linings 🔌



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

- Avoid contact with skin and eyes, and keep out of the reach of children.
- Wear suitable protective clothing and goggles.
- If brake fluid comes into contact with the eyes, flush the eyes thoroughly with water and consult a physician immediately.



Warning

Danger of accidents Reduced braking efficiency due to old brake fluid.

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint! Use only clean brake fluid from a sealed container.

Preparatory work

Raise the motorcycle with a lift stand. (♥ p. 27)

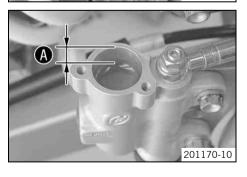
(50 SX)

- Remove the chain guard. (* p. 37)
- Remove the rear wheel. 🔌 (* p. 56)
- Remove the rear brake linings. 4 (* p. 52)



RemovMain work

- Remove screws ①.
- Take off cover 2 with washer 3 and membrane 4.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir.
- Install the rear brake linings. 4 (* p. 53)



Add brake fluid to level A.

Guideline

201175-10

Dimension ♠ (brake fluid level below top edge of container) 10 mm (0.39 in)

Brake fluid DOT 4 / DOT 5.1 (p. 81)

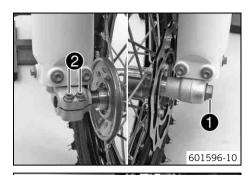
 Position the membrane and the cover with the washer. Mount and tighten the screws.



Info

Clean up overflowed or spilt brake fluid immediately with water.

13.1 Removing the front wheel 🔌

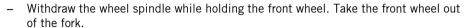


Preparatory work

Raise the motorcycle with a lift stand. (♥ p. 27)

Main work

- Remove screw ①.
- Loosen screws ②.





Info

Do not pull the hand brake lever when the front wheel is removed. Always lay the wheel down in such a way that the brake disc is not damaged.

13.2 Installing the front wheel 🔏



Warning

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

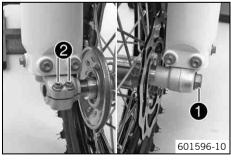
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is broken or worn:
 - Change the wheel bearing.
 - Clean and grease wheel spindle.

Long-life grease (p. 83)

Lift the front wheel into the fork, position it, and insert wheel spindle.



Mount and tighten screw ①.

Guideline

Front wheel spindle nut	M10	40 Nm
		(29.5 lbf ft)

- Operate the hand brake lever several times until the brake linings are in contact with the brake disc.
- Remove the motorcycle from the lift stand. (* p. 27)
- Pull the front wheel brake and push down hard on the fork several times to align the fork legs.
- Tighten screws 2.

Guideline

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

13.3 Removing rear wheel 🔌

Preparatory work

Raise the motorcycle with a lift stand. (* p. 27)

(50 SX

Remove the chain guard. (* p. 37)

Main work

- Remove nut ①.
- Remove the washer ②.
- Pull out the wheel spindle 3 with the washer 4.
- Remove the chain from the rear sprocket.
- Take the rear wheel out of the swing arm.



Info

Do not operate the foot brake when the rear wheel is removed. Always lay the wheel down in such a way that the brake disc is not damaged.

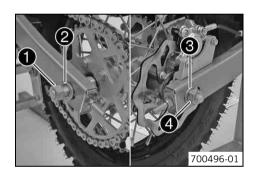
13.4 Installing the rear wheel 🔌



Warning

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

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



Main work

- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is broken or worn:
 - Change the wheel bearing.
- Clean and grease wheel spindle ①.

Long-life grease (* p. 83)

- Lift the rear wheel into the swingarm and place the chain on the rear sprocket.
- Insert the wheel spindle with the washer •.
- Position washer 3. Mount nut 4, but do not tighten it yet.
- Make sure that the chain adjuster supports are fitted correctly on the adjusting screws
- Check the chain tension. (* p. 39)
- Tighten nut 4.

Guideline

Nut, rear wheel spindle	M12x1	40 Nm
		(29.5 lbf ft)

 Operate the foot brake lever repeatedly until the brake linings lie on the brake disc and there is a pressure point.

Finishing work (50 SX)

- Install the chain guard. (* p. 38)
- Remove the motorcycle from the lift stand. (* p. 27)

13.5 Checking the tire condition



Info

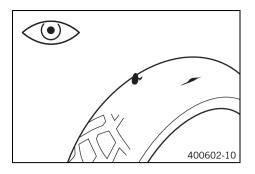
Only mount tires that have been approved and/or recommended by KTM.

Other tires could have a negative effect on riding behavior.

The type, condition and air pressure of the tires all have an important impact on the riding behavior of the motorcycle.

The front and rear wheels must be mounted with tires with similar profiles.

Worn tires have a negative effect on riding behavior, especially on wet surfaces.



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



Info

Note local national regulations concerning the minimum tread depth.

Minimum tread depth	≥ 2 mm (≥ 0.08 in)

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



Info

The tire's date of manufacture is usually part of the tire markings and is indicated by the last four digits of the **DOT** marking. The first two digits refer to the week of manufacture and last two digits refer to the year of manufacture.

