OWNER'S MANUAL 2012

65 SX

Art. no. 3211712en





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 and your child enormous pleasure if you service and maintain it accordingly.

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

Enter the serial numbers of your vehicle below.

Chassis number (* p. 9)	Dealer's stamp	
	-	
Engine number (🕶 p. 9)		

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

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REG.NO. 12 100 6061

KTM-Sportmotorcycle AG 5230 Mattighofen, Austria

MEANS OF REPRESENTATION	
IMPORTANT INFORMATION	
VIEW OF VEHICLE	
View of the vehicle from the left front (example)	
View of the vehicle from the right rear (example)	
SERIAL NUMBERS	
Chassis number	
Engine number	
Shock absorber part number	
CONTROLS	
Clutch lever	
Hand brake lever	10
Throttle grip	10 10
Kill switch	10
Opening the filler cap Closing the filler cap	10
Fuel tap	
Choke	
Shift lever	
Kickstarter	
Foot brake lever	
Plug-in stand	
PUTTING INTO OPERATION	13
Advice on first use	13
Running in the engine	14
RIDING INSTRUCTIONS	15
Checks and maintenance measures when preparing for	
use	15
Starting	15
Starting off	16
Shifting, riding	16
Braking	16
Stopping, parking	17
Refueling	17
SERVICE SCHEDULE	19
Service schedule	19
TUNING THE CHASSIS	21
Adjusting the compression damping of the fork	
Adjusting the rebound damping of the fork Adjusting the compression damping of the shock	21
absorber	21
Adjusting the rebound damping of the shock absorber	
Measuring rear wheel sag unloaded	
Checking the static sag of the shock absorber	
Checking the riding sag of the shock absorber	
Adjusting the spring preload of the shock absorber 🔌	
Adjusting the riding sag 🔌	
Handlebar position	
Adjusting handlebar position 🔌	
MAINTENANCE WORK ON THE CHASSIS	
Raising the motorcycle with a lift stand	26
Removing the motorcycle from the lift stand	26
Bleeding fork legs	26
Cleaning the dust boots of the fork legs	
Removing the fork protector 🔌	
Installing the fork protector 🔌	
Removing the fork legs 🔌	
Installing the fork legs 🔌	
Removing the lower triple clamp 🔌	
Installing the lower triple clamp 🔌	
Checking play of steering head bearing	31

Adji	usting the play of the steering head bearing \blacktriangleleft	31
Gre	asing the steering head bearing 🔌	32
Disr	mounting the start number plate	32
Inst	alling the start number plate	32
	mounting the front fender	
	alling the front fender	
	noving the shock absorber 🔌	
	alling shock absorber 🔌	
	noving the seat	
	unting the seat	
	noving the air filter 4	
	alling the air filter 🔌	
	aning the air filter and air filter box 🔌	
	noving main silencer	
	alling the main silencer	36
	nging the glass fiber yarn filling of the main	
	ncer 🔌	
	mounting the fuel tank 🔌	
Inst	alling the fuel tank 🔌	37
Ren	noving the chain guard	38
Inst	alling the chain guard	38
Che	cking chain dirt	39
Clea	aning the chain	39
	cking the chain tension	
	usting the chain tension	
	cking the chain, rear sprocket, engine sprocket, and	
	in guide	40
	usting the chain guide 🔌	
	cking the frame 4	
	cking the swingarm 🌂	
	cking the swingarin –	
	cking the rubber grip	
	itionally securing the rubber grip	
-	usting basic position of clutch lever	
	cking the fluid level of hydraulic clutch	
	nging the hydraulic clutch fluid 🔌	
	Ξδ	
	cking free travel of hand brake lever	
Adji	usting the basic position of the hand brake lever	45
Che	cking brake discs	45
Che	cking front brake fluid level	46
Add	ling front brake fluid 🔌	46
Che	cking the front brake linings	47
Ren	noving front brake linings 🔌	47
	alling the front brake linings 🌂	
	nging the front brake linings	
	cking the free travel of the foot brake lever	
	usting the free travel of the foot brake lever \blacktriangleleft	
	usting the basic position of the foot brake lever 🔌	
	cking rear brake fluid level	
	ling rear brake fluid 🔌	
	cking the rear brake linings	
Ren	noving rear brake linings 🔌	52
	alling the rear brake linings 🔌	
Cha	nging the rear brake linings 🔌	53
WHEE	LS, TIRES	55
	noving the front wheel 🔌	
	alling the front wheel 🔌	
	noving the rear wheel 🔺	
	alling the rear wheel 🌂	
	cking the tire condition	
		57

TABLE OF CONTENTS

Checking tire air pressure	57
Checking spoke tension	57
COOLING SYSTEM	59
Cooling system	59
Checking the antifreeze and coolant level	59
Checking the coolant level	60
Draining the coolant 🔌	60
Refilling the coolant 🔌	
TUNING THE ENGINE	62
Checking the play in the throttle cable	
Adjusting the play in the throttle cable 🔧	
Carburetor - idle	62
Carburetor - adjusting the idle speed 🔌	62
Emptying the carburetor float chamber 🔧	
MAINTENANCE WORK ON THE ENGINE	
Checking the gear oil level	64
Changing the gear oil 🔌	64
Draining the gear oil 🔌	
Filling up with gear oil 🔌	
Adding gear oil 🔌	
CLEANING, CARE	
Cleaning motorcycle	
STORAGE	
Storage	68
Preparing for use after storage	
TROUBLESHOOTING	
TECHNICAL DATA - ENGINE	71
TECHNICAL DATA - ENGINE TIGHTENING TORQUES	72
TECHNICAL DATA - CARBURETOR	73
Basic setting	73
Carburetor configuration	73
TECHNICAL DATA - FORK	75
TECHNICAL DATA - SHOCK ABSORBER	76
TECHNICAL DATA - CHASSIS	77
TECHNICAL DATA - CHASSIS TIGHTENING TORQUES	78
SUBSTANCES	79
AUXILIARY SUBSTANCES	81
STANDARDS	83
INDEX	84

MEANS OF REPRESENTATION

Symbols used

The symbols us	ed are explained in the following.
\checkmark	Indicates an expected reaction (e.g., to a work step or a function).
X	Indicates an unexpected reaction (e.g., to a work step or a function).
4	All work marked with this symbol requires specialist knowledge and technical understanding. In the interest of the safety of your child, have these jobs done in an authorized KTM workshop! There, your motorcycle will be serviced optimally by specially trained experts using the specialist tools required.
•	Identifies a page reference (more information is provided on the specified page).
Formats used	
The typographic	cal and other formats used are explained in the following.
Proper name	Identifies a proper name.

Name[®] Identifies a protected name.

Brand™	Identifies a brand in merchandise traffic.

Use definition

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

lnfo

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

Service

A prerequisite for perfect operation and prevention of wear is that the engine and chassis service, care and adjustment work described in the owner's manual are properly carried out. Poor adjustment and tuning of the engine and chassis can lead to damage and breakage of components.

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

Pay careful attention to the prescribed running-in period, inspection and service intervals. If you observe these exactly, you will ensure a much longer service life for your motorcycle.

Warranty

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

Fuel, oils, etc.

You should use the fuels, oils and greases according to specifications as listed in the owner's manual.

Spare parts, accessories

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

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

Work rules

Special tools are needed for certain tasks. They are not included with the vehicle but can be ordered under the number in parentheses. Ex.: bearing puller (15112017000)

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

If a thread locker is used for the screw connections (e.g. **Loctite**[®]), follow the specific manufacturer instructions regarding its use. Parts that are to be reused after disassembly must be cleaned and checked for damage and wear. Change damaged or worn parts. After repair and maintenance, ensure that the vehicle is roadworthy.

Transport

Note

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

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

Note

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

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

- Use straps or other suitable devices to secure the motorcycle against accidents or falling over.

Switch off the engine.

IMPORTANT INFORMATION

Environment

Motorcycling is a wonderful sport and we naturally hope that you and your child will be able to enjoy it to the fullest. However, it is a potential problem for the environment and can lead to conflicts with other persons. But if you use your motorcycle responsibly, you can ensure that such problems and conflicts do not have to occur. To protect the future of motorcycle sport, make sure that your child uses the motorcycle legally, display environmental consciousness, and respect the rights of others.

Notes/warnings

Pay close attention to the notes/warnings.

Info

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

Grades of risks



Danger

Caution

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



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



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

Note

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



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

Owner's manual

- Carefully read this owner's manual in its entirety together with your child before letting your child ride the motorcycle for the first time. It contains a lot of information and tips to help you and your child operate and handle the motorcycle. Only then will you find out how to customize the motorcycle ideally for your child's use and how to protect your child from injury. The owner's manual also contains important information on servicing the motorcycle.
- The owner's manual is an important component of the motorcycle and should be handed over to the new owner if the vehicle is sold.

View of the vehicle from the left front (example)

1	Hand brake lever (🕈 p. 10)
2	Clutch lever (🖤 p. 10)
3	Quick release for seat lock
4	Front brake caliper
5	Fuel tap (🖤 p. 11)
6	Choke (* p. 11)
7	Shift lever (* p. 12)

8 Shock absorber rebound adjustment

5

6

7

8

9

Rear brake caliper

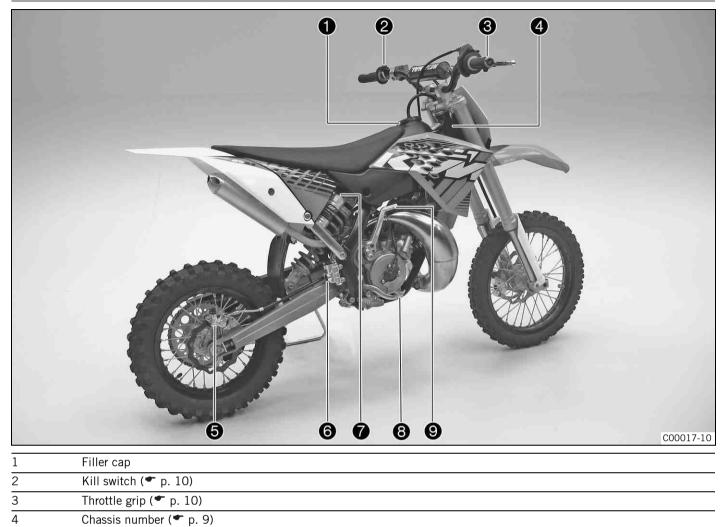
Level viewer for brake fluid, rear

Foot brake lever (* p. 12)

Kickstarter (* p. 12)

Shock absorber compression adjustment

View of the vehicle from the right rear (example)



SERIAL NUMBERS

Chassis number



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

Engine number



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

Shock absorber part number



The shock absorber part number ${\bf 0}$ is stamped on the top of the shock absorber above the adjusting ring on the engine side.

CONTROLS

Clutch lever



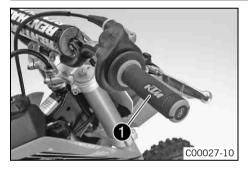
The clutch lever **1** is fitted on the left side of the handlebar. The clutch is hydraulically operated and self-adjusting.

Hand brake lever



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

Throttle grip



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

Kill switch



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

Possible states

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

Opening the filler cap



Danger Fire hazard Fuel is highly flammable.

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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

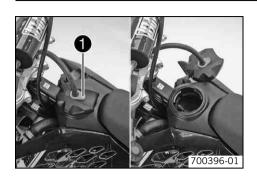
CONTROLS



Warning

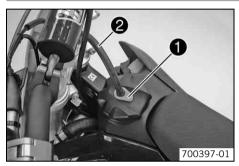
Environmental hazard Improper handling of fuel is a danger to the environment.

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



Press release button \bullet , turn the filler cap counterclockwise, and lift it free.

Closing the filler cap



Replace the filler cap and turn clockwise until the release button lacksquare locks in place.

Run the fuel tank breather hose 2 without kinks.

Fuel tap



Fuel tap \bullet is on the left of the fuel tank.

Possible states

Info

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

Choke



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

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

Info

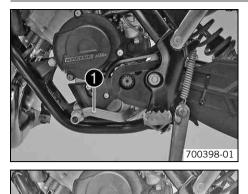
If the engine is warm, the choke function must be deactivated.

Possible states

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

CONTROLS

Shift lever



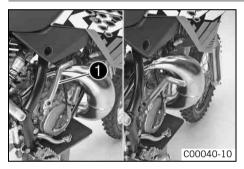
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Shift lever **1** is mounted on the left side of the engine.

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



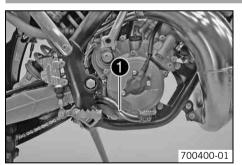


The kickstarter ① is fitted on the right of the engine. The kickstarter can be swiveled.

