OWNER'S MANUAL 2018



125 SX 150 SX

Art. no. 3213636en





DEAR KTM CUSTOMER

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

We hope you enjoy your new vehicle!

Enter the serial numbers of your vehicle below.

Chassis number (🕮 p. 11)	Dealer's stamp
Engine number (鷗 p. 11)	

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

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Issued by: TÜV Management Service

KTM Sportmotorcycle GmbH 5230 Mattighofen, Austria

This document is valid for the following models:

125 SX EU (F6101R0) 125 SX US (F6175R0) 150 SX EU (F6101R1) 150 SX US (F6175R1)



3213636en

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1 MEANS OF REPRESENTATION

-	bols used			
The meaning of s	specific symbols is described below.			
5	Indicates an expected reaction (e.g. of a work step or a function).			
X	Indicates an unexpected reaction (e.g. of a work step or a function).			
×	All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of your own safety, have these jobs performed by an authorized KTM workshop. There, your motorcycle will be optimally cared for by specially trained experts using the specialist tools required.			
	Indicates a page reference (more information is provided on the specified page).			
i	Indicates information with more details or tips.			
»	Indicates the result of a testing step.			
1.2 Form	nats used			
The typographica	al formats used in this document are explained below.			
Specific name	Identifies a proprietary name.			
Name®	Identifies a protected name.			
Brand™	Identifies a brand available on the open market.			
Underlined terms	Refer to technical details of the vehicle or indicate technical terms that are explained in			

the glossary.

2 SAFETY ADVICE

2.1 Use definition – intended use

This vehicle is designed and built to withstand the normal stresses and strains of competitive use. This vehicle complies with the currently valid regulations and categories of the top international motorsport organizations.

Info

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

2.2 Misuse

The vehicle must only be used as intended.

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

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

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

2.3 Safety advice

A number of safety instructions need to be followed to operate the 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.

2.4 Degrees of risk and symbols

Danger

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



Warning

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

Caution

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

Note

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



g Warning

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

2.5 Tampering warning

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

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

2 SAFETY ADVICE

2.6 Safe operation

Danger

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

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

Danger

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

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

Warning

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

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

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

The vehicle should only be used by trained persons.

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

Adhere to the information and warning labels on the vehicle.

2.7 Protective clothing

Warning

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

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.

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

2.8 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.

2.9 Environment

If you use your motorcycle responsibly, you can ensure that problems and conflicts do not occur. To protect the future of the motorcycle sport, make sure that you use your motorcycle legally, display environmental consciousness, and respect the rights of others. When disposing of used oil, other operating and auxiliary fluids, and used components, comply with the laws and regulations of the respective country.

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

2 SAFETY ADVICE

2.10 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 must be handed over to the new owner if the vehicle is sold.

3 IMPORTANT NOTES

3.1 Manufacturer and implied warranty

The work specified in the service schedule may only be performed in an authorized KTM workshop and must be recorded in both the Service & Warranty Booklet and in **KTM Dealer.net**, otherwise any warranty coverage will become void. Damage or secondary damage caused by tampering with and/or conversions on the vehicle are not covered by the warranty.

Additional information on the manufacturer or implied warranty and the procedures involved can be found in the Service & Warranty Booklet.

3.2 Operating and auxiliary substances

🖌 Warning

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

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

Use 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 authorized KTM dealer will be glad to advise you.

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

3.4 Service

A prerequisite for perfect operation and prevention of premature wear is that the service, care, and tuning work on the engine and chassis is properly carried out as described in the Owner's Manual. 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.

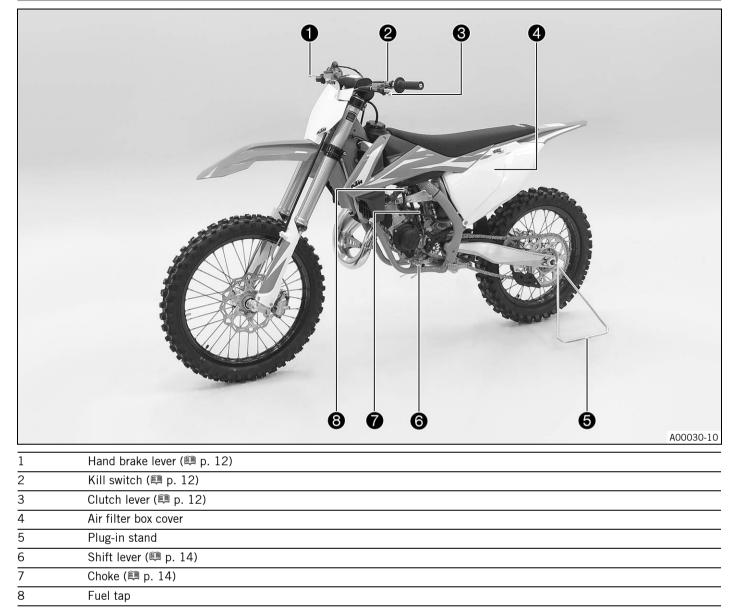
3.6 Customer service

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 VIEW OF VEHICLE

4.1 View of vehicle, front left (example)



4 VIEW OF VEHICLE

4.2 View of vehicle, rear right (example)

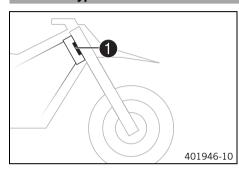
1	Seat
2	Filler cap
3	Throttle grip (🕮 p. 12)
4	Kick starter (🕮 p. 14)
5	Foot brake lever (📖 p. 14)
6	Shock absorber compression adjustment
7	Level viewer for brake fluid, rear
8	Shock absorber rebound adjustment

5 SERIAL NUMBERS

5.1 Chassis number

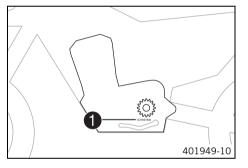
The chassis number **1** is stamped on the right side of the steering head.

5.2 Type label



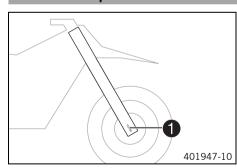
The type label 1 is fixed to the front of the steering head.

5.3 Engine number



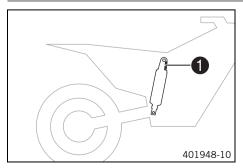
The engine number **1** is stamped on the left side of the engine under the engine sprocket.

5.4 Fork part number



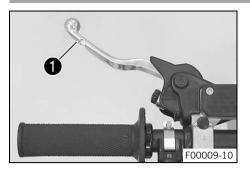
The fork part number **1** is stamped on the inside of the axle clamp.

5.5 Shock absorber article number



Shock absorber article number **1** is stamped on the top of the shock absorber above the adjusting ring towards the engine side.

6.1 Clutch lever



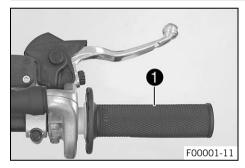
Clutch lever **1** is fitted on the handlebar on the left. The clutch is activated hydraulically and adjusts itself automatically.

6.2 Hand brake lever



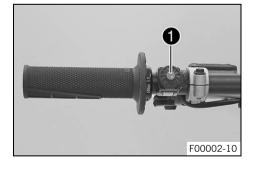
Hand brake lever **1** is fitted on the right side of the handlebar. The front brake is engaged using the hand brake lever.

6.3 Throttle grip



Throttle grip $\mathbf{1}$ is fitted on the right side of the handlebar.

6.4 Kill switch



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

Possible states

- Kill switch \otimes in basic position In this position, the ignition circuit is closed, and the engine can be started.

6.5 Opening the filler cap

Danger

Fire hazard Fuel is highly flammable.

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

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

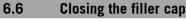
Warning

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

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



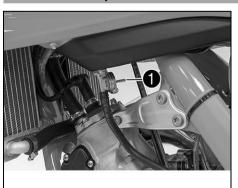
Turn filler cap 1 counterclockwise and lift it off.

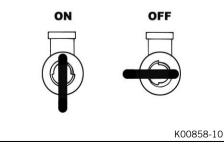




Mount filler cap 1 and turn it clockwise until the fuel tank is tightly closed. Info • Run the fuel tank breather hose **2** without kinks.

6.7 Fuel tap



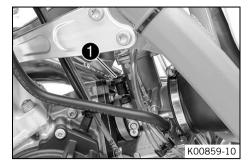


Fuel tap **1** is on the left of the fuel tank.

Open or close the supply of fuel to the carburetor using tap handle 1 on the fuel tap. Possible states

- Fuel supply closed **OFF** Fuel cannot flow from the fuel tank to the carburetor.
- Fuel supply open **ON** – Fuel can flow from the fuel tank to the carburetor. The fuel tank empties completely.

6.8 Choke



Choke **1** is fitted on the left side of the carburetor.

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

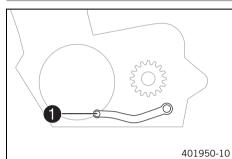
Info

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

Possible states

- Choke function activated The choke lever is pulled out to the stop.
- Choke function deactivated The choke lever is pushed in to the stop.

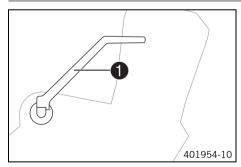
6.9 Shift lever



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

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

6.10 Kick starter

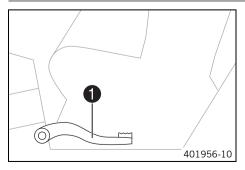


Kick starter **①** is fitted on the right side of the engine. The top part of the kick starter pivots.

Info

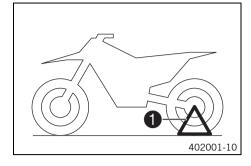
Before riding, swing the top part of the kick starter inward toward the engine.

6.11 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.

6.12 **Plug-in stand**



The holder for plug-in stand **1** is on the left side of the wheel spindle. The plug-in stand is used to park the motorcycle.

Info

Remove the plug-in stand before riding.

6.13 Service hour counter



The service hour counter **①** is fitted in front of the handlebar.

It shows the total number of service hours of the engine.

The service hour counter begins counting when the engine is started and stops when the engine is switched off.

Info

i It is not possible to delete or adjust anything on the service hour counter.



Advice on first use

7.1

- **Danger of accidents** A rider who is not fit to ride poses a danger to him or herself and others.
- Do not operate the vehicle if you are not fit to ride due to alcohol, drugs or medication.
- Do not operate the vehicle if you are physically or mentally impaired.

Warning

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

- Wear appropriate protective clothing such as helmet, boots, gloves as well as trousers and a jacket with protectors on all rides.
- Always wear protective clothing that is in good condition and meets the legal regulations.

Warning

Danger of crashing Different tire tread patterns on the front and rear wheel impair the handling characteristic. Different tire tread patterns can make the vehicle significantly more difficult to control.

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

Warning

Danger of accidents An unadapted riding style impairs the handling characteristic.

Adapt your riding speed to the road conditions and your riding ability.

Warning

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

Do not ride with a passenger.



Warning

Danger of accidents The brake system fails in the event of overheating. If the foot brake lever is not released, the brake linings drag continuously.

- Take your foot off the foot brake lever when you are not braking.

Warning

Danger of accidents Total weight and axle loads influence the handling characteristic.

- Do not exceed the maximum permissible overall weight or the axle loads.

Warning

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

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

Info

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

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

- ✓ You receive a delivery certificate and the Service and Warranty Booklet at vehicle handover.
- Before your first trip, read the entire Owner's Manual carefully.
- Get to know the controls.
- Adjust the basic position of clutch lever. (I p. 59)
- Adjust the basic position of the hand brake lever. (
 p. 62)
- Adjust the basic position of the foot brake lever. 🔌 (🕮 p. 66)
- Adjust the basic position of the shift lever. \checkmark (\blacksquare p. 84)
- Get used to handling the motorcycle on a suitable surface before undertaking a more challenging trip.

Info

Your motorcycle is not approved for use on public roads. When off road, it is recommended that you are accompanied by another person on another vehicle so that you can help each other.

- Try also to ride as slowly as possible and in a standing position to get a better feeling for the motorcycle.
- Do not make any off-road trips that exceed your ability and experience.
- Hold the handlebar firmly with both hands and keep your feet on the footrests when riding.
- Do not take luggage along.
- Do not exceed the maximum permissible weight and the maximum permissible axle loads.
 Guideline

Maximum permissible overall weight	335 kg (739 lb.)
Maximum permissible front axle load	145 kg (320 lb.)
Maximum permissible rear axle load	190 kg (419 lb.)

• Info

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

– Run in the engine. (🕮 p. 17)

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!

7.3 Preparing the vehicle for difficult riding conditions

• Info

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.

- Seal the air filter box. 🔌 (🕮 p. 51)
- Secure the air filter box cover. 🔌 (🕮 p. 50)

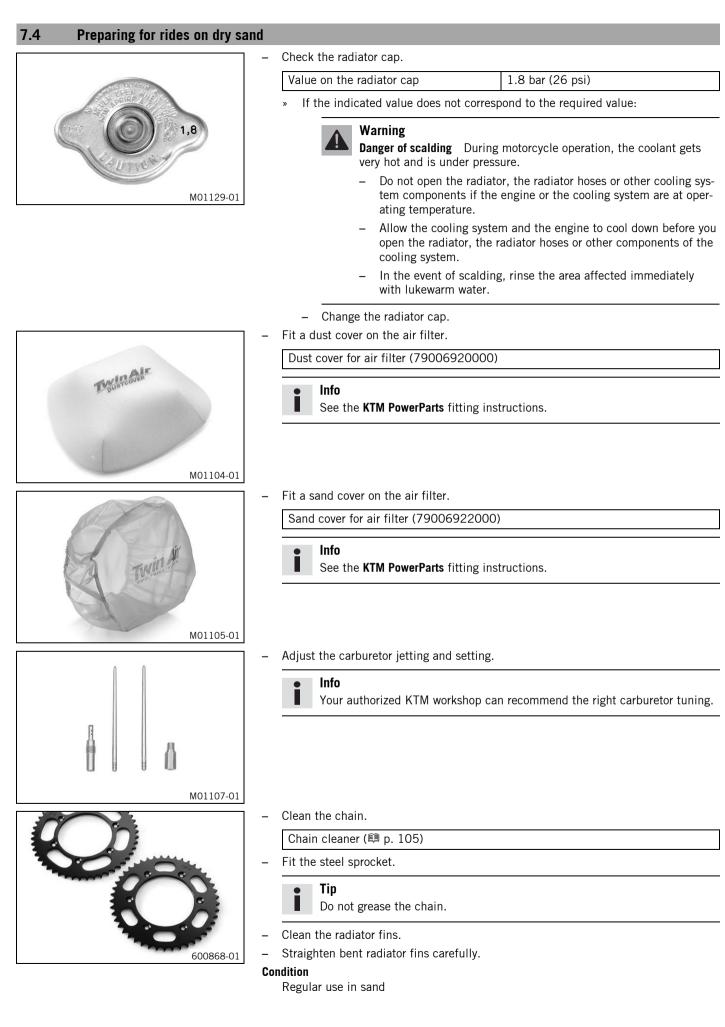
Info

Check the air filter approx. every 30 minutes.

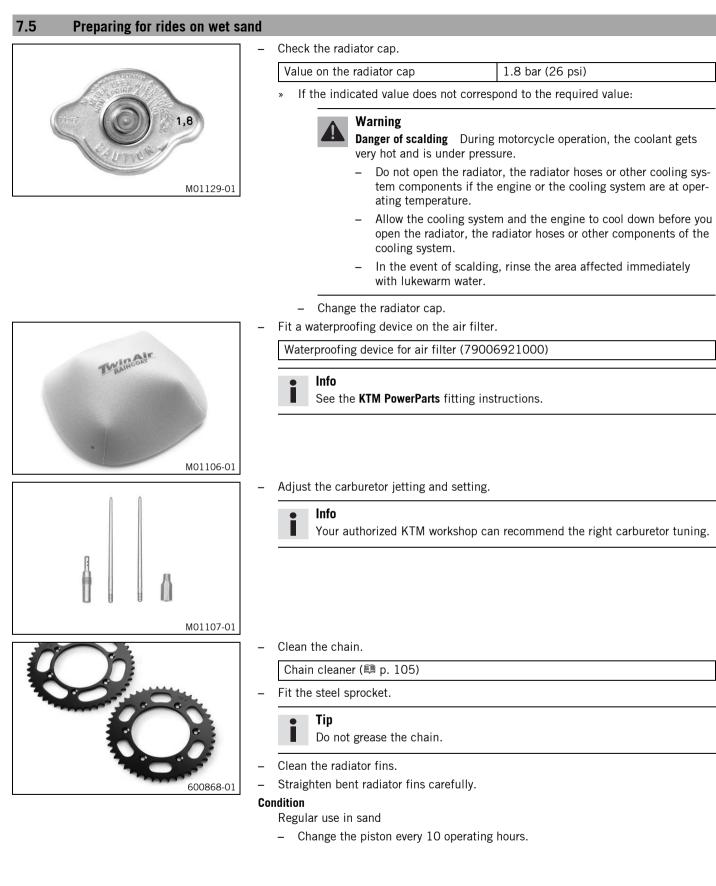
- Check the electrical connector for humidity and corrosion and to ensure it is firmly seated.
 - » If humidity, corrosion, or damage is found:
 - Clean and dry the connector, or change it if necessary.

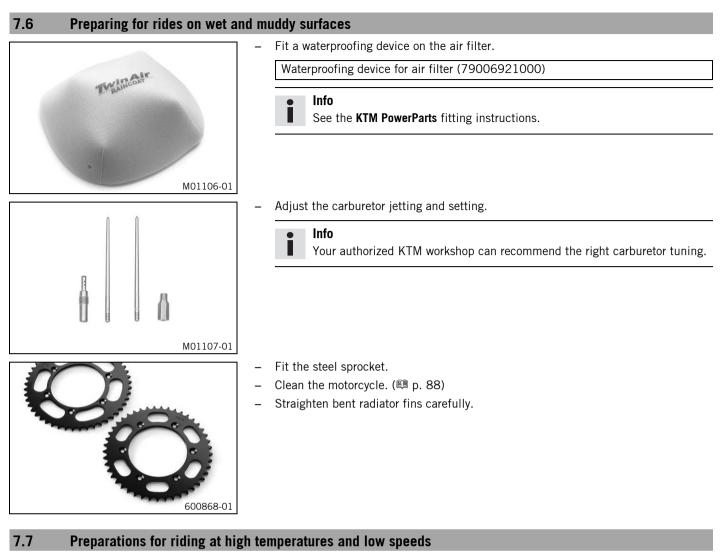
Difficult riding conditions are:

- Rides on wet sand. (🕮 p. 19)
- Rides on wet and muddy surfaces. (@ p. 20)
- Rides at low temperature or in snow. (
 p. 21)



- Change the piston every 10 operating hours.