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

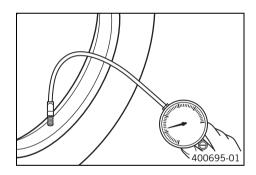
- » If a tire is more than 5 years old:
 - Change the tires.

13.6 Checking tire air pressure



Info

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



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

Tire air pressure off road	
Front	1.0 bar (15 psi)
Rear	1.0 bar (15 psi)

- » If the tire pressure does not meet specifications:
 - Correct the tire pressure.
- Mount the protection cap.

13.7 Checking spoke tension



Warning

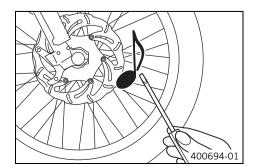
Danger of accidents Instable handling due to incorrect spoke tension.

- Ensure that the spoke tension is correct. (Your authorized KTM workshop will be glad to help.)



Info

A loose spoke can cause wheel imbalance, which leads to more loose spokes in a short time. If the spokes are too tight, they can break due to local overload. Check the spoke tension regularly, especially on a new motorcycle.



- Briefly strike each spoke with the blade of a screwdriver.



Info

The frequency of the tone depends on the spoke length and diameter. If you hear different tone frequencies from spokes of the same length and thickness, this is an indication that the spoke tension differs.

You should hear a high note.

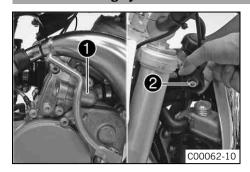
- » If the spoke tension differs:
 - Correct the spoke tension.
- Check the spoke torque.

Guideline

Spoke nipple	M3.5	3 Nm (2.2 lbf ft)
--------------	------	-------------------

Torque wrench with various accessories in set (58429094000)

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 remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the
engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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



Info

Carry out this work with a cold engine.



400243-10

- Stand the motorcycle upright on a horizontal surface.
- Remove radiator cap ①.
- Check the antifreeze of the coolant.

-25... -45 °C (-13... -49 °F)

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

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

- » If the level of the coolant does not meet specifications:
 - Correct the coolant level.

Alternative 1

Coolant (* p. 81)

Alternative 2

Coolant (mixed ready to use) (p. 81)

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 remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the
engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

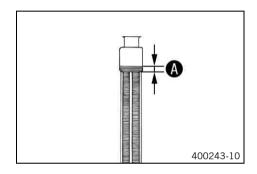
Danger of poisoning Coolant is poisonous and a health hazard.

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



Info

Carry out this work with a cold engine.



- Stand the motorcycle upright on a horizontal surface.
- Remove the radiator cap.
- 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 meet specifications:
 - Correct the coolant level.

Alternative 1

Coolant (* p. 81)

Alternative 2

Coolant (mixed ready to use) (p. 81)

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 remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the
engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.



Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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



Info

Carry out this work with a cold engine.



- Stand the vehicle upright.
- Place a suitable container under the engine.
- Remove screw ①. Remove the radiator cap.
- Completely drain the coolant.
- Mount screw with a new seal ring and tighten it.
 Guideline

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

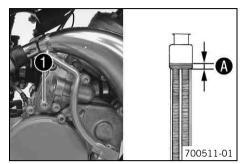
14.5 Refilling coolant 🔦

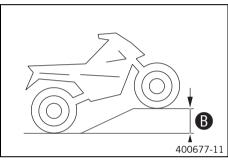


Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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





Main work

- Make sure that the screw is tightened.
- Stand the vehicle upright.
- Add coolant to level **a**.

Guideline

Level above the radiator fins		10 mm (0.39 in)
Coolant	0.5 I (0.5 qt.)	Coolant (* p. 81)
		Coolant (mixed ready to use) (* p. 81)

Position the vehicle as shown and secure it against rolling away. A height difference of

 must be reached.

Guideline

Height difference ®	100 cm (39.4 in)



Info

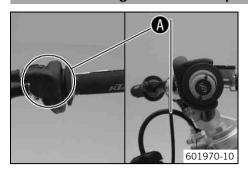
To ensure that all of the air can escape from the cooling system, the front of the vehicle must be jacked up. A poorly bled cooling system is less effective at cooling and may result in overheating of the engine.

- Place the vehicle back on a level surface.
- Add coolant to level **a**.
- Mount the radiator cap.
- Make a short test ride.

Finishing work

Check the coolant level. (* p. 60)

15.1 Checking the installation position of the throttle grip



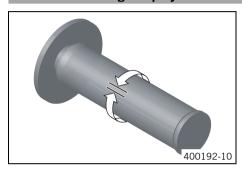
Position the throttle grip so that surface (a) is vertical.



Info

If the throttle grip is tipped forward, the throttle cable will slip out of the guide on the carburetor. The throttle slide can no longer be closed.

15.2 Checking the play of the throttle cable



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

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

- » If the throttle cable play does not meet specifications:
 - Adjust the play in the throttle cable. (* p. 62)



Danger

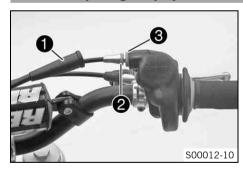
Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and/or death.