Info

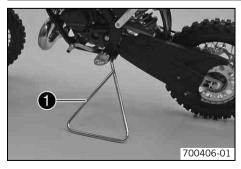
Before riding, swing the kickstarter inwards towards the engine.

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.

Plug-in stand



The fixture for the plug-in stand ${\bf 0}$ is located on the frame on the left side of the vehicle.

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



Remove the plug-in stand before riding.

Advice on first use



Warning

Danger of accidents Physical and mental readiness of a child.

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

Warning

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

Wear protective clothing (helmet, boots, gloves, pants and jacket with protectors) every time you ride the motorcycle. You
and your child should always used protective clothing that is in good condition and meets the legal requirements. When
you ride a motorcycle, set an example for your child and wear suitable protective clothing.



Warning

Warning

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

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



Danger of accidents Critical riding behavior due to inappropriate riding.

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



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

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



Warning

Danger of accidents Brake system failure.

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

Warning

Danger of accidents Destruction of chassis components.

- Do not exceed the maximum allowable rider weight.



Warning

Risk of misappropriation Usage by unauthorized persons.

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

e Info

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

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

- ✓ You receive a delivery certificate and the service record at vehicle handover.
- Carefully read the entire owner's manual together with your child before going for the first ride.



Pay special attention to the safety warnings and injury risks. Explain to your child the techniques of riding and falling, e.g. how shifting weight can influence handling characteristics.

- Familiarize your child with the controls.
- Adjust the basic position of the hand brake lever. (* p. 45)
- Adjust the basic position of the foot brake lever.

 (* p. 50)
- Before using the vehicle for the first time, ensure that the basic settings of the chassis are suitable for the weight of your child.

PUTTING INTO OPERATION

- Accustom your child to the handling of the motorcycle on suitable terrain, preferably on a large open meadow.

• Info

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

Initially, let your child drive to another person who can help your child stop and turn.

- Erect obstacles for your child to navigate around to accustom your child to handling the vehicle.
- Your child should also try to ride as slowly as possible and in a standing position to get a better feeling for the vehicle.
- Do not let your child ride on terrain that exceed your child's capabilities and experience.
- Your child should hold the handlebar firmly with both hands and keep his or her feet on the footrests when riding.
- Do not exceed the maximum allowable rider weight.

Maximum rider weight	< 50 kg (< 110 lb.)	

Check the spoke tension. (* p. 57)



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

– Run the engine in. (* p. 14)

Running in the engine

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

Guideline

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

- Avoid fully opening the throttle!

RIDING INSTRUCTIONS

Checks and maintenance measures when preparing for use

Info

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

- Check the rear brake fluid level. (* p. 50)
- Check the rear brake linings. (* p. 52)
- Check the brake system function.
- Check the chain dirt accumulation. (* p. 39)
- Check the chain, rear sprocket, engine sprocket, and chain guide. (* p. 40)
- Check the chain tension. (* p. 39)

- Check the spoke tension. (* p. 57)
- Bleed fork legs. (* p. 26)
- Check the air filter.
- Check the settings of all controls and ensure that they can be operated smoothly.
- Check all screws, nuts and hose clamps regularly for tightness.
- Check the fuel supply.

Starting

Danger

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

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

Note

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

- Always warm up the engine at low engine speeds.

Info

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

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

Engine has been out of use for more than 1 week

- Empty the carburetor float chamber. 🔌 (🕶 p. 63)
- Turn the knurled screw on the fuel tap all the way counterclockwise.
- Fuel can flow from the fuel tank to the carburetor.
- Remove the motorcycle from the stand.
- Shift gear to neutral.

The engine is cold

- Push the choke lever down all the way.
- Forcefully step on the kickstarter, pushing it all the way down.



Do not open the throttle.

RIDING INSTRUCTIONS

Starting off

• Info

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

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

Shifting, riding

Warning

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

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

lnfo

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 or for steep inclines.

- When conditions allow (incline, road situation, etc.), your child can shift into a higher gear. To do so, release the throttle while simultaneously pulling the clutch lever, shift into the next gear, release the clutch and open the throttle.
- If the choke function was activated, deactivate it after the engine has warmed up.
- When you reach maximum speed after fully opening the throttle, turn back the throttle to about ³/₄ of its range. The speed hardly drops, but the fuel consumption falls considerably.
- Your child should always open the throttle only as much as the engine can handle abruptly opening the throttle increases fuel consumption.
- To shift down, brake and close the throttle at the same time.
- Pull the clutch lever and shift into a lower gear, release the clutch lever slowly and open the throttle or shift again.
- Your child should switch off the engine if he or she expects to be standing for a long time.

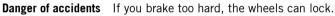
Gu	id	eliı	ne
N	2	m	in

- Your child should avoid frequent and extended slipping of the clutch. This heats the engine oil, the engine and the cooling system.

Insist that your child ride with a low rpm instead of with a high rpm and a slipping clutch.

Braking

Warning



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



Warning

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

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

Warning

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

- Clean or dry dirty or wet brakes by riding and braking gently.
- On sandy, wet or slippery surfaces, use the rear brake.
- Braking should always be completed before you go into a bend. Your child should change down to a lower gear appropriate to the road speed.
- Insist that your child take advantage of the braking action of the engine when riding on long downhills. To do so, shift back one or two gears, but do not overrev the engine. Your child will need to apply the brakes far less often and the brakes are not overheated.

RIDING INSTRUCTIONS

Stopping, parking

Warning

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



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

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

Note

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

Always place the vehicle on a firm and even surface.

Note

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

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

Note

Material damage Damage and destruction of components by excessive load.

- The side stand is designed for the weight of the motorcycle only. Do not sit on the motorcycle when it is supported by the side stand only. The side stand and/or the frame could be damaged and the motorcycle could fall over.
- Brake the motorcycle.
- Shift gear to neutral.
- Press and hold the kill switch \otimes while the engine is idling until the engine stops.
- Turn the knurled screw on the fuel tap all the way clockwise.
- Park the motorcycle on firm ground.

Refueling

Danger

Fire hazard Fuel is highly flammable.

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



Warning

Danger of poisoning Fuel is poisonous and a health hazard.

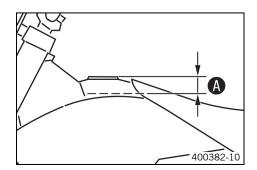
Avoid contact of the fuel with skin, eyes and clothing. Do not inhale fuel vapors. If fuel gets into your eyes, rinse immediately with water and contact a doctor. Wash affected skin areas immediately with soap and water. If fuel is swallowed, contact a doctor immediately. Change clothing that has come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



Warning

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

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



- Switch off the engine.
- Open the filler cap. (
 p. 10)
- Fill the fuel tank with fuel up to measurement ().

Guideline

Measurement of @		35 mm (1.38 in)			
Fuel tank capac- ity, approx.	3.5 (3.7 qt.)	Super unleaded gasoline, mixed with 2-stroke engine oil (1:60) (p. 80)			
$2 \text{ strate engine at } (\neq n, 70)$					

2-stroke engine oil (🕶 p. 79)

- Close the filler cap. (
 p. 11)

SERVICE SCHEDULE

Service schedule

	S10N	S20A	S40A	\$80A	J1A
Change the gear oil. Վ (🕶 p. 64)	•		•	•	
Check the gear oil level. (* p. 64)		•	•	•	
Check the front brake linings. (* p. 47)	•	•	•	•	
Check the rear brake linings. (* p. 52)	٠	•	•	•	
Check the brake discs. (* p. 45)	٠	•	•	•	
Check brake lines for damage and leakage.	٠	•	•	•	
Change the sealing sleeves of the foot brake cylinder. 🔌		•	•	•	
Change the rear brake fluid. 🔺					٠
Check the rear brake fluid level. (* p. 50)	٠	•	•	•	
Check the free travel of the foot brake lever. (* p. 49)	•	•	•	•	
Check the frame and swingarm. 🔧		•	•	•	
Check swingarm bearing. 🔺		•	•	•	
Check the heim joints on the upper and lower shock absorbers. 🔧		•	•	•	
Service the fork. 🔺			•	•	
Service the shock absorber. 🔌			•	•	
Check the tire condition. (* p. 57)	•	•	•	•	
Check the tire air pressure. (* p. 57)	•	•	•	•	
Check wheel bearing for play. 🔌		•	•	•	
Check the wheel hub. 🔦		•	•	•	
Check rim run-out. 🔧	•	•	•	•	
Check the spoke tension. (p. 57)	•	•	•	•	
Check the chain, rear sprocket, engine sprocket, and chain guide. (* p. 40)	•	•	•	•	
Check the chain tension. (p. 39)	•	•	•	•	
Lubricate all moving parts (e. g. hand levers, chain,) and check for smooth opera-	•	•	•	•	
tion. 🔦		_		_	
Change the hydraulic clutch fluid. 🔌 (🕶 p. 44)					•
Check the fluid level of the hydraulic clutch. (* p. 44)	•	•	•	•	
Change the front brake fluid. 🔌					•
Check the front brake brake fluid level. (* p. 46)	•	•	•	•	
Check the free travel of the hand brake lever. (* p. 45)	•	•	•	•	
Grease the steering head bearing. 🔌 (🕶 p. 32)					•
Check play of steering head bearing. (* p. 31)	•	•	•	•	
Change the spring of the exhaust control. 🔦			•	•	
Change the piston. 🔺			•	•	
Change the connecting rod, conrod bearing and crank pin. 🔌			•	•	
Change the crankshaft bearing. 🔌			•	•	
Check the transmission and shift mechanism. 🔌			•	•	
Change all engine bearings. 🔌				•	
Change the spark plug. 🔌		•	•	•	
Change the spark plug connector. 🔺			•	•	
Check the cylinder and piston. 🔧		•	•	•	
Check the intake membrane. 🔺		•	•	•	
Check the exhaust control for functioning and smooth operation. \blacktriangleleft		•	•	•	
Check the clutch. 🔌		•	•	•	
Check all hoses (e. g. fuel, cooling, bleeding, drainage) and sleeves for tearing, tightness and correct routing.	•	•	•	•	
Check the antifreeze and coolant level. (* p. 59)	•	•	•	•	
Check the cables for damage and routing without sharp bends.	•	•	•	•	

	S10N	\$20A	\$40A	\$80A	J1A
Clean the air filter and air filter box. 🔌 (🕶 p. 35)	•	•	•	•	
Change the glass fiber yarn filling of the main silencer. 🔧 (🕶 p. 36)		•	•	•	
Check the screws and nuts for tightness. 🔧	•	•	•	•	
Check/set the carburetor components. 🔧			•	•	•
Check idle. 🔺	•	•	•	•	
Final inspection: check the vehicle for operating safety and take a test ride.	•	•	•	•	
Create a service entry in the KTM DEALER.NET and in the service record.	•	•	•	•	

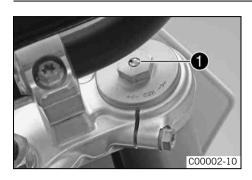
S10N: Once after 10 operating hours **S20A:** Every 20 operating hours **S40A:** Every 40 operating hours **S80A:** Every 80 operating hours **J1A:** Annually

TUNING THE CHASSIS

Adjusting the compression damping of the fork

Info

The hydraulic compression damping determines the fork suspension behavior.

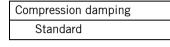


Turn adjusting screw ① clockwise all the way.

Info

Adjusting screw ${\bf 0}$ is located at the top end of the right fork leg and is labeled with a ${\bf COM}.$

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



Info Turn clo

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

2 turns

Adjusting the rebound damping of the fork

• Info

The hydraulic rebound damping determines the fork suspension behavior.



Turn adjusting screw ① clockwise all the way.

- Info
 Adjusting screw is located at the top end of the left fork leg and is labeled with a REB.
- Turn back counterclockwise by the number of clicks corresponding to the fork type.
 Guideline

Rebound	damping

Standard

2 turns

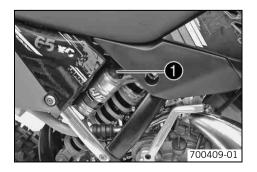
Info Turn clockwise to increase damping; turn counterclockwise to reduce damping.

Adjusting the compression damping of the shock absorber

Caution

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

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



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

 Compression damping

 Standard

 6 clicks

Info

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

TUNING THE CHASSIS

Adjusting the rebound damping of the shock absorber

Caution

- $\label{eq:constraint} \textbf{D} \textbf{anger of accidents} \quad \text{Disassembly of pressurized parts can lead to injury.}$
- The shock absorber is filled with high density nitrogen. Adhere to the description provided. (Your authorized KTM workshop will be glad to help.)