- м01129-01
- Check the radiator cap.

Value on the radiator cap	1.8 bar (26 psi)
» If the displayed value does not equal t	he setpoint value:



Warning

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

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

- Change the radiator cap.

Adjust the secondary ratio to the terrain.



Info

The engine oil heats up quickly when the clutch is operated frequently due to an excessively high secondary drive.

- Clean the chain.

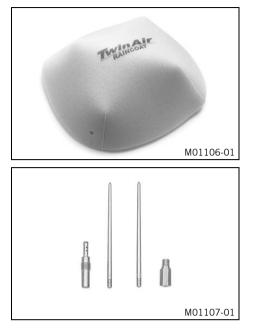
Chain cleaner (🕮 p. 105)

Clean the radiator fins.

- Carefully align bent radiator fins. _
- Check the coolant level. (
 p. 78) _

7.8 Preparing for rides at low temperature or in snow

_



Fit a waterproofing device on the air filter. Waterproofing device for air filter (79006921000)

i See the KTM PowerParts fitting instructions.

Adjust the carburetor jetting and setting. _



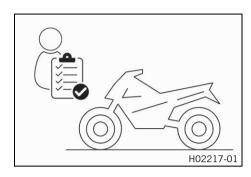
Info

Your authorized KTM workshop can recommend the right carburetor tuning.

8.1 Checks and maintenance measures when preparing for use

• Info

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



- Check the gear oil level. (I p. 85)

- Check the rear brake fluid level. (🕮 p. 67)
- Check the front brake linings. (🕮 p. 64)
- Check the rear brake linings. (🕮 p. 68)
- Check that the brake system is functioning properly.
- Check the chain for dirt. (
 p. 54)

- Check the tire condition. (
 P. 74)

Info

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

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

8.2 Starting

Danger

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

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

Note

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

Always run the engine warm at a low speed.

Info

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

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

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

- Empty the carburetor float chamber. 🔌 (🕮 p. 85)
- Fuel can flow from the fuel tank to the carburetor.
 - Remove the plug-in stand.
- Shift the transmission to idle.

Condition

The engine is cold

- Pull the choke lever out as far as possible.
- Press the kick starter robustly through its full range.

```
• Info
```

Do not open the throttle.

8.3 Starting off

• Info

The plug-in stand must be removed before riding.

While riding, the side stand must be folded up and secured with the rubber band.

- Pull the clutch lever, shift into first gear, release the clutch lever slowly and at the same time open the throttle gently.

8.4 Shifting, riding

Warning

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

- Do not change into a low gear at high engine speed.

Info

If you hear unusual noises while riding, stop immediately, switch off the engine, and contact an authorized KTM workshop. First gear is used for starting off and for steep inclines.

- Shift into a higher gear when conditions allow (incline, road situation, etc.). To do so, release the throttle while simultaneously
 pulling the clutch lever, shift into the next gear, release the clutch lever and open the throttle.
- If the choke function has been activated, deactivate it after the engine has warmed up.
- After reaching maximum speed by fully opening the throttle grip, turn the throttle back so it is ³/₄ open. This will barely reduce the speed but fuel consumption will be considerably lower.
- Always open the throttle only as much as the engine can handle abrupt throttle opening increases fuel consumption.
- To shift down, apply the brakes and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly, and either open the throttle or shift again.
- Switch off the engine if running at idle or stationary for a long time.

Guideline

≥2 min

- Avoid frequent and longer slipping of the clutch. As a result the gear oil, engine and cooling system heat up.
- Ride at a low engine speed instead of at a high engine speed with a slipping clutch.

8.5 Applying the brakes

Warning

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

Adjust application of the brakes to the respective riding situation and riding surface conditions.



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

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



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- On sandy, wet, or slippery surfaces, use the rear brake mostly if possible.
- Always finish braking before you go into a bend. Change down to a lower gear appropriate to your road speed.
- Use the braking effect of the engine on long downhill stretches. Change down one or two gears, but do not over-rev the engine.
 You will have to apply the brakes far less frequently as a result and the brake system will not overheat.

8.6 Stopping, parking

Warning

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

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

Warning

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

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

Note

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

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

Note

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

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

- Park the vehicle on a firm and level surface.
- Ensure that nobody sits on the vehicle when the vehicle is parked on a stand.
- Apply the brakes on the motorcycle.
- Shift gear to neutral.
- Press and hold the kill switch \otimes while the engine is idling until the engine stops.
- Turn handle 🜒 of the fuel tap to the OFF position. (Figure K00858-10🕮 p. 13)
- Rest the vehicle on the plug-in stand.

8.7 Transport

Note

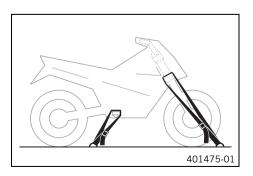
Danger of damage The parked vehicle can roll away or fall over.

- Park the vehicle on a firm and level surface.

Note

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

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



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





8.8 Refueling

1 Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

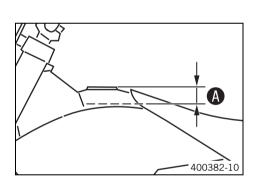
Danger of poisoning Fuel is poisonous and a health hazard.

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

Warning

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

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



- Switch off the engine.
- Open the filler cap. (🛤 p. 12)
- Fill the fuel tank with fuel up to measurement A.
 Guideline

38 in)
aded (98 octane) mixed ke engine oil (1:40) 4)
0

Engine oil, 2-stroke (🕮 p. 103)

Close the filler cap. (🕮 p. 13)

9 SERVICE SCHEDULE

9.1 Additional information

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

Different service intervals may apply in your country, depending on the local operating conditions.

9.2 Required work

Ev.	ery 40	opor		every	1400
Every 20	-	-	-	iours	
Every 10 oper	-	-	iouis		
Once after 1 operating	-	louis			
Change the gear oil. 🔌 (🕮 p. 86)	illoui	•	•	•	
Check the front brake linings. (IIII p. 64)		•	•	•	
Check the rear brake linings. (\blacksquare p. 68)		•	•	•	•
		•	•	•	
Check the brake discs. (🕮 p. 62) Check the brake lines for damage and leakage.		•	•	•	•
		-	-	-	
Check the rear brake fluid level. (p. 67)		•	•	•	•
Check the free travel of the foot brake lever. (p. 66)		•	•	•	•
Check the frame. 🔌 (🕮 p. 58)		•	•	•	•
Check the swingarm. 🔌 (🕮 p. 58)		•	•	•	•
Check the swingarm bearing for play.			•	•	
Check the heim joint for play. 🔌		•	•	•	
Check the shock absorber linkage. 🔌		•	•	•	•
Check the tire condition. (의 p. 74)	0	•	•	•	•
Check the tire air pressure. (🕮 p. 74)	0	•	•	•	
Check the wheel bearing for play. 🔦		•	•	•	
Check the wheel hubs. 🔌		•	•	•	•
Check the rim run-out. 🔦	0	•	•	•	
Check the spoke tension. (🕮 p. 74)	0	•	•	•	•
Check the chain, rear sprocket, engine sprocket, and chain guide. (🕮 p. 56)		٠	•	٠	•
Check the chain tension. (🕮 p. 55)	0	•	٠	•	•
Grease all moving parts (e.g., hand lever, chain,) and check for smooth operation. 🔌		•	٠	•	•
Check/correct the fluid level of the hydraulic clutch. (🕮 p. 59)		•	٠	•	•
Check the front brake fluid level. (寫 p. 63)		•	٠	•	•
Check the free travel of the hand brake lever. (🕮 p. 62)		•	٠	•	•
Check the play of the steering head bearing. (🕮 p. 43)	0	٠	٠	٠	_
Change the spark plug and spark plug connector. 🔌		•	•	•	
Check all hoses (e.g. fuel, cooling, bleeder, drainage, etc.) and sleeves for cracking, leaks, and incorrect routing.	0	•	•	•	•
Check the antifreeze and coolant level. (🕮 p. 77)	0	•	٠	•	•
Check the cables for damage and for routing without kinks. 🔌		•	•	٠	•
Check that the throttle cables are undamaged, routed without sharp bends, and set correctly.	0	•	•	•	•
Clean the air filter and air filter box. 🔌 (🕮 p. 49)		٠	•	٠	•
Change glass fiber yarn filling in the main silencer. 🔌 (🕮 p. 51)			•	٠	
Service the fork.				•	
Service the shock absorber. A				•	
Check the screws and nuts for tightness.	0	•	•	•	•
Check idle.	0	•	•	•	
Final check: Check the vehicle for operating safety and take a test ride.	0	•	•	•	•
Make the service entry in the KTM Dealer.net and in the Service and Warranty Booklet.		· ·	•	•	

• One-time interval

9 SERVICE SCHEDULE

• Periodic interval

9.3 Recommended work

			after	every	rac
			Ann	ually	
Every 40	opera	nting h	ours		
Once after 20 operating hours / Every 20 operating	ating h	ours			
Once after 10 operating hours / Every 10 operating	nours				
Change the front brake fluid. 🔧				•	
Change the rear brake fluid. 🔦				•	
Change the hydraulic clutch fluid. 🔌 (🕮 p. 60)				•	
Grease the steering head bearing. 🔌 (🕮 p. 44)				•	
Service the fork. 🔌	0				
Service the shock absorber. 🔧		0			
Check/adjust the carburetor components. 🔦			•	٠	
Perform minor engine service. (Check the inlet membrane. Check the clutch. Under difficult operating conditions: Change the piston and check the cylinder and Z dimension.)	٠	٠	•		•
Perform the intermediate engine service. (Change the piston and check the cylinder and Z dimension. Check the exhaust control for functioning and smooth operation.) \checkmark		٠	•		
Perform major engine service including removing and installing the engine. (Change the connecting rod, conrod bearing, and crank pin. Check the transmission and shift mechanism. Change all engine bearings.)			•		

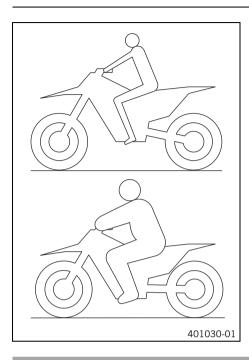
• One-time interval

• Periodic interval

10.1 Checking the basic chassis setting with the rider's weight

• Info

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



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

 As delivered, KTM offroad motorcycles are adjusted for an average rider's weight (with full protective clothing).

Guideline

Standard rider weight	75 85 kg (165 187 lb.)
-----------------------	------------------------

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

10.2 Air suspension AER 48



Air suspension WP Performance Systems AER 48 is used in the fork.

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

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

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

Info

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

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

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

As with a conventional fork, the damping can be adjusted in rebound and compression stages.

The rebound adjuster is located at the lower end of the right fork leg.

The compression adjuster is located at the upper end of the right fork leg.

10.3 Compression damping of the shock absorber

The compression damping of the shock absorber is divided into two ranges: high-speed and low-speed.

High-speed and low-speed refer to the compression speed of the rear wheel suspension and not to the vehicle speed.

The high-speed setting, for example, has an effect on the landing after a jump: the rear wheel suspension compresses quickly.

The low-speed setting, for example, has an effect when riding over long ground swells: the rear wheel suspension compresses slowly. These two ranges can be adjusted separately, although the transition between high-speed and low-speed is gradual. Thus, changes in the high-speed range affect the compression damping in the low-speed range and vice versa.

29

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

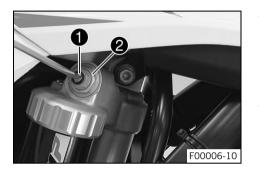
Caution

Risk of injury Parts of the shock absorber will fly off if the shock absorber is disassembled incorrectly. The shock absorber is filled with highly compressed nitrogen.

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

Info

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



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



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

Guideline

Compression damping, low-speed (125/150 SX EU)		
Comfort	17 clicks	
Standard	15 clicks	
Sport	13 clicks	
Compression damping, low-speed (125/150 SX US)		
Comfort	17 clicks	
Standard	15 clicks	
Sport	13 clicks	

Info

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

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

Caution

Risk of injury Parts of the shock absorber will fly off if the shock absorber is disassembled incorrectly. The shock absorber is filled with highly compressed nitrogen.

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

Info

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



- Turn adjusting screw 🕕 all the way clockwise with a socket wrench.



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

Guideline

Compression damping, high-speed (125/150 SX EU)		
Comfort	2 turns	
Standard	1.5 turns	
Sport	1 turn	
Compression damping, high-speed (125/150 SX US)		
Comfort	2.5 turns	
Standard	2 turns	
Sport	1.5 turns	

Info

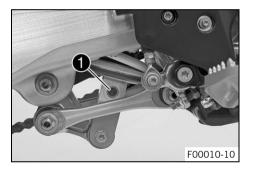
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

10.6 Adjusting the rebound damping of the shock absorber

Caution

Risk of injury Parts of the shock absorber will fly off if the shock absorber is disassembled incorrectly. The shock absorber is filled with highly compressed nitrogen.

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



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

Guideline

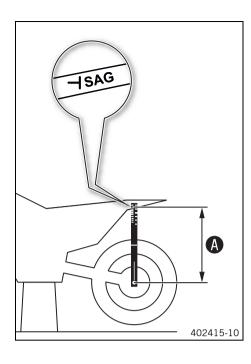
Rebound damping (125/150 SX EU)		
Comfort	17 clicks	
Standard	15 clicks	
Sport	13 clicks	
Rebound damping (125/150 SX US)		
Comfort	17 clicks	
Standard	15 clicks	
Sport	13 clicks	

• Info

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

10.7 Measuring the rear wheel dimension unloaded

Preparatory work



Main work

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

Sag gauge (00029090000)	
Pin for sag gauge (00029990010)	

Note down the value as dimension (A).

Finishing work

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

10.8 Checking the static sag of the shock absorber

A

B

402416-10

- Measure dimension (A) of rear wheel unloaded. (
 P) 30)
- Hold the motorcycle upright with the aid of an assistant.
- Again measure the distance between the rear axle and marking **SAG** on the rear fender using the sag gauge.
- Note down the value as dimension B.

Info

The static sag is the difference between measurements (\mathbf{A}) and (\mathbf{B}) .

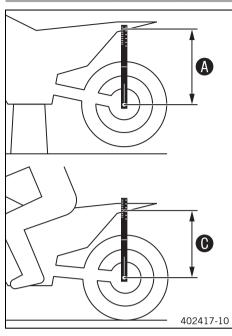
- Check the static sag.

Static sag (125/150 SX EU)	35 mm (1.38 in)
Static sag (125/150 SX US)	35 mm (1.38 in)

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

– Adjust the spring pretension of the shock absorber. 🔌 (🕮 p. 32)

10.9 Checking the riding sag of the shock absorber



- Measure dimension 🚯 of rear wheel unloaded. (🕮 p. 30)
- With another person holding the motorcycle, the rider, wearing full protective clothing, sits on the seat in a normal sitting position (feet on footrests) and bounces up and down a few times.
- ✓ The rear wheel suspension levels out.
- Another person again measures the distance between the rear axle and marking SAG on the rear fender using the sag gauge.
- Note down the value as dimension O.

Info

- The riding sag is the difference between measurements f A and f O.
- Check the riding sag.

Guideline

Riding sag (125/150 SX EU)	105 mm (4.13 in)
Riding sag (125/150 SX US)	105 mm (4.13 in)

- » If the riding sag differs from the specified measurement:
 - Adjust the riding sag. 🔧 (🕮 p. 33)

10.10 Adjusting the spring pretension of the shock absorber A

Caution

Risk of injury Parts of the shock absorber will fly off if the shock absorber is disassembled incorrectly.

The shock absorber is filled with highly compressed nitrogen.

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

lnfo

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

Preparatory work

- Remove the shock absorber. 🔌 (🕮 p. 45)
- After removing the shock absorber, clean it thoroughly.

Main work

- Loosen screw 1.
- Turn adjusting ring 2 until the spring is no longer under tension.

Hook wrench (90129051000)

- Measure the overall spring length while the spring is not under tension.
 - Tighten the spring by turning adjusting ring **2** to measurement **A**. Guideline

Spring preload (125/150 SX EU)	6 mm (0.24 in)
Spring preload (125/150 SX US)	6 mm (0.24 in)

Info

Depending on the static sag and/or the riding sag, it may be necessary to increase or decrease the spring pretension.

- Tighten screw 1

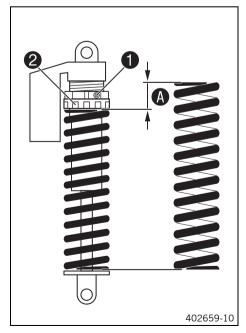
Guideline

Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)

Finishing work

- Install the shock absorber. 🔧 (🕮 p. 46)





10.11 Adjusting the riding sag 🔧

Preparatory work

- Raise the motorcycle with a lift stand. (I p. 38)
- After removing the shock absorber, clean it thoroughly.

Main work

B00292-10

Choose and mount a suitable spring.

Guideline

Spring rate (125/150 SX EU)	
Weight of rider: 65 75 kg (143 165 lb.)	36 N/mm (206 lb/in)
Weight of rider: 75… 85 kg (165… 187 lb.)	39 N/mm (223 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	42 N/mm (240 lb/in)
Spring rate (125/150 SX US)	
Weight of rider: 65 75 kg (143 165 lb.)	36 N/mm (206 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	39 N/mm (223 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	42 N/mm (240 lb/in)

Info

The spring rate is shown on the outside of the spring.