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

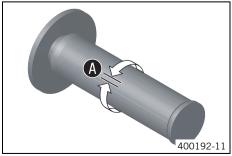
The idle speed should not change.

- » If the idle speed changes:
 - Adjust the play in the throttle cable. 4 (* p. 62)

15.3 Adjusting the play in the throttle cable 🔏



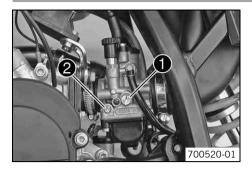
- Move the handlebar to the straight-ahead position.
- Push back sleeve ①.
- Ensure that the throttle cable sleeve is pushed all the way into adjusting screw 2.
- Loosen nut 3.



Turn adjusting screw ② so that there is throttle cable play ③ at the throttle grip.
 Guideline

- Tighten nut 3.
- Slide on sleeve ①.

15.4 Carburetor - idle (50 SX)



The idle setting of the carburetor has a big influence on the starting behavior, stable idling and the response to throttle opening. That means that an engine with a correctly set idle speed is easier to start than if the idle is set wrongly.

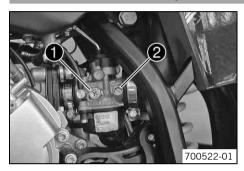


Info

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 the idle adjustment screw **①**. The idle mixture is adjusted with the idle mixture adjustment screw **②**.

15.5 Carburetor - idle (50 SX Mini)



The idle setting of the carburetor has a big influence on the starting behavior, stable idling and the response to throttle opening. That means that an engine with a correctly set idle speed is easier to start than if the idle is set wrongly.

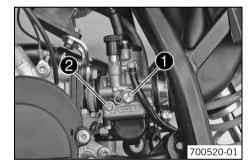


Info

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 the adjustment screw **①**.

The idle mixture is adjusted with the idle mixture adjustment screw 2.



 Screw in the idle adjusting screw ② until it stops and then to the prescribed basic setting.

Guideline

Idle mixture adjusting screw	
Open	3 turns

Run the engine until warm.

Guideline

Warm-up time	≥ 5 min
--------------	---------



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Adjust the idle speed with the adjusting screw •.

Guideline

Choke function deactivated – Choke knob is in lower position. No O-ring is visible. (* p. 14)

Idle speed 1,400... 1,500 rpm

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



Info

If the speed rise is too high, reduce the idle speed to a normal level and repeat the preceding steps.

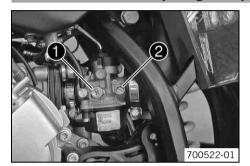
If the procedure described here does not lead to satisfactory results, the cause may be a wrongly dimensioned idling jet.

If you can turn the idle adjusting screw to the end without any change of engine speed, you have to install 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.

15.7 Carburetor - adjusting idle speed → (50 SX Mini)



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

Guideline

Idle air adjusting screw	
Open	1 turn

- Run the engine until warm.

Guideline

Warm-up time	≥ 5 min



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Adjust the idle speed with adjusting screw •.

Guideline

Choke function deactivated – The choke lever is pushed down all the way. (♥ p. 14)	
Idle speed	1,400 1,500 rpm

- Turn idle air adjusting screw 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 falls again.
- Adjust to the point between these two positions with the highest idle speed.



Info

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, you need to install 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.

15.8 Emptying the carburetor float chamber 🔏



Danger

Fire hazard Fuel is highly flammable.

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel. Store fuel in a suitable canister according to regulations and keep it out of the reach of children.



Warning

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

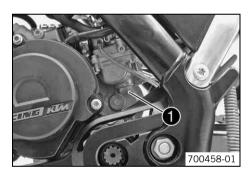
- Do not allow fuel to get into the ground water, the ground, or the sewage system.



Info

Carry out this 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.
 - ✓ No more fuel flows from the tank to the carburetor.

Main work

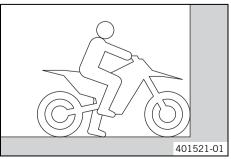
- Place a cloth beneath the carburetor to soak up emerging fuel.
- Remove plug ①.
- Completely drain the fuel.
- Mount and tighten the plug.

15.9 Checking the clutch setting 🔏



Connect special tool 1.

Tachometer (45129075000)



Let the front wheel of the vehicle make contact with a fixed object.



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the motorcycle.
- Only ride full throttle to the point where the maximum engine speed is reached.
 Guideline

≤ 3 s

Read the speed.

- » If the specified value is not reached:
 - Adjust the clutch. ⁴ (▼ p. 66)

15.10 Removing the clutch cover 🔏



Warning

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

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



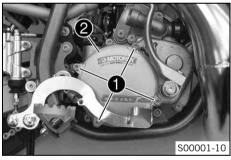
Info

Fuel can emerge via the carburetor.

Capture emerging fuel using a suitable container.

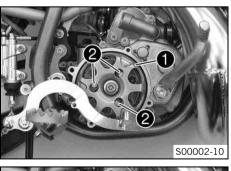


- Turn the knurled screw on the fuel tap all the way clockwise.
- Lay the vehicle down on its left side as shown.