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

Guideline

Rebound damping

Standard	

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

12 clicks

Measuring rear wheel sag unloaded

- Raise the motorcycle with a lift stand. (* p. 26)
- Measure the distance as vertical as possible between the rear axle and a fixed point, for example, a mark on the side cover.
- Make a note of the value as measurement

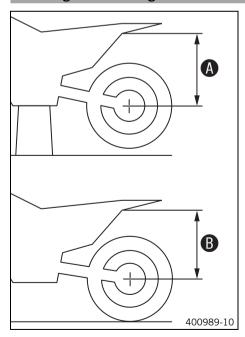
 Make a note of the value as measurement
 Make a note of the value as measurement
- Remove the motorcycle from the lift stand. (* p. 26)

Checking the static sag of the shock absorber

A

400988-10

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- Measure distance () of rear wheel unloaded. (* p. 22)
 - Hold the motorcycle in a vertical position with the assistance of another person.
- Measure the distance between the rear axle and the fixed point again.
- Make a note of the value as measurement **(B**).

Info

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

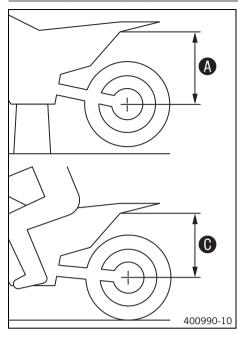
- Check the static sag.

Static sag	33 mm (1.3 in)

- » If the static sag is less or more than the specified value:
 - Adjust the spring preload of the shock absorber. ▲ (♥ p. 23)

TUNING THE CHASSIS

Checking the riding sag of the shock absorber



- Measure distance () of rear wheel unloaded. (* p. 22)

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



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

Check the riding sag.

Riding sag 90 mm (3.54 in)

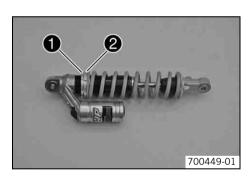
- » If the riding sag differs from the specified measurement:
 - Adjust the riding sag. 🔌 (🕶 p. 24)

Adjusting the spring preload of the shock absorber 🔧

Caution

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

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



- Remove shock absorber. 🔌 (🕶 p. 33)
- After removing the shock absorber, clean it thoroughly.
- Measure the full spring length while it is under tension and note down the value.
- Loosen retaining ring ①.
- Turn adjusting ring **2** until the spring is no longer under tension.

Combination wrench (50329080000) Hook wrench (T106S)

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

Spring preload

<u> </u>	61	
	Standard	7 mm (0.28 in)

Info

- The spring preload is the difference between the relaxed spring length and the tensioned spring length.
- Depending on the static sag and/or the riding sag, it may be necessary to increase or decrease the spring preload.
- Tighten retaining ring ①.
- 🛛 Install the shock absorber. 🔌 (🕶 p. 33)

Adjusting the riding sag 🔌

В00292-10
B00232 10

Remove shock absorber.

 (* p. 33)

- After removing the shock absorber, clean it thoroughly.
- Choose and mount a suitable spring.

Guideline

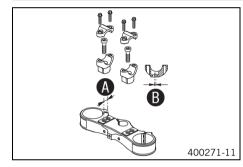
Spring rate	
Weight of rider: < 35 kg (< 77 lb.)	35 N/mm (200 lb/in)
Weight of rider: 35 45 kg (77 99 lb.)	40 N/mm (228 lb/in)
Weight of rider: > 45 kg (> 99 lb.)	45 N/mm (257 lb/in)

Info

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

- − Install the shock absorber. ◀ (♥ p. 33)
- Check the static sag of the shock absorber. (* p. 22)
- Check the riding sag of the shock absorber. (* p. 23)
- Adjust the rebound damping of the shock absorber. (* p. 22)

Handlebar position



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

	Distance 🛽 between holes	15 mm (0.59 in)			
The holes on the handlebar support are placed at a di					

The holes on the handlebar support are placed at a distance of ${\rm 0}$ from the center.

Distance	B between holes	3.5 mm (0.138 in)
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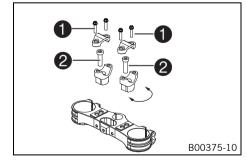
The handlebar supports can be mounted in 4 different positions.

Adjusting handlebar position 🔌

Warning

Danger of accidents Handlebar breakage.

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



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

Info

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

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

Guideline

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

• Info

Make sure cables and wiring are positioned correctly.

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

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

Make sure the gap width is even.

Raising the motorcycle with a lift stand

Note

- Danger of damage The parked vehicle may roll away or fall over.
- Always place the vehicle on a firm and even surface.



Raise the motorcycle at the frame underneath the engine.

Lift stand (59229055000)

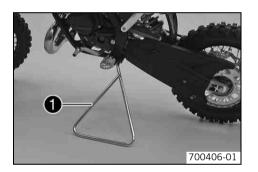
✓ The tires should no longer be in contact with the ground. Secure the motorcycle against falling over.

Removing the motorcycle from the lift stand

Note

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

Always place the vehicle on a firm and even surface.



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

lnfo

Remove the plug-in stand before riding.

Bleeding fork legs



- Raise the motorcycle with a lift stand. (* p. 26)
- Remove bleeder screws **1** briefly.
 - ✓ Any excess pressure escapes from the interior of the fork.
- Mount and tighten bleeder screws.
- Remove the motorcycle from the lift stand. (* p. 26)

Cleaning the dust boots of the fork legs



Push dust boots ① of both fork legs downwards.

Info

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

Warning

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

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

- Clean and oil the dust boots and inner fork tube of both fork legs.
 - Universal oil spray (* p. 82)
- Press the dust boots back into their normal position.
- Remove excess oil.

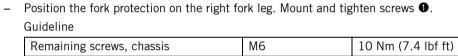
Removing the fork protector 🔧

- Remove screws **1**. Take off clamp **2**.

- Remove screw ③ on the left fork leg. Take off the fork protector.
- C00024-10
- Remove screw 4 on the right fork leg. Take off the fork protector.

Installing the fork protector 🔌





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

	Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	
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Position the brake line. Mount clamp ⁽³⁾

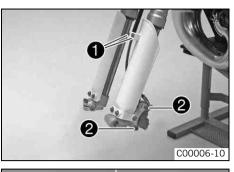
Mount the screws $oldsymbol{\Theta}$.

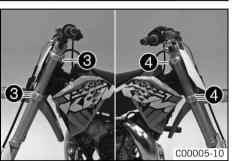
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C00024-11



Removing the fork legs 🔌





- − Remove the front wheel. ▲ (▼ p. 55)
 - Remove screws **①** and take off clamp.
- Remove screws 2 and take off brake caliper.
- Hang the brake caliper and the brake line loosely to the side.
- Loosen screw **③**. Remove the left fork leg.
- Loosen screw 4. Remove the right fork leg.

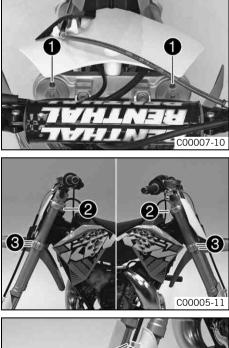
Installing the fork legs 🔧

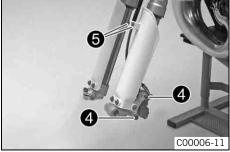
Warning

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

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

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- Position the fork legs.

Info

The upper milled groove in the fork leg must be flush with the top edge of the upper triple clamp. Position bleeder screws **1** to the front.

- Tighten screws 2.

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

Tighten screws 6.

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

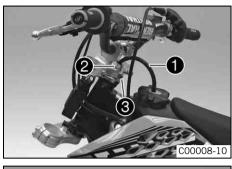
Position brake caliper, mount and tighten screws 4.

Guideline

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

- Position the brake line. Mount the clamp and screws **9**.
- Install the front wheel. 🔌 (🕶 p. 55)

Removing the lower triple clamp 🔌



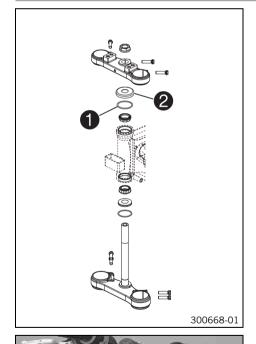


- − Remove the fork legs. ▲ (♥ p. 28)
- Dismount the front fender. (* p. 32)
- Remove fuel tank breather **①**.
- Remove nut ②. Remove screw ③, take off top triple clamp with the handlebar and place it on one side.



- Protect the motorcycle and its attachments against damage by covering them. Do not bend the cables and lines.
- Remove protective ring **4**.
- Remove the lower triple clamp with the steering stem.
- Remove the upper steering head bearing.

Installing the lower triple clamp 🔌





bearing.

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

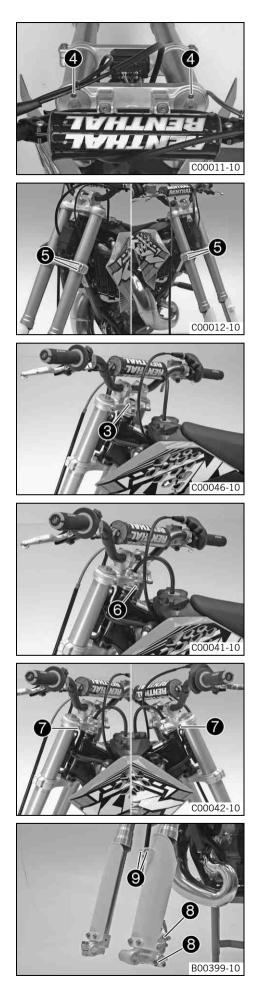
- Check whether the top steering head seal
 is correctly positioned.
- Slide on protective ring ②.

High viscosity grease (* p. 81)

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- Position the upper triple clamp with the steering.
- Mount nut **③**, but do not tighten it yet.





Position the fork legs.

• Info

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

Position bleeder screws @ toward the front.

Tighten screws **6**.

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

Tighten nut **3**.

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

- Position the fuel tank breather.

Mount and tighten screw **③**.

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

Mount and tighten screws 🕖.

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

Position brake caliper, mount and tighten screws $\boldsymbol{\Im}$.

Guideline

Screw, brake caliper M8	20 Nm (14.8 lbf ft)	octite [®] 243™
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- Position the brake line and clamp. Mount and tighten screws **9**.
- Install the start number plate. (* p. 32)
- Check that the wiring harness, cables, and brake and clutch lines can move freely and are routed correctly.
- Install the front wheel. 🔌 (🕶 p. 55)

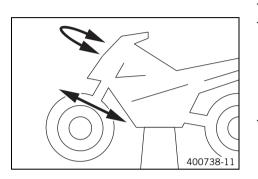
Checking play of steering head bearing

Warning

- Danger of accidents Unstable vehicle handling from incorrect steering head bearing play.
- Adjust the steering head bearing play without delay. (Your authorized KTM workshop will be glad to help.)

lnfo

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



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

No play should be noticeable in the steering head bearing.

- If there is noticeable play present:
 - Adjust the play of the steering head bearing. ◄ (♥ p. 31)
- Move the handlebar to and fro over the entire steering range.

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

- » If click positions are noticeable:
 - − Adjust the play of the steering head bearing. ◀ (♥ p. 31)
 - Check the steering head bearing and replace if required.
- Remove the motorcycle from the lift stand. (* p. 26)

Adjusting the play of the steering head bearing 🔺

- Raise the motorcycle with a lift stand. (* p. 26)
 Remove fuel tank breather ①.
 - Loosen screw 2.
 - Loosen screw 8.
 - Loosen and retighten nut ④.

Guideline	
Nut, steering stem	M20x1.5

- Using a plastic hammer, tap lightly on the upper triple clamp to avoid strains.
- Tighten screw 🕲.

Guideline

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Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)
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Tighten screws 2.

Guideline

Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)
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- Position the fuel tank breather ①.



10 Nm (7.4 lbf ft)

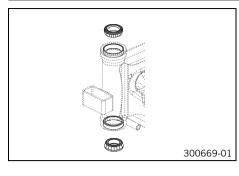
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Greasing the steering head bearing 🔺



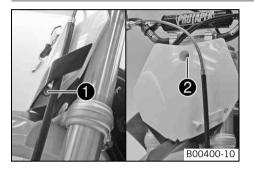
– Remove the lower triple clamp. 🔌 (🕶 p. 29)

– Install the lower triple clamp. 🔌 (🕶 p. 29)

Remove screw **①** and take off clamp.

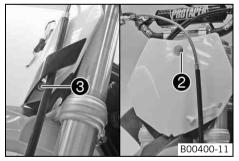
Remove screw **2**. Remove the start number plate.