Finishing work

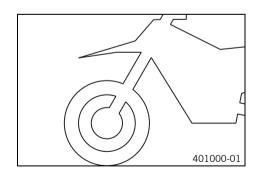
- Install the shock absorber. 🔌 (🕮 p. 46)
- Remove the motorcycle from the lift stand. (
 P. 38)
- Check the static sag of the shock absorber. (
 p. 31)
- Adjust the rebound damping of the shock absorber. (🕮 p. 30)

10.12 Checking the basic setting of the fork

Info

Г....

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



- Smaller differences in the rider's weight can be compensated for by the fork air pressure.
- However, if the fork frequently bottoms out (hard end stop on compression), the fork air pressure must be increased, within the specified values, to avoid damage to the fork and frame.
- If the fork feels unusually hard after extended periods of operation, the fork legs need to be bled.

10.13 Adjusting the fork air pressure

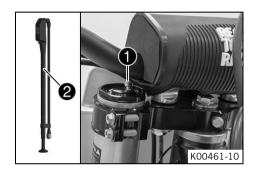
Warning

Danger of accident Modifications to the suspension setting may seriously alter the handling characteristic. Extreme modifications to the suspension setting may cause a serious deterioration in the handling characteristic and overload components.

- Only make adjustments within the recommended range.
- Ride slowly to start with after making adjustments to get the feel of the new handling characteristic.

Info

Check or adjust the air pressure under the same conditions at the earliest 5 minutes after switching off the engine. The air suspension is located in the left fork leg. The pressure and rebound damping is located in the right fork leg.



Preparatory work

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

Main work

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- Remove protection cap 🚺.
- Push fork pump **2** together fully.

Fork pump (79412966000)

• Info The

The fork pump is included as part of the motorcycle's separate enclosure.

- Connect the fork pump to the left fork leg.
 - ✓ The fork pump indicator switches on automatically.
 - A little air escapes from the fork leg when connecting.

Info

This is due to the volume of the hose and not due to a defect in the fork pump or the fork.

Read the accompanying KTM PowerParts instructions.

Adjust the air pressure as specified.

Guideline

Air pressure (125/150 SX EU)	8.5 bar (123 psi)
Air pressure (125/150 SX US)	8.6 bar (125 psi)
Changing of the air pressure in steps of	0.2 bar (3 psi)
Minimum air pressure	7 bar (102 psi)
Maximum air pressure	15 bar (218 psi)

Info Neve

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

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

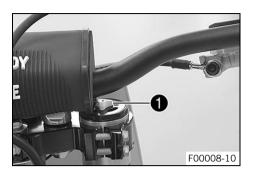
Finishing work

10 TUNING THE CHASSIS

10.14 Adjusting the compression damping of the fork

• Info

The hydraulic compression damping determines the fork suspension behavior.



Turn adjusting screw 1 clockwise all the way.

• Info

Adjusting screw 1 is located at the upper end of the right fork leg.

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

Compression damping (125/150 SX EU)		
Comfort	17 clicks	
Standard	12 clicks	
Sport	7 clicks	
Compression damping (125/150 SX US)		
Comfort	17 clicks	
Standard	12 clicks	
Sport	7 clicks	

Info

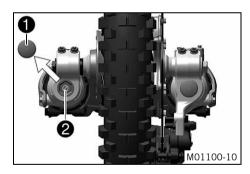
Turn clockwise to increase damping; turn counterclockwise to reduce damping.

10.15 Adjusting the rebound damping of the fork

i

Info

The hydraulic rebound damping determines the fork suspension behavior.



- Remove protection cap **①**.
- Turn adjusting screw 2 clockwise all the way.

Info

Adjusting screw 2 is located at the lower end of the right fork leg.

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

Rebound damping (125/150 SX EU)			
Comfort	17 clicks		
Standard	12 clicks		
Sport	7 clicks		
Rebound damping (125/150 SX US)			
Comfort	17 clicks		
Standard	12 clicks		
Sport	7 clicks		

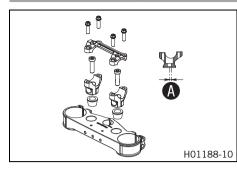
• Info

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

- Mount protection cap 1.

10 TUNING THE CHASSIS

10.16 Handlebar position



Hole distance A 3.5 mm (0.138 in)			
The handlebar can be mounted in 2 different positions. In this way, the handlebar can be mounted in the most comfortable position for the rider.			

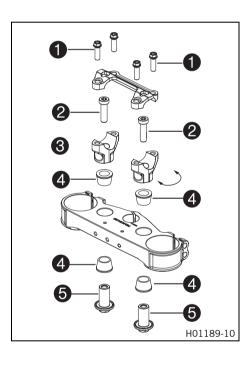
10.17 Adjusting the handlebar position 🔦

Warning

Danger of accidents A repaired handlebar poses a safety risk.

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

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



Preparatory work

- Remove the handlebar cushion.

Main work

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- Remove screws 1. Remove the handlebar clamp. Remove the handlebar and lay it to one side.

• Info

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

- Remove screws 2. Take off handlebar supports 3.
- Position rubber bushings **4** and push through nuts **5** from below.
 - Place the handlebar supports in the required position.

• Info The

- The handlebar supports are longer and higher on one side. Position the left and right handlebar supports evenly.
- Mount and tighten screws **2**.

Guideline

Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
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Position the handlebar.

• Info Mak

Make sure the cables and wiring are positioned correctly.

- Position the handlebar clamp.
- Mount screws 1 but do not tighten yet.
- First bolt the handlebar clamp with screws 1 onto the longer, higher side of the handlebar supports so that both parts touch.

Guideline

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

Tighten screws 1 evenly.

Guideline

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

10 TUNING THE CHASSIS

Finishing work

- Mount the handlebar cushion.

11.1 Raising the motorcycle with a lift stand

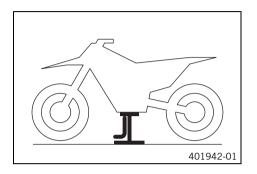
Note

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

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

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



- Raise the motorcycle at the frame underneath the engine.

Lift stand (78129955100)

✓ Neither wheel is in contact with the ground.

- Secure the motorcycle against falling over.

11.2 Removing the motorcycle from the lift stand

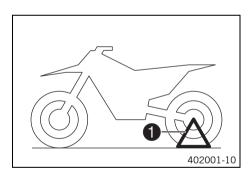
Note

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

Significant damage may be caused if the vehicle rolls away or falls over.

The components for parking the vehicle are designed only for the weight of the vehicle.

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

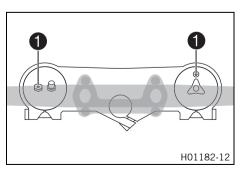


- Remove the motorcycle from the lift stand.
- Remove the lift stand.
- To park the motorcycle, insert plug-in stand 1 into the left side of the wheel spindle.

• Info

Remove the plug-in stand before riding.

11.3 Bleeding the fork legs



Preparatory work

Main work

Release bleeder screws 1.

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

Finishing work

- Remove the motorcycle from the lift stand. (
P. 38)

11.4 Cleaning the dust boots of the fork legs

Preparatory work

- Raise the motorcycle with a lift stand. (I p. 38)
- Remove the fork protector. (🕮 p. 40)

Main work

Push dust boots 1 of both fork legs downward.

Info

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

Warning

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

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

Universal oil spray (🕮 p. 106)

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

Finishing work

- Install the fork protector. (🕮 p. 40)

11.5 Removing the fork legs 🔌

Preparatory work

- Remove the front wheel.

 (Image: Participation of the second seco

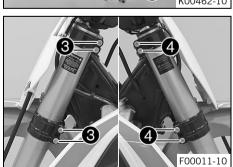
Main work

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

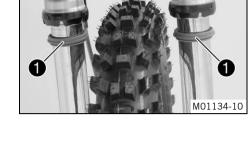
• Info

Do not activate the hand brake lever while the front wheel is removed.

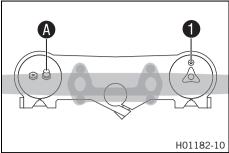
- Unscrew screws **3**. Take out the left fork leg.
- Unscrew screws 4. Take out the right fork leg.

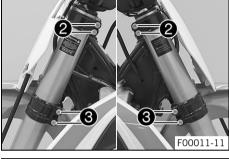






11.6 Installing the fork legs 🔌







Main work

- Position the fork legs.
 - ✓ Bleeder screw ① of the right fork leg is positioned to the front.
 - ✓ Valve ▲ of the left fork leg faces the front.

Info

Grooves are milled into the side of the upper end of the fork legs. The second milled groove (from the top) must be flush with the top edge of the upper triple clamp.

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

- Tighten screws 2.

Guideline

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)

Tighten screws 3.

Guideline		
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)

Position the brake caliper. Mount and tighten screws 4.

Gu	ide	line

Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
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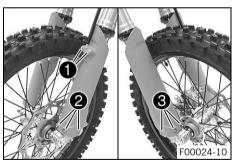
Position the brake line and clamp. Mount and tighten screws (5).

Finishing work

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Install the front wheel. ◄ (p. 71)

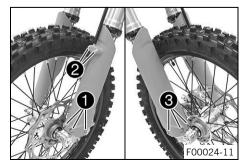
11.7 Removing the fork protector



Remove screws 1. Remove the clamp.

- Remove screws 2. Take off the left fork protector.
- Remove screws 🕄. Take off the right fork protector.

11.8 Installing the fork protector



-	- Position the fork protection on the left fork leg. Mount and tighten screws $oldsymbol{1}$.		
	Guideline		
	Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
-	Position the brake line and clamp. Mount	and tighten screws	2 .
-	Position the fork protector on the right fork leg. Mount and tighten screws $oldsymbol{3}$.		
	Guideline		

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

11.9 Removing the lower triple clamp 🔌

Preparatory work

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

 (Image: Participation of the second seco
- Remove the fork legs. A (I p. 39)
- Remove the start number plate. (🕮 p. 44)
- Remove the handlebar cushion.

Main work

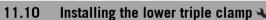
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- Remove screw 1.
- Remove screw 2.
- Pull off the upper triple clamp with the handlebar and hang to the side.



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

- Remove O-ring 3. Remove protective ring 4.
- Take off the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.



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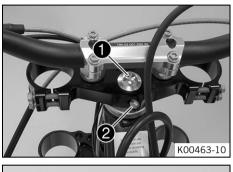
Main work

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

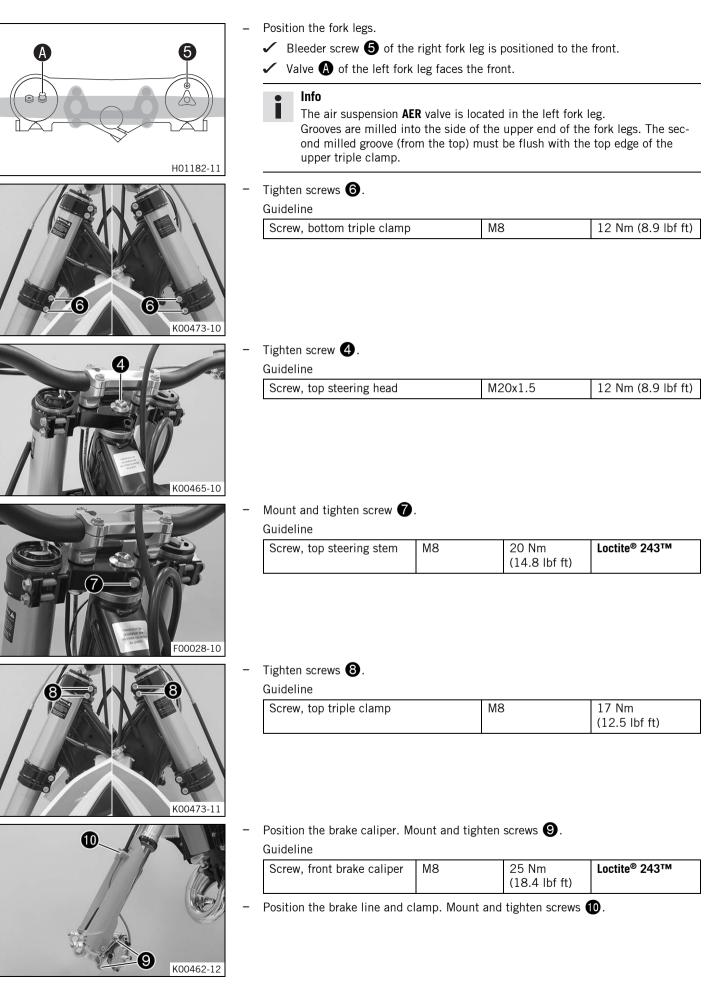
High viscosity grease (🕮 p. 105)

- Insert the lower triple clamp with the steering stem. Mount the upper steering head bearing.
- Check whether upper steering head seal 1 is correctly positioned.
- Slide on protective ring **2** and O-ring **3**.

- Position the upper triple clamp with the handlebar.
- Mount screw 4 but do not tighten yet.







Finishing work

- Check that the wiring harness, throttle cables, and brake and clutch lines can move freely and are routed correctly.
- Install the front fender. (🕮 p. 45)
- Install the front wheel. 🔌 (🕮 p. 71)
- _ Check the play of the steering head bearing. (
 p. 43)
- Remove the motorcycle from the lift stand. (B) p. 38)
- Install the start number plate. (
 p. 44)
- Mount the handlebar cushion.

11.11 Checking the play of the steering head bearing

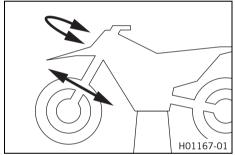
Warning

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

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

Info

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



Preparatory work

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

Main work

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

Play should not be detectable on the steering head bearing.

- If there is detectable play:
- Move the handlebar to and fro over the entire steering range.

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

- If detent positions are detected:
 - Adjust the steering head bearing play. \checkmark (🕮 p. 43)
 - _ Check the steering head bearing and change if necessary.

Finishing work

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

Adjusting the steering head bearing play 🔌 11.12

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Preparatory work

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

Main work

- Loosen screws 1.
- Remove screw **2**.
- Loosen and retighten screw 3.

Guideline

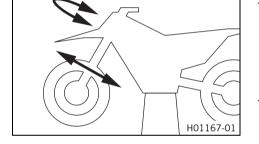
Guideline

Screw, top steering headM20x1.512 Nm (8.9 lbf ft)

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid stresses.
- Tighten screws 1.

Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)
		(12.5 IDI IL)

Mount and tighten screw **2**.



Guideline

Screw, top steering stem M8 20 Nm (14.8 lbf ft) Loc	octite [®] 243™

Finishing work

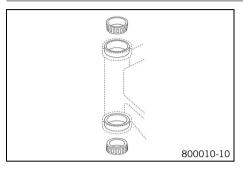
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- Check the play of the steering head bearing. (\blacksquare p. 43)
- Mount the handlebar cushion.

11.13 Greasing the steering head bearing 🔦



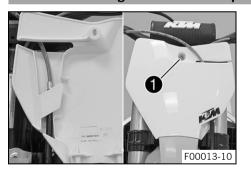
- Remove the lower triple clamp. 🔧 (🕮 p. 41)
 - Install the lower triple clamp. 🔌 (🕮 p. 41)

11.14 Removing the start number plate

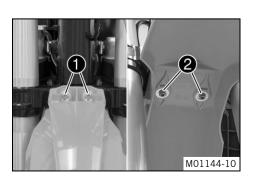


- Remove screw 1.
- Disconnect the brake line at the start number plate. Take off the start number plate.

11.15 Installing the start number plate



- Connect the brake line at the start number plate.
- Position the start number plate.
 - ✓ The holding lugs engage in the fender.
 - Mount and tighten screw **1**.
- 11.16 Removing the front fender

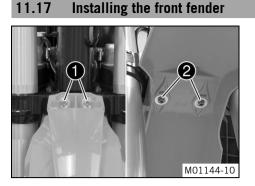


Preparatory work

- Remove the start number plate. (
p. 44)

Main work

- Remove screws **1** and **2**. Remove the front fender.



Main work

Position the front fender. Mount and tighten screws 1 and 2.
 Guideline

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

Finishing work

- Install the start number plate. (I p. 44)

11.18 Removing the shock absorber -

Preparatory work

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

Main work

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- Remove screws ① with the washers and remove screws ②.
 - Remove the cable ties and remove the frame protectors on the left and right.

Remove screw **3**.

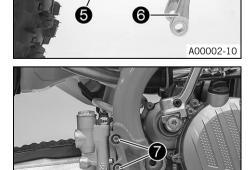
Remove fitting **4**.

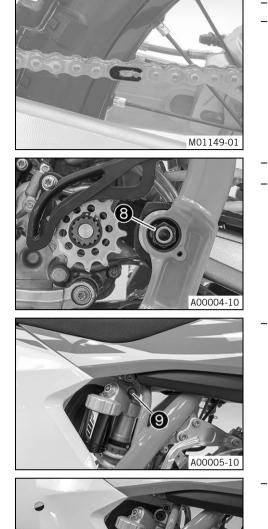


Raise the wheel slightly to be able to remove the screws more easily.

- Press angle lever **5** toward the rear.
 - Press linkage lever 6 downward.

- Remove screws **7** and pull foot brake cylinder off the push rod.





- Remove the connecting link of the chain.
- Take off the chain.

- Remove nut **8** and pull out the swingarm pivot.
 - Push the swingarm back and secure it against falling over.

- Hold the shock absorber and remove screw **9**.

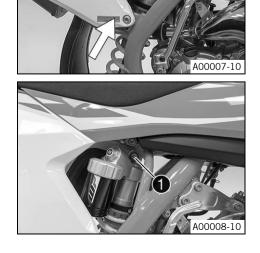
- Remove the shock absorber carefully at the bottom.