- Remove screws ①.
- Remove clutch cover 2 with the seal ring.

15.11 Adjusting the clutch 🔌

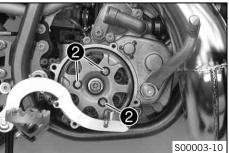


Preparatory work

Remove the clutch cover. ⁴ (♥ p. 66)

Main work

- Turn the outer clutch hub **1** until adjusting screws **2** become accessible.



Condition

If there is no reference point:

- Turn adjusting screws 2 counterclockwise to the last detectable click.
- Turn adjusting screws 2 clockwise by 9 clicks to the basic setting.
 Guideline

Basic setting of slip speed	8,700 9,300 rpm
-----------------------------	-----------------



Info

The springs may not be pretensioned by more than 17 clicks from the stop using the adjusting screws.

Condition

If the slip speed is too low:

Turn adjusting screws 2 clockwise.

Guideline

1 click increases the slip speed by 250... 350 rpm



Info

The springs may not be pretensioned by more than 17 clicks from the stop using the adjusting screws.

Condition

If the slip speed is too high:

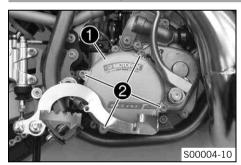
Turn adjusting screws ② counterclockwise.
 Guideline

1 click decreases the slip speed by 250... 350 rpm

Finishing work

- Install the clutch cover. [→] (* p. 67)
- Check the gear oil level. (* p. 69)
- Check the clutch setting. 4 (* p. 65)

15.12 Installing the clutch cover 🔌



Main work

- Position clutch cover with the seal ring.
- Mount and tighten screws ②.
 Guideline

Screw, clutch cover	M6	10 Nm (7.4 lbf ft)
---------------------	----	--------------------

Finishing work

- Check the gear oil level. (♥ p. 69)

16.1 Checking oil level (50 SX Mini)

(A)

Preparatory work

- Stand the motorcycle upright on a horizontal surface.

Main work

Check the oil level in the oil tank.

For a full fuel tank, the oil tank must be filled up to MIN mark **4** at a minimum.

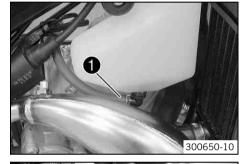
- If the oil level does not meet specifications:
 - Fill up with oil. (**☞** p. 20)

16.2 Bleeding the oil pump 🔌 (50 SX Mini)

Condition

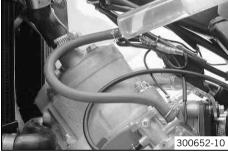
The fuel tank has been removed.

Pull off oil line ①.

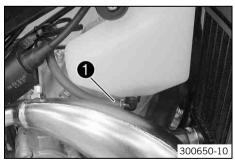


Fill the oil line with a syringe.

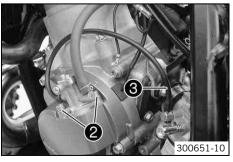
2-stroke engine oil (* p. 81)

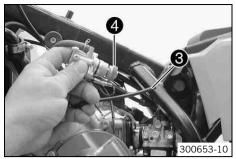


Connect oil line ①.

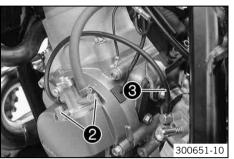


- Remove screws 2.
- Take off the oil pump.
- Pull off oil line 6 from the carburetor.





 Turn the oil pump gear 4 counterclockwise until oil flows out of oil line 8 without bubbles.



- Connect oil line 3.
- Position the oil pump.
- Mount and tighten screws ②.

Guideline

Screw, oil pump	M5	6 Nm (4.4 lbf ft)
		0

16.3 Checking the gear oil level

Condition

The motor is cold.

Preparatory work

Stand the motorcycle upright on a horizontal surface.

Main work

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

A small amount of gear oil should flow out.

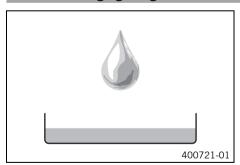
- » If no gear oil flows out:
 - Add gear oil. ◀ (▼ p. 70)
- Mount and tighten the gear oil level check screw.

Guideline

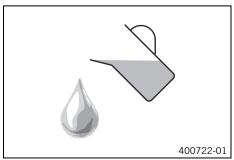
S00005-10

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

16.4 Changing the gear oil 🔦



– Drain the gear oil. 🔌 (🕶 p. 70)



– Fill up with gear oil. 🔌 (🕶 p. 70)

16.5 Draining the gear oil 🔌



Warning

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

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



Warning

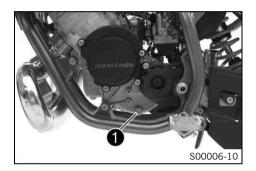
Environmental hazard Hazardous substances cause environmental damage.

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



Info

Drain the gear oil only when the engine is warm.



Preparatory work

- Stand the motorcycle on its side stand on a horizontal surface.