Dismounting the start number plate



Installing the start number plate



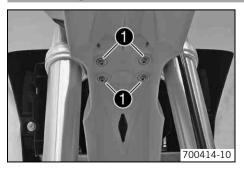


Mount and tighten screw ②.

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

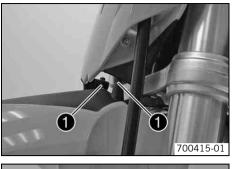
Position the brake line. Put the clamp on, mount and tighten screw 6.

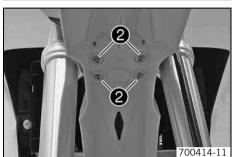
Dismounting the front fender



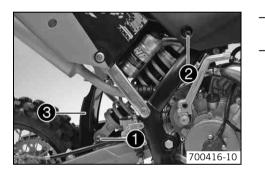
Remove screws **1**. Remove the front fender.

Installing the front fender





Removing the shock absorber 🔧

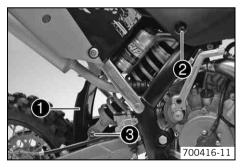


Position the front fender. Mount and tighten screws ②. Guideline

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

- Raise the motorcycle with a lift stand. (* p. 26)
- Remove screw ① and lower the rear wheel with the swingarm as far as possible without blocking the rear wheel. Fix the rear wheel in this position.
- Remove screw Ø, push splash protector Ø to the side, and remove the shock absorber.

Installing shock absorber 🔌



_	Push splash protector 1	to the side and positi	on the shock absorbe	r. Mount and
	tighten screw 🛛.			

Guideline

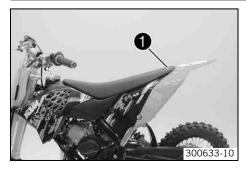
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Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)
Mount and tighten screw ③ .		

Guideline

dalaonno		
Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)
Remove the motorcycle from the lift s	stand. (* p. 26)	

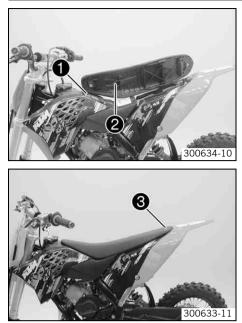
Removing the seat



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

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Mounting the seat



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

- Close quick release **③**.

Removing the air filter 🔧

Note

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

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

Warning

Environmental hazard Hazardous substances cause environmental damage.

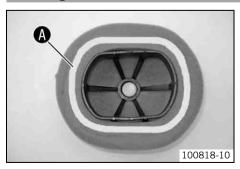
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.



- Unhook the air filter holder

 and swing it to the side. Remove the air filter with the air filter support.
- Remove the air filter from the air filter support.

Installing the air filter 🔌



- Mount the clean air filter onto the air filter support.
 - Grease the air filter in area (3).

Long-life grease (🕶 p. 81)



- Put in both parts together, position them and fix them with the air filter support $oldsymbol{0}$.

Info

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

Mount the seat. (🕶 p. 34)

Cleaning the air filter and air filter box 🔧

Warning

Info

Environmental hazard Hazardous substances cause environmental damage.

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

i

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

- Remove the air filter. 🔌 (🕶 p. 34)
- Wash the air filter thoroughly in special cleaning liquid and allow it to dry properly.

Air filter cleaner (* p. 81)

• Info Only

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

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

Oil for foam air filter (* p. 81)

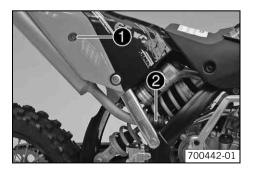
- Clean the air filter box.
- Check carburetor connection boot for damage and tightness.
- Install the air filter. 🔌 (🕶 p. 34)

Removing main silencer

Warning

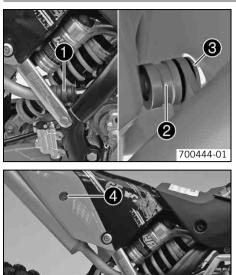
Danger of burns The exhaust system gets very hot when the vehicle is driven.

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



- Remove screw 1.
- Pull the main silencer off of the manifold at the rubber sleeve 2.

Installing the main silencer



- Mount the main silencer with the rubber sleeve **①**.
 - Position the wide collar bushing $\boldsymbol{2}$ and the narrow collar bushing $\boldsymbol{3}$.

Mount and tighten screw ④.

Guideline

Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
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Changing the glass fiber yarn filling of the main silencer 🔧

700442-10

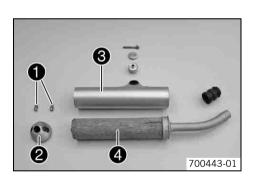
Warning

Info

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

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

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



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

	Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)
-	Install the main silencer. (* p. 36)		

Dismounting the fuel tank 🔌

Danger

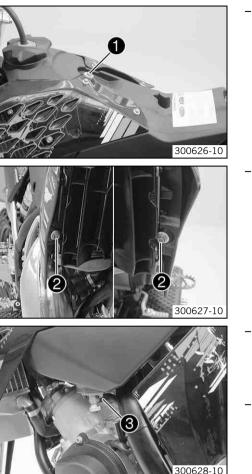
Fire hazard Fuel is highly flammable.

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



- Remove the seat. (* p. 33)
- Turn the knurled screw on the fuel tap all the way clockwise.
- Remove screw 0.

Remove screws 2.

Pull off fuel hose **③**.

Remaining fuel may run out of the fuel hose.

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

Installing the fuel tank 🔌



Danger Fire hazard Fuel is highly flammable.

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



Warning

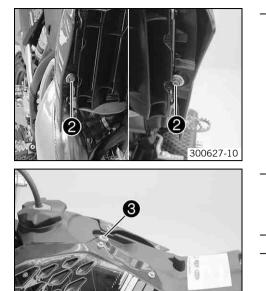
Danger of poisoning Fuel is poisonous and a health hazard.

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



- Position the fuel tank and attach both spoilers onto the sides of the radiator bracket.
- Ensure that cables are not pinched or damaged.
- Connect fuel hose ①.

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Mount and tighten screws **2**. Guideline

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

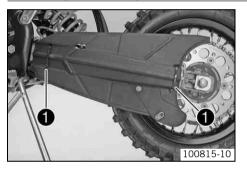
Mount and tighten screw 8.

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

Position the fuel tank breather.

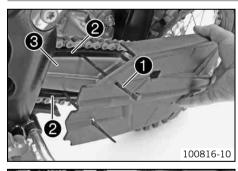
Mount the seat. (🕶 p. 34)

Removing the chain guard



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

Installing the chain guard





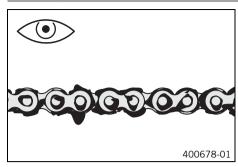
Info

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

100817-10

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

Checking chain dirt



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

Cleaning the chain



Warning

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

Remove oil and grease with a suitable cleaning material.



Warning

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

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



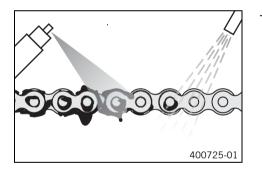
Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

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



Clean the chain regularly and then treat with chain spray.

Chain cleaner (* p. 81) Off-road chain spray (* p. 81)

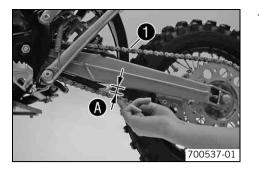
Checking the chain tension



Warning

Danger of accidents Danger caused by incorrect chain tension.

- If the chain tension is too high, the components of the secondary power train (chain, engine sprocket, rear sprocket, bearings in transmission and rear wheel) are under additional load. Apart from premature wear, in extreme cases the chain can rupture or the countershaft of the transmission can break. On the other hand, if the chain is loose, it can fall off the engine sprocket or the rear sprocket and block the rear wheel or damage the engine. Check the chain tension and correct if necessary.
 - Remove the chain guard. (🕶 p. 38)



Push the chain at the end of the chain sliding component upward to measure the chain tension \boldsymbol{Q} .

Info

The upper chain section ① must be taut. Because chain wear is not always even, repeat this measurement at different chain positions.

5... 8 mm (0.2... 0.31 in)

Chain tension

If the chain tension does not meet specifications:
--

- Install the chain guard. (🕶 p. 38)
- Remove the motorcycle from the lift stand. (* p. 26)

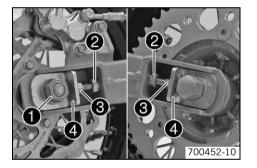
Adjusting the chain tension



Warning

Danger of accidents Danger caused by incorrect chain tension.

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



 \bigcirc

- Remove the chain guard. (* p. 38)
- Check the chain tension. (* p. 39)
- Loosen nut **1**.
- Loosen nuts 2.
- Adjust the chain tension by turning adjusting screws ⁽³⁾ left and right.

Guideline

Chain tension	5 8 mm (0.2 0.31 in)
Turn the left and right adjusting screws adjuster to the link fork on the left and r with the front wheel.	

- Tighten nuts **2**.
- Make sure that chain adjusters 4 are fitted correctly on adjusting screws 6.
- Tighten nut 🛈.

Guideline

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

Install the chain guard. (🕶 p. 38)

- Remove the motorcycle from the lift stand. (
 p. 26)

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

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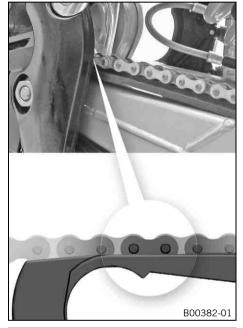
- Raise the motorcycle with a lift stand. (* p. 26)
- Remove the chain guard. (* p. 38)
- Check the rear sprocket and engine sprocket for wear.
 - » If the rear sprocket and engine sprocket are worn:
 - Change the rear sprocket or engine sprocket. 🔌

Info

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

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





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

Info

When you replace the chain, you should also change the rear sprocket and engine sprocket. New chains wear out faster on old, worn sprockets.

- Check the engine sprocket cover for wear.
 - \ast If the engine sprocket cover is worn through in the marked area $\textcircled{\begin{array}{c} \bullet \end{array}}$:
 - Change the engine sprocket cover. 🔌
- Check the engine sprocket cover for tightness.
 - » If the engine sprocket cover is loose:
 - Tighten the engine sprocket cover.
 Guideline
 Screw, engine sprocket cover

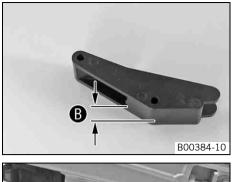
Screw, engine sprocket cover	M6	10 Nm
		(7.4 lbf ft)

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

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

Guideli	ne
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Remaining screws, chassis	M8	25 Nm
-		(18.4 lbf ft)

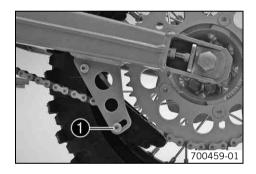




Adjusting the chain guide 🔺

e Info

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

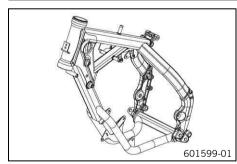


- Remove the chain guard. (🕶 p. 38)
- Loosen screw **1**.
- Position the chain guide.
 - Tighten screw.
- Guideline

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

– Install the chain guard. (🕶 p. 38)

Checking the frame 🔧



– Check the frame for cracking and deformation.

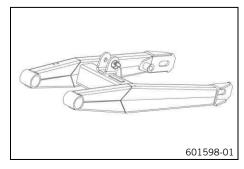
» If the frame exhibits cracking or deformation due to a mechanical impact:

– Change the frame. 🔌



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

Checking the swingarm 🔌



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

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

Info



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

Measure the material thickness ⁽⁾ on the bottom of the chain guide.

Minimum distance ⁽³⁾ at the lowest position	13 mm (0.51 in)
--	-----------------

- If distance ⁽¹⁾ is less than the specified measurement:
 - Change the chain guide. 🔌
- Check the chain guide for tightness.
 - » If the chain guide is loose:
 - Tighten the chain guide.
 - Guideline

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

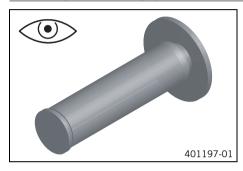
- Install the chain guard. (🕶 p. 38)

Checking the throttle cable routing



- Dismount the fuel tank. 🔌 (🕶 p. 36)
 - Check the throttle cable routing.
 - The throttle cable must be routed to the carburetor behind the handlebars above the tank bearing.
 - » If the throttle cable is not routed as specified:
 Correct the throttle cable routing.
 - Install the fuel tank. 🔌 (🕶 p. 37)

Checking the rubber grip



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

Rubber grip adhesive (00062030051) (* p. 82)

Additionally securing the rubber grip



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

Securing wire (54812016000) Wire twister forceps (U6907854)

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

Adjusting basic position of clutch lever



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

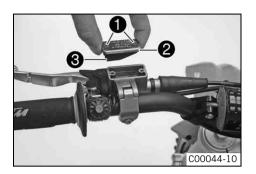
Info

- Turn the adjusting screw clockwise to increase the distance between the clutch lever and the handlebar.
 - Turn the adjusting screw counterclockwise to decrease the distance between the clutch lever and the handlebar.
 - The range of adjustment is limited.
 - Turn the adjusting screw by hand only, and do not apply any force. Do not make any adjustments while riding!