Main work

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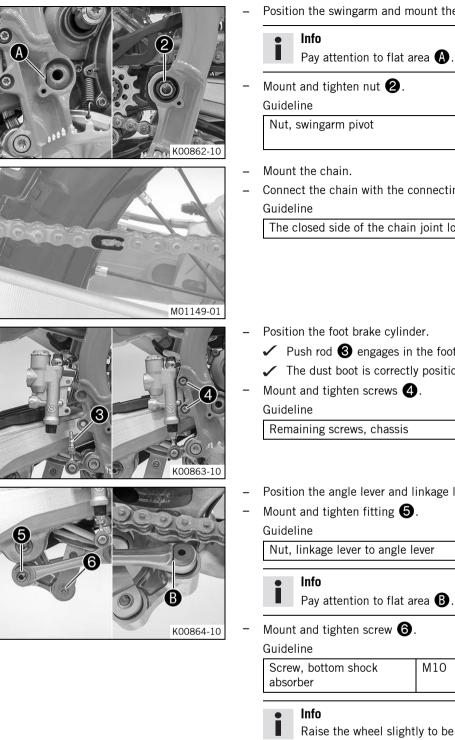
- Carefully position the shock absorber into the vehicle from the bottom.



Mount and tighten screw **1**.

Guideline

Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
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- Position the swingarm and mount the swingarm pivot.
 - Pay attention to flat area \mathbf{A} .

Nut, swingarm pivot M	M16x1.5	100 Nm (73.8 lbf ft)
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Connect the chain with the connecting link.

The closed side of the chain joint lock must face in the direction of travel.

- ✓ Push rod ③ engages in the foot brake cylinder.
- ✓ The dust boot is correctly positioned.

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Position the angle lever and linkage lever.

Nut, linkage lever to angle lever	M14x1.5	80 Nm (59 lbf ft)
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Screw, bottom shock	M10	60 Nm	Loctite [®] 2701™
absorber		(44.3 lbf ft)	

Raise the wheel slightly to be able to mount the screw more easily.

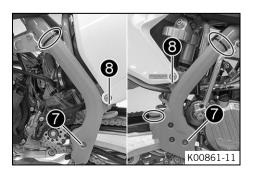
- Position the frame protectors on the left and right.
- Mount and tighten screws $\mathbf{0}$ with the washers and mount and tighten screws $\mathbf{0}$. Guideline

Screw, frame protector	M5	3 Nm (2.2 lbf ft)
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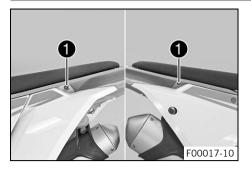
Mount the cable tie(s).

Finishing work

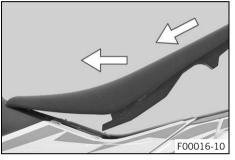
Remove the motorcycle from the lift stand. (IP p. 38) _

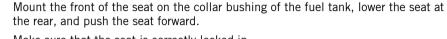


11.20 Removing the seat



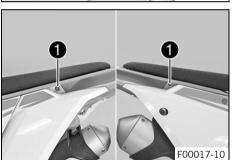
11.21 Mounting the seat





- Make sure that the seat is correctly locked in.

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



Mount and tighten screws ①.
 Guideline

Remove screws 1.

_

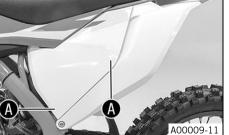
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Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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11.22 Removing the air filter box cover





Condition

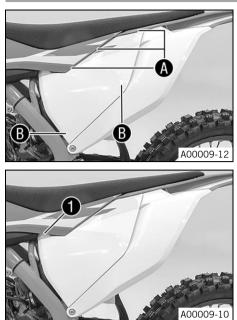
_

The air filter box cover is secured.

- Remove screw 1.

 \cdot Pull off the air filter box cover in area $oldsymbol{A}$ sideways and remove it toward the front.

11.23 Installing the air filter box cover



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

Condition

_

The air filter box cover is secured.

- Mount and tighten screw 🚺.

~		1.1
(GU	lide	line
-	nao	

Screw, air filter box cover EJOT PT®	3 Nm	EJOT PT screw
K60x20-Z	(2.2 lbf ft)	(0017060204)

11.24 Removing the air filter 🔌

Note

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

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

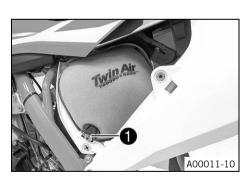
- Never start to use the vehicle without an air filter.



Warning

Environmental hazard Hazardous substances cause environmental damage.

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



Preparatory work

Main work

- Detach retaining tab 1. Remove air filter with air filter support.
- Take off air filter from air filter support.

11.25 Cleaning the air filter and air filter box 🔧

🖉 Warning

Environmental hazard Hazardous substances cause environmental damage.

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

lnfo

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

Preparatory work

- Remove the air filter. 🔌 (🕮 p. 49)



Main work

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

```
Air filter cleaner (🕮 p. 105)
```

Info

- Only squeeze the air filter to dry it; never wring it out.
- Oil the dry air filter with a high quality filter oil. _

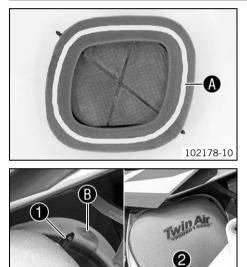
Oil for foam air filter (🕮 p. 105)

- Clean the air filter box. _
- Clean the intake flange and check it for damage and tightness. _

Finishing work

- Install the air filter. 🔌 (🕮 p. 50)
- Install the air filter box cover. (
 p. 49) _

11.26 Installing the air filter 🔌



Main work

- Mount the clean air filter on the air filter support.
- Grease the air filter in area **A**.
 - Long-life grease (🕮 p. 105)
- Insert the air filter and position the top retaining pin (1) in bushing (3). _ ✓ The air filter is correctly positioned.
- Secure the bottom retaining pin with holding tab **2**.



Info

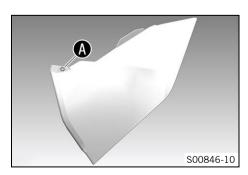
If the air filter is not mounted correctly, dust and dirt may enter the engine and result in damage.

Finishing work

Install the air filter box cover. (E p. 49) _

11.27 Securing the air filter box cover 🔌

A00032-10



Preparatory work

Remove the air filter box cover. (📖 p. 48) _

Main work

_

- Drill a hole at marking \mathbf{A} .
- Guideline

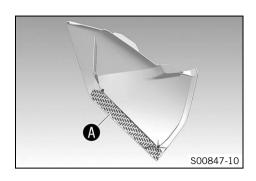
Diameter

6 mm (0.24 in)

Finishing work

Install the air filter box cover. (🕮 p. 49)

11.28 Sealing the air filter box 🔌



Preparatory work

Main work

- Seal the air filter box in marked area (A).

Finishing work

Install the air filter box cover. (🕮 p. 49)

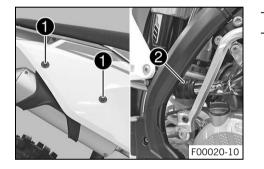


11.29 Removing the main silencer

Warning

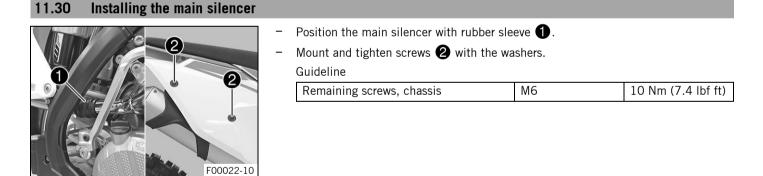
Danger of burns The exhaust system gets very hot when the vehicle is driven.

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



Remove screws **①** with the washers.

 $^\circ$ Pull off the main silencer from the manifold at rubber sleeve $oldsymbol{2}$.



11.31 Changing the glass fiber yarn filling in the main silencer 🔌

Warning

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

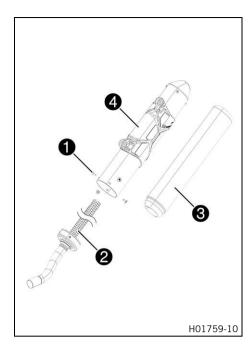
- Allow the exhaust system to cool down before performing any work on the vehicle.

Info

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

Preparatory work

- Remove the main silencer. (🕮 p. 51)



Main work

- Remove screws 1. Pull out inner tube 2.
- Remove the glass fiber yarn filling **3** from the inner tube.
- Clean the parts that need to be reinstalled and check for damage.
- Fit the new glass fiber yarn filling 3 into the inner tube.
 - Slide outer tube ${f Q}$ over the inner tube with the new glass fiber yarn filling.
- Mount and tighten all screws 1.

Guideline
Screws on the main silencer
M5

7 Nm (5.2 lbf ft)

Finishing work

- Install the main silencer. (🕮 p. 51)

11.32 Removing the fuel tank 🔦

1 Danger

Fire hazard Fuel is highly flammable.

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

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

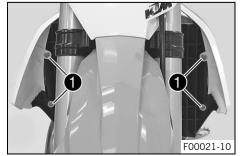
Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Preparatory work

- Remove the seat. (🕮 p. 48)
- Turn handle 1 of the fuel tap to the OFF position. (Figure K00858-10🕮 p. 13)

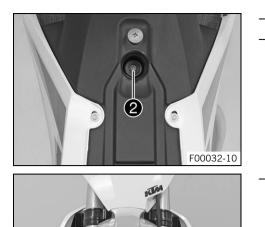


- Main work
 - Pull off the fuel hose.



Remaining fuel may flow out of the fuel hose.

Remove screws 1.



- Remove screw **2** with the rubber bushing.
- Pull the fuel tank breather hose off the tank lid.

Pull both spoilers off the sides of the radiator bracket and lift off the fuel tank.

11.33 Installing the fuel tank 🔦

Danger

Fire hazard Fuel is highly flammable.

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

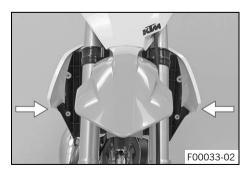
F00033-01

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

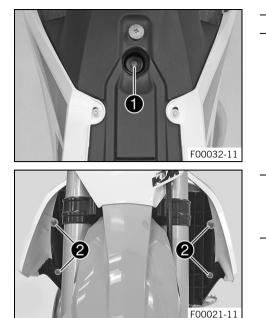
- Avoid skin, eye and clothing contact with fuel.
- Immediately consult a doctor if you swallow fuel.
- Do not inhale fuel vapors.
- In case of skin contact, rinse the affected area with plenty of water.
- Rinse the eyes thoroughly with water, and consult a doctor in case of fuel contact with the eyes.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



Main work

- Check the throttle cable routing. (
p. 58)

- Position the fuel tank and fit the two spoilers to the sides of the radiator bracket.
- Make sure that no cables or throttle cables are trapped or damaged.



- Mount the fuel tank breather hose.
- Mount and tighten screw
 with the rubber bushing. Guideline

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

Μ6

Mount and tighten screws **2**.

Remaining screws, chassis

Connect the fuel hose.

Guideline

Finishing work

Mount the seat. (🕮 p. 48)

11.34 Checking the chain for dirt	
	 Check the chain for heavy soiling. » If the chain is very dirty: – Clean the chain. (
00000000	
400678-01	

11.35 Cleaning the chain

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

- Remove the lubricant from the tires using a suitable cleaning agent.



Warning

Warning

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

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

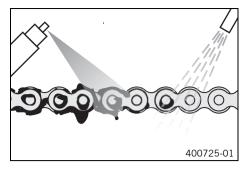
Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

e Info

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

Preparatory work

10 Nm (7.4 lbf ft)



Main work

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

Chain cleaner (🕮 p. 105)

After drying, apply chain spray.

Off-road chain spray (🕮 p. 105)

Finishing work

11.36 Checking the chain tension

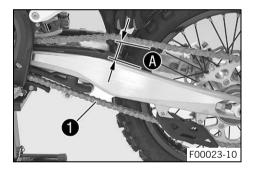
Warning

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

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

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



Preparatory work

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

Main work

Pull the chain at the end of the chain sliding piece upward to measure chain tension **(A)**.

Guideline

The lower chain section 1 must be taut.

Info

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

Chain tension	55 58 mm (2.17 2.28 in)

- If the chain tension does not meet the specification:

Finishing work

- Remove the motorcycle from the lift stand. (
P. 38)

11.37 Adjusting the chain tension

Warning

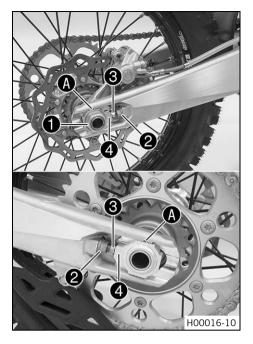
Danger of accidents Incorrect chain tension damages components and results in accidents.

If the chain is tensioned too much, the chain, engine sprocket, rear sprocket, transmission and rear wheel bearings wear more quickly. Some components may break if overloaded.

If the chain is too loose, the chain may fall off the engine sprocket or the rear sprocket. As a result, the rear wheel locks or the engine will be damaged.

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

Preparatory work



Main work

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

Chain tension55... 58 mm (2.17... 2.28 in)Turn adjusting screws ③ on the left and right so that the markings on the
left and right chain adjusters are in the same position relative to reference
marks ④. The rear wheel is now correctly aligned.

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

- Tighten nut 🚺.

Guideline

Nut, rear wheel spindleM25x1.580 Nm (59 lbf ft)

Info

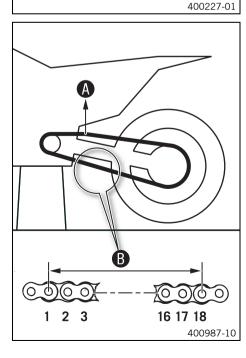
The wide adjustment range of the chain adjusters (32 mm) enables different secondary ratios with the same chain length. Chain adjusters (4) can be turned by 180°.

Finishing work

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

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

Preparatory work



Main work

– Shift the transmission to idle.

- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Change the drivetrain kit. 🔧

lnfo

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

Guideline

Weight, chain wear measurement 10... 15 kg (22... 33 lb.)

Measure distance **B** of 18 chain rollers in the lower chain section.

• Info

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

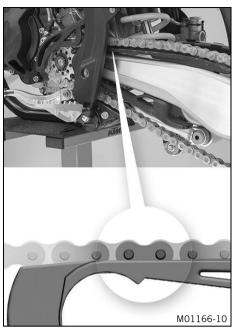
Maximum distance $oldsymbol{B}$ at the longest	272 mm (10.71 in)
chain section	

- » If distance **B** is greater than the specified measurement:
 - Change the drivetrain kit. 🔌

Info

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

New chains wear out faster on old, worn sprockets.



Change the chain sliding guard.
 Check that the chain sliding guard is firmly seated.

guard:

»

» If the chain sliding guard is loose:

Check the chain sliding guard for wear.

- Tighten the screws on the chain sliding guard.

Guideline

Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
----------------------------	----	----------------------	---------------------------

If the lower edge of the chain pins is in line with or below the chain sliding

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

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

- Check the chain guide with a slide gauge for dimension **()**.

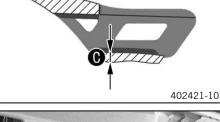
Minimum thickness () of the chain 6 guide	5 mm (0.24 in)
--	----------------

- If the measured value is less than the specification:
 - Change the chain guide. 🔌
- Check that the chain guide is firmly seated.
 - » If the chain guide is loose:
 - Tighten the screws on the chain guide.
 Guideline

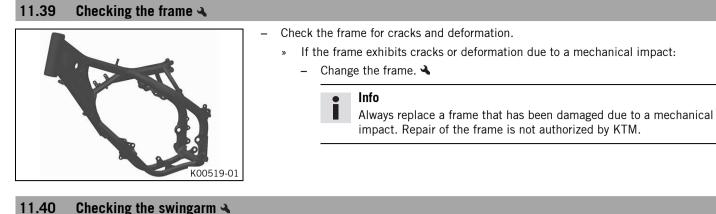
Guideline		
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)

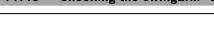
Finishing work







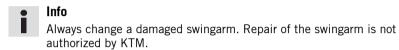






- Check the swingarm for damage, cracking, and deformation.

- » If the swingarm shows signs of damage, cracking, or deformation:
 - Change the swingarm. 🔦



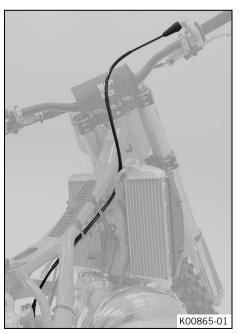
11.41 Checking the throttle cable routing

Warning

Danger of accidents The throttle cable may slip out of the guide if routed incorrectly.

The throttle slide will then no longer be closed and the speed can no longer be controlled.

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



Preparatory work

- Remove the seat. (🕮 p. 48)

- Turn handle 🕕 of the fuel tap to the **OFF** position. (Figure K00858-10🕮 p. 13)
- Remove the fuel tank. 🔌 (🕮 p. 52)

Main work

Check the throttle cable routing.

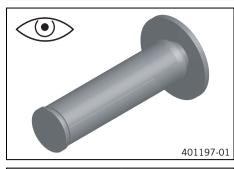
The throttle cable must be routed along the back of the handlebar, to the right of the frame, above the fuel tank bracket, and to the carburetor. The throttle cable must be fixed on the fuel tank bracket with a rubber band.

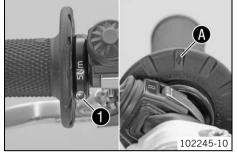
- If the throttle cable is not routed as specified:
- Correct the throttle cable routing.

Finishing work

- Install the fuel tank. 🔧 (🕮 p. 53)
- Mount the seat. (🕮 p. 48)

11.42 Checking the rubber grip





Check the rubber grips on the handlebar for damage, wear, and looseness.

Info

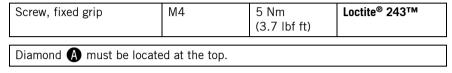
The rubber grips are vulcanized onto a sleeve on the left and onto the handle tube of the throttle grip on the right. The left sleeve is clamped onto the handlebar.

59

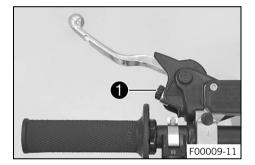
The rubber grip can only be replaced with the sleeve or the throttle tube.