Main work

- Place a suitable container under the engine.
- Remove the oil drain plug with magnet ①.
- Completely drain the gear oil.
- Thoroughly clean the oil drain plug with magnet.
- Clean the sealing area on the engine.
- Mount and tighten the oil drain plug with magnet and seal ring.
 Guideline

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

16.6 Filling up with gear oil 🔏



Info

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



Main work

Remove screw cap • and fill up with gear oil.

Gear oil	0.20 I (0.21 qt.)	Gear oil (ATF Dexron 3) (* p. 81)

Mount and tighten screw cap.



Danger

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

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

Finishing work

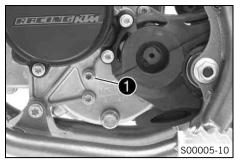
- Check the gear oil level. (* p. 69)

16.7 Adding gear oil 🔌

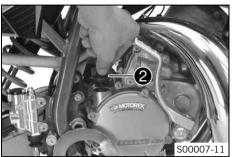


Info

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



Remove gear oil level check screw ①.



- Remove screw cap 2. Stand the vehicle upright.
- Add gear oil until it flows out of the bore of the gear oil level screw.

Gear oil (ATF Dexron 3) (* p. 81)

- Mount and tighten the gear oil level check screw.

Guideline

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

Mount and tighten screw cap ②.



Danger

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

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

17.1 Cleaning motorcycle

Note

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

When cleaning the vehicle with a pressure cleaner, do not point the water jet directly onto electrical components, connectors, cables, bearings, etc. Maintain a minimum distance of 60 cm between the nozzle of the pressure cleaner and the component. Excessive pressure can cause malfunctions or destroy these parts.



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Info

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

Preparatory work

- Seal the exhaust system to prevent penetration by water.

Main work

- First remove coarse dirt particles with a gentle water spray.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a brush.

Motorcycle cleaner (* p. 83)



Info

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

After rinsing the motorcycle with a gentle water spray, allow it to dry thoroughly.



Warning

Danger of accidents Reduced braking efficiency due to a wet or dirty brake system.

- Clean or dry a dirty or wet brake system by riding and braking gently.
- After cleaning, let your child ride the vehicle a short distance until the engine warms up and the brakes are dried.



Info

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

Push back the protection covers on the handlebar controls to allow water to evaporate.

Finishing work

- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (* p. 39)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Cleaning and preserving materials for metal, rubber and plastic (** p. 83)

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

Cleaning and preserving materials for metal, rubber and plastic (* p. 83)

18 STORAGE 73

18.1 Storage



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

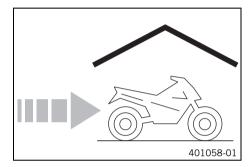
Avoid contact between fuel and skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come into contact with fuel. Store fuel in a suitable canister according to regulations and keep it out of the reach of children.



Info

If you want to put the motorcycle into storage for a longer period, take the following actions.

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



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

Fuel additive (* p. 83)

- Ride until the fuel tank is nearly empty to be able to add fresh fuel when taking the vehicle back into service.
- Clean the motorcycle. (* p. 72)
- Change the gear oil. 4 (* p. 69)
- Check the antifreeze and coolant level. (* p. 59)
- Drain the fuel from the fuel tank into a suitable container.
- Check the tire air pressure. (* p. 57)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.



Info

KTM recommends raising the motorcycle.

- Raise the motorcycle with a lift stand. (* p. 27)
- Cover the vehicle with a tarp or similar cover that is permeable to air.

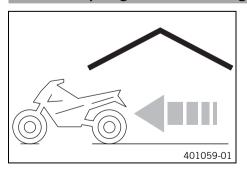


Info

Do not use non-porous materials since they prevent humidity from escaping, thus causing corrosion.

Avoid running the engine for a short time only. Since the engine cannot warm up properly, the water vapor produced during combustion condenses and causes valves and exhaust system to rust.

18.2 Preparing for use after storage



- Remove the motorcycle from the lift stand. (* p. 27)
- Fill up with fuel. (* p. 19)
- Perform checks and maintenance measures when preparing the motorcycle for use.
 (p. 17)
- Take a test ride.

Faults	Possible cause	Action
Engine turns but does not start	Operating error	 Go through the steps of starting the engine. (★ p. 17)
	Motorcycle was out of use for a long time and there is old fuel in the float chamber	 Empty the carburetor float chamber. (▼ p. 65)
	Fuel feed interrupted	Check the fuel tank breather.
		Clean the fuel tap.
		(50 SX Mini)
		Check/set the carburetor components.
		(50 SX) − Check/set the carburetor components. ◀
	Spark plug oily or wet	Clean and dry the spark plug, or change it if
	1 1 3 3	necessary.
	Electrode distance (plug gap) of spark plug too wide	
	plug too wide	Guideline Spark plug electrode gap 0.60 mm (0.0236 in)
	Fault in ignition system	- Check the ignition system
	Short circuit cable in wiring harness frayed, kill switch defective	- Check the kill switch.
	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	(50 SX Mini)
		Check/set the carburetor components.(50 SX)
		 Check/set the carburetor components.
Engine has no idle	Idling jet blocked	(50 SX Mini)
		 Check/set the carburetor components.
		(50 SX) − Check/set the carburetor components. •
	Adjusting screws on carburetor dis-	(50 SX Mini)
	torted	- Carburetor - adjust the idle speed. (p. 64)
		(50 SX)
		 Carburetor - adjust the idle speed. ⁴ (p. 63)
	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	(50 SX Mini) − Check/set the carburetor components. •
	needle dirty of worn	(50 SX)
		 Check/set the carburetor components.
	Loose carburetor jets	(50 SX Mini)
		- Check/set the carburetor components.
		(50 SX) − Check/set the carburetor components. •
	Fault in ignition system	Check the ignition system. ★
Engine has too little power	Fuel feed interrupted	Check the fuel tank breather.
G 120 Polito		Clean the fuel tap.
		(50 SX Mini)
		 Check/set the carburetor components.
		(50 SX)
	Air filtor vom dinte	- Check/set the carburetor components.
	Air filter very dirty	 Clean the air filter and air filter box. [★] (* p. 36)