Checking the fluid level of hydraulic clutch

• Info

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



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

Fluid level under top level of container 4 mm (0.16 in)

- » If the level of the fluid does not meet specifications:
 - Correct the fluid level of the hydraulic clutch.

Hydraulic fluid (15) (🕶 p. 80)

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

Changing the hydraulic clutch fluid 🔌



Warning

Environmental hazard Hazardous substances cause environmental damage.

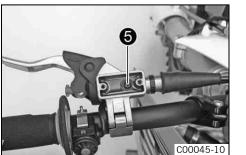
- Oil, grease, filters, fuel, cleaners, brake fluid, etc., should be disposed of as stipulated in applicable regulations.
- Info

The fluid level rises with increasing wear of the clutch lining disc.

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







Bleed syringe (50329050000)
Hydraulic fluid (15) (🕶 p. 80)

- On the slave cylinder, remove the bleeder screw and mount bleeding syringe @.
- Inject the liquid into the system until it escapes from drill hole

 of the master cylinder without bubbles.
- To prevent overflow, drain fluid occasionally from the master cylinder reservoir.
- Remove the bleeding syringe. Mount and tighten screws bleeder screw.
- Correct the fluid level of the hydraulic clutch.
 Guideline

Fluid level under top level of container 4 mm (0.16 in)

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

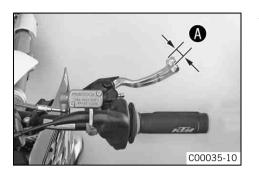
Checking free travel of hand brake lever



Warning

Danger of accidents Brake system failure.

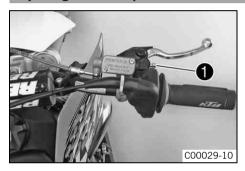
- If there is no free travel on the hand brake lever, pressure builds up in the front brake circuit. The front brake can fail due to overheating. Adjust free travel on hand brake lever according to specifications.



	Push the hand brake lever forwards and check free travel 🚯.		
	Free travel of hand brake lever \geq 3 mm (\geq 0.12 in)		
» If the free travel does not meet specifications:			

- Adjust the basic position of the hand brake lever. (* p. 45)

Adjusting the basic position of the hand brake lever



- Check the free travel of the hand brake lever. (
 p. 45)
- Adjust the basic position of the hand brake lever with the adjusting screw **①** to the rider's hand size.



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

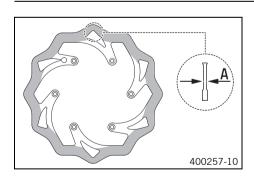
Checking brake discs

A

Warning

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

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



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

Info

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

Brake discs - wear limits	
Front	2.5 mm (0.098 in)
Rear	2.5 mm (0.098 in)

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

Checking front brake fluid level

Danger of accidents Brake system failure.

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

Warning

Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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

Warning

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

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

Warning

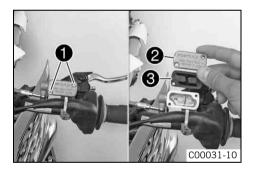
Environmental hazard Hazardous substances cause environmental damage.

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

Info

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

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



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

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

- If the brake fluid level does not meet specifications: Add front brake fluid. 🔌 (🕶 p. 46)
- Position the cover with the membrane. Mount and tighten the screws.

Info

Clean up overflowed or spilt brake fluid immediately with water.

Adding front brake fluid 🔧



Warning

Danger of accidents Brake system failure.

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



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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



Warning

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

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



Warning

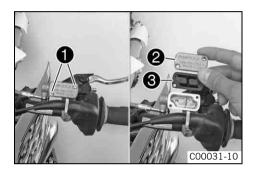
Environmental hazard Hazardous substances cause environmental damage.

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

Info

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

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



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

Guideline Brake fluid level under top level of container Brake fluid DOT 4 / DOT 5.1 (* p. 79)

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

Info

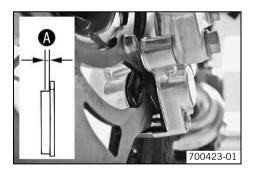
Clean up overflowed or spilt brake fluid immediately with water.

Checking the front brake linings

Warning

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

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



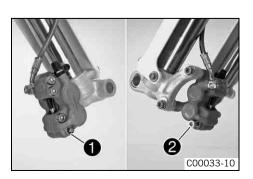
- Check the brake linings for minimum thickness ().

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

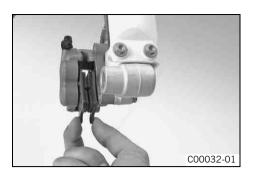
- Change the front brake linings. 🔌 (🕶 p. 48)
- Check the brake linings for damage and cracking.
 - » If damage or wear is encountered:
 - Change the front brake linings.

 (* p. 48)

Removing front brake linings 🔌



- Remove the front wheel. 🔌 (🕶 p. 55)
- Remove the lock washer ①.
- Remove screw 2.



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

Installing the front brake linings 🔧

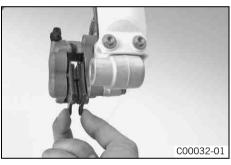
Warning

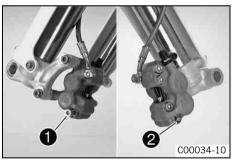
- **Danger of accidents** Reduced braking efficiency due to oil or grease on the brake discs.
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



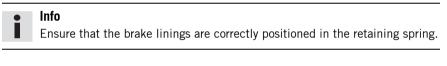
Warning

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





Insert the brake linings.



Mount and tighten screw **①**.

Guideline

Screw, brake linings	M6	10 Nm (7.4 lbf ft)	Lock washer (079904000
----------------------	----	-----------------------	---------------------------

- Mount lock washer 2.
- 🛛 Install the front wheel. 🔌 (🕶 p. 55)

Changing the front brake linings 🔌



Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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

Warning

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

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



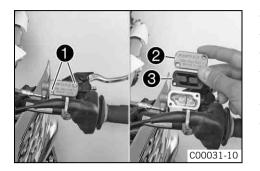
Environmental hazard Hazardous substances cause environmental damage.

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

Info

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

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



Remove the front brake linings. ◀ (♥ p. 47)

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

Guideline

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

Brake fluid DOT 4 / DOT 5.1 (* p. 79)

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

Info

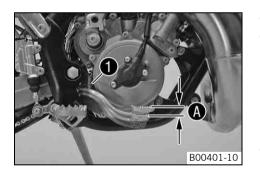
Clean up overflowed or spilt brake fluid immediately with water.

Checking the free travel of the foot brake lever



Warning Danger of accidents Brake system failure.

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



Disconnect spring ①.

- Move the foot brake lever back and forth between the end stop and the foot brake cylinder piston bracket and check free travel

 .
 - Guideline

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

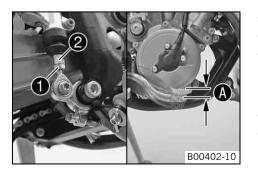
- » If the free travel does not meet specifications:
 - Adjust the free travel of the foot brake lever. ◀ (♥ p. 49)
- Attach spring ①.

Adjusting the free travel of the foot brake lever 🔧

Warning Danger of

Danger of accidents Brake system failure.

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



- Detach the spring.
- Loosen nut **1**.
- Turn push rod 2 until clearance 3 is created.
 - Guideline

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

- Hold push rod 2 and tighten nut 1.
- Attach the spring.

- Check whether the basic position of the foot brake lever is suitable for the rider.
 - » If the basic position of the foot brake lever needs to be adjusted:
 - Adjust the basic position of the foot brake lever. 🔌 (🕶 p. 50)

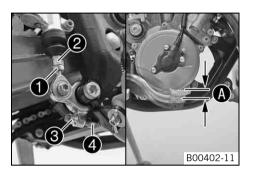
Adjusting the basic position of the foot brake lever 🔌



Warning

Danger of accidents Brake system failure.

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



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

•	Info
	The

- The range of adjustment is limited.
- Hold screw 4 and tighten nut 8.

Guideline			
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	
 Check the free travel of the foot brake lever. (* p. 49) Guideline 			
Free travel of foot brake lever	3 5 mm (0.12 ().2 in)	
 » If the free travel at the foot brake lever does not meet specifications: – Adjust the free travel of the foot brake lever. ▲ (p. 49) 			

- Attach spring **①**.

Checking rear brake fluid level

Warning

Danger of accidents Failure of the brake system.

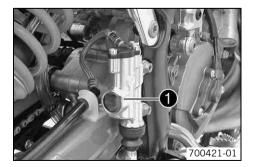
If the brake fluid level falls below the MIN mark, this indicates a leakage in the brake system or worn-out brake linings.
 Check the brake system and do not continue riding. (Your authorized KTM workshop will be glad to help.)



Warning

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

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



- Stand the vehicle upright.
- Check the brake fluid level in the viewer ①.

» When an air bubble is visible in the viewer $\mathbf{0}$:

– Add rear brake fluid. 🔌 (🕶 p. 51)

Adding rear brake fluid 🔌

Danger of accidents Failure of the brake system.

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

Warning

Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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

Warning

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

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



Warning

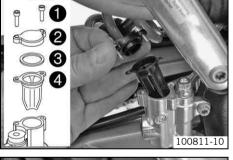
Environmental hazard Hazardous substances cause environmental damage.

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

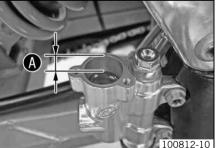
lnfo

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! Use only clean brake fluid from a sealed container.



- Raise the motorcycle with a lift stand. (* p. 26)
- Remove screws ①.
- Take off cover **2** with washer **3** and membrane **4**.



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

Brake fluid DOT 4 / DOT 5.1 (* p. 79)

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

lnfo

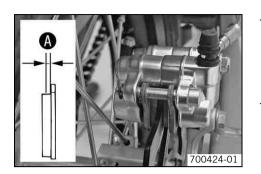
Clean up overflowed or spilt brake fluid immediately with water.

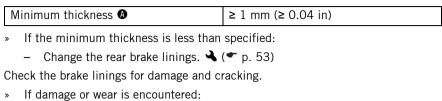
Warning

Checking the rear brake linings

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

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





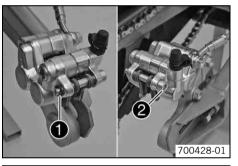
– Change the rear brake linings. 🔌 (🕶 p. 53)

Removing rear brake linings 🔌

Warning

Danger of accident Brake system failure.

- Maintenance work and repairs must be carried out professionally. (Your authorized KTM workshop will be glad to help.)



- Remove the rear wheel. 🔌 (🕶 p. 56)
- Remove lock washer **①**.
- Remove screw 2.



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

Installing the rear brake linings 🔌



Warning

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

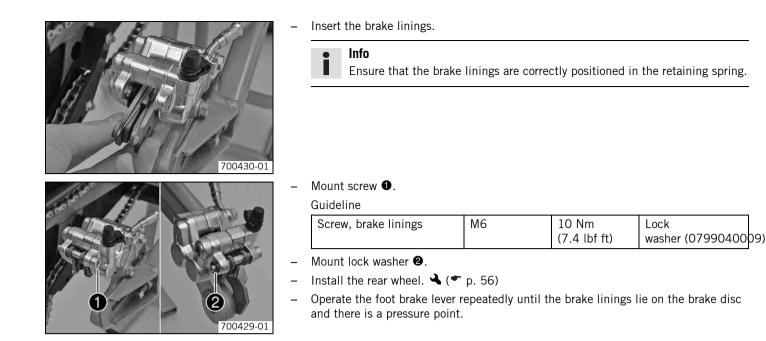
- Always keep the brake discs free of oil and grease, and clean them with brake cleaner when necessary.



Warning

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

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



Changing the rear brake linings 🔌

Warning

Skin irritation Brake fluid can cause skin irritation on contact.