- » If a rubber grip is damaged or worn:
 - Change the rubber grip.
- Check that screw 🕦 is firmly seated.

Guideline



11.43 Adjusting basic position of clutch lever



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

lnfo

Turn the adjusting screw counterclockwise to decrease the distance between the clutch lever and the handlebar. Turn the adjusting screw clockwise to increase the distance between the

clutch lever and the handlebar. The range of adjustment is limited.

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

Do not make any adjustments while riding.

11.44 Checking/correcting the fluid level of the hydraulic clutch

Warning

Skin irritation Brake fluid causes skin irritation.

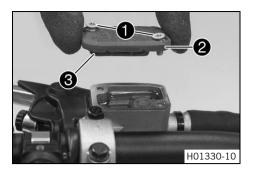
- Keep brake fluid out of the reach of children.
- Wear suitable protective clothing and safety glasses.
- Do not allow brake fluid to come into contact with the skin, the eyes or clothing.
- Consult a doctor immediately if brake fluid has been swallowed.
- Rinse the affected area with plenty of water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

• Info

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

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

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



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

Fluid level below container rim	4 mm (0.16 in)
---------------------------------	----------------

» If the fluid level does not meet specifications:

- Correct the fluid level of the hydraulic clutch.

Brake fluid DOT 4 / DOT 5.1 (🕮 p. 103)

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

• Info

Clean up overflowed or spilled brake fluid immediately with water.

11.45 Changing the hydraulic clutch fluid 🔌



Warning

Skin irritation Brake fluid causes skin irritation.

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

A00010-10

ر Warning

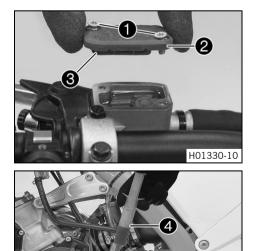
Environmental hazard Hazardous substances cause environmental damage.

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

lnfo

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

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



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

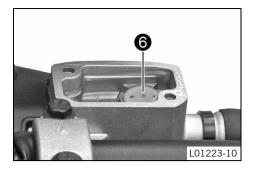
Fill bleeding syringe $oldsymbol{4}$ with the appropriate hydraulic fluid.

Bleed syringe (50329050000)
Brake fluid DOT 4 / DOT 5.1 (🕮 p. 103)

• On the clutch slave cylinder, remove bleeder screw (5) and mount bleeding syringe (4).

_

_



- Now inject the liquid into the system until it emerges from the drill hole 6 of the master cylinder without bubbles.
- Now and then, extract fluid from the master cylinder reservoir to prevent overflow.
- Remove the bleeding syringe. Mount and tighten screws bleeder screw.
- Correct the fluid level of the hydraulic clutch. Guideline

Fluid	level bel	ow container	rim	4 m	ım (0.16 in)	
-						

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

• Info Clea

Clean up overflowed or spilled brake fluid immediately with water.

12.1

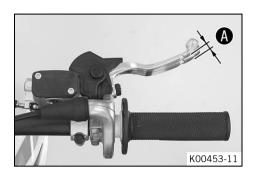
Warning

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

Checking the free travel of the hand brake lever

If there is no free travel on the hand brake lever, pressure builds up on the front brake circuit.

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



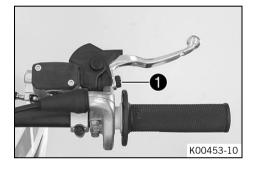
 \cdot Push the hand brake lever forward and check free travel $oldsymbol{\mathbb{A}}$.

Free travel of hand brake lever	≥ 3 mm (≥ 0.12 in)
---------------------------------	--------------------

» If the free travel does not meet specifications:

– Adjust the basic position of the hand brake lever. (🕮 p. 62)

12.2 Adjusting the basic position of the hand brake lever



- Check the free travel of the hand brake lever. (🕮 p. 62)
- Adjust the basic position of the hand brake lever to your hand size by turning adjusting screw **1**.



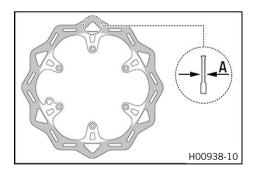
Turn the adjusting screw clockwise to increase the distance between the hand brake lever and the handlebar.
Turn the adjusting screw counterclockwise to decrease the distance between the hand brake lever and the handlebar.
The range of adjustment is limited.
Only turn the adjusting screw by hand, and do not use force.
Do not make any adjustments while riding.

12.3 Checking the brake discs

Warning

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

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



Check the thickness of the front and rear brake discs at multiple points on each brake disc to ensure it is at least thickness (A).

Info

Wear reduces the thickness of the brake disc around the area used by the brake linings.

Brake discs - wear limit

Brake discs - wear limit	
Front	2.5 mm (0.098 in)
Rear	3.5 mm (0.138 in)

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

12.4 Checking the front brake fluid level

Warning

Warning

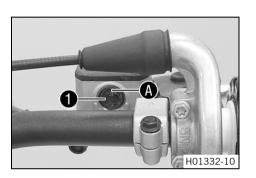
Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

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

Danger of accidents Old brake fluid reduces the braking effect.

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



Preparatory work

- Check the front brake linings. (🕮 p. 64)

Main work

- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
 - Check the brake fluid level in the viewer lacksquare .
 - If the brake fluid level is below the 🚯 marking:
 - 🛛 Add front brake fluid. 🔧 (🕮 p. 63)

12.5 Adding front brake fluid 🔧

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

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

Warning

Skin irritation Brake fluid causes skin irritation.

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

Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



Warning

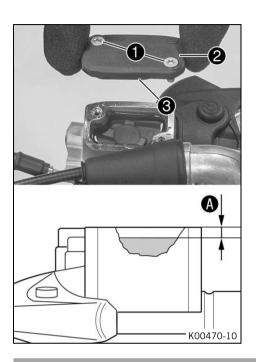
Environmental hazard Hazardous substances cause environmental damage.

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

lnfo

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

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



Preparatory work

- Check the front brake linings. (🕮 p. 64)

Main work

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

Add brake fluid to level (A).

Guideline

Level (brake fluid level below reservoir rim)	5 mm (0.2 in)	
Brake fluid DOT 4 / DOT 5.1 (鷗 p. 103)		

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



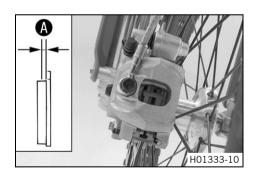
Clean up overflowed or spilled brake fluid immediately with water.

12.6 Checking the front brake linings

Warning

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

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



Check the brake linings for minimum thickness (A).

Minimum thickness (A) $\geq 1 \text{ mm} (\geq 0.04 \text{ in})$		um thickness 🚯	≥ 1 mm (≥ 0.04 in)
--	--	----------------	--------------------

- » If the minimum thickness is less than specified:
- Change the front brake linings. 🔌 (🕮 p. 64)
- Check the brake linings for damage and cracking.
 - » If damage or cracking is visible:
 - Change the front brake linings. 🔌 (🕮 p. 64)

12.7 Changing the front brake linings 🔌

Warning

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

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



Warning

Skin irritation Brake fluid causes skin irritation.

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

Warning

Danger of accidents Old brake fluid reduces the braking effect.

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

Warning

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

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

Warning

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

Not all brake linings are tested and approved for KTM motorcycles. The structure and friction coefficient of the brake linings, and thus their brake power, may vary greatly from that of original brake linings.

If brake linings are used that differ from the original equipment, compliance with the original homologation is not guaranteed. In this case, the vehicle no longer corresponds to its condition at delivery and the warranty shall be void.

Only use brake linings approved and recommended by KTM.



Warning

Environmental hazard Hazardous substances cause environmental damage.

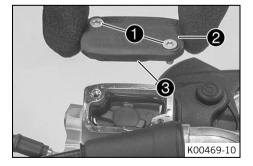
Dispose of oils, grease, filters, fuel, cleaning agents, brake fluid, etc., correctly and in compliance with the applicable regulations.

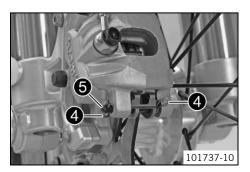
Info

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

Avoid contact between brake fluid and painted parts. Brake fluid attacks paint.

Only use clean brake fluid from a sealed container.



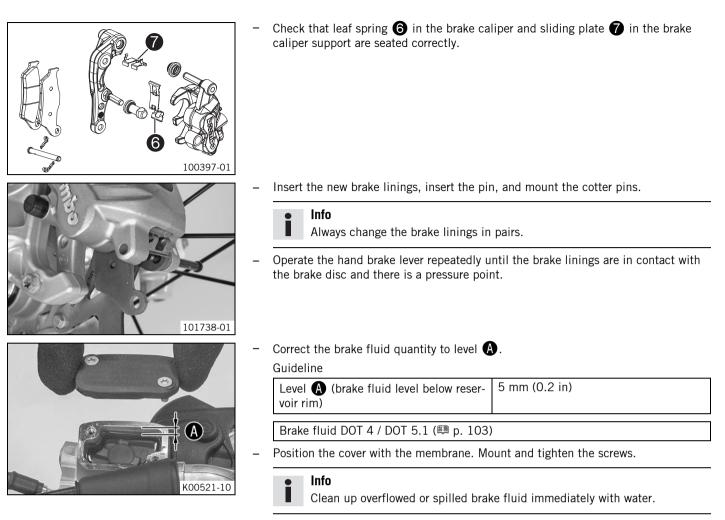


- Move the brake fluid reservoir mounted on the handlebar to a horizontal position.
- Remove screws 1.
- Remove cover **2** with membrane **3**.
- Manually press the brake caliper toward the brake disc to push back the brake pistons. Ensure that brake fluid does not flow out of the brake fluid reservoir, if necessary extract excess.



Make sure that you do not press the brake caliper against the spokes when pushing back the brake pistons.

- Remove cotter pins **4**, pull out pin **5**, and remove the brake linings.
- Clean the brake caliper and brake caliper support.



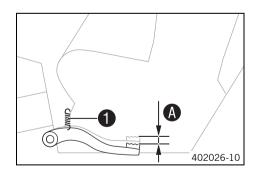
2.8 Checking the free travel of foot brake lever

Warning

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

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

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



Disconnect spring 1.

Move the foot brake lever back and forth between the end stop and the contact to the foot brake cylinder piston and check free travel (A). Guideline Free travel at foot brake lever 3... 5 mm (0.12... 0.2 in)

If the free travel does not meet specifications: Adjust the basic position of the foot brake lever. 🔌 (🕮 p. 66)

Reconnect spring 1.

12.9 Adjusting the basic position of the foot brake lever 🔌

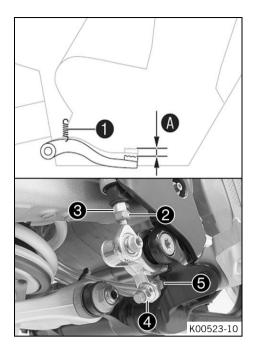


Warning

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

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

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



- Detach spring 🚺.
- Loosen nut ② and, with push rod ③, turn it back until you have maximum free travel.
- To adjust the basic position of the foot brake lever to individual requirements, loosen nut 4 and turn screw 5 accordingly.



The range of adjustment is limited.

 Turn push rod 3 accordingly until you have free travel A. If necessary, adjust the basic position of the foot brake lever.

Guideline

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

- Hold screw 😉 and tighten nut 4 .

Guideline			
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)	

Hold push rod ③ and tighten nut ②. Guideline

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

- Attach spring 🕦.

12.10 Checking the rear brake fluid level

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

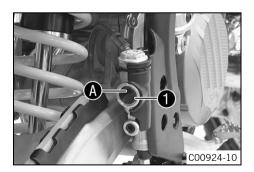
 Check the brake system and do not continue riding until the problem is eliminated. (Your authorized KTM workshop will be glad to help.)



Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



Preparatory work

- Check the rear brake linings. (🕮 p. 68)

Main work

Stand the vehicle upright.

- Check the brake fluid level in level viewer 1.
 - » If the brake fluid has dropped below marking 🚯 :
 - Add rear brake fluid. 🔧 (🕮 p. 68)

12.11 Adding rear brake fluid 🔌

Warning

Danger of accidents An insufficient brake fluid level will cause the brake system to fail.

If the brake fluid level drops below the specified marking or the specified value, the brake system is leaking or the brake linings are worn down.

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

Warning

Skin irritation Brake fluid causes skin irritation.

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

Warning

Danger of accidents Old brake fluid reduces the braking effect.

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

Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

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

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

H01335-10

Preparatory work

Check the rear brake linings. (
p. 68)

Main work

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

Mount the screw cap with the membrane and the O-ring.

Info

Clean up overflowed or spilled brake fluid immediately with water.

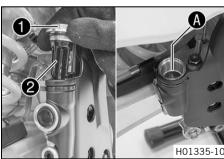
12.12 Checking the rear brake linings



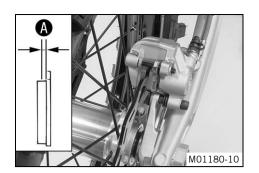
Warning

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

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







- Check the brake linings for minimum thickness (A).

Minimum thickness A	≥ 1 mm (≥ 0.04 in)
» If the minimum thickness is less than specified:	

- Change the rear brake linings. 🔌 (🕮 p. 69)
- Check the brake linings for damage and cracking.
 - » If damage or cracking is visible:
 - Change the rear brake linings. 🔌 (🕮 p. 69)

12.13 Changing the rear brake linings 🔌

Warning

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

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



Warning

Skin irritation Brake fluid causes skin irritation.

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

Warning

Danger of accidents Old brake fluid reduces the braking effect.

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



Warning

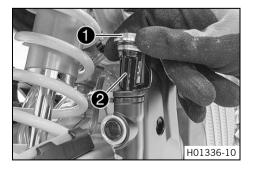
Environmental hazard Hazardous substances cause environmental damage.

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

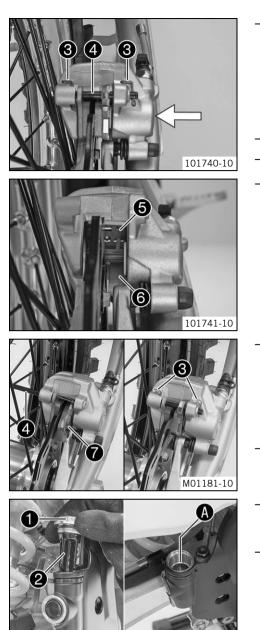
Info

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

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



- Stand the vehicle upright.
- Remove screw cap 🚺 with membrane 2 and the O-ring.



- Manually press the brake caliper to the brake disc to push back the brake piston. Ensure that brake fluid does not flow out of the brake fluid reservoir, extracting it by suction if it does.

Info

Make sure when pushing back the brake piston that you do not press the brake caliper against the spokes.

- Remove cotter pins (3), pull out pin (4), and remove the brake linings.
- Clean the brake caliper and brake caliper support.
- Check that leaf spring **6** in the brake caliper and sliding plate **6** in the brake caliper support are seated correctly.
 - **Info** The arrow on the leaf spring points in the rotation direction of the brake disc.
- Insert the new brake linings, insert pin 4, and mount cotter pins 3.

Info

Always change the brake linings in pairs. Make sure that decoupling plate **7** is mounted on the piston side brake

Add brake fluid to level A.

Brake fluid DOT 4 / DOT 5.1 (🕮 p. 103)

the brake disc and there is a pressure point.

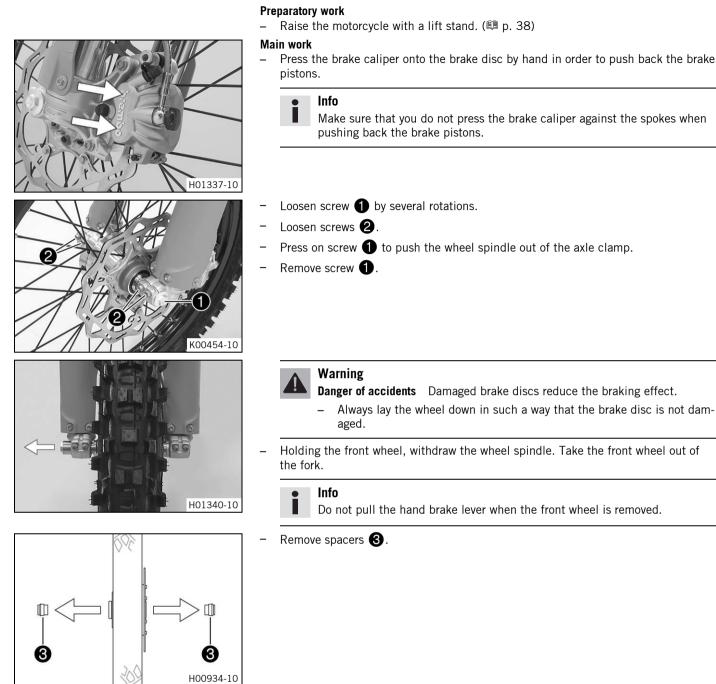
- Mount and tighten screw cap 🕦 with membrane 2 and the O-ring.



H01335-10

Clean up overflowed or spilled brake fluid immediately with water.

13.1 Removing the front wheel 🔌

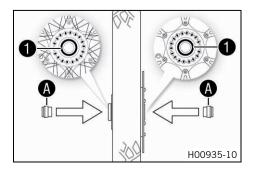


13.2 Installing the front wheel 🔌

Warning

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

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



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

Long-life grease (🕮 p. 105)

Insert the spacers.



- Clean and grease the wheel spindle.

Long-life grease (🕮 p. 105)

- Lift the front wheel into the fork, position it, and insert the wheel spindle.
 - ✓ The brake linings are correctly positioned.
- Mount and tighten screw 2.