Faults	Possible cause	Action
Engine has too little power	Exhaust system leaky, deformed or too little glass fiber yarn filling in main silencer	 Check exhaust system for damage. Change the glass fiber yarn filling of the main silencer. ♠ (p. 37)
	Ignition system defective	- Check the ignition coil.
		 Check the spark plug connector.
	Diaphragm or reed valve housing damaged	Check the diaphragm and reed valve housing.
	Noticeable wear	- Overhaul the engine.
	Clutch engagement speed too low or too high	- Check the clutch setting. ♣ (p. 65)
Engine stalls or is popping into the carburetor	Lack of fuel	Turn the knurled screw on the fuel tap all the way counterclockwise.
		Fill up with fuel. (♥ p. 19)
	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 system	Check the cooling system for leakage.
		 Check the coolant level. (* p. 60)
	Too little air stream	 Switch off engine when standing.
	Radiator fins very dirty	Clean radiator fins.
	Foam formation in cooling system	Drain the coolant. ♣ (▼ p. 60)
		 Refill the coolant. ♣ (♥ p. 61)
	Damaged cylinder head or cylinder head gasket	Check the cylinder head or cylinder head gas- ket.
	Bent radiator hose	 − Change the radiator hose.
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. 69)
Water in the gear oil	Damaged shaft seal ring or water pump	Check the shaft seal ring and water pump.

20.1 Engine

Design	1-cylinder 2-stroke engine, water-cooled, with reed intake
Displacement	49.0 cm ³ (2.99 cu in)
Stroke	40 mm (1.57 in)
Bore	39.5 mm (1.555 in)
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 (50 SX)	Mixture oil lubrication
Engine Iubrication (50 SX Mini)	Separate lubrication
Primary transmission	33:61 straight cut spur gear
Clutch	Multi-disc automatic clutch on the main shaft/centrifugal force
Gearbox	Rigid 1-stage reduction gear
Transmission ratio	14:31
Ignition	SELETTRA 2p D36
Spark plug	NGK LR 8 B
Spark plug electrode gap	0.60 mm (0.0236 in)
Cooling	Water-cooled
Starting aid	Kickstarter

20.2 Engine tightening torques

Screw, bearing retainer	M5	5 Nm (3.7 lbf ft)	_
Screw, kickstarter	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, oil pump (50 SX Mini)	M5	6 Nm (4.4 lbf ft)	-
Screw, stator clamp	M5	6 Nm (4.4 lbf ft)	Loctite® 222
Screw, water pump wheel	M5	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Bleeder flange of engine case	M6	4 Nm (3 lbf ft)	Loctite [®] 243™
Drain plug, water pump cover	M6	6 Nm (4.4 lbf ft)	-
Screw, alternator cover	M6	6 Nm (4.4 lbf ft)	-
Screw, clutch cover	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, fitting pin	M6	10 Nm (7.4 lbf ft)	Loctite [®] 648™
Screw, gear oil level check	M6	6 Nm (4.4 lbf ft)	-
Screw, ignition coil	M6	4 Nm (3 lbf ft)	Loctite [®] 243™
Screw, intake flange	M6	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Screw, pressure plate	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, water pump cover	M6	10 Nm (7.4 lbf ft)	-
Screw, cylinder head	M7	18 Nm (13.3 lbf ft)	-
Nuts, cylinder base	M8	20 Nm (14.8 lbf ft)	-
Screw, outer clutch hub	M8	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Stud bolt, cylinder base	M8	10 Nm (7.4 lbf ft)	-
Spark plug	M10x1	10 12 Nm (7.4 8.9 lbf ft)	-
Nut, primary gear	M10x1.25	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Nut, rotor	M10x1.25	15 Nm (11.1 lbf ft)	Loctite [®] 243™
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	_

20.3 Carburetor with carburetor tuning

20.3.1 50 SX

Carburetor type	Dell'Orto PHBG 19BS
Needle position	3rd position from top
Idle mixture adjusting screw	
Open	3 turns
Main jet	85
Jet needle	W9
Idling jet	58
Needle jet	260AU
Throttle slide	60
Cold start jet	60