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

Warning

Warning

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

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

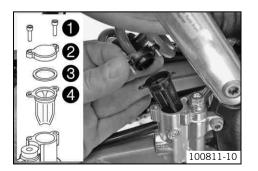
Environmental hazard Hazardous substances cause environmental damage.

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

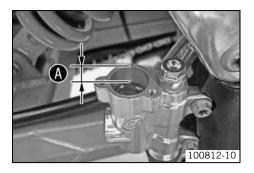
Info

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

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



- Remove the rear brake linings. 🔌 (🕶 p. 52)
- Remove screws ①.
- Take off cover 2 with washer 3 and membrane 4.
- Press the brake piston back to its basic position and make sure that no brake fluid overflows from the brake fluid reservoir.
- Install the rear brake linings. 🔌 (🕶 p. 52)



Guideline

Dimension () (brake fluid level below top edge of container)	10 mm (0.39 in)
Brake fluid DOT 4 / DOT 5.1 (* p. 79)	

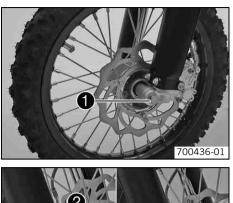
Position the membrane and the cover with the washer. Mount and tighten the screws.

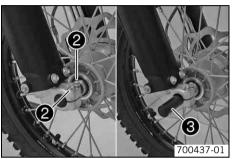
• Info Clea

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Clean up overflowed or spilt brake fluid immediately with water.

Removing the front wheel 🔌





- Raise the motorcycle with a lift stand. (***** p. 26)

Remove screw **1**.

- Loosen screw 2.
- Hold the front wheel and pull out wheel spindle ③. Take the front wheel out of the fork.

lnfo

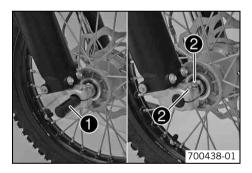
Do not pull the hand brake lever when the front wheel is removed. Always lay the wheel down in such a way that the brake disc is not damaged.

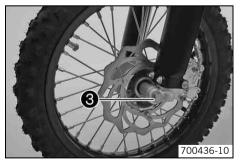
Installing the front wheel 🔧

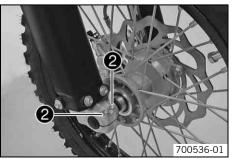
Warning

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

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







- Check the wheel bearing for damage and wear.
 - » If the wheel bearing is broken or worn:
 Change the wheel bearing. ◄
 - Clean and grease wheel spindle **①**.
- Lift the front wheel into the fork, position it, and insert wheel spindle $\mathbf{0}$.
- Tighten screws 2.

Guideline

Guideline

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

- Mount and tighten screw **3**.

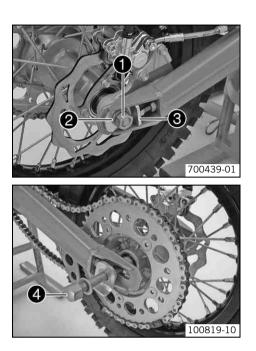
Screw, front wheel spindle	M10	40 Nm (29.5 lbf ft)
----------------------------	-----	------------------------

Remove the motorcycle from the lift stand. (* p. 26)

- Operate the hand brake lever several times until the brake linings are in contact with the brake disc.
- Loosen screw 2.
- Pull the front wheel brake and push down hard on the fork several times.
 This aligns the fork legs.
- − Tighten screws 2.
 - Guideline

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

Removing the rear wheel 🔌



- Raise the motorcycle with a lift stand. (* p. 26)
- Remove the chain guard. (* p. 38)
- Remove nut 1.
- Remove washer ② and chain adjuster ③.

- Withdraw the wheel spindle ④ 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.
- Holding the rear wheel, withdraw the wheel spindle. Take the rear wheel out of the swingarm.



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

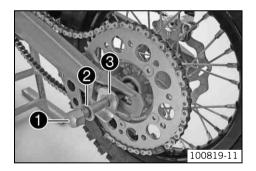
Installing the rear wheel 🔧

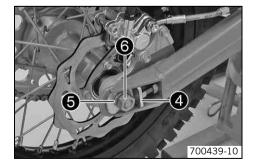
Warning

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

»

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





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

Long-life grease (🕶 p. 81)

- Lift the rear wheel into the swingarm and position it.
- Insert the wheel spindle ① with washer ② and chain adjuster ③.
- Apply the chain.
- Position chain adjuster ③ and push the wheel spindle all the way in.
- Position chain adjuster 4 and washer 6. Mount nut 6, but do not tighten it yet.
- Make sure that the chain adjusters are fitted correctly on the adjusting screws.
- Tighten nut 🛛.

Guideline

Nut, rear wheel spindle	M12x1	40 Nm (29.5 lbf ft)
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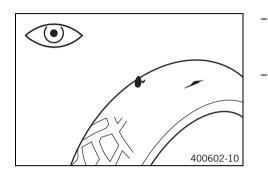
- Operate the foot brake lever repeatedly until the brake linings lie on the brake disc and there is a pressure point.

- Remove the motorcycle from the lift stand. (* p. 26)

Checking the tire condition

Info

Only mount tires that have been approved and/or recommended by KTM. Other tires could have a negative effect on riding behavior. The type, condition and air pressure of the tires all have an important impact on the riding behavior of the motorcycle. The front and rear wheels must be mounted with tires with similar profiles. Worn tires have a negative effect on riding behavior, especially on wet surfaces.



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

Info

Note local national regulations concerning the minimum tread depth.

≥ 2 mm (≥ 0.08 in)

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L	www	treau	ueptii	

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



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

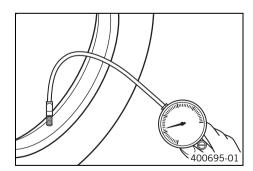
KTM recommends that the tires be changed after 5 years at the latest, regardless of the actual state of wear.

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

Checking tire air pressure

Info

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



- Remove the 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.

Checking spoke tension



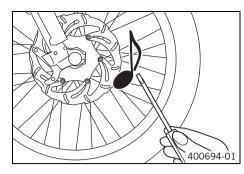


Danger of accidents Instable handling due to incorrect spoke tension.

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

Info

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



Briefly strike each spoke with the blade of a screwdriver.

Info i

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

You should hear a high note.

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

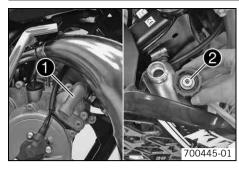
بناملن Gı

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

Torque wrench with various accessories in set (58429094000)

Cooling system



The water pump \bullet in the engine forces the coolant to flow.

The pressure resulting from the warming of the cooling system is regulated by a valve in the radiator cap @. 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.

Checking the antifreeze and coolant level

Warning

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

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

Warning

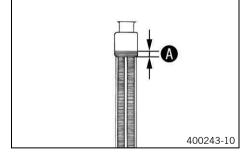
Danger of poisoning Coolant is poisonous and a health hazard.

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

• Info

Carry out this work with a cold engine.





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

-25... -45 °C (-13... -49 °F)

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

	Coolant level (above the radiator fins	10 mm (0.39 in)
:	» If the level of the coolant does not me	et specifications:

- Correct the coolant level.

Alternative 1

		Coolant (🕶	p. 79)
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Alternative 2

Coolant (mixed ready to use) (* p. 79)

- Mount the radiator cap.

COOLING SYSTEM

Checking the coolant level

Warning

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

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

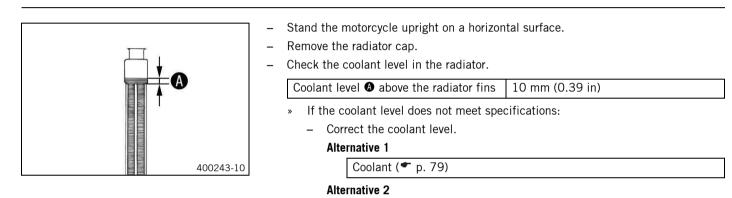
Warning

Danger of poisoning Coolant is poisonous and a health hazard.

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

Info

Carry out this work with a cold engine.



Coolant (mixed ready to use) (* p. 79)

Mount the radiator cap.

Draining the coolant 🔧

Warning

Warning

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

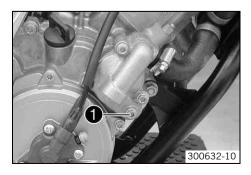
- Do not remove the radiator cap, radiator hoses or other cooling system components when the engine is hot. Allow the engine and cooling system to cool down. In case of scalding, rinse immediately with lukewarm water.

Danger of poisoning Coolant is poisonous and a health hazard.

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

Info

Carry out this work with a cold engine.



- Stand the vehicle upright.
- Place a suitable container beneath the water pump cover.
- Remove screw **①**. Remove the radiator cap.
- Completely drain the coolant.

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

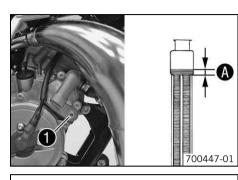
Refilling the coolant 🔌

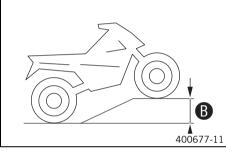
Warning



Danger of poisoning Coolant is poisonous and a health hazard.

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





-	Make	sure	that	screw	O	is tightened.
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- Stand the vehicle upright.
- Add coolant to level ().

Guideline

Level (above the radiator fins		10 mm (0.39 in)
Coolant	0.55 l (0.58 qt.)	Coolant (* p. 79) Coolant (mixed ready to use) (* p. 79)

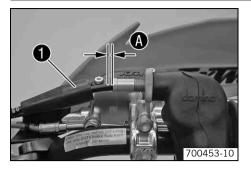
Position the vehicle as shown and secure it against rolling away. A height difference of
 must be reached.

Guideline

Height difference 🚯		100 cm (39.4 in)	
i	Info	cape from the cooling system, the front of	
	the vehicle must be jacked up. A poorly bled cooling system is less effective		

- at cooling and may result in overheating of the engine.
- Place the vehicle back on a level surface.
- Add coolant to level ().
- Mount the radiator cap.
- Make a short test ride.
- Check the coolant level. (* p. 60)

Checking the play in the throttle cable

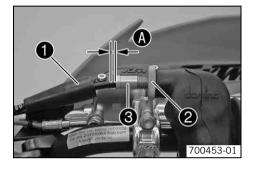


- Check the throttle grip for smooth operation.
- Move the handlebar to the straight-ahead position.
- Push back sleeve **①**.
- Pull back the throttle cable casing until you sense a resistance.
- Now check throttle cable play ().

Play in gas throttle cable		3 5 mm (0.12 0.2 in)	
»	» If the throttle cable play does not meet specifications:		

- Adjust the play in the throttle cable. 🔌 (🕶 p. 62)
- Slide on sleeve **①**. Check the throttle grip for smooth operation.

Adjusting the play in the throttle cable 🔧



- Move the handlebar to the straight-ahead position.
- Push back sleeve ①.
- Loosen nut 2. Turn adjusting screw 3 in as far as possible.

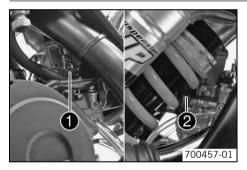
Guideline

_

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

- Tighten nut.
- Slide on sleeve **1**. Check the throttle grip for smooth operation.

Carburetor - idle



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

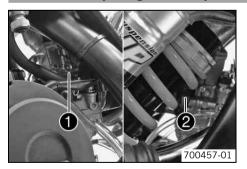


Info

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

The idle speed is adjusted with adjusting screw ①. The idle mixture is adjusted with idle adjusting screw ②.

Carburetor - adjusting the idle speed 🔌



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

Guideline

Open

Idle air adjusting screw

3.5 turns

3.5

Run the engine until warm.

Guideline

Warm-up time ≥ 5 min



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Adjust the idle speed with the adjusting screw $oldsymbol{0}$.

Guideline

Choke function deactivated – The choke lever is pushed up all the way. (p. 11)		
Idle speed	1,400 1,500 rpm	

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

Info

If the engine speed rises considerably, 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, you need to install a smaller idling jet.

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

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

Emptying the carburetor float chamber 🔧

Danger

Fire hazard Fuel is highly flammable.

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

Warning

Danger of poisoning Fuel is poisonous and a health hazard.

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



Warning

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

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

lnfo

Carry out this work with a cold engine. Water in the float chamber results in malfunctioning.



- Turn the knurled screw on the fuel tap all the way clockwise.
 No more fuel flows from the tank to the carburetor.
 - Place a cloth beneath the carburetor to soak up emerging fuel.
- Remove plug ①.
- Completely drain the fuel.
- Mount and tighten the plug.