Guideline

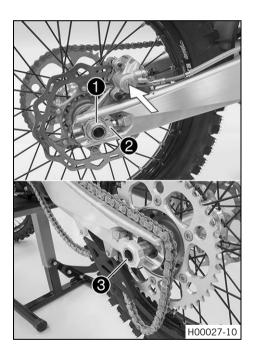
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)
----------------------------	---------	------------------------

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

Guideline

Screw, fork stub	M8	15 Nm (11.1 lbf ft)
------------------	----	------------------------

13.3 Removing the rear wheel 🔌



Preparatory work

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

Main work

 Press the brake caliper onto the brake disc by hand in order to push back the brake piston.

lnfo

Make sure when pushing back the brake piston that you do not press the brake caliper against the spokes.

- Remove nut 🚺.

- Remove chain adjuster 2. Withdraw wheel spindle 3 only enough to allow the rear wheel to be pushed forward.
- Push the rear wheel forward as far as possible. Remove the chain from the rear sprocket.

Info

Cover the components to protect them against damage.

Warning

Danger of accidents Damaged brake discs reduce the braking effect.

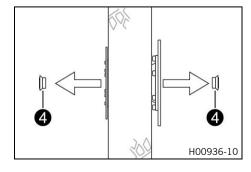
- Always lay the wheel down in such a way that the brake disc is not damaged.
- Holding the rear wheel, withdraw the wheel spindle. Take the rear wheel out of the swingarm.



Info

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

- Remove spacers **4**.

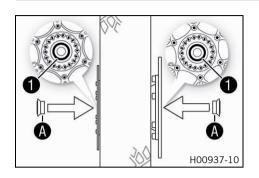


13.4 Installing the rear wheel 🔌

Warning

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

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



Main work

»

- Check the wheel bearing for damage and wear.
 - If the wheel bearing is damaged or worn:
 - Change the rear wheel bearing. 🔌
- Clean and grease shaft seal rings ① and contact surface ③ of the spacers.
 Long-life grease (興 p. 105)

Long-me grease (🛤 þ. 1

- Insert the spacers.
- Clean and grease the wheel spindle.

Long-life grease (🕮 p. 105)

- Position the rear wheel and insert wheel spindle 2.
 The brake linings are correctly positioned.
- Mount the chain.
- Position chain adjuster 3. Mount nut 4, but do not tighten it yet.
- Make sure that chain adjusters 3 are fitted correctly on adjusting screws 5.
- Check the chain tension. (🕮 p. 55)
- Tighten nut 4.

Guideline		
Nut, rear wheel spindle	M25x1.5	80 Nm (59 lbf ft)

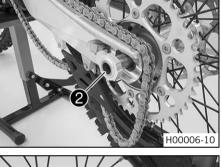
Info

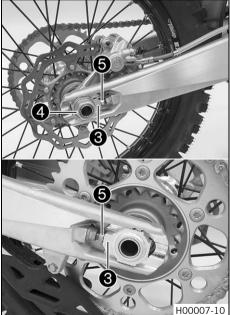
The wide adjustment range of the chain adjusters (32 mm (1.26 in)) enables different secondary ratios with the same chain length. Chain adjusters ③ can be turned by 180°.

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

Finishing work

- Remove the motorcycle from the lift stand. (
P. 38)

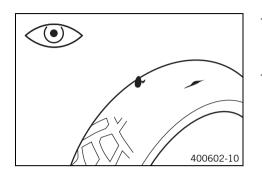




13.5 Checking the tire condition

• Info

Only mount tires approved and/or recommended by KTM. Other tires could have a negative effect on handling characteristics. The type, condition, and air pressure of the tires all have a major impact on the handling of the motorcycle. The tires mounted on the front and rear wheels must have a similar profile. Worn tires have a negative effect on handling characteristics, especially on wet surfaces.



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

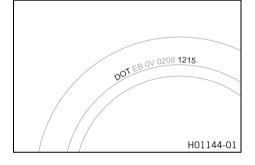
- Change the tires. 🔌
- Check the tread depth.

• Info Adhe

Adhere to the legally required minimum tread depth.

	Minimum tread depth	≥ 2 mm (≥ 0.08 in)
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- » If the tread depth is less than the minimum tread depth:
 - Change the tires. 🔌
- Check the tire age.



• Info

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

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

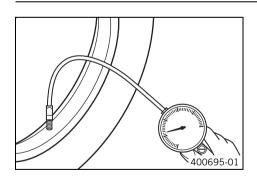
- » If the tires are more than 5 years old:
 - Change the tires. 🔦

13.6 Checking the tire air pressure

•

Info

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



- Remove the dust cap.

Check the tire air pressure when the tires are cold.

Tire air pressure 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 dust cap.

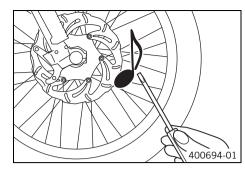
13.7 Checking spoke tension

Warning

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

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

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



Strike each spoke briefly using a screwdriver blade.

• Info The

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The frequency of the sound depends on the spoke length and spoke diameter.

If you hear different tone frequencies from different spokes of equal length and diameter, this is an indication of different spoke tensions.

You should hear a high note.

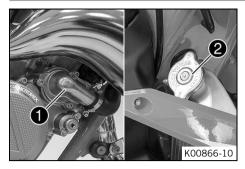
- » If the spoke tension differs:
 - Correct the spoke tension. 🔌
- Check the spoke torque.

Guideline

Spoke nipple, front wheel M4	M4.5	6 Nm (4.4 lbf ft)
Spoke nipple, rear wheel M4	M4.5	6 Nm (4.4 lbf ft)

Torque wrench with various accessories in set (58429094000)

14.1 Cooling system



14.2 Radiator cover



2

Water pump 1 in the engine ensures forced circulation of the coolant. The pressure resulting from the warming of the cooling system is regulated by a valve in 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.

The radiator cover is mounted in front of the left radiator between the radiator shield and radiator.

The radiator cover keeps the coolant temperature in the correct range.

Coolant temperature	65 70 °C (149 158 °F)

The radiator cover is installed in front of the left radiator, depending on the ambient temperature.

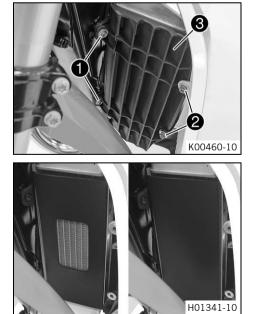
Full radiator cover	< 7 °C (< 45 °F)
Half radiator cover 2	7 16 °C (45 61 °F)
No radiator cover	> 16 °C (> 61 °F)
• Info	

Into

M01121-10

Do not use both radiator covers at the same time.

14.3 Installing the radiator cover



- Remove screws 1.
- Remove screws 2.
- Take off radiator shield 3.
- Position the matching radiator cover (🕮 p. 76).

/ The larger catch is located at the top left.



Do not use both radiator covers at the same time.

1 1 1 1 1 1 1 1 1 1	_	Position radiator shield 3. Mount and tighten screws 2. Guideline Remaining screws, chassis Mount and tighten screws 1. Guideline Remaining screws, chassis	M6 M6	10 Nm (7.4 lbf ft) 10 Nm (7.4 lbf ft)
14.4 Removing the radiator cover				
		Remove screws ①. Remove screws ②. Take off radiator shield ③. Remove the radiator cover. Position radiator shield ③. Mount and tighten screws ②. Guideline		
K00460-10		Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
	-	Mount and tighten screws ① . Guideline		
		Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)

14.5 Checking the antifreeze and coolant level

Warning

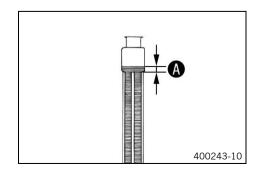
Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

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

Warning

Danger of poisoning Coolant is toxic and a health hazard.

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



Condition

The engine is cold.

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

-	–25… –45 °C (–13… –49 °F)
»	If the antifreeze in the coolant does not match the specified value:

- Correct the coolant antifreeze.
- Check the coolant level in the radiator.

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

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

Coolant (🕮 p. 103)

Mount the radiator cap.

14.6 Checking the coolant level

Warning

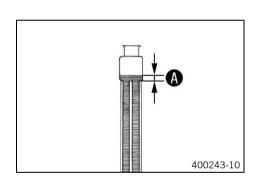
Danger of scalding During motorcycle operation, the coolant gets very hot and is under pressure.

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

Warning

Danger of poisoning Coolant is toxic and a health hazard.

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



Condition

The engine is cold.

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

Coolant level \Lambda above the radiator fins	10 mm (0.39 in)
» If the coolant level does not match th	e specified value:
 Correct the coolant level. 	

Coolant (🕮 p. 103)

Mount the radiator cap.

14.7 Draining the coolant 🔦

Warning

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

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



Warning

Danger of poisoning Coolant is toxic and a health hazard.

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



Condition

The engine is cold.

- Position the motorcycle upright.
- Place a suitable container under the water pump cover. _
- Remove screw 1. Take off radiator cap 2.
- Completely drain the coolant.
- Mount and tighten screw **1** with a new seal ring. Guideline

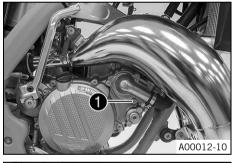
Drain plug, water pump cover	M6	8 Nm (5.9 lbf ft)
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14.8 Refilling with coolant 🔧

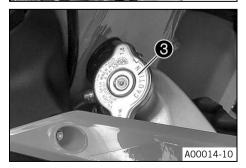
Warning

Danger of poisoning Coolant is toxic and a health hazard.

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







- Make sure that screw **1** is tightened.
- Position the motorcycle upright.
- Completely fill the radiator with coolant.

Coolant (🕮 p. 103)

- Loosen screw **2** until coolant escapes without bubbles.
- Mount and tighten screw **2**. _ Guideline

Bleeder screw, cylinder head	M6	8 Nm (5.9 lbf ft)

Completely fill the radiator with coolant.

Coolant (🕮 p. 103)

Mount radiator cap 3.



Danger

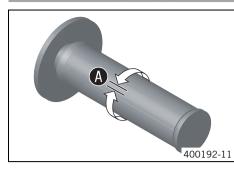


Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.
- Allow the engine to warm up and cool down again.
- Check the coolant level. (
 p. 78)



15.1 Checking the play in the throttle cable



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

Play in throttle cable 2... 3 mm (0.08... 0.12 in)

- If the throttle cable play does not meet specifications:
 - Adjust the play in the throttle cable. 🔌 (🕮 p. 80)



- Danger of poisoning Exhaust gases are toxic and inhaling them may result in unconsciousness and death.
- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.
- Start the engine and let it run idle. Move the handlebar to and fro over the entire steering range.

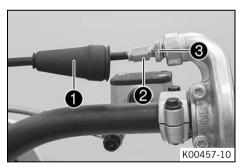
The idle speed must not change.

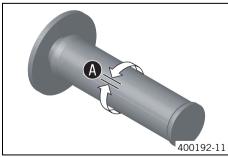
- If the idle speed changes:
 - Adjust the play in the throttle cable. 🔌 (🕮 p. 80) _

15.2 Adjusting the play in the throttle cable 🔧

Info

If the correct routing of the throttle cable has already been secured, the fuel tank does not need to be removed.





Preparatory work

- Remove the seat. (
 p. 48)
- Turn handle 1 of the fuel tap to the OFF position. (Figure K00858-10 p. 13)
- Remove the fuel tank. 🔌 (🕮 p. 52)
- Check the throttle cable routing. (IP p. 58) _

Main work

- Move the handlebar to the straight-ahead position. _
- Push back sleeve 1.
- Ensure that the throttle cable sleeve is pushed all the way into barrel adjuster **2**. _
- _ Loosen nut **3**.
- Turn barrel adjuster **2** so that there is play **A** in the throttle cable at the throttle _ grip.

Guideline

Play in throttle cable	2 3 mm (0.08 0.12 in)
------------------------	-----------------------

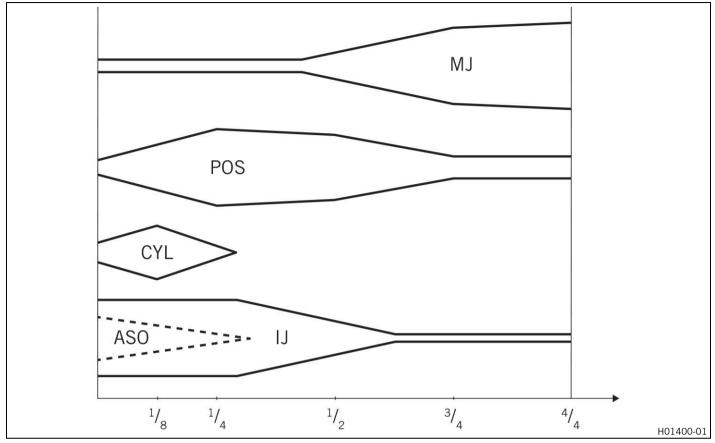
- Tighten nut **3**
- Slide on sleeve

Finishing work

- Check the throttle grip for smooth operation.
- Install the fuel tank. 🔌 (🕮 p. 53) _
- Mount the seat. (
 p. 48)
- Check the play in the throttle cable. (
 p. 80) _

15.3 Carburetor setting

Effects of the carburetor setting



The different carburetor components must be tuned both to one another and for the use intended.

Main jet MJ

The main jet MJ has the greatest influence with the throttle slide open (full throttle).

If the insulator of a new spark plug is very light or white after a brief ride at full throttle, or if the engine knocks, a larger main jet needs to be used. If the insulator is dark brown or sooty, a smaller main jet needs to be used.

Needle position POS

The needle position has the greatest influence in the mid throttle slide range.

If the engine stutters when accelerating with a partially open throttle slide, the jet needle must be lowered. If the engine knocks when accelerating at the full power rpm range, the jet needle must be raised.

Cylindrical part of the needle CYL

The cylindrical part of the needle has the greatest influence when the throttle slide is almost closed.

Idling jet IJ

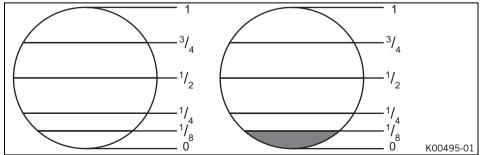
The idling jet has the greatest influence in the low to mid throttle slide range.

If the engine stutters when idling or accelerating with a partially open throttle slide, a smaller idling jet must be used. If the engine knocks in this power range, then a larger idling jet must be used.

Idle air adjusting screw open ASO

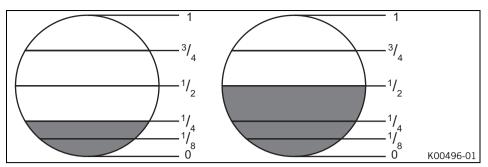
The idle air adjusting screw has the greatest influence during idling.

Influence of throttle slide adjustment



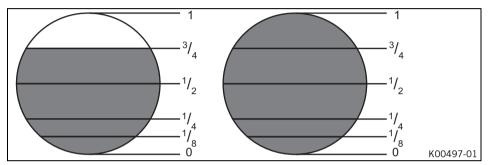
The idling jet has the greatest influence when the throttle slide is closed. The first cylindrical part of the needle and the clip position have only minimal influence.

When the throttle slide is 1/8 open, the first cylindrical part of the needle, the idling jet and the clip position have the greatest influence.



When the throttle slide is 1/4 open, the idling jet and the clip position have the greatest influence. The influence of the first cylindrical part of the needle is less.

When the throttle slide is 1/2 open, the position of the needle has the greatest influence. The influence of the main jet and the idling jet is only minimal.



When the throttle slide is 3/4 open, the influence of the main jet is greatest. The clip position and the idling jet have only minimal influence.

When the throttle slide is fully open, the influence of the main jet is greatest. The clip position and the idling jet have only minimal influence.

Needle overview

The jet needles available are shown in the following table.

	1	2	3	4
А	6BFY42-71	6BFY43-71	6BFY44-71	2,71 mm
В	6BFY42-72	6BFY43-72	6BFY44-72	2.72 mm
С	6BFY42-73	6BFY43-73	6BFY44-73	2.73 mm
D	6BFY42-74	6BFY43-74	6BFY44-74	2.74 mm
E	6BFY42-75	6BFY43-75	6BFY44-75	2.75 mm
F	6BFY42-76	6BFY43-76	6BFY44-76	2.76 mm

Column 2 corresponds to a needle in the standard position.

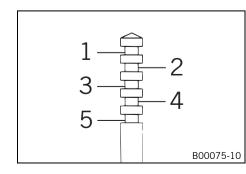
Column 1 corresponds to a needle which is half a clip leaner.

Column **3** corresponds to a needle which is half a clip richer.

Column **4** specifies the diameter of the first cylindrical part of the needle. The smaller the diameter of the first cylindrical part of the needle, the richer the carburation. The larger the diameter of the first cylindrical part of the needle, the leaner the carburation. The first cylindrical part of the needle has the greatest influence in the lowest load adjustment.

Info

The top right jet needle **A3** corresponds to the richest setting of the carburetor, and the bottom left jet needle **F1** corresponds to the leanest. The optimal carburetor tuning is shown under the respective model.

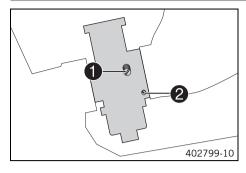


Clip position

1 5	Clip position from above
The five pessible align positions are shown here	

The five possible clip positions are shown here. The carburetor tuning depends on the defined ambient and operating conditions.

15.4 Carburetor – idle



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

Info

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

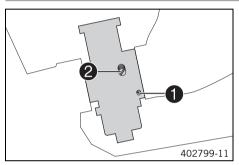
The factory setting for the carburetor is set for the following values.

Height above sea level	301 750 m (988 2,461 ft)	
Ambient temperature	16 24 °C (61 75 °F)	
Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40) (p. 104)		

The idle speed is adjusted with adjusting screw 1.

The idle mixture is adjusted using the idle air adjusting screw $\mathbf{2}$.

15.5 Carburetor – adjusting the idle speed 🔌



Screw in idle air adjusting screw **①** all the way and turn it to the specified basic position.



The basic adjustment is shown under the respective model.

- Run the engine until warm.

Guideline

Warm-up time

Danger

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

≥ 5 min

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.
- Adjust the idle speed with adjusting screw 2.