20.3.2 50 SX Mini

Carburetor type	Dell'Orto PHVA 12XS
Needle position	4th position from top
Idle air adjusting screw	·
Open	1 turn
Main jet	60
Jet needle	A10
Idling jet	35
Needle jet	211FA
Throttle slide	40
Cold start jet	60

20.4 Capacities

20.4.1 Gear oil

Gear oil	0.20 I (0.21 qt.)	Gear oil (ATF Dexron 3) (* p. 81)
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20.4.2 Coolant

Coolant	0.5 I (0.5 qt.)	Coolant (* p. 81)
		Coolant (mixed ready to use) (p. 81)

20.4.3 Fuel

Fuel tank capacity, approx. (50 SX)	2.3 I (2.4 qt.)	Super unleaded gasoline, mixed with 2-stroke engine oil (1:60) (*p. 82)
Fuel tank capacity, approx. (50 SX Mini)	2.0 l (2.1 qt.)	Super unleaded (ROZ 95/RON 95/PON 91) (* p. 82)

20.5 Chassis

Frame	Central tube frame of chrome molybdenum steel tubing, powder-coated
Fork	WP Suspension USD 35
Shock absorber	WP Suspension 3614 BAEM
Suspension travel (50 SX)	
Front	205 mm (8.07 in)
Rear	185 mm (7.28 in)
Suspension travel (50 SX Mini)	•
Front	100 mm (3.94 in)
Rear	171 mm (6.73 in)

Fork offset	22 mm (0.87 in)	
Brake system		
Front	Disc brake with four-pot brake caliper	
Rear	Disc brake with two-pot brake caliper	
Brake disc diameters		
Front	160 mm (6.3 in)	
Rear	140 mm (5.51 in)	
Brake discs - wear limits		
Front	2.5 mm (0.098 in)	
Rear	2.5 mm (0.098 in)	
Tire air pressure off road		
Front	1.0 bar (15 psi)	
Rear	1.0 bar (15 psi)	
Secondary drive ratio (50 SX)	11:40	
Secondary drive ratio (50 SX Mini)	10:42	
Chain	1/2 x 3/16"	
Rear sprockets available	38, 39, 40, 41, 42	
Steering head angle (50 SX)	66°	
Steering head angle (50 SX Mini)	67.4°	
Wheelbase (50 SX)	1,032±10 mm (40.63±0.39 in)	
Wheelbase (50 SX Mini)	914±10 mm (35.98±0.39 in)	
Seat height unloaded (50 SX)	684 mm (26.93 in)	
Seat height unloaded (50 SX Mini)	558 mm (21.97 in)	
Ground clearance unloaded (50 SX)	252 mm (9.92 in)	
Ground clearance unloaded (50 SX Mini)	184 mm (7.24 in)	
Weight without fuel, approx. (50 SX)	41.5 kg (91.5 lb.)	
Weight without fuel, approx. (50 SX Mini)	40.5 kg (89.3 lb.)	

20.6 Tires

Validity	Front tires	Rear tires
(50 SX)	60/100 - 12 36M TT Pirelli SCORPION MX Mid Soft 32 NHS	2.75 - 10 37J TT Pirelli SCORPION MX Mid Soft 32 NHS
(50 SX Mini)	2.50 - 10 33J TT Pirelli SCORPION MX Mid Soft 32 NHS	2.75 - 10 37J TT Pirelli SCORPION MX Mid Soft 32 NHS

20.7 Fork

20.7.1 50 SX Mini

Fork part number	07.18.1L.01
Fork	WP Suspension USD 35
Fork length	580 mm (22.83 in)
Spring rate	
Weight of rider: 15 25 kg (33 55 lb.)	1.8 N/mm (10.3 lb/in)
Weight of rider (standard): 25 35 kg (55 77 lb.)	2.0 N/mm (11.4 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	2.2 N/mm (12.6 lb/in)
Spring length with preload spacer(s)	337.5 mm (13.287 in)

Fork oil per fork leg	240±10 ml	Fork oil (SAE 4) (48601166S1) (* p. 81)
	(8.11±0.34 fl. oz.)	·

20.7.2 **50 SX**

Fork part number		07.18.1L.03	
Fork		WP Suspension USD 35	
Fork length		685 mm (26.97 in)	
Spring rate			
Weight of rider: 15 25 kg (33 55 lb.)		1.8 N/mm (10.3 lb/in)	
Weight of rider (standard): 25 35 kg (55 77 lb.)		2.0 N/mm (11.4 lb/in)	
Weight of rider: 35 45 kg (77 99 lb.)		2.2 N/mm (12.6 lb/in)	
Spring length with preload spacer(s)		337.5 mm (13.287 in)	
Fork oil per fork leg	240±10 ml	Fork oil (SAE 4) (48601166S1) (* p. 81)	

Fork oil per fork leg	240±10 ml	Fork oil (SAE 4) (48601166S1) (p. 81)
	(8.11±0.34 fl. oz.)	