Checking the gear oil level

Info

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



Stand the motorcycle upright on a horizontal surface. _

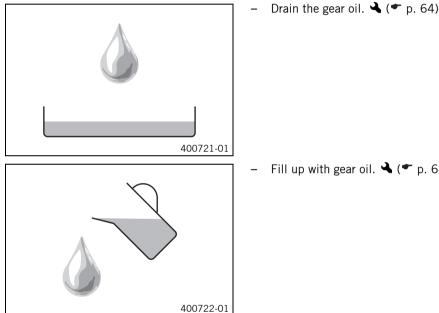
- Remove gear oil level check screw 1.
- Check the gear oil level.

A small amount of gear oil should flow out of the hole.

- If no gear oil flows out: »
 - Add gear oil. 🔌 (🕶 p. 65)
- Mount and tighten the gear oil level check screw. Guideline

|--|

Changing the gear oil 🔌



Fill up with gear oil. 🔌 (🕶 p. 65)

Draining the gear oil 🔧



Warning

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

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



Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

Drain the gear oil only when the engine is warm.

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

MAINTENANCE WORK ON THE ENGINE



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

M12x1 5

20 Nm
(14.8 lbf ft)

Filling up with gear oil 🔧

Info

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



Remove screw cap **1** and fill up with gear oil.

0.50 I (0.53 gt.) Engine oil (15W/50) (, 79) Gear oil

Mount and tighten screw cap.



Danger

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

- When running the engine, always make sure there is sufficient ventilation, and do not start or run the engine in an enclosed space without an effective exhaust extraction system.
- Start the engine and check that it is oil-tight.
- Check the gear oil level. (* p. 64)

Adding gear oil 🔧

Info

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

- Stand the motorcycle upright on a horizontal surface.
- Remove gear oil level check screw 1.





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

Engine oil (15W/50) (* p. 79)		
Mount and tighten the gear oil level check screw.		
Guideline		
Screw, gear oil level check	M6	6 Nm (4.4 lbf ft)
- Mount and tighten screw cap 2.		



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

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

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

CLEANING, CARE

Cleaning motorcycle

Note

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

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

$_{\mathcal{B}}$ Warning

Environmental hazard Hazardous substances cause environmental damage.

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

Info

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

- Seal the exhaust system to prevent penetration by water.
- First remove coarse dirt particles with a gentle water spray.
- Spray very dirty areas with a normal motorcycle cleaner and then clean with a brush.

Motorcycle cleaner (* p. 81)

• Info

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

- After rinsing the motorcycle with a gentle water spray, allow it to dry thoroughly.
- Empty the carburetor float chamber. 🔌 (* p. 63)

Warning

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

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

- After cleaning, let your child ride the vehicle a short distance until the engine warms up and the brakes are dried.

Info

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

- Push back the protection covers on the handlebar controls to allow water to evaporate.
- After the motorcycle has cooled off, lubricate all moving parts and bearings.
- Treat bare metal parts (except for brake discs and exhaust system) with anti-corrosion materials.

Cleaning and preserving materials for metal, rubber and plastic (* p. 81)

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

Cleaning and preserving materials for metal, rubber and plastic (* p. 81)

STORAGE

Warning

Storage



Danger of poisoning Fuel is poisonous and a health hazard.

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

Info

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

- Clean the motorcycle. (* p. 67)
- Change the gear oil. \checkmark (* p. 64)
- Check the antifreeze and coolant level. (* p. 59)
- Drain the fuel from the tank into a suitable container.
- Empty the carburetor float chamber. 🔌 (* p. 63)
- Check the tire air pressure. (* p. 57)
- Store the vehicle in a dry location that is not subject to large fluctuations in temperature.

Info

KTM recommends raising the motorcycle.

- Raise the motorcycle with a lift stand. (p. 26)
- Cover the vehicle with a tarp or similar cover that is permeable to air.

Info

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

Preparing for use after storage

- Remove the motorcycle from the lift stand. (* p. 26)
- Fill up with fuel. (p. 17)
- Perform checks and maintenance measures when preparing the motorcycle for use. (* p. 15)
- Take a test ride.

Faults	Possible cause	Action
Engine turns but does not start	Operating error	 Go through the steps of starting the engine. (* p. 15)
	Motorcycle was out of use for a long time and there is old fuel in the float chamber	 Empty the carburetor float chamber. (* p. 63)
	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 plug too wide	 Adjust the plug gap. Guideline Spark plug electrode gap 0.60 mm (0.0236 in)
	Fault in ignition system	– Check the ignition system. 🔌
		– Adjust the ignition.
	Short circuit cable in wiring harness frayed, kill switch defective	- Check the kill switch.
	Socket connector or ignition coil is loose or oxidized	 Clean the socket 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. (* p. 62)
	Spark plug defective	– Change spark plug.
	Ignition system defective	– Check the ignition coil. 🔦
		 Check the spark plug connector.
Engine does not speed up	Carburetor running over because float needle dirty or worn	 Check/set the carburetor components.
	Loose carburetor jets	 Check/set the carburetor components.
	Fault in ignition system	– Check the ignition system. 🔧
		– Adjust the ignition. 🔧
Engine has too little power	Fuel feed interrupted	 Check the fuel tank breather.
		 Clean the fuel tap.
		 Check/set the carburetor components.
	Air filter very dirty	 Clean the air filter and air filter box. (* p. 35)
	Exhaust system leaky, deformed or	 Check exhaust system for damage.
	too little glass fiber yarn filling in main silencer	 Change the glass fiber yarn filling of the main silencer. ▲ (p. 36)
	Fault in ignition system	 Check the ignition system. Adjust the ignition.
	Diaphragm or reed valve housing damaged	 Check the diaphragm and reed valve housing.
	Noticeable wear	– Overhaul the engine.
Engine stalls or is popping into the carburetor	Lack of fuel	 Turn the knurled screw on the fuel tap all the way counterclockwise.
		– Fill up with fuel. (🕶 p. 17)
	Engine takes in bad air	 Check the intake flange and carburetor for tightness.
	Socket connector or ignition coil is loose or oxidized	 Clean the socket 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. (
	Too little air stream	 Switch off engine when standing.

Faults	Possible cause	Action
Engine overheats	Radiator fins very dirty	 Clean radiator fins.
	Foam formation in cooling system	- Drain the coolant. 🔧 (🕶 p. 60)
		- Refill the coolant. 🔌 (🕶 p. 61)
	Damaged cylinder head or cylinder head gasket	 Check the cylinder head or cylinder head gas- ket.
	Bent radiator hose	– Change the radiator hose. 🔌
	Incorrect ignition point due to loose stator	– Adjust the ignition. 🔌
White smoke emission (steam in exhaust gas)	Damaged cylinder head or cylinder head gasket	 Check the cylinder head or cylinder head gas- ket.
Gear oil exits at the vent hose	Too much gear oil added	- Check the gear oil level. (p. 64)
Water in the gear oil	Damaged shaft seal ring or water pump	- Check the shaft seal ring and water pump.

Design		1-cylinder 2-stroke engine, water-cooled, with reed intake and exhaust control	
Displacement		64.85 cm ³ (3.9574 cu in)	
Stroke		40.8 mm (1.606 in)	
Bore		45 mm (1.77 in)	
Idle speed		1,400 1,500 rpm	
Control		Exhaust control PCEV (Pneumatic Controlled Exhaust Valve)	
Crankshaft bearing		2 grooved ball bearings	
Conrod bearing		Needle bearing	
Piston pin bearing		Needle bearing	
Pistons		Aluminum cast	
Piston rings		1 rectangular ring	
Engine lubrication		Mixture oil lubrication	
Primary transmission		23:75 straight cut spur gear	
Clutch		Multidisc clutch in oil bath/hydraulically activated	
Gearbox		6-gear, claw shifted	
Transmission ratio		· ·	
1st gear		13:37	
2nd gear		16:34	
3rd gear		18:31	
4th gear		21:30	
5th gear		23:28	
6th gear		24:26	
Ignition		Non-contact controlled fully electronic ignition system with digi- tal ignition adjustment	
Spark plug		NGK LR 8 B	
Spark plug electrode ga	ар	0.60 mm (0.0236 in)	
Cooling		Water-cooled	
Starting aid		Kickstarter	
Gear oil	0.50 l (0.53 qt.)	Engine oil (15W/50) (🕶 p. 79)	
Coolant	0.55 I (0.58 qt.)	Coolant (* p. 79)	
		Coolant (mixed ready to use) (* p. 79)	

TECHNICAL DATA - ENGINE TIGHTENING TORQUES 72

Nut, exhaust control diaphragm	M5	4 Nm (3 lbf ft)	-
Screw, clutch line holder	M5	5 Nm (3.7 lbf ft)	_
Screw, diaphragm cover of exhaust control	M5	4 Nm (3 lbf ft)	-
Screw, ignition system/stator	M5	5 Nm (3.7 lbf ft)	Loctite [®] 222
Screw, main shaft bearing retainer	M5	5 Nm (3.7 lbf ft)	Loctite [®] 648™
Screw, reed valve housing of exhaust control	M5	5 Nm (3.7 lbf ft)	-
Screw, retaining bracket for return spring of shift shaft	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, shift drum locating	M5	6 Nm (4.4 lbf ft)	Loctite [®] 243™
Screw, water pump wheel	M5	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Drain plug, water pump cover	M6	6 Nm (4.4 lbf ft)	-
Screw, alternator cover	M6	8 Nm (5.9 lbf ft)	-
Screw, clutch intermediate cover	M6	10 Nm (7.4 lbf ft)	-
Screw, clutch slave cylinder	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, clutch springs	M6	10 Nm (7.4 lbf ft)	-
Screw, engine case	M6	10 Nm (7.4 lbf ft)	-
Screw, engine sprocket cover	M6	10 Nm (7.4 lbf ft)	-
Screw, exhaust flange	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, gear oil level check	M6	6 Nm (4.4 lbf ft)	-
Screw, intake flange/reed valve housing	M6	10 Nm (7.4 lbf ft)	-
Screw, kickstarter stop piece	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, outer clutch cover	M6	10 Nm (7.4 lbf ft)	-
Screw, reed valve housing of exhaust control	M6	10 Nm (7.4 lbf ft)	-
Screw, shift drum bearing retainer	M6	8 Nm (5.9 lbf ft)	Loctite [®] 243™
Screw, shift drum locating	M6	10 Nm (7.4 lbf ft)	Loctite [®] 243™
Screw, shift lever	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, water pump cover	M6	8 Nm (5.9 lbf ft)	-
Vacuum connection/vent connection	M6	5 Nm (3.7 lbf ft)	Loctite [®] 243™
Screw, cylinder head	M7	18 Nm (13.3 lbf ft)	-
Nuts, cylinder base	M8	20 Nm (14.8 lbf ft)	-
Screw, kickstarter	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Stud, cylinder base (left section of the engine case)	M8	Tightening sequence: screw in until it projects by 27 mm (1.063 in)	Loctite [®] 243™
Stud, cylinder base (right section of the engine case)	M8	Tightening sequence: screw in until it projects by 27 mm (1.063 in)	Loctite [®] 243™
Screw, inner clutch hub	M10	60 Nm (44.3 lbf ft)	Loctite [®] 243™
Spark plug	M10x1	10 12 Nm (7.4 8.9 lbf ft)	-
Nut, rotor	M12x1	50 Nm (36.9 lbf ft)	-
Oil drain plug with magnet	M12x1.5	20 Nm (14.8 lbf ft)	-
Nut, primary gear	M14x1.25	40 Nm (29.5 lbf ft)	Loctite [®] 243™

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

Carburetor configuration

NDL

MIKUNI TM 24							
M/FT ASL	TEMP	-20°C7°C	-6°C 5°C	6°C 15°C	16°C 24°C	25°C 36°C	37°C 49°C
ł	\longrightarrow	-2°F 20°F	19°F 41°F	42°F 60°F	61 <i>°F 78°F</i>	79°F 98°F	99°F 120°F
3.000 m 10,000 ft 2.301 m 7,501 ft	ASO IJ NDL POS MJ	3,5 20 5IPL43 2 210	3,5 20 5IPL43 1 210	3,5 15 5IPL43 1 205	3,5 15 5IPL43 1 200	3,5 10 5IPL43 1 195	
2.300 m 7,500 ft 1.501 m 5,001 ft	ASO IJ NDL POS MJ	3,5 20 5IPL43 2 210	3,5 20 5IPL43 2 210	3,5 20 5IPL43 1 210	3,5 15 5IPL43 1 205	3,5 15 5IPL43 1 200	3,5 10 5IPL43 1 195
1.500 m 5,000 ft 151 m 2,501 ft	ASO IJ NDL POS MJ	3,5 20 5IPL43 3 215	3,5 20 5IPL43 2 210	3,5 20 5IPL43 2 210	3,5 20 5IPL43 1 210	3,5 15 5IPL43 1 205	3,5 15 5IPL43 1 200
750 m 2,500 ft 1 301 m 1,001 ft	ASO IJ NDL POS MJ	2,5 25 5IPL43 3 220	3,5 20 5IPL43 3 215	3,5 20 5IPL43 2 210	3,5 20 5IPL43 2 210	3,5 20 5IPL43 1 210	3,5 15 5IPL43 1 205
300 m 1,000 ft 0 m 0 ft	ASO IJ NDL POS MJ	2 25 5IPL43 4 225	2,5 25 5IPL43 3 220	3,5 20 5IPL43 3 215	3,5 20 5IPL43 2 210	3,5 20 5IPL43 2 210	3,5 20 5IPL43 1 210
M/FT ASL TEMP ASO IJ		T	Above sea level emperature dle air adjusting so dling jet	crew open (rotatio	ons)		