Guideline

Choke function deactivated – The choke lever is pushed in to the stop. ($@$ p. 14)		
Idle speed	1,400 1,500 rpm	

- Turn idle air adjusting screw 1 slowly in a clockwise direction until the idle speed begins to fall.
- Note the position and turn the idle air adjusting screw slowly counterclockwise until the idle speed again begins to fall.
- Adjust to the point between these two positions with the highest idle speed.

lnfo

If there is a big engine speed rise, reduce the idle speed to a normal level and repeat the above steps. If the procedure described here does not lead to satisfactory results, the cause may be a wrongly dimensioned idling jet. If you can turn the idle air adjusting screw to the end without any change of engine speed, mount a smaller idling jet. After changing the jet, start from the beginning with the adjusting steps. Following extreme air temperature or altitude changes, adjust the idle speed again.

15.6 Plug-in connector of ignition timing map adjustment



Plug-in connector 1 of the ignition timing map adjustment is located on the frame under the fuel tank.

Possible states

- Soft The plug-in connector of the ignition timing map adjustment is disconnected to achieve better rideability.
- Performance The plug-in connector of the ignition timing map adjustment is joined to achieve higher performance.

15.7 Changing the ignition timing map

Switch the ignition timing map from Performance to Soft

Disconnect plug-in connector 1 of the ignition timing map adjustment. (Figure A00027-10) p. 84) Soft – better rideability

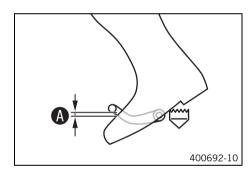
Switch the ignition timing map from Soft to Performance

- Join plug-in connector 1 of the ignition timing map adjustment. (Figure A00027-10) p. 84)
 - Performance better performance

15.8 Checking the basic position of the shift lever

Info

When driving, the shift lever must not touch the rider's boot when in the basic position. When the shift lever keeps touching the boot, the transmission will be subject to an excessive load.

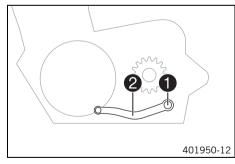


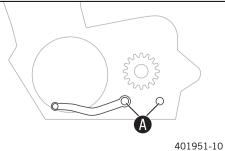
Sit on the vehicle in the riding position and determine distance A between the upper edge of your boot and the shift lever.

Distance between shift lever and upper 10... 20 mm (0.39... 0.79 in) edge of boot

- If the distance does not meet specifications:
- Adjust the basic position of the shift lever. 🔌 (🕮 p. 84)

15.9 Adjusting the basic position of the shift lever 🔌





Remove screw **1** with the washers and take off shift lever **2**.

- Clean gear teeth (A) of the shift lever and shift shaft.
- Mount the shift lever on the shift shaft in the required position and engage the gearing.



Info

The range of adjustment is limited.

The shift lever must not come into contact with any other vehicle components during the shift procedure.

Mount and tighten screw 1 with washers.

Guideline

Screw, shift lever	M6	14 Nm	Loctite [®] 243™
		(10.3 lbf ft)	

16 SERVICE WORK ON THE ENGINE



1 Emptying the carburetor float chamber &

Danger

Fire hazard Fuel is highly flammable.

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

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Warning

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

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

e Info

Carry out this work with a cold engine.

Water in the float chamber results in malfunctioning.



Preparatory work

- Turn handle 1 of the fuel tap to the OFF position. (Figure K00858-10) p. 13)
 - ✓ Fuel no longer flows from the fuel tank to the carburetor.

Main work

- Place a cloth under the carburetor to capture the draining fuel.
- Remove screw plug 1.
- Fully drain the fuel.
- Mount and tighten the screw plug.

16.2 Checking the gear oil level

Info

The gear oil level must be checked when the engine is cold.

Preparatory work

- Stand the motorcycle upright on a horizontal surface.

SERVICE WORK ON THE ENGINE 16



Main work

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

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

- If no gear oil runs out:
- Add gear oil.

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- Mount and tighten the gear oil monitoring screw. Guideline Μ6

Screw, gear oil level check

8 Nm (5.9 lbf ft)

16.3 Changing the gear oil 🔌

Warning

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

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

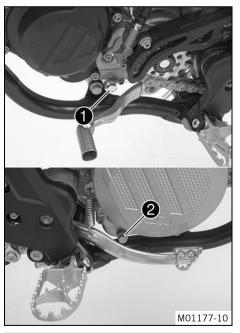
Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

Drain the gear oil while the engine is at operating temperature.



3 H K00530-10

Preparatory work

- Park the motorcycle on a level surface.
- Place a suitable container under the engine.

Main work

- Remove the gear oil drain plug with magnet **①**.
- Remove gear oil drain plug **2**.
- Let the gear oil drain fully. _
- Clean the gear oil drain plug thoroughly.
- Clean the sealing surface on the engine. _
- Mount and tighten gear oil drain plug with the magnet **1** and the new seal ring. _ Guideline

Gear oil drain plug with magnet	M12x1.5	20 Nm (14 8 lbf ft)
		(14.8 lbf ft)

Mount gear oil drain plug 2 with the new seal ring and tighten.

	line	

Gear oil drain plug	M10x1	15 Nm (11.1 lbf ft)
---------------------	-------	------------------------

Remove filler plug 3 and fill up with gear oil.

Gear oil	0.80 l (0.85 qt.)	Engine oil (15W/50) (🕮 p. 103)
		•

Mount and tighten the oil filler plug. _

16 SERVICE WORK ON THE ENGINE



Danger

 ${\bf Danger \ of \ poisoning}$ $\ \ Exhaust gases are toxic and inhaling them may result in unconsciousness and death.$

- Always make sure there is sufficient ventilation when running the engine.
- Use an effective exhaust extraction system when starting or running the engine in an enclosed space.
- Start the engine and check that it is oil-tight.

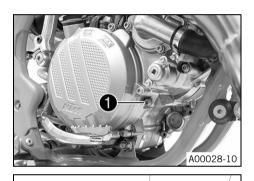
Finishing work

Check the gear oil level. (🕮 p. 85)

16.4 Adding gear oil 🔦

• Info

Too little gear oil or poor-quality gear oil results in premature wear to the transmission. Gear oil must only be topped up when the engine is cold.



Preparatory work

Park the motorcycle on a level surface.

Main work

Remove gear oil level check screw 1.

- Remove filler plug 2.
- Add gear oil until it emerges from the drill hole of the gear oil monitoring screw.

	Engine oil (15W/50) (鷗 p. 103)
_	Mount and tighten the gear oil monitoring screw.
	Guideline

Screw, gear oil level check	M6	8 Nm (5.9 lbf ft)
-----------------------------	----	-------------------

Mount and tighten filler plug 2.

Finishing work

401955-11



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

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

Start the engine and check that it is oil-tight.

17 CLEANING, CARE

17.1 Cleaning the motorcycle

Note

Material damage Components become damaged or destroyed if a pressure cleaner is used incorrectly.

The high pressure forces water into the electrical components, connectors, throttle cables, and bearings, etc. Pressure which is too high causes malfunctions and destroys components.

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

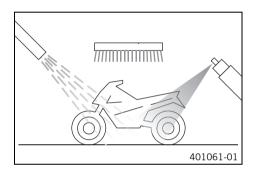
Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

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



- Close off the exhaust system to prevent water from entering.
- Remove coarse dirt particles by spraying gently with water.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a soft brush.

Motorcycle cleaner (🕮 p. 105)

Info

- Use warm water containing normal motorcycle cleaner and a soft sponge. Never apply motorcycle cleaner to the dry vehicle; always rinse with water first.
- After rinsing the motorcycle with a gentle water spray, allow it to dry thoroughly.
- Empty the carburetor float chamber. 🔌 (🕮 p. 85)
- Remove the plug from the exhaust system.



Warning

Danger of accidents Moisture and dirt impair the brake system.

- Brake carefully several times to dry out and remove dirt from the brake linings and the brake discs.
- After cleaning, take a short ride until the engine reaches operating temperature.

Info

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

- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Clean the chain. (🕮 p. 54)
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Preserving materials for paints, metal and rubber (🕮 p. 105)

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

Special cleaner for glossy and matte paint finishes, metal and plastic surfaces (IIII) p. 105)

18 STORAGE

18.1 Storage

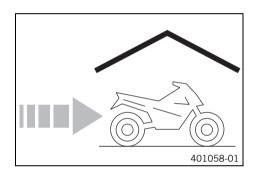
Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

Info

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



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

Fuel additive (🕮 p. 105)

- Refuel. (🕮 p. 25)
- Clean the motorcycle. (🕮 p. 88)
- Change the gear oil. 🔧 (🕮 p. 86)
- Empty the carburetor float chamber. Empty the carburetor float chamber.
- Check the tire air pressure. (🕮 p. 74)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

• Info

KTM recommends jacking up the motorcycle.

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

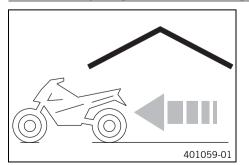
- Cover the vehicle with a tarp or similar cover that is permeable to air.

lnfo

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

Avoid running the engine for a short time only. Because the engine will not warm up sufficiently, the water vapor produced during combustion will condense, causing engine parts and the exhaust system to rust.

18.2 Preparing for use after storage



- Remove the motorcycle from the lift stand. (IP p. 38)
 - Perform checks and maintenance measures when preparing for use. (🕮 p. 22)
 - Make a test ride.

19 TROUBLESHOOTING

Faults	Possible cause	Action		
Engine turns but does not start	Operating error	 Carry out the start procedure. (
	Motorcycle was out of use for a long time and there is old fuel in the float chamber	- Empty the carburetor float chamber. (鷗 p. 85)		
	Fuel feed interrupted	 Check the fuel tank breather. 		
		 Clean the fuel tap. 		
		 Check/set the carburetor components. 		
	Spark plug oily or wet	 Clean and dry the spark plug, or change it if necessary. 		
	Electrode distance (plug gap) of spark	 Adjust the plug gap. 		
	plug too wide	Guideline Spark plug electrode gap 0.60 mm (0.0236 in)		
	Fault in ignition system	 Check the ignition system. 		
	Kill switch cable in wiring harness frayed, kill switch defective	 Check the kill switch. 		
	The connector or ignition coil is loose or oxidized	 Clean the connector and treat it with contact spray. 		
	Water in carburetor or jets blocked	 Check/set the carburetor components. 		
Engine has no idle	Idling jet blocked	 Check/set the carburetor components. 		
	Adjusting screws on carburetor dis- torted	 Carburetor – adjust the idle speed. (
	Spark plug defective	 Change the spark plug. 		
	Ignition system defective	– Check the ignition coil. 🔧		
		 Check the spark plug connector. 		
Engine does not speed up	Carburetor running over because float needle dirty or worn	 Check/set the carburetor components. 		
	Loose carburetor jets	- Check/set the carburetor components.		
	Fault in ignition system	– Check the ignition system. 🔦		
Engine has too little power	Fuel feed interrupted	 Check the fuel tank breather. 		
		- Clean the fuel tap.		
		 Check/set the carburetor components. 		
	Air filter very dirty	 Clean the air filter and air filter box. (
	Exhaust system leaky, deformed or	 Check exhaust system for damage. 		
	too little glass fiber yarn filling in main silencer	 Change glass fiber yarn filling in the main silencer. ◀ (톜 p. 51) 		
	Fault in ignition system	– Check the ignition system. 🔧		
	Diaphragm or reed valve housing damaged	- Check the diaphragm and reed valve housing.		
Engine stalls or is popping into the carburetor	Lack of fuel	 Turn handle for the fuel tap to the ON position. (Figure K00858-10		
		- Refuel. (鷗 p. 25)		
	Engine takes in bad air	 Check the intake flange and carburetor for tightness. 		
	The connector or ignition coil is loose or oxidized	 Clean the connector 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. 78)		
	Too little air stream	 Switch off engine when stationary. 		
	Radiator fins very dirty	- Clean the radiator fins.		
	Foam formation in cooling system	 Drain the coolant. ◀ (學 p. 78) Refill with coolant. ◀ (學 p. 79) 		
	Damaged cylinder head or cylinder head gasket	 Check the cylinder head and cylinder head gasket. 		

19 TROUBLESHOOTING

Faults	Possible cause	Action
Engine overheats	Bent radiator hose	– Change the radiator hose. 🔧
	Incorrect ignition point due to loose stator	 Adjust the ignition.
White smoke emission (steam in exhaust gas)	Damaged cylinder head or cylinder head gasket	 Check the cylinder head and cylinder head gas- ket.
Gear oil exits at the vent hose	Too much gear oil added	 Check the gear oil level. (
Water in the gear oil	Damaged shaft seal ring or water pump	 Check the shaft seal ring and water pump.

20.1 Engine

20.1.1 All 125 models

Design	1-cylinder 2-stroke engine, water-cooled, with reed intake and exhaust control
Displacement	124.8 cm ³ (7.616 cu in)
Stroke	54.5 mm (2.146 in)
Bore	54 mm (2.13 in)
Crankshaft bearing	1 grooved ball bearing/1 roller bearing
Conrod bearing	Needle bearing
Piston pin bearing	Needle bearing
Pistons	Cast aluminum
Piston rings	2 half keystone rings
X (upper edge of piston to upper edge of cylinder)	0 0.10 mm (0 0.0039 in)
Z (height of control flap)	36.5 mm (1.437 in)
Primary transmission	23:73
Clutch	Multidisc clutch in oil bath/hydraulically activated
Gearbox	6-gear, claw shifted
Transmission ratio	
First gear	14:32
Second gear	15:30
Third gear	17:28
Fourth gear	20:28
Fifth gear	19:23
Sixth gear	22:24
Ignition	Contactless controlled fully electronic ignition with digital igni- tion adjustment, type Kokusan
Spark plug	NGK BR9 ECMVX
Spark plug electrode gap	0.60 mm (0.0236 in)
Starting aid	Kick starter

20.1.2 All 150 models

Design	1-cylinder 2-stroke engine, water-cooled, with reed intake and exhaust control
Displacement	144 cm ³ (8.79 cu in)
Stroke	54.5 mm (2.146 in)
Bore	58 mm (2.28 in)
Crankshaft bearing	1 grooved ball bearing/1 roller bearing
Conrod bearing	Needle bearing
Piston pin bearing	Needle bearing
Pistons	Forged aluminum
Piston rings	1 rectangular ring, 1 half keystone ring
X (upper edge of piston to upper edge of cylinder)	0 0.10 mm (0 0.0039 in)
Z (height of control flap)	36.5 mm (1.437 in)
Primary transmission	23:73
Clutch	Multidisc clutch in oil bath/hydraulically activated
Gearbox	6-gear, claw shifted
Transmission ratio	
First gear	14:32
Second gear	15:30
Third gear	17:28
Fourth gear	20:28
Fifth gear	19:23

Sixth gear	22:24
Ignition	Contactless controlled fully electronic ignition with digital igni- tion adjustment, type Kokusan
Spark plug	NGK BR9 ECMVX
Spark plug electrode gap	0.60 mm (0.0236 in)
Starting aid	Kick starter

20.2 Engine tightening torques

20.2 Engine tightening torques			
Screw, inner membrane sheets	EJOT DELTA PT® 35x25	1 Nm (0.7 lbf ft)	-
Screw, membrane core plate	EJOT DELTA PT® 30x12	1 Nm (0.7 lbf ft)	-
Screw, outer membrane sheets	EJOT DELTA PT® 30x6	1 Nm (0.7 lbf ft)	-
Screw, control lever, exhaust control	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, crankshaft position sensor	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, exhaust control cover	M5	5 Nm (3.7 lbf ft)	-
Screw, locking lever	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, retaining bracket, rotary valve	M5	6 Nm (4.4 lbf ft)	-
Screw, stator	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, water pump wheel	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Bleeder screw, cylinder head	M6	8 Nm (5.9 lbf ft)	-
Drain plug, water pump cover	M6	8 Nm (5.9 lbf ft)	-
Nut, adjusting screw, power valve	M6	8 Nm (5.9 lbf ft)	-
Screw, alternator cover	M6	8 Nm (5.9 lbf ft)	-
Screw, bearing retainer	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, clutch slave cylinder	M6	10 Nm (7.4 lbf ft)	_
Screw, clutch spring retainer	M6	10 Nm (7.4 lbf ft)	-
Screw, control lever, exhaust control	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, engine case	M6	10 Nm (7.4 lbf ft)	-
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	-
Screw, gear oil level check	M6	8 Nm (5.9 lbf ft)	-
Screw, intake flange/reed valve housing	M6	6 Nm (4.4 lbf ft)	_
Screw, intermediate clutch cover	M6x20	10 Nm (7.4 lbf ft)	-
Screw, intermediate clutch cover	M6x25	10 Nm (7.4 lbf ft)	-
Screw, intermediate clutch cover	M6x30	10 Nm (7.4 lbf ft)	-
Screw, kick starter stop plate	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, outer clutch cover	M6x20	8 Nm (5.9 lbf ft)	-
Screw, outer clutch cover	M6x50	8 Nm (5.9 lbf ft)	-
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, stop plate of exhaust control	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)	-
Nut, cylinder base	M8	23 Nm (17 lbf ft)	-
Screw, cylinder base	M8	20 Nm (14.8 lbf ft)	-
Screw, kick starter	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Gear oil drain plug	M10x1	15 Nm (11.1 lbf ft)	-
Nut, rotor	M12x1	60 Nm (44.3 lbf ft)	-
Gear oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	-
Spark plug	M14x1.25	25 Nm (18.4 lbf ft)	-
Nut, primary gear	M16LHx1.5	130 Nm (95.9 lbf ft)	Loctite [®] 243™
Nut, inner clutch hub	M18x1.5	100 Nm (73.8 lbf ft)	Loctite [®] 243™

20.3 Carburetor

20.3.1 All 125 models

Carburetor type	MIKUNI TMX 38
Carburetor identification number	TMX 38 82
Needle position	3rd position from top
Jet needle	6BFY42-75 (6BFY43-75)
Main jet	480 (470, 490, 500, 520, 540)
Idling jet	35 (30 / 32.5 / 37.5 / 40)
Starting jet	80
Needle jet	S-7
Idle air adjusting screw	
Open	2 turns

20.3.2 Carburetor - basic setting for sandy surfaces (All 125 models)

Idle air adjusting screw				
Open	2 turns			
Idling jet	40			
Jet needle	6BFY42-75			
Needle position	3rd position from top			
Main jet	560			

i

Info

If the engine is not running smoothly, use a smaller main jet.