20.8 **Shock absorber**

20.8.1 **50 SX**

Shock absorber part number	03.18.9L.02
Shock absorber	WP Suspension 3614 BAEM
Rebound damping	
Standard	10 clicks
Spring preload	
Standard	3 mm (0.12 in)
Spring rate	
Weight of rider: 15 25 kg (33 55 lb.)	30 N/mm (171 lb/in)
Weight of rider (standard): 25 35 kg (55 77 lb.)	35 N/mm (200 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	40 N/mm (228 lb/in)
Spring length	130 mm (5.12 in)
Gas pressure	10 bar (145 psi)
Static sag	20 mm (0.79 in)
Riding sag	45 55 mm (1.77 2.17 in)
Fitted length	275 mm (10.83 in)

Shock absorber oil (SAE 2.5) (50180342S1) (* p. 82) Shock absorber oil

20.8.2 50 SX Mini

Shock absorber part number	03.18.9E.04
Shock absorber	WP Suspension 3614 BAEM
Rebound damping	
Standard	12 clicks
Spring preload	
Standard	5 mm (0.2 in)
Spring rate	
Weight of rider: 15 25 kg (33 55 lb.)	65 N/mm (371 lb/in)
Weight of rider (standard): 25 35 kg (55 77 lb.)	75 N/mm (428 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	85 N/mm (485 lb/in)
Spring length	120 mm (4.72 in)
Gas pressure	10 bar (145 psi)
Static sag	15 mm (0.59 in)
Riding sag	40 50 mm (1.57 1.97 in)
Fitted length	245 mm (9.65 in)
Shock absorber oil	Shock absorber oil (SAE 2.5) (50180342S1) (* p. 82)

20.9 Chassis tightening torques

Spoke nipple	M3.5	3 Nm (2.2 lbf ft)	-
Screw, brake linings	M5	8 Nm (5.9 lbf ft)	-
Rear brake caliper screw	M6	10 Nm (7.4 lbf ft)	Loctite® 243™
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	-
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	-
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	-
Screw, chain sliding piece	M6	3 Nm (2.2 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, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite® 243™
Screw, throttle grip	M6	4.5 Nm (3.32 lbf ft)	-
Screw, rear sprocket	M7	15 Nm (11.1 lbf ft)	Loctite® 243™
Engine carrying screw	M8	25 Nm (18.4 lbf ft)	-
Nut, foot brake lever	M8	22 Nm (16.2 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, chain sliding piece	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, top triple clamp	M8	20 Nm (14.8 lbf ft)	-
Front wheel spindle nut	M10	40 Nm (29.5 lbf ft)	-
Nut, swingarm pivot	M10	45 Nm (33.2 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)	-
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	-
Nut, rear wheel spindle	M12x1	40 Nm (29.5 lbf ft)	-
Nut, steering head	M20x1.5	No play ≤ 10 Nm (≤ 7.4 lbf ft)	-

21 SUBSTANCES 81

2-stroke engine oil

According to

JASO FC (* p. 85)

Guideline

Only use high quality 2-stroke engine oil of a well-known brand. KTM recommends Motorex® products.

Fully synthetic

Supplier

Motorex®

Cross Power 2T

Brake fluid DOT 4 / DOT 5.1

According to

DOT

Guideline

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

Supplier

Castrol

RESPONSE BRAKE FLUID SUPER DOT 4

Motorex®

- Brake Fluid DOT 5.1

Coolant

Guideline

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

Mixture ratio

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

Coolant (mixed ready to use)

Antifreeze	-40 °C (-40 °F)

Supplier

Motorex®

- COOLANT G48

Fork oil (SAE 4) (48601166S1)

According to

SAE (* p. 85) (SAE 4)

Guideline

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

Gear oil (ATF Dexron 3)

According to

Dexron III (ATF Dexron 3)

Guideline

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

Supplier

Motorex®

ATF Dexron 3

21 SUBSTANCES 82

Shock absorber oil (SAE 2.5) (50180342S1)

According to

- SAE (***** p. 85) (SAE 2.5)

Guideline

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

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

According to

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

Guideline

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



Info

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

Super unleaded gasoline, mixed with 2-stroke engine oil (1:60)

According to

- DIN EN 228
- JASO FC (♥ p. 85) (1:60)

Mixture ratio

1:60	2-stroke engine oil (* p. 81)	
	Super unleaded (ROZ 95/RON 95/PON 91) (* p. 82)	

Supplier

Motorex®

Cross Power 2T

Air filter cleaner

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Twin Air Dirt Bio Remover

Chain cleaner

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

Chain Clean

Cleaning and preserving materials for metal, rubber and plastic

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Protect & Shine

Fuel additive

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Fuel Stabilizer

High viscosity grease

Guideline

- KTM recommends **SKF**® products.

Supplier

SKF®

- LGHB 2

Long-life grease

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

Bike Grease 2000

Motorcycle cleaner

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Moto Clean 900

Off-road chain spray

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Chainlube Offroad

Oil for foam air filter

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

Twin Air Liquid Bio Power

Rubber grip adhesive (00062030051)

Supplie

KTM-Sportmotorcycle AG

- GRIP GLUE

Universal oil spray

Guideline

KTM recommends Motorex® products.

Supplier

Motorex®

- Joker 440 Synthetic

23 STANDARDS 85

JASO FC

JASO FC 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.

SAE

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

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05/2012