Jet needle

TECHNICAL DATA - CARBURETOR

POS	Needle position from above
MJ	Main jet

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

Fork part number		07.18.7L.04
Fork		WP Suspension USD 35
Compression damping		
Standard		2 turns
Rebound damping		
Standard		2 turns
Spring rate		
Soft		2.6 N/mm (14.8 lb/in)
Medium (standard)		2.8 N/mm (16 lb/in)
Hard		3.0 N/mm (17.1 lb/in)
Spring length with preload spacer(s)		337.5 mm (13.287 in)
Fork length		735 mm (28.94 in)
Fork oil per fork leg	240±10 ml (8.11±0.34 fl. oz.)	Fork oil (SAE 5) (p. 79)

TECHNICAL DATA - SHOCK ABSORBER

Shock absorber part number	03.18.7L.03	
Shock absorber	WP Suspension 3614 BAVP	
Compression damping	· ·	
Standard	6 clicks	
Rebound damping	· ·	
Standard	12 clicks	
Spring preload		
Standard	7 mm (0.28 in)	
Spring rate		
Weight of rider: < 35 kg (< 77 lb.)	35 N/mm (200 lb/in)	
Weight of rider: 35 45 kg (77 99 lb.)	40 N/mm (228 lb/in)	
Weight of rider: > 45 kg (> 99 lb.)	45 N/mm (257 lb/in)	
Spring length	220 mm (8.66 in)	
Gas pressure	10 bar (145 psi)	
Static sag	33 mm (1.3 in)	
Riding sag	90 mm (3.54 in)	
Fitted length	347 mm (13.66 in)	
Shock absorber oil (* p. 80)	SAE 2.5	

Frame		Central tube frame of chrome molybdenum steel tubing, powder- coated
Fork		WP Suspension USD 35
Shock absorber		WP Suspension 3614 BAVP
Suspension travel		
Front		215 mm (8.46 in)
Rear		270 mm (10.63 in)
Fork offset		22 mm (0.87 in)
Brake system		
Front		Disc brake with four-pot brake caliper
Rear		Disc brake with two-pot brake caliper
Brake disc diameters		
Front		198 mm (7.8 in)
Rear		160 mm (6.3 in)
Brake discs - wear limits		
Front		2.5 mm (0.098 in)
Rear		2.5 mm (0.098 in)
Tire air pressure off road		
Front		1.0 bar (15 psi)
Rear		1.0 bar (15 psi)
Secondary drive ratio		14:48
Chain		1/2 x 1/4" O-ring
Rear sprockets available		46, 48, 50
Steering head angle		64.5°
Wheelbase		1,137 mm (44.76 in)
Seat height unloaded		750 mm (29.53 in)
Ground clearance unloaded		280 mm (11.02 in)
Weight without fuel, approx.		55.5 kg (122.4 lb.)
Maximum rider weight		< 50 kg (< 110 lb.)
Front tire		Rear tire
60/100 - 14 29M TT Pirelli SCORPION MX Mid Soft 32 NHS		80/100 - 12 50M TT Pirelli SCORPION MX Mid Soft 32 NHS
Additional information is availa http://www.ktm.com	able in the Service section	under:
Fuel tank capacity, approx.	3.5 I (3.7 qt.)	Super unleaded gasoline, mixed with 2-stroke engine oil (1:60) (* p. 80)

TECHNICAL DATA - CHASSIS TIGHTENING TORQUES

Spoke nipple	M3.5	3 Nm (2.2 lbf ft)	-
Remaining nuts, chassis	M6	10 Nm (7.4 lbf ft)	-
Remaining screws, chassis	M6	10 Nm (7.4 lbf ft)	-
Screw, ball joint of push rod on foot brake cylinder	M6	10 Nm (7.4 lbf ft)	-
Screw, foot brake cylinder	M6	10 Nm (7.4 lbf ft)	-
Screw, fork stub	M6	10 Nm (7.4 lbf ft)	-
Screw, front brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, rear brake disc	M6	14 Nm (10.3 lbf ft)	Loctite [®] 243™
Screw, throttle grip	M6	4.5 Nm (3.32 lbf ft)	-
Nut, rim lock	M8	10 Nm (7.4 lbf ft)	-
Remaining nuts, chassis	M8	25 Nm (18.4 lbf ft)	-
Remaining screws, chassis	M8	25 Nm (18.4 lbf ft)	-
Screw, bottom triple clamp	M8	15 Nm (11.1 lbf ft)	-
Screw, brake caliper	M8	20 Nm (14.8 lbf ft)	Loctite [®] 243™
Screw, engine bracket	M8	30 Nm (22.1 lbf ft)	-
Screw, foot brake lever	M8	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Screw, handlebar clamp	M8	20 Nm (14.8 lbf ft)	-
Screw, rear sprocket	M8	25 Nm (18.4 lbf ft)	Loctite [®] 243™
Screw, tail piece	M8	35 Nm (25.8 lbf ft)	Loctite [®] 243™
Screw, top triple clamp	M8	20 Nm (14.8 lbf ft)	-
Remaining nuts, chassis	M10	45 Nm (33.2 lbf ft)	-
Remaining screws, chassis	M10	45 Nm (33.2 lbf ft)	-
Screw, bottom shock absorber	M10	45 Nm (33.2 lbf ft)	-
Screw, front wheel spindle	M10	40 Nm (29.5 lbf ft)	-
Screw, handlebar support	M10	40 Nm (29.5 lbf ft)	Loctite [®] 243™
Screw, top shock absorber	M10	45 Nm (33.2 lbf ft)	-
Nut, rear wheel spindle	M12x1	40 Nm (29.5 lbf ft)	-
Nut, swingarm pivot	M12x1	40 Nm (29.5 lbf ft)	-
Nut, steering stem	M20x1.5	10 Nm (7.4 lbf ft)	-

SUBSTANCES

2-stroke engine oil

According to

– JASO FC (🕶 p. 83)

Guideline

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

Fully synthetic

Supplier

Motorex®

Cross Power 2T

Brake fluid DOT 4 / DOT 5.1

According to

– DOT

Guideline

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

Supplier

Castrol

RESPONSE BRAKE FLUID SUPER DOT 4

Motorex®

Brake Fluid DOT 5.1

Coolant

Guideline

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

Mixture ratio

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

·····,	
Antifreeze	-40 °C (-40 °F)

Supplier Motorex[®]

– Anti Freeze

- Allu Fleeze

Engine oil (15W/50)

According to

- JASO T903 MA (🕶 p. 83)
- SAE (***** p. 83) (15W/50)

Guideline

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

Supplier

Motorex®

Top Speed 4T

Fork oil (SAE 5)

According to

SAE (

 p. 83) (SAE 5)

Guideline

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

Supplier

Motorex®

Racing Fork Oil

SUBSTANCES

Hydraulic fluid (15)

According to

– ISO VG (15)

Guideline

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

Supplier

Motorex[®] – Hydraulic Fluid 75

Shock absorber oil (SAE 2.5) (50180342S1)

According to

– SAE (🕶 p. 83) (SAE 2.5)

Guideline

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

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

According to

– DIN EN 228 (ROZ 95/RON 95/PON 91)

Guideline

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

Info

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

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

According to

- DIN EN 228

– JASO FC (🕶 p. 83) (1:60)

Mixture ratio

1:60	2-stroke engine oil (* p. 79)
	Super unleaded (ROZ 95/RON 95/PON 91) (p. 80)

Supplier

Motorex®

Cross Power 2T

AUXILIARY SUBSTANCES

Air filter cleaner

Guideline

- KTM recommends Motorex® products.

Supplier

Motorex®

Twin Air Dirt Bio Remover

Chain cleaner

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex®

Chain Clean

Cleaning and preserving materials for metal, rubber and plastic

Guideline

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

Supplier

Motorex®

Protect & Shine

High viscosity grease

Guideline

KTM recommends SKF[®] products.

Supplier

SKF[®] – LGHB 2

Long-life grease

Guideline

- KTM recommends Motorex® products.

Supplier

Motorex®

Bike Grease 2000

Motorcycle cleaner

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex[®] – Moto

Moto Clean 900

Off-road chain spray

Guideline – KTM recommends Motorex[®] products. Supplier Motorex[®] – Chainlube Offroad

Oil for foam air filter

Guideline

KTM recommends Motorex[®] products.

Supplier

Motorex®

- Twin Air Liquid Bio Power

AUXILIARY SUBSTANCES

Rubber grip adhesive (00062030051)

Supplier

KTM-Sportmotorcycle AG – **GRIP GLUE**

Universal oil spray

Guideline

- KTM recommends Motorex[®] products.

Supplier

Motorex®

- Joker 440 Synthetic

STANDARDS

JASO FC

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

JASO T903 MA

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

SAE

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

INDEX

Α	
Air filter	
cleaning	35
installing	34
removing	34
Air filter box cleaning	35
Antifreeze checking	59
B	

Brake discs

checking
Brake fluid
front brake, adding 46
rear brake, adding 51
Brake fluid level
front brake, checking 46
rear brake, checking 50
Brake linings
front brake, changing 48
front brake, checking 47
front brake, installing 48
front brake, removing 47
rear brake, changing 53
rear brake, checking 52
rear brake, installing 52
rear brake, removing 52

C

Carburetor
float chamber, emptying63
idle
idle speed, adjusting 62
Chain
checking
cleaning
Chain guard
installing
removing
Chain guide
adjusting
checking
Chain tension
adjusting
checking
Chassis number
Choke
Cleaning
Clutch
fluid level, checking 44
fluid, changing 44
Clutch lever
basic position, adjusting 43
Compression damping
fork, adjusting 21
shock absorber, adjusting 21

Coolant
draining60
refilling61
Coolant level
checking
Cooling system
E
Engine
running in
Engine number
-
Engine sprocket
checking 40
Environment
F
Filler cap
closing
opening 10
Filling up
fuel
Foot brake lever
basic position, adjusting50
free travel, adjusting 49
free travel, checking 49
Fork legs
bleeding
dust boots, cleaning
installing 28
removing
Fork protector
installing 27
removing
Frame
checking 42
Front fender
installing
removing
Front wheel
installing
removing 55
Fuel tank
installing
removing
Fuel tap
Fuel, oils, etc
G
-

Gear oil
adding
changing 64
draining64
refilling
Gear oil level checking
Н
Hand brake lever 10 basic position, adjusting 45

INDEX

free travel, checking	45
Handlebar positionadjusting	
К	
Kickstarter	
L	
Lower triple clamp installing removing	
M	
Main silencer	
glass fiber yarn filling, changing installing removing	36
Motorcycle cleaning raising with lift stand removing from the lift stand	26
0	
Owner's manual	. 6
Ρ	
Play in throttle cable adjusting checking Plug-in stand	62
Preparing for use advice on first use	
Putting into operation checks and maintenance measures when preparing for use	15
R	
Rear sprocket checking	40
Rear wheel installing removing	
Rebound damping fork, adjusting	
Riding sag adjusting	
Rubber grip checking securing	
S	
Seat mounting removing	33
Service	-20

removing	
riding sag, checking 23	
spring preload, adjusting 23	
static sag, checking 22	2
Shock absorber part number)
Spare parts, accessories	5
Spoke tension	
checking	7
Start number plate	
installing	2
removing	2
Starting	5
Steering head bearing	
greasing	2
Steering head bearing play	
adjusting	1
checking	
Storage	
5	
Swingarm checking	2
	-
T	
Technical data	
carburetor	1
chassis	7
chassis tightening torques	3
engine	L
engine tightening torques	
fork	
shock absorber 76	5

 left front
 7

 right rear
 8

Throttle cable routing

Tire air pressure

Tire condition

View of vehicle

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