20.3.3 Carburetor tuning (All 125 models)

MIKUNI TMX 38							
M/FT ASL ↓	TEMP	-20°C7°C -2°F 20°F		6°C 15°C 42°F 60°F	16°C 24°C 61°F 78°F	25°C 36°C 79°F 98°F	37°C 49°C 99°F 120°F
3.000 m 10,000 ft 1 2.301 m 7,501 ft	ASO IJ NDL POS MJ	2 35 42-75 3 480	2 32,5 42-75 3 480	1,5 30 42-75 3 470	2 30 42-75 3 460	1,5 30 43-75 2 460	
2.300 m 7,500 ft 1.501 m 5,001 ft	ASO IJ NDL POS MJ	1,5 35 42-75 3 480	2 35 42-75 3 480	2 32,5 42-75 3 480	1,5 30 42-75 3 470	2 30 42-75 3 460	1,5 30 43-75 2 460
1.500 m 5,000 ft 1 751 m 2,501 ft	ASO IJ NDL POS MJ	1,5 37,5 42-75 3 490	1,5 35 42-75 3 480	2 35 42-75 3 480	2 32,5 42-75 3 480	1,5 30 42-75 3 470	2 30 42-75 3 460
750 m 2,500 ft 1,001 m 1,001 ft	ASO IJ NDL POS MJ	2 40 42-75 3 500	1,5 37,5 42-75 3 490	1,5 35 42-75 3 480	2 35 42-75 3 480	2 32,5 42-75 3 480	1,5 30 42-75 3 470
300 m 1,000 ft 0 m 0 ft	ASO IJ NDL POS MJ	2 40 42-75 3 520	1,5 37,5 42-75 3 500	1,5 35 42-75 3 480	2 35 42-75 3 480	2 32,5 42-75 3 480	1,5 30 42-75 3 470 402815-01
M/FT ASL TEMP ASO IJ NDL		۲ ۱ ۱	Sea level emperature dle air adjusting si dling jet Needle	crew open			·

Needle position from top

Main jet

NDL	
POS	
MJ	

• Info Do n

Do not use on sandy terrain.

20.3.4 All 150 models

Carburetor type	MIKUNI TMX 38
Carburetor identification number	TMX 38 83
Needle position	3rd position from top
Jet needle	6BFY42-74 (6BFY43-74)
Main jet	470 (460, 480, 490, 500, 520)
Idling jet	35 (30 / 32.5 / 37.5 / 40)
Starting jet	80
Needle jet	S-4
Idle air adjusting screw	
Open	2 turns

20.3.5 Basic carburetor setting for sandy surfaces (All 150 models)

Idle air adjusting screw	
Open	2 turns
Idling jet	40
Jet needle	6BFY42-74
Needle position	3rd position from top
Main jet	560

Info

If the engine is not running smoothly, use a smaller main jet.

20.3.6 Carburetor tuning (All 150 models)

MIKUNI TMX 38							
M/FT ASL ↓	TEMP	-20°C7°C -2°F 20°F		6°C 15°C 42°F 60°F	16°C 24°C 61°F 78°F	25°C 36°C 79°F 98°F	37°C 49°C 99°F 120°F
3.000 m 10,000 ft 2.301 m 7,501 ft	ASO IJ NDL POS MJ	2 35 42-74 3 470	2 32,5 42-74 3 470	1,5 30 42-74 3 460	2 30 42-74 3 450	1,5 30 43-74 2 450	
2.300 m 7,500 ft 1.501 m 5,001 ft	ASO IJ NDL POS MJ	1,5 35 42-74 3 470	2 35 42-74 3 470	2 32,5 42-74 3 470	1,5 30 42-74 3 460	2 30 42-74 3 450	1,5 30 43-74 2 450
1.500 m 5,000 ft 151 m 2,501 ft	ASO IJ NDL POS MJ	1,5 37,5 42-74 3 480	1,5 35 42-74 3 470	2 35 42-74 3 470	2 32,5 42-74 3 470	1,5 30 42-74 3 460	2 30 42-74 3 450
750 m 2,500 ft 1,001 m 1,001 ft	ASO IJ NDL POS MJ	2 40 42-74 3 490	1,5 37,5 42-74 3 480	1,5 35 42-74 3 470	2 35 42-74 3 470	2 32,5 42-74 3 470	1,5 30 42-74 3 460
300 m 1,000 ft 0 m 0 ft	ASO IJ NDL POS MJ	2 40 42-74 3 500	1,5 37,5 42-74 3 490	1,5 35 42-74 3 470	2 35 42-74 3 470	2 32,5 42-74 3 470	1,5 30 42-74 3 460 402817-01
M/FT ASL TEMP ASO IJ NDL		۲ ۱ ۱	Sea level Temperature dle air adjusting so dling jet Needle	crew open	·	·	·

Needle position from top

Main jet

NDL	
POS	
MJ	

• Info Do n

Do not use on sandy terrain.

20.4 Ca	apacities			
20.4.1 Ge	ear oil			
Gear oil		0.80 l (0.85 qt.)	Engine oil (15W/50) (🕮 p. 103)	
20.4.2 Co	oolant			
Coolant		1.2 (1.3 qt.)	Coolant (🕮 p. 103)	
20.4.3 Fu	el			
Total fuel tar approx.	nk capacity,	7 I (1.8 US gal)	Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40) (隠 p. 104)	
20.5 Ch	nassis			
Frame			Central tube frame made of chrome molybdenum steel tubing	
Fork			WP Performance Systems Upside down AER 48	
Suspension t	travel			
Front			310 mm (12.2 in)	
Rear			300 mm (11.81 in)	
Fork offset			22 mm (0.87 in)	
Shock absorb	ber		WP Performance Systems 5018 DCC Link	
Brake system	า		Disc brakes, brake calipers on floating bearings	
Brake discs -	- diameter			
Front			260 mm (10.24 in)	
Rear			220 mm (8.66 in)	
Brake discs -	- wear limit			
Front			2.5 mm (0.098 in)	
Rear			3.5 mm (0.138 in)	
Tire air press	sure off road			
Front			1.0 bar (15 psi)	
Rear			1.0 bar (15 psi)	
Secondary ra	atio (All 125 models)		13:50	
Secondary ratio (All 150 models)			13:48	
Chain			5/8 x 1/4"	
Rear sprockets available			48, 50, 52	
Steering head angle			63.9°	
Wheelbase			1,485±10 mm (58.46±0.39 in)	
Seat height unloaded			960 mm (37.8 in)	
Ground clearance unloaded			375 mm (14.76 in)	
Weight without fuel, approx.			87.2 kg (192.2 lb.)	
Maximum pe	ermissible front axle	load	145 kg (320 lb.)	
Maximum permissible rear axle load		bad	190 kg (419 lb.)	
Maximum pe	ermissible overall wei	ight	335 kg (739 lb.)	

20.6 Tires

Front tires	Rear tires
80/100 - 21 51M TT	100/90 - 19 57M TT
Dunlop GEOMAX MX3S	Dunlop GEOMAX MX3S
The tires specified represent one of the possible series production under:	tires. Additional information is available in the Service section

http://www.ktm.com

20.7 Fork

20.7.1 125/150 SX EU

Fork article number		34.18.8R.01	
Fork		WP Performance Systems Upside down AER 48	
Compression damping			
Comfort		17 clicks	
Standard		12 clicks	
Sport		7 clicks	
Rebound damping		•	
Comfort		17 clicks	
Standard		12 clicks	
Sport		7 clicks	
Air pressure		8.5 bar (123 psi)	
Fork length		950 mm (37.4 in)	
Oil capacity external mecha- nism left	200 ⁺⁴⁰ ₋₂₀ ml (6.76 ^{+1.35} _{-0.68} fl. oz.)	Fork oil (SAE 4) (48601166S1) (p. 104)	
Oil capacity external mecha- 200^{+40}_{-20} ml (6.76 $^{+1.35}_{-0.68}$ fl. oz.) nism right		Fork oil (SAE 4) (48601166S1) (의 p. 104)	
Grease capacity, left cartridge 11 ml (0.37 fl. oz.)		Multi-purpose grease (00062010051) (🕮 p. 105)	
Oil capacity, right cartridge 380 ml (12.85 fl. oz.)		Fork oil (SAE 4) (48601166S1) (🕮 p. 104)	

20.7.2 125/150 SX US

Fork article number		34.18.8R.51	
Fork		WP Performance Systems Upside down AER 48	
Compression damping			
Comfort		17 clicks	
Standard		12 clicks	
Sport		7 clicks	
Rebound damping			
Comfort		17 clicks	
Standard		12 clicks	
Sport		7 clicks	
Air pressure		8.6 bar (125 psi)	
Fork length		950 mm (37.4 in)	
Oil capacity external mecha- nism left	200 ⁺⁴⁰ ₋₂₀ ml (6.76 ^{+1.35} _{-0.68} fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 104)	
Oil capacity external mecha- nism right 200^{+40}_{-20} ml (6.76 $^{+1.35}_{-0.68}$ fl. oz.)		Fork oil (SAE 4) (48601166S1) (의 p. 104)	
Grease capacity, left cartridge 11 ml (0.37 fl. oz.)		Multi-purpose grease (00062010051) (🕮 p. 105)	
Oil capacity, right cartridge	380 ml (12.85 fl. oz.)	Fork oil (SAE 4) (48601166S1) (🕮 p. 104)	

20.8 Shock absorber

20.8.1 125/150 SX EU

Shock absorber article number	18.18.7R.01
Shock absorber	WP Performance Systems 5018 DCC Link
Compression damping, low-speed	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
Compression damping, high-speed	· ·
Comfort	2 turns
Standard	1.5 turns
Sport	1 turn
Rebound damping	· ·
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
Spring preload	6 mm (0.24 in)
Spring rate	
Weight of rider: 65 75 kg (143 165 lb.)	36 N/mm (206 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	39 N/mm (223 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	42 N/mm (240 lb/in)
Spring length	
Weight of rider: 65 75 kg (143 165 lb.)	255 mm (10.04 in)
Weight of rider: 75 85 kg (165 187 lb.)	260 mm (10.24 in)
Weight of rider: 85 95 kg (187 209 lb.)	260 mm (10.24 in)
Gas pressure	10 bar (145 psi)
Static sag	35 mm (1.38 in)
Riding sag	105 mm (4.13 in)
Fitted length	477 mm (18.78 in)
Shock absorber fluid (🕮 p. 104)	SAE 2.5

20.8.2 125/150 SX US

Shock absorber article number	18.18.7R.51
Shock absorber	WP Performance Systems 5018 DCC Link
Compression damping, low-speed	· · · ·
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
Compression damping, high-speed	· · ·
Comfort	2.5 turns
Standard	2 turns
Sport	1.5 turns
Rebound damping	
Comfort	17 clicks
Standard	15 clicks
Sport	13 clicks
Spring preload	6 mm (0.24 in)
Spring rate	· · · ·
Weight of rider: 65 75 kg (143 165 lb.)	36 N/mm (206 lb/in)
Weight of rider: 75 85 kg (165 187 lb.)	39 N/mm (223 lb/in)
Weight of rider: 85 95 kg (187 209 lb.)	42 N/mm (240 lb/in)

Spring length	
Weight of rider: 65 75 kg (143 165 lb.)	255 mm (10.04 in)
Weight of rider: 75 85 kg (165 187 lb.)	260 mm (10.24 in)
Weight of rider: 85 95 kg (187 209 lb.)	260 mm (10.24 in)
Gas pressure	10 bar (145 psi)
Static sag	35 mm (1.38 in)
Riding sag	105 mm (4.13 in)
Fitted length	477 mm (18.78 in)
Shock absorber fluid (🕮 p. 104)	SAE 2.5

20.9 Chassis tightening torques

Screw, fixed grip	M4	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Screw, service hour counter	M4	1 Nm (0.7 lbf ft)	-
Spoke nipple, front wheel	M4.5	6 Nm (4.4 lbf ft)	-
Spoke nipple, rear wheel	M4.5	6 Nm (4.4 lbf ft)	-
Remaining nuts, chassis	M5	5 Nm (3.7 lbf ft)	-
Remaining screws, chassis	M5	5 Nm (3.7 lbf ft)	-
Screw, shock absorber adjusting ring	M5	5 Nm (3.7 lbf ft)	-
Screws on the main silencer	M5	7 Nm (5.2 lbf ft)	-
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	-
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	-
Screw, absorbing element on frame	M6	6 Nm (4.4 lbf ft)	-
Screw, absorbing element on manifold	M6	6 Nm (4.4 lbf ft)	-
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, chain sliding guard	M6	6 Nm (4.4 lbf ft)	Loctite [®] 243™
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	5 Nm (3.7 lbf ft)	-
Nut, foot brake lever stop	M8	20 Nm (14.8 lbf ft)	-
Nut, rear sprocket screw	M8	35 Nm (25.8 lbf ft)	Loctite [®] 2701™
Nut, rim lock	M8	12 Nm (8.9 lbf ft)	-
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	-
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	-
Screw, bottom triple clamp	M8	12 Nm (8.9 lbf ft)	-
Screw, chain sliding piece	M8	15 Nm (11.1 lbf ft)	-
Screw, engine brace	M8	25 Nm (18.4 lbf ft)	Loctite [®] 2701™
Screw, fork stub	M8	15 Nm (11.1 lbf ft)	-
Screw, front brake caliper	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	-
Screw, subframe	M8	35 Nm (25.8 lbf ft)	Loctite [®] 2701™
Screw, top steering stem	M8	20 Nm (14.8 lbf ft)	Loctite [®] 243™
Screw, top triple clamp	M8	17 Nm (12.5 lbf ft)	-
Engine bracket screw	M10	60 Nm (44.3 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	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	60 Nm (44.3 lbf ft)	Loctite [®] 2701™
Nut, frame on linkage lever	M14x1.5	80 Nm (59 lbf ft)	-
Nut, linkage lever on swingarm	M14x1.5	80 Nm (59 lbf ft)	-
Nut, linkage lever to angle lever	M14x1.5	80 Nm (59 lbf ft)	-

Nut, swingarm pivot	M16x1.5	100 Nm (73.8 lbf ft)	-
Screw, front wheel spindle	M20x1.5	35 Nm (25.8 lbf ft)	-
Screw, top steering head	M20x1.5	12 Nm (8.9 lbf ft)	-
Screw-in nozzles, cooling system	M20x1.5	12 Nm (8.9 lbf ft)	Loctite [®] 243™
Nut, rear wheel spindle	M25x1.5	80 Nm (59 lbf ft)	-

21 SUBSTANCES

Brake fluid DOT 4 / DOT 5.1

Standard/classification

– DOT

Guideline

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

Recommended supplier

Castrol

- REACT PERFORMANCE DOT 4

Motorex®

- Brake Fluid DOT 5.1

Coolant

Guideline

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

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

The use of premixed coolant is recommended.

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

Recommended supplier Motorex[®]

- COOLANT M3.0

Engine oil (15W/50)

Standard/classification

- JASO T903 MA (🕮 p. 107)
- SAE (🕮 p. 107) (15W/50)

Guideline

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

Recommended supplier

- Motorex®
- Top Speed 4T

Engine oil, 2-stroke

Standard/classification

– JASO FD (🕮 p. 107)

Guideline

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

Fully synthetic

Recommended supplier

Motorex®

Cross Power 2T

21 SUBSTANCES

Fork oil (SAE 4) (48601166S1)

Standard/classification

– SAE (📖 p. 107) (SAE 4)

Guideline

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

Shock absorber fluid (SAE 2.5) (50180751S1)

Standard/classification

– SAE (🕮 p. 107) (SAE 2.5)

Guideline

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

Super unleaded (ROZ 98 / RON 98 / PON 94)

Standard/classification

- DIN EN 228 (ROZ 98 / RON 98 / PON 94)

Super unleaded (98 octane) mixed with 2-stroke engine oil (1:40)

Standard/classification

- DIN EN 228
- JASO FD (🕮 p. 107) (1:40)

Mixture ratio

1:40	Engine oil, 2-stroke (🕮 p. 103)
	Super unleaded (ROZ 98 / RON 98 / PON 94) (🕮 p. 104)

Recommended supplier

Motorex®

Cross Power 2T

22 AUXILIARY SUBSTANCES

Air filter cleaner

Recommended supplier Motorex®

Racing Bio Dirt Remover

Chain cleaner

Recommended supplier Motorex®

Chain Clean

Fuel additive

Recommended supplier Motorex[®] – Fuel Stabilizer

High viscosity grease

Recommended supplier SKF® – LGHB 2

Long-life grease

Recommended supplier Motorex[®] – Bike Grease 2000

Motorcycle cleaner

Recommended supplier Motorex[®] – Moto Clean

Multi-purpose grease (00062010051)

Recommended supplier Klüber Lubrication® – CENTOPLEX 2 EP

Off-road chain spray

Recommended supplier Motorex® – Chainlube Offroad

Oil for foam air filter

Recommended supplier Motorex® – Racing Bio Liquid Power

Preserving materials for paints, metal and rubber

Recommended supplier Motorex[®] – Moto Protect

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

Recommended supplier Motorex®

Quick Cleaner

22 AUXILIARY SUBSTANCES

Universal oil spray

Recommended supplier Motorex® – Joker 440 Synthetic

23 STANDARDS

JASO T903 MA

Different technical development directions required a separate specification for 4-stroke motorcycles – the **JASO T9O3 MA** standard. Earlier, engine oils from the automobile industry were used for 4-stroke motorcycles because there was no separate motorcycle specification.

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

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

The **JASO MA** standard meets these special requirements.

SAE

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

JASO FD

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

24 LIST OF ABBREVIATIONS

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

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KTM Sportmotorcycle GmbH 5230 Mattighofen/Austria http://www.ktm.com





